

Ahead of the Expected



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2022

COMMERCIAL AIR SOLUTIONS

# 2022 COMMERCIAL AIR SOLUTIONS

LG AIR SOLUTION



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# 028

## OUTDOOR UNITS

|                                                 |     |
|-------------------------------------------------|-----|
| MULTI V S                                       | 030 |
| MULTI V S                                       | 060 |
| MULTI V M                                       | 082 |
| MULTI V WATER IV<br>(HEAT PUMP / HEAT RECOVERY) | 092 |



# 118

## INDOOR UNITS

|                                                  |     |
|--------------------------------------------------|-----|
| WALL MOUNTED                                     | 120 |
| CEILING MOUNTED CASSETTE                         | 134 |
| CEILING MOUNTED ROUND CASSETTE                   | 154 |
| CEILING CONCEALED DUCT                           | 158 |
| FRESH AIR INTAKE                                 | 172 |
| CEILING & FLOOR CONVERTIBLE<br>CEILING SUSPENDED | 174 |
| CONSOLE & FLOOR STANDING                         | 180 |
| COMPATIBILITY &<br>FEATURE FUNCTIONS             | 188 |



# 192

## HOT WATER SOLUTION

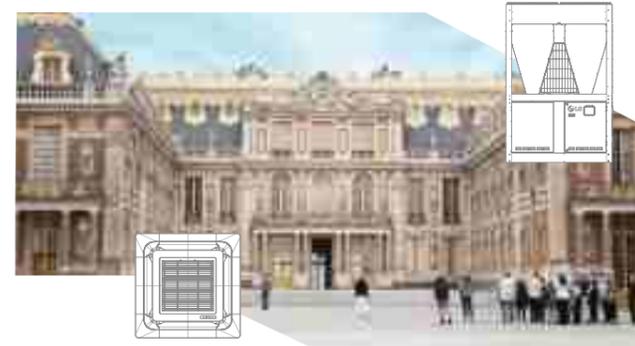
|           |     |
|-----------|-----|
| HYDRO KIT | 194 |
|-----------|-----|



# 202

## VENTILATION SOLUTIONS

|                  |     |
|------------------|-----|
| ERV              | 204 |
| ERV WITH DX COIL | 212 |



# 214

## CHILLER

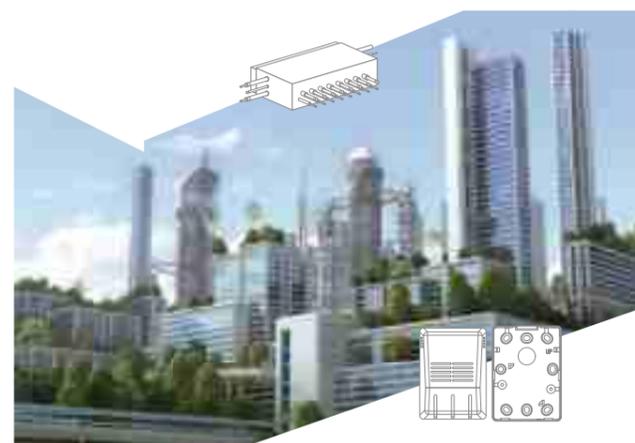
|                         |     |
|-------------------------|-----|
| INVERTER SCROLL CHILLER | 218 |
| FCU                     | 230 |



# 244

## CONTROL SOLUTIONS

|                     |     |
|---------------------|-----|
| INDIVIDUAL CONTROL  | 250 |
| CENTRALIZED CONTROL | 262 |
| INTEGRATION DEVICE  | 284 |



# 320

## ACCESSORIES

|                        |     |
|------------------------|-----|
| MECHANICAL ACCESSORIES | 322 |
| PIPING ACCESSORIES     | 330 |

# NEW INNOVATION FOR 2022

## MULTI V™ News

ULTIMATE EFFICIENCY • R32 • AIR PURIFYING • MATCHING DESIGN



**Multi V,  
Recognized for  
its technology  
and Innovativeness**

LG Electronics won the Air-Conditioning, Heating and Refrigeration Institute (AHRI) Performance Award for three straight years (2017-2019)  
\*Passed AHRI performance evaluations for 13 models in 7 main product groups, including  
\*Integrated A/C \*Large-capacity System A/C \*Mid- to Small-capacity System A/C



**Air Cleaning Function  
for the good air quality**

LG System Air Conditioners provide air purification control for the fine AQI, and even global brands like Starbucks choose it for their needs. 5-Steps Air Purifying Process Removes Irritability



**Eco-conscious refrigerant  
with the future in mind**

New line-up applying the industry-first mini VRF with R32 refrigerant to MULTI V S.

- Air cooled VRF Heat pump
- 12.1 - 15.5kW (Cooling capacity based)
- Both 1Ø, 220 - 240V, 50Hz and 3Ø, 380 - 415V, 50Hz
- Side discharge outdoor unit



LG participates in the ECP program by EUROVENT and provides the highest quality of certification. [www.eurovent-certification.com](http://www.eurovent-certification.com)

**New Innovation  
Novel Design**



# HIGHLIGHTS OF MULTI V



DUAL SENSING CONTROL



Black Fin

## ULTIMATE EFFICIENCY

Ultimate Energy Saving with Dual Sensing Control.



Humidity + Temperature

## SUPERIOR DURABILITY

LG's exclusive "Black Fin" heat exchanger is designed to perform even in corrosive Environments.

Verified Protection

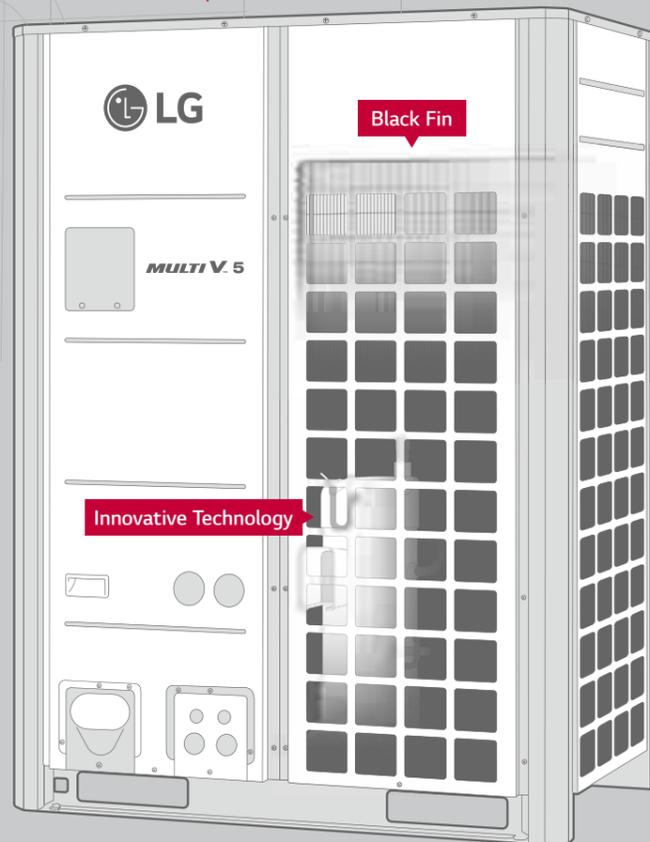
※ Verification of corrosion resistance performance  
- Test Method B of ISO 21207  
- ASTM B117 / ISO 9227 (10,000 hours)



Ultimate Efficiency

Black Fin

Innovative Technology



R1 Compressor™

## INNOVATIVE TECHNOLOGIES

Ultimate Inverter Compressor  
- MULTI V 5  
Revolutionary Scroll R1 Compressor  
- MULTI V S R32, MULTI V M

## DESIGN FLEXIBILITY

Flexible Installation with Large Capacity Outdoor Unit.  
MULTI V 5 enables easy type change-over to suit the purpose of any building. MULTI V S allows versatile design with flexible piping locations.



## BRAND RELIABILITY

Global production sites facilitate world-class customer service.



## R32 APPLICATION

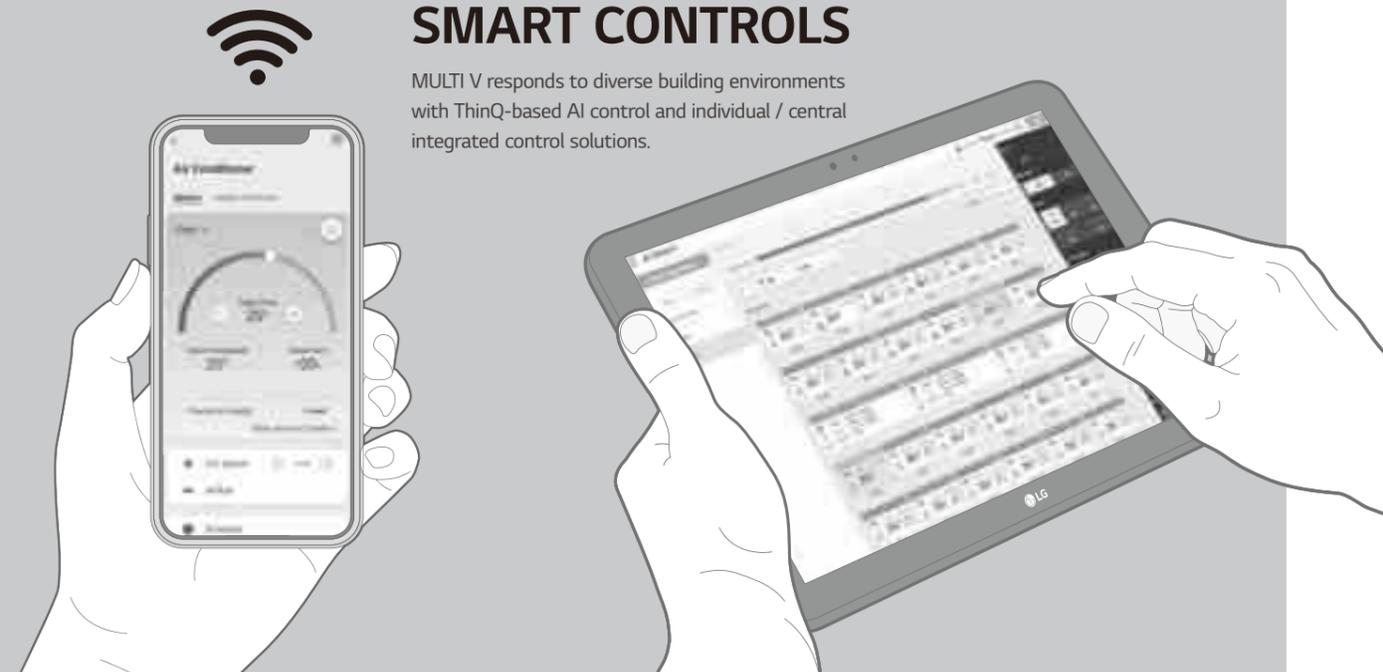
New line-up applying the industry-first mini VRF with R32 refrigerant to MULTI V S.

## DIVERSE PRODUCT LINE UP

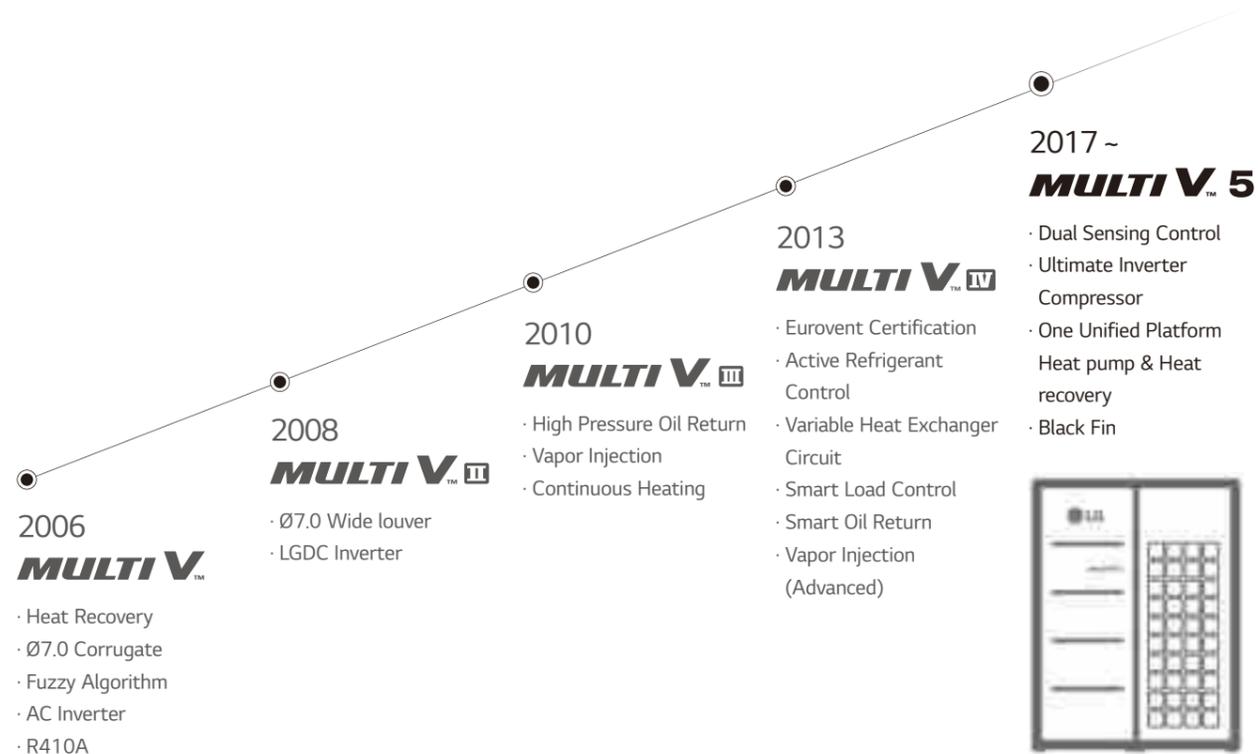
Integrated solution optimized for various business environments, including hot water, AHU, BMS, and EMS.

## SMART CONTROLS

MULTI V responds to diverse building environments with ThinQ-based AI control and individual / central integrated control solutions.



# MULTI V BRAND HISTORY



Since the time when LG launched Korea's first residential air conditioner in 1968, the company has worked to continuously enhance its technological innovation and reliability. As a result of sustained improvement, LG VRF launched the first generation of MULTI V in 2006 and achieved significant development. With the best-in-class compressor technology and innovation applied to every part and control solution, MULTI V has evolved to be one of the world's most efficient and reliable VRF solutions.

The first and second generations of MULTI V boasted inverter technology and non-ozone depleting technology, while MULTI V III was produced with cutting edge tech like oil return with HiPOR™ and double compression features with mid-pressure refrigerant allowed by Vapor Injection. The innovative technologies of MULTI V's fourth generation brought about product leadership in efficiency. Its smart load control adjusts with the outdoor temperature, while optimizing refrigeration management and heat exchange for both cooling and heating.

MULTI V's wide range of VRF solutions satisfies various building types and sizes. MULTI V S's size discharge was designed for small to mid-sized buildings while MULTI V Water is a water-cooled VRF solution with variable water flow control technology.

In 2017, the ultimate VRF solution was introduced with MULTI V 5. This generation has fully improved its technological potential with the powerful and reliable yet economical Ultimate Inverter Compressor, effective corrosion resistance with the Black Fin coating and enlarged fans. Dual Sensing Control offers the most pleasant indoor environment while minimizing unnecessary energy loss by sensing both temperature and humidity to efficiently manage cooling, heating and part load.

MULTI V 5 has been designed for the ultimate efficiency, performance, flexibility, comfort and control, ensuring the most pleasant indoor experience.

# INFRASTRUCTURE IN EUROPE



## LG Air Conditioning Academy

LG has set up 20 official air conditioning academies in Europe, teaching much needed skills to thousands of current industry professionals including installers, consultants, designers, sales staff and service technicians. The academy program is being used to share expertise and educate these HVAC experts by providing a cutting-edge technical experience with the newest and most advanced technologies and equipment. Moreover, as LG's entire product range is installed on site, professionals can be trained in a realistic way that offers them the chance to experience the latest products first-hand.



## European Air Conditioning Distribution Center

LG's European Air Conditioning Distribution Center is located in Oosterhout, the Netherlands. Supplying and delivering products all over Europe, this distribution hub has contributed to smooth and rapid delivery, direct shipping for smaller orders and delivery tailored to air conditioners. The hub tries to manage inventory efficiency by taking advantage of LG EU's established inventory pool.

-  Air Conditioning Academy
-  Europe Energy Lab
-  European Distribution Center



# ENGINEERING TOOLS & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes through many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution possible. Given the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout their lifecycle.

Dedicated to provide the best HVAC engineering support, LG Electronics Air Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories. Among them, the LATS\* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers with a solution that allows for faster, easier and more accurate model selection, draft energy estimations and more.

\* LATS : LG Air-conditioner Technical Solution



I

**Energy Estimation  
& Energy Modeling**



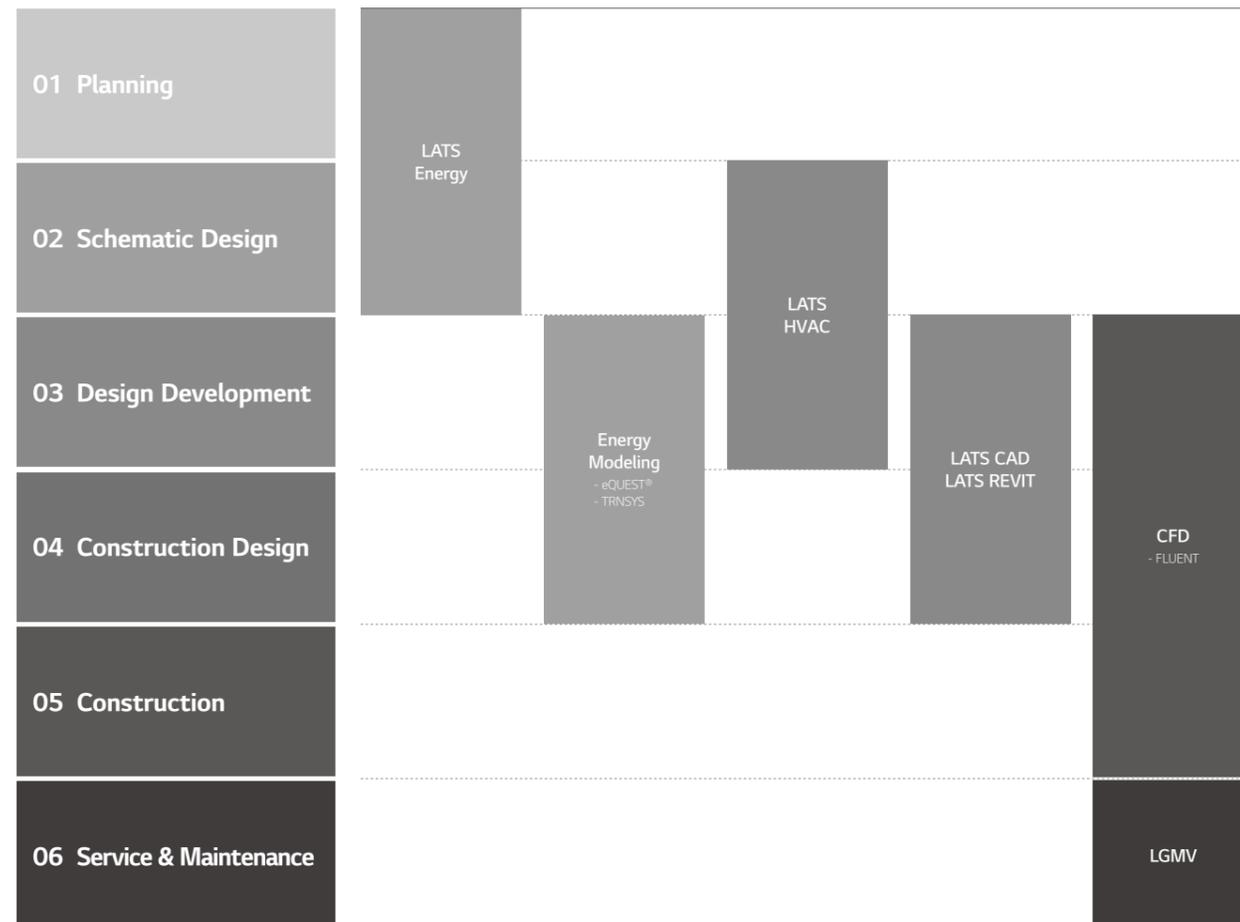
II

**Model Selection  
& Design**



III

**Installation  
Environment  
Simulation**



## 01 Draft Energy Estimation

### LATS Energy

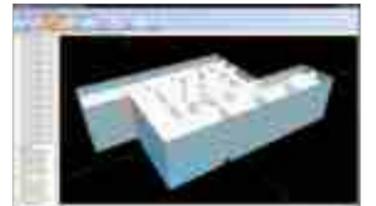
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems during a project's early stages.



## 02 Building Energy Modeling

### eQuest, EnergyPro, Trace700 and More

These are certified commercial programs which assess the HVAC system efficiency and building's annual energy savings for building standards or certifications, like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design wherein the overall designing is finished.



## 03 Model Selection

### LATS HVAC

LATS HVAC is a model selection program that accurately and quickly selects the most suitable LG commercial air conditioning systems for each design. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing of reports.



## 04 Design

### LATS CAD

LATS CAD enables faster and more accurate 2D design of LG commercial air conditioning systems. It also enables modules for quotation and installation review that minimize inherent problems during installation and commissioning.

※ AutoCAD program is required.



### LATS REVIT

LATS REVIT allows BIM users to have an attractive 3D design of LG commercial air conditioning systems with embedded calculations for refrigerant and efficiency features.

※ AutoCAD Revit program is required.



## 05 Environment Simulation

### CFD Analysis

CFD Analysis is applied in areas of estimating : indoor airflow and temperature distribution while operating VRF products, outdoor airflow distribution, and noise level. By running a simulation before construction, engineers estimate possible issues and find optimal solutions for malfunctions that could occur after construction.



## 06 Service & Maintenance

### LGMV

LGMV offers real-time MULTI V cycle monitoring. During start-up, LGMV can check for normal operation as well as troubleshoot any errors. Also it helps to find causes of errors and solve the problem faster.



# BENEFITS OF LG MULTI V

## Benefits for Building Owners



### Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance
- Requires no extra manpower for regular maintenance
- With diverse control systems, maintenance cost is minimized



### Reliability at Every Stage

- Ultimate Inverter Compressor developed and manufactured in Korea
- Corrosion resistant Black Fin for harsh conditions operation
- Smart Oil management (Auto Oil Balancing and Active Oil return) decreases compressor damage



### Customized Comfort and Solution

- Compatible option between Heat pump and Heat recovery system is possible



## Benefits for Developers & Construction Companies



### Green Solutions

- Optimized for LEED/BREEAM certification
- Renewable energy solution provided through geothermal application



### Maximizing Space Utilization

- Large capacity in compact size enhances space utilization



### Smart Building Solutions

- Seamless integration with current Building Management Systems
- Wi-Fi control available for anytime, anywhere access (via the 'ThinQ' mobile app)
- Energy management and control according to usage and planning is possible with LG's centralized control solution



## Benefits for Consultants



### Versatile Solutions

- Air-cooled, Water-cooled, Heating, and Air Handling Unit interlocking solutions



### Professional Design Support

- LATS (LG Air-conditioner Technical Solution) for draft energy estimation, model selection, HVAC design and 3D designing
- CFD Analysis to ensure suitable solutions and prevent malfunctions
- Energy simulation offered to find the optimal solution



### Optimized Convenience with HVAC Design

- Flexible and longer piping length facilitates HVAC designing process
- Meets any type of customer requirements of diverse environment, design conditions, and building applications



## Benefits for End-users



### Cost Saving Operation

- High efficiency guaranteed throughout product line-up
- Up to 31% cost savings with MULTI V's Smart Load Control\*



### Comfort Cooling & Heating

- Smart Load Control maximizes indoor comfort level
- Dual Sensing Control offers pleasant and comfortable cooling and heating environment
- Duration time of Continuous Heating is 11% longer than previous model\*\*



### Convenient Functions

- Low-noise operation provides a pleasant environment

\* Dual Smart Load Control ESEER based, below 50% humidity, model ARUM260LTE5  
 \*\* LG internal test result



# APPLICATION SOLUTIONS

## Office

Supporting efficiency with flexibility

### High Rise Office Building



- MULTI V WATER IV
- DX AHU
- High Static Duct
- PDI\*\*
- Variable water flow control kit

### Small to Medium sized Office Building



- MULTI V 5 / S
- 4 Way CST\*
- PDI\*\*

The MULTI V series revitalizes the workspace by providing fresh air at all times. LG's intelligent control solutions add comfort to any space.

## Commercial

Maximizing business, minimizing cost

### Shopping Mall



- MULTI V 5
- DX AHU

### Retail



- MULTI V M
- ERV
- Convertible

### Quick Service Restaurant (QSR)



- MULTI V M
- ERV
- Hydro Kit
- 4 Way CST

The highly efficient, energy saving MULTI V 5 and MULTI V M reduces operation costs, and provides comfort that suits any purpose and any space, helping to invest the extra space and expense to your business.

\* CST : Cassette \*\* PDI : Power Distribution Indicator

## Residential

Creating a comfortable home

### Condominium & Apartments



- MULTI V S HR
- Hydro Kit
- 1/2 Way CST
- 3<sup>rd</sup> party controller RTU gateway

### Single Family House & Villa

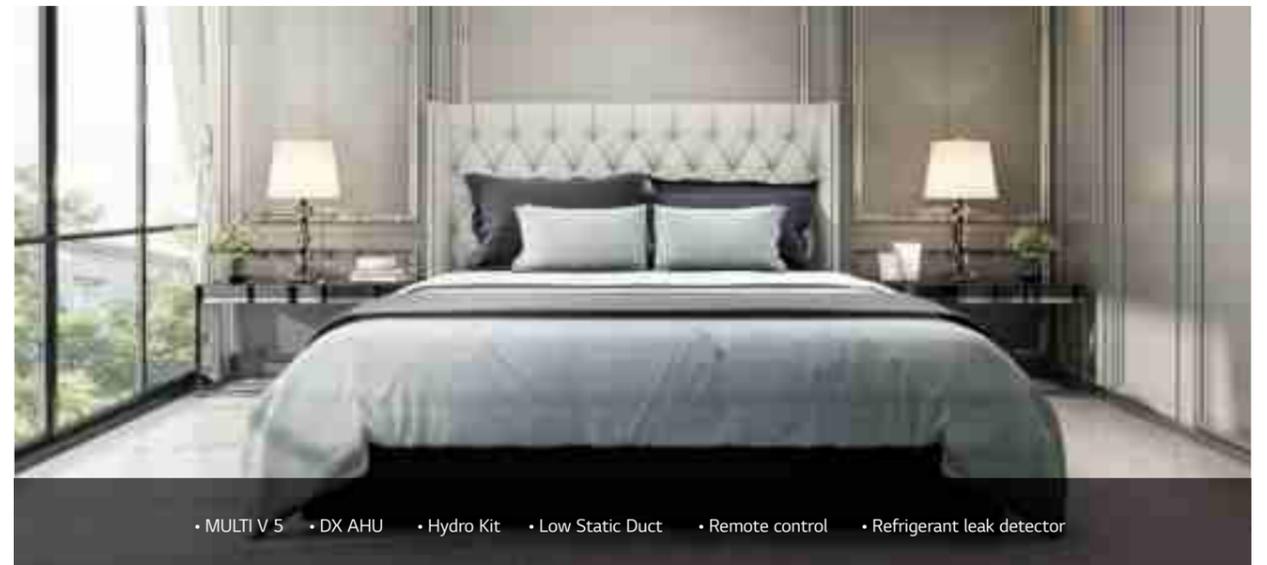


- MULTI V S
- Therma V
- ESS\* & PV\*\* Solar

Remarkably compact size and high static pressure of MULTI V S enables optimal space solution, providing comfort to every space through individual zone control and hot water solution.

## Hospitality

Meeting diverse needs



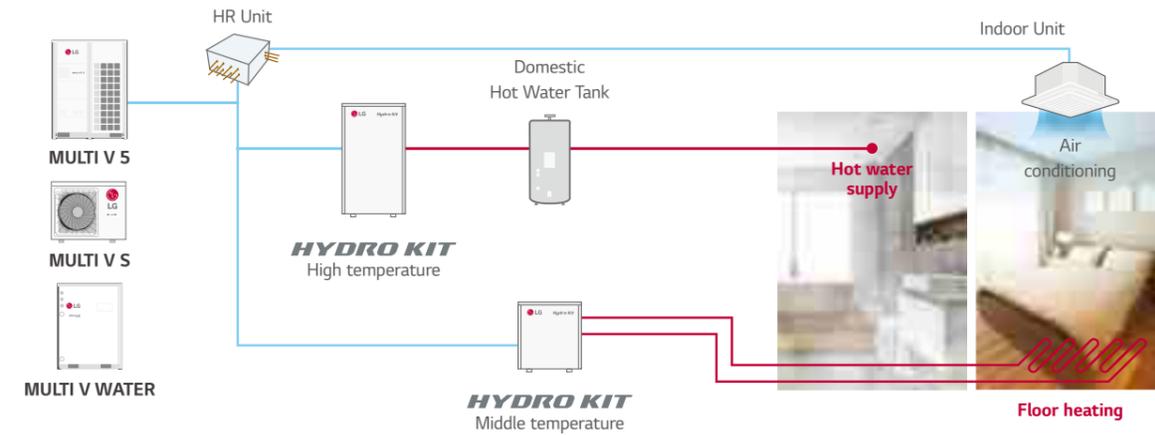
- MULTI V 5
- DX AHU
- Hydro Kit
- Low Static Duct
- Remote control
- Refrigerant leak detector

The diverse applications that Multi V 5 offers bring just the right solution to a sophisticated hotel business.

\* ESS : Energy Storage System \*\* PV : Photovoltaics

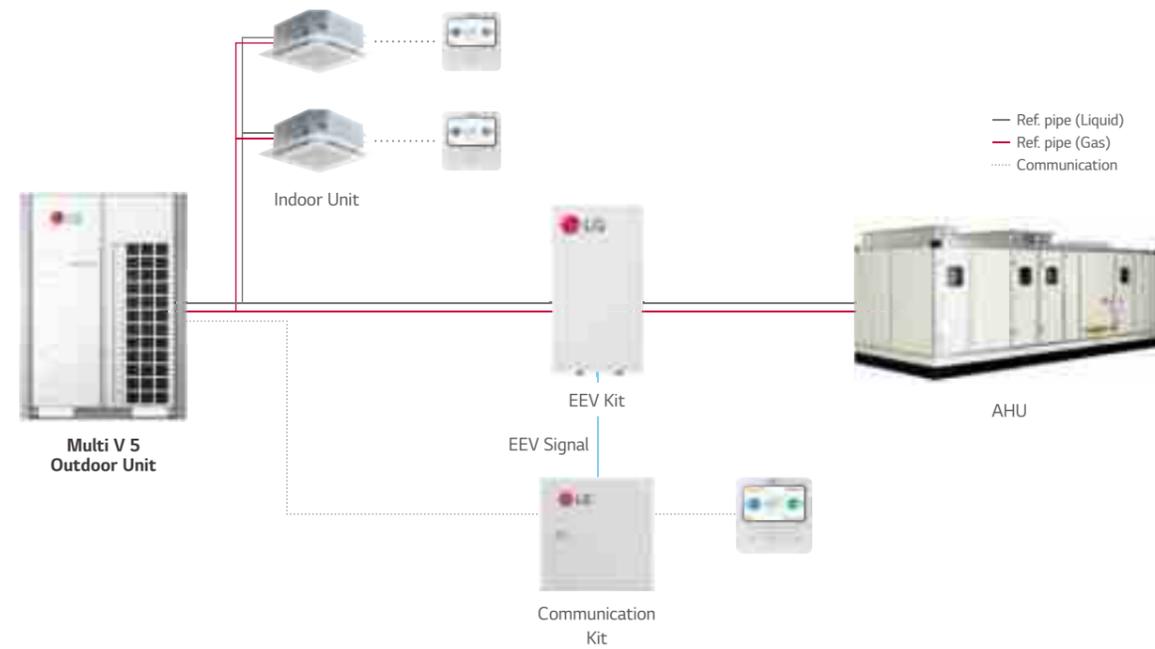
## Hot Water Solution

Water heating costs can be reduced with a heat pump, which provides higher efficiency than a boiler system. The Hydro Kit can be connected to Multi V 5, providing temperatures up to 80°C. Energy savings can be maximized with the combination of the Hydro Kit and the Multi V 5 Heat Recovery system.



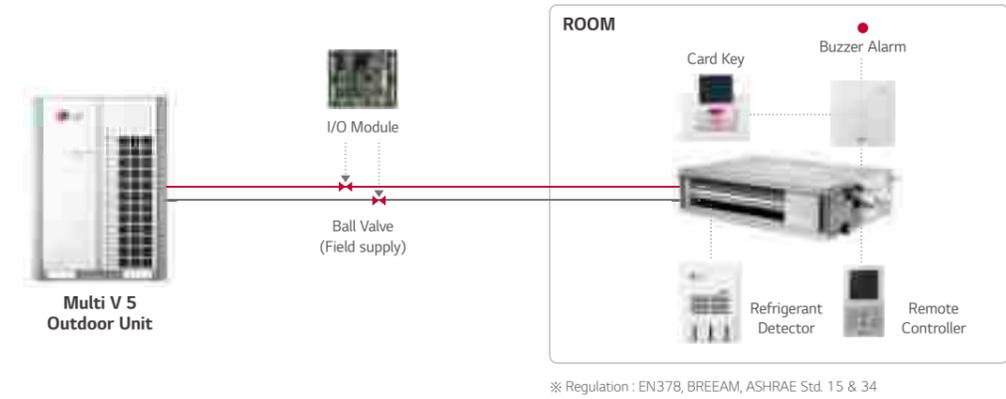
## Air Handling Unit (AHU) Solution

AHU is a suitable solution for cooling and heating in large space. With an LG AHU Comm. Kit (for both return air / supply air control) connected to the DX coil of the AHU, LG VRF system can be applied to deliver conditioned air.



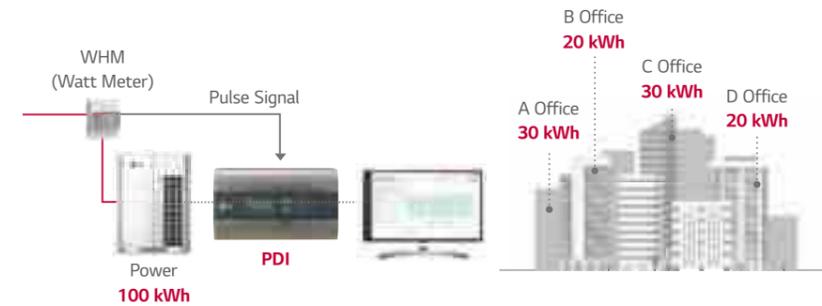
## Refrigerant Leak Detection Solution

Real-time refrigerant leak detection ensures a safe environment. When refrigerant concentration exceeds 6,000ppm for 5 seconds, the indoor unit will stop operation and alert users with a buzzer or light switch (Dry contact option).



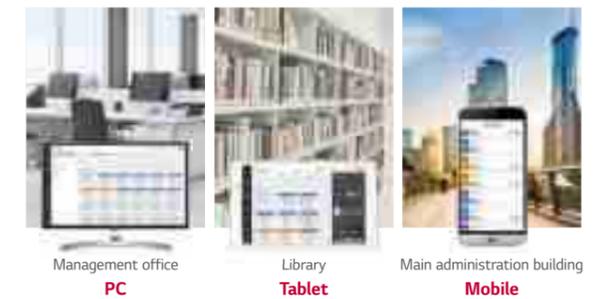
## Power Consumption Distribution Solution

In case of shared power consumption in a building, a solution to distribute the power consumption amount per tenant might be necessary. Electricity charges can be billed to each tenant by using output from the LG Power Distributor Indicator (PDI). An administrator is able to check the power usage for each space and date as needed. If the PDI is used in conjunction with an LG central controller, the results can be exported to Excel.



## Total Control via Any Device

In order to manage multiple spaces and multiple buildings, the administrators should be able to control systems from wherever they are. The LG central controller can be controlled from any web browser that supports HTML5. Now through the implementation of HTML5, the interface will look great and perform well on any device.



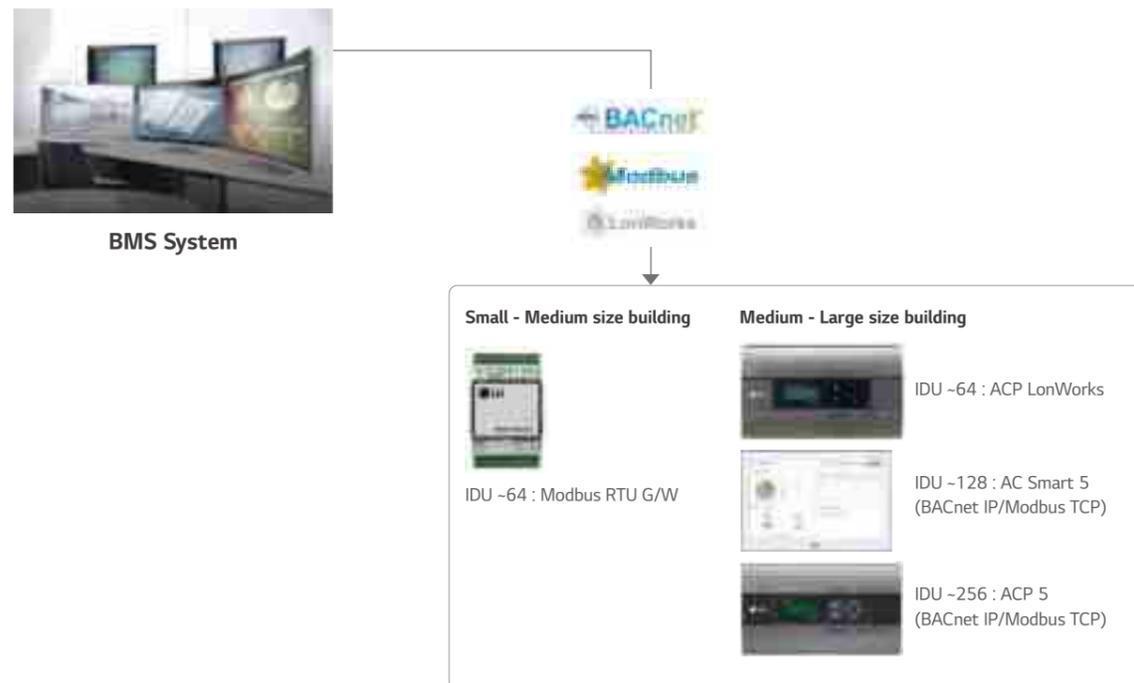
## Energy Management Solution

Since HVAC systems use a significant portion of any building's total amount of energy, the energy saving functions of a controller can make a big difference. The energy navigation function enables you to set target values for energy consumption over a certain period of time. In addition, to achieve that value, the administrator can set the energy saving logic in 7 steps and predict the expected usage relative to the target value. Active self-management enables energy savings throughout the building.



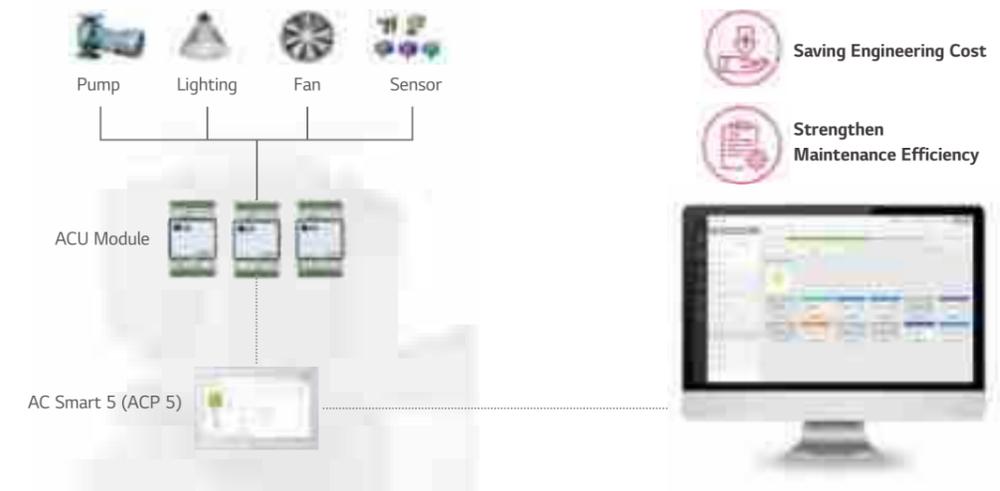
## Integration Solution with BMS

There are many BMS protocols used for the control of buildings' various systems such as HVAC, lighting, power and security. LG has a wide range of gateway products for different protocols such as BACnet, Modbus, and LonWorks. In addition, LG gateways include Stand-alone central control capability to act as a back-up controller of the BMS if needed.



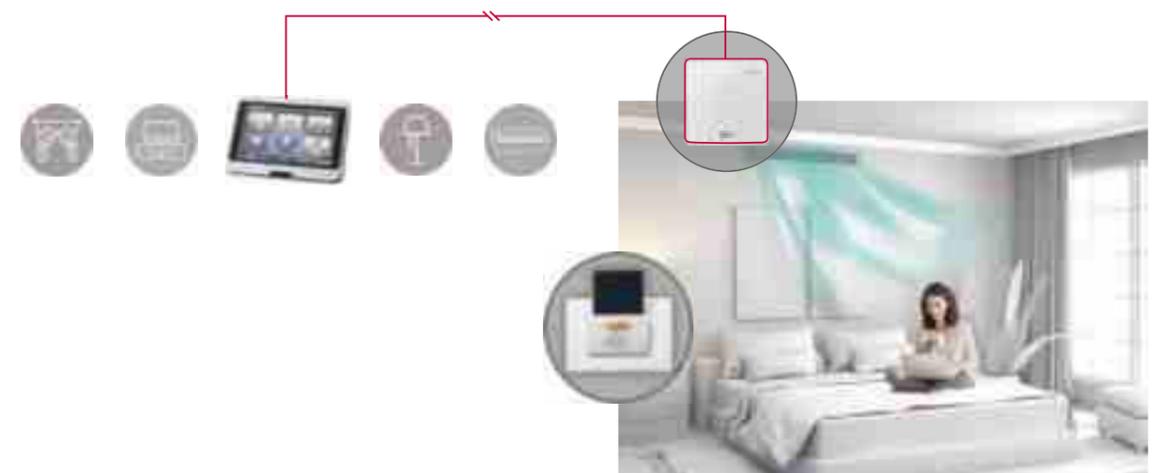
## Interlocking Solution by Using ACU Module

It is costly to introduce a BMS system to control multiple devices or systems in a small building. With the ACU module, various IO contact points (DI, DO, UI, AO) can be interlocked and integrated, while control is possible from the LG central controller. This enables an efficient management of lighting, pumps and other devices in the building in conjunction with the HVAC system.



## Interlocking Solution Using Dry Contact

3<sup>rd</sup> party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote control has a DO port. With this DO port, it is possible to interlock the indoor unit with 3<sup>rd</sup> party devices such as lighting, a fan, or a radiator, based on parameters like operation mode or current temperature. The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor etc. so that the air conditioner is automatically operated. In addition, the dry contact option settings enable operation of air conditioner to maintain proper temperature when the occupant is absent. This solution makes sure that the room does not overheat or become too cold when unoccupied so that energy cost can be saved.



# OUTDOOR UNITS LINE-UP

**MULTI V™ 5**

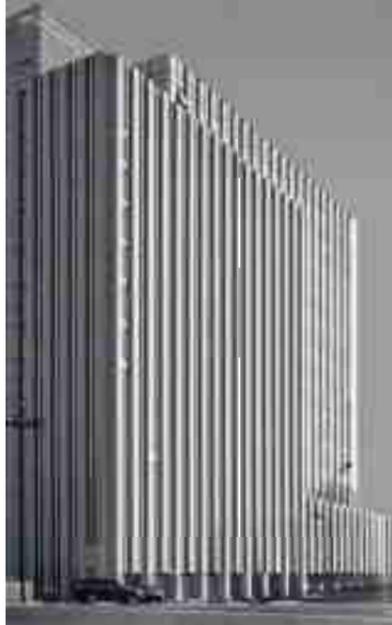
**8 - 12 HP**  
380V, 3Ø

**14 - 20 HP**  
380V, 3Ø

**22 - 40 HP**  
380V, 3Ø

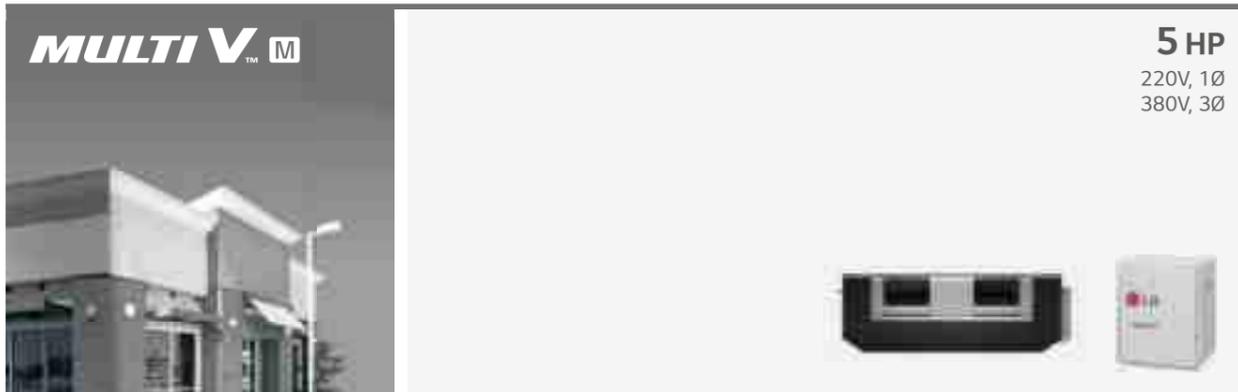
**42 - 60 HP**  
380V, 3Ø

**62 - 80 HP**  
380V, 3Ø



**MULTI V™ M**

**5 HP**  
220V, 1Ø  
380V, 3Ø



**MULTI V™ S**

**4 HP**  
220V, 1Ø

**5 - 6 HP**  
220V, 1Ø

**4 - 8 HP**  
380V, 3Ø

**10 - 12 HP**  
380V, 3Ø

**6 HP**  
220V, 1Ø

**Heat Recovery**

**4 - 6 HP**  
220V, 1Ø  
380V, 3Ø

**R32**



**MULTI V™ WATER IV**

**8 - 10, 14, 20 HP**  
380V, 3Ø

**16 - 18, 22 - 24, 28 - 30, 34, 40 HP**  
380V, 3Ø

**42 - 44, 48 - 50, 54, 60 HP**  
380V, 3Ø

**62 - 64, 68 - 70, 74, 80 HP**  
380V, 3Ø







| Individual Control                                                                  |                                                                                       | Centralized Control                                          |                                                                                     |                                                                                       |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Wired Remote Controller                                                             |                                                                                       | Wireless Remote Controller                                   | Display                                                                             | Platform                                                                              | Gateway                                                                             |                                                                                     |
| Standard                                                                            | Simple                                                                                |                                                              |                                                                                     |                                                                                       |                                                                                     |                                                                                     |
| Standard III (White)                                                                |                                                                                       | PWLSSB21H (Heat Pump)<br>PWLSSB21C (Cooling Only)            | AC Ez                                                                               | ACP 5                                                                                 | ACP LonWorks                                                                        |                                                                                     |
|    |      |                                                              |    |    |  |                                                                                     |
| PREMTB100                                                                           | PQRCVCLQW                                                                             |                                                              | PQCSZ250S0<br>(Indoor Unit - 32)                                                    | PACP5A000<br>(Indoor Unit - 256)<br>BACnet IP / Modbus TCP                            | PLNWK000<br>(Indoor Unit - 64)                                                      |                                                                                     |
| Standard III (Black)                                                                |                                                                                       |                                                              | Wi-Fi Modem                                                                         | AC Ez Touch                                                                           | AC Manager 5                                                                        | Modbus RTU gateway                                                                  |
|    |      |                                                              |                                                                                     |      |  |  |
| PREMTBB10                                                                           | PQRCVCLQ                                                                              | For Indoor Unit<br>PWFMD200                                  | PACEZA000<br>(Indoor Unit - 64)                                                     | PACM5A000<br>(Indoor Unit - 8,192)                                                    | PMBUS00A<br>(Indoor Unit - 64)                                                      |                                                                                     |
| Standard II (White)                                                                 |                                                                                       | PACSSA000<br>(Indoor Unit - 128)<br>BACnet IP / Modbus TCP   | AC Smart 5                                                                          | PI485                                                                                 |                                                                                     |                                                                                     |
|    |      |                                                              |  |    |                                                                                     |                                                                                     |
| PREMTB001                                                                           | PQRCHCAQW<br>(Simple for Hotel)                                                       |                                                              | PHNFP14A0                                                                           | For Indoor Unit (ERV)<br>PHNFP14A0                                                    |                                                                                     |                                                                                     |
| Standard II (Black)                                                                 |                                                                                       |                                                              | For AWH-HP<br>PP485A00T                                                             | PI485                                                                                 |                                                                                     |                                                                                     |
|  |    |                                                              |                                                                                     |  |                                                                                     |                                                                                     |
| PREMTBB01                                                                           | PQRCHCAQ<br>(Simple for Hotel)                                                        | PP485A00T                                                    | For AWH-HP<br>PP485A00T                                                             |                                                                                       |                                                                                     |                                                                                     |
| Premium                                                                             |                                                                                       | For Outdoor Unit<br>(SINGLE / MULTI / THERMA V)<br>PMNFP14A1 | PI485                                                                               |                                                                                       |                                                                                     |                                                                                     |
|  |  |                                                              |                                                                                     |                                                                                       |                                                                                     |                                                                                     |
| PREMTA000<br>PREMTA000A<br>PREMTA000B                                               | PMNFP14A1                                                                             |                                                              | For Outdoor Unit<br>(SINGLE / MULTI / THERMA V)<br>PMNFP14A1                        |                                                                                       |                                                                                     |                                                                                     |

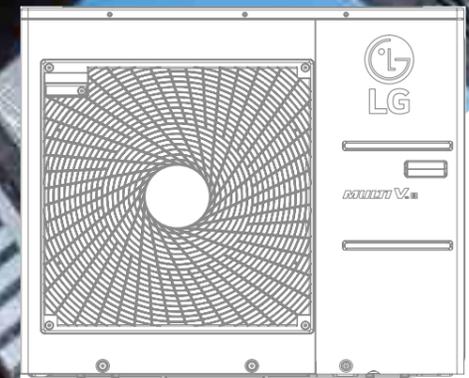
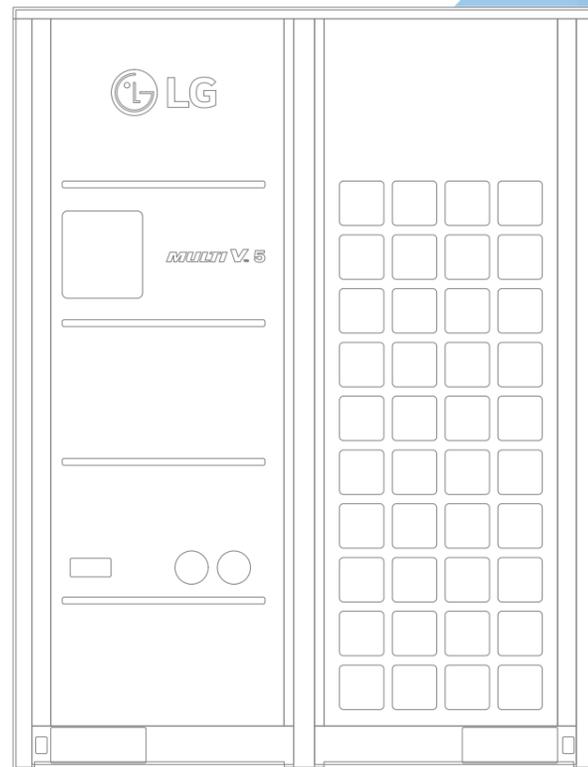
| Centralized Control                                                                   | Integration Device                                                                    |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Facility Integrator                                                                   | Indoor Unit                                                                           |                                                                                       | Outdoor Unit                                                                          | AHU Kit                                                                               |
|                                                                                       | Dry Contact                                                                           | Control Accessory                                                                     |                                                                                       |                                                                                       |
| PDI<br>(Power Distribution Indicator)                                                 | Group Control Wire                                                                    |                                                                                       | IO Module<br>(Input / Output Module)                                                  | Communication Kit                                                                     |
|    |    |    |    |    |
| Premium (8 ports) PQNUD1S40<br>Standard (2 ports) PPWRDB000                           | Simple Dry Contact<br>PDRYCB000                                                       | PZCWRG3                                                                               | For MULTI V IV, 5<br>PVDSMN000                                                        | Return / Room Air Control<br>PAHCMR000                                                |
| ACS IO Module<br>(Input / Output Module)                                              | Remote Temperature Sensor                                                             |                                                                                       | Variable Water Flow<br>Control Kit                                                    |                                                                                       |
|    |    |    |    |    |
| PEXPMB000                                                                             | Dry Contact for Thermostat<br>PDRYCB320                                               | PQRSTA0                                                                               | For MULTI V WATER IV<br>PWFKCN000                                                     | Discharge / Supply Air Control<br>PAHCMS000                                           |
| Chiller Option Kit                                                                    | Zone Controller                                                                       |                                                                                       | Low Ambient Kit                                                                       | Controller Module                                                                     |
|    |    |    |    |    |
| PCHLLN000                                                                             | 2 Points Dry Contact (For Setback)<br>PDRYCB400                                       | 4 Zones by thermostat<br>ABZCA                                                        | For MULTI V IV, 5<br>PRVC2                                                            | Main Module<br>PAHCMM000                                                              |
| ACU IO Module<br>UIO                                                                  | Multi-tenant Power Module                                                             |                                                                                       | Cool / Heat Selector                                                                  |                                                                                       |
|  |  |  |  |  |
| PEXPMB300                                                                             | For Modbus<br>PDRYCB500                                                               | PINPMB001                                                                             | PRDSBM                                                                                | Communication Module<br>PAHCMC000                                                     |
| UO                                                                                    |                                                                                       |                                                                                       |                                                                                       | Control Kit                                                                           |
|  |                                                                                       |                                                                                       |                                                                                       |  |
| PEXPMB200                                                                             |                                                                                       |                                                                                       |                                                                                       | PAHCNM000<br>(Max. 3 Outdoor Units)                                                   |
| UI                                                                                    |                                                                                       |                                                                                       |                                                                                       | Water Communication Module                                                            |
|  |                                                                                       |                                                                                       |                                                                                       |  |
| PEXPMB100                                                                             |                                                                                       |                                                                                       |                                                                                       | PAHCMW000                                                                             |
| EEV Kit (Electronic Expansion Valve)                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                       |  |  |  |                                                                                       |
|                                                                                       | PRLK048A0 (- 28 kW)<br>PRLK096A0 (- 56 kW)                                            | PRLK396A0<br>(- 112 kW)                                                               | PRLK594A0<br>(- 168kW)                                                                |                                                                                       |

028-117

# OUTDOOR UNITS

MULTI V 5 / MULTI V S / MULTI V M /

MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY)



# MULTI V™ 5

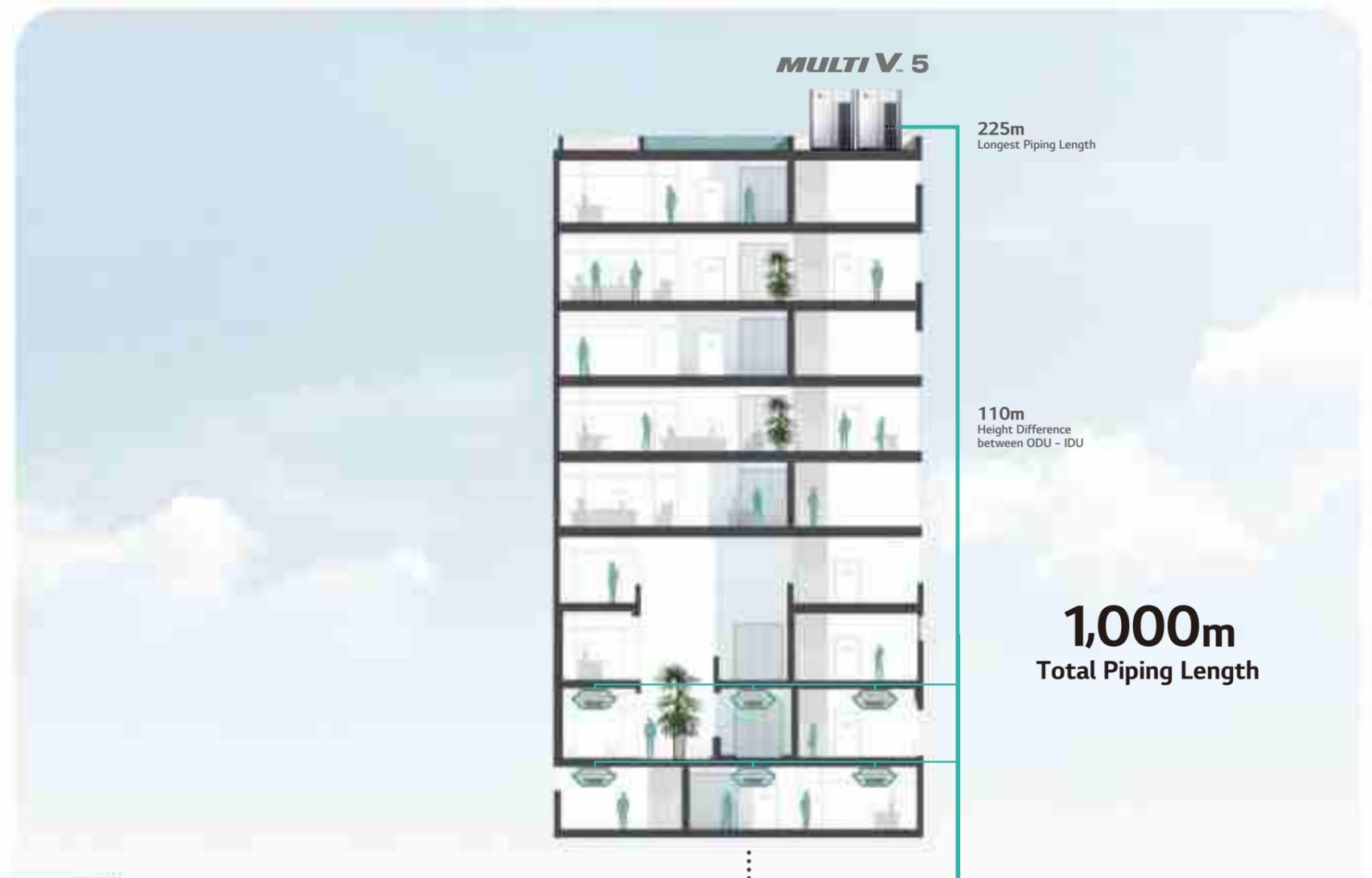
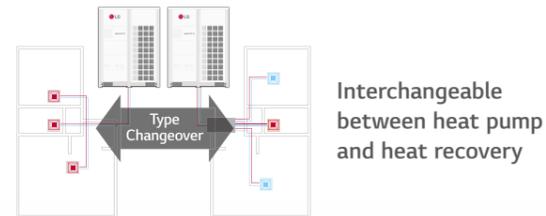
## Highlight

- Air cooled VRF Heat Pump & Heat Recovery
- 22.4kW ~ 268.8kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Top discharge outdoor unit
- Ability to function as Heat Pump or Heat Recovery

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
| Energy savings                                                                    | Reliability                                                                       | Low noise                                                                         | Advanced performance                                                              |

## How does it work?

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Dual Sensing                                                                        | Partial Defrost                                                                     |



# Dual Sensing Smart Load Control (SLC)

Enhanced energy saving & increased indoor comfort

Cooling loads vary according to both temperature and humidity. With Dual sensing SLC, the proper amount of work can be exerted to meet the load not only depending on current temperature, but also on humidity. As a result, less work will be needed at the same temperature when humidity is lower. It influences the VRF system main processor's decision on where to set the system's target high or low system pressure values.

## Smart Load Control monitors two inputs

- 1) Outdoor ambient dry bulb temperature
- 2) Relative humidity

## What are the benefits?

### Enhanced energy savings

#### Cooling Mode

By raising the target low pressure during off-peak cooling operation.

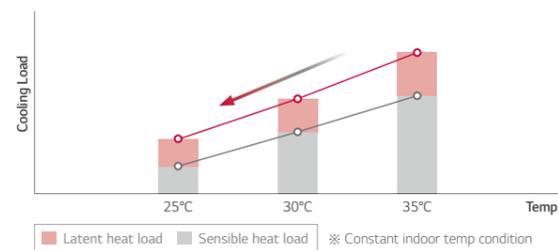
#### Heating Mode

By lowering the target high pressure during off-peak heating operation.

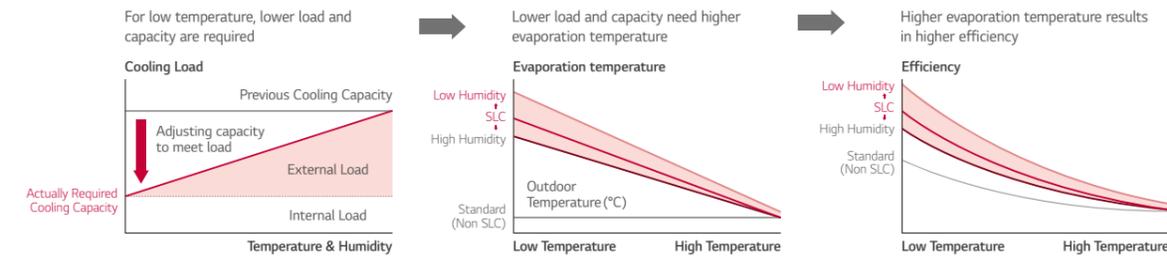
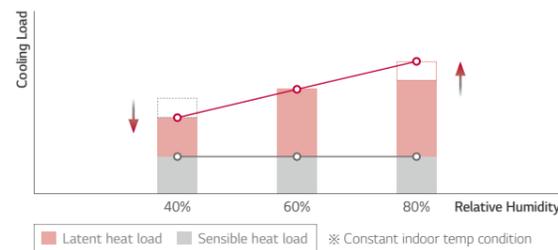
### Increased indoor comfort

This function allows MULTI V 5 to maintain operation at mild cooling mode around the set temperature with adjusting compressor's speed by sensing both temperature and humidity.

#### Cooling load according to temperature change



#### Cooling load according to humidity change

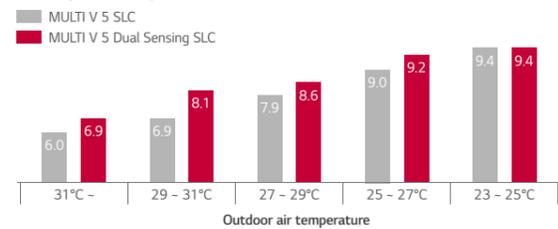


# Energy Savings with Dual Sensing Control Temperature & Humidity

## Energy Consumption in Cooling Season

Dual sensing SLC control can save 6% more energy compared to SLC. So dual sensing control is more efficient than SLC.

### Cooling Efficiency



※ This energy simulation was performed in LG internally based on 16HP model.

### Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

| OAT     | MV4 (Fixed) | MV5 SLC    | MV5 Dual SLC |
|---------|-------------|------------|--------------|
| 31 -    | 17          | 15         | 13           |
| 29 - 31 | 91          | 73         | 62           |
| 27 - 29 | 183         | 136        | 124          |
| 25 - 27 | 243         | 170        | 165          |
| 23 - 25 | 155         | 110        | 109          |
| Total   | 690 (137%)  | 503 (100%) | 474 (94%)    |

6% more energy saving compared to SLC

# Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

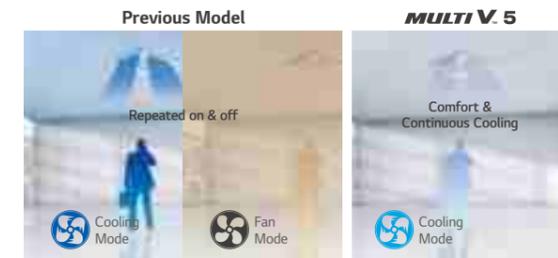
MULTI V 5's comfort control algorithm monitors the outdoor air temperature and humidity conditions. When changing weather conditions are deteriorating and there is a high potential the indoor unit's load will remain stable or may increase, comfort cooling delays or abandons raising the target superheat as the room temperature approaches set-point. When changing weather conditions are favorable to raising target superheat, target superheat is moderated.

## What are the benefits?

With comfort cooling turned on, the discharged air temperature is controlled. When the IDU controller reduces the fan speed, the potential for cold air falling on occupants located under the cassette IDU or supply air registers is reduced.

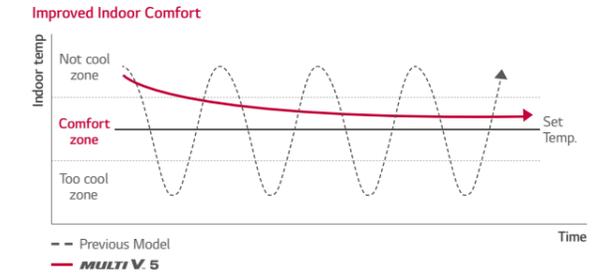
### Enhanced operating efficiency

Raising superheat reduces refrigerant volume flowing through the coil.



※ Indoor unit set up available with Standard III Remote Controller

### Preventing cold draft & repeated turn On / Off



# Intelligent Defrost

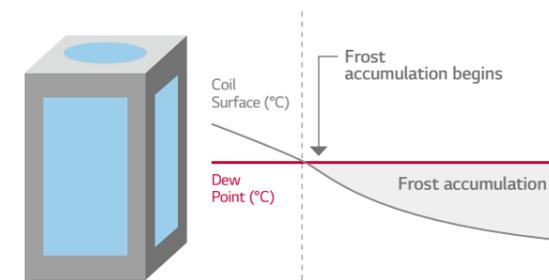
Increased heating run-hours

MULTI V has provided an intelligent defrost algorithm and settings based on current outdoor ambient temperature. With the addition of the outdoor air humidity sensor, MULTI V 5 Intelligent Defrost just got smarter.

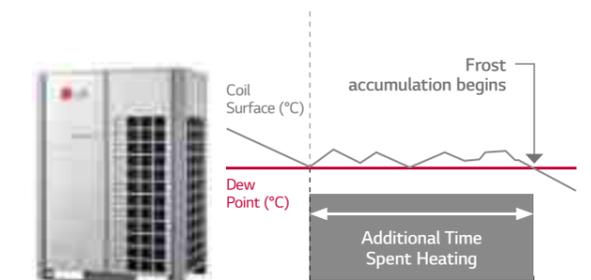
## What are the benefits?

The Intelligent Defrost algorithm increases the VRF system's heating run-hours and reduces the number of defrost cycles required to maintain optimum heating performance irrelevant of the mode and method of defrost selected.

### Conventional Defrost



### LG Intelligent Defrost / Smart Heating



※ Increased heating operation time per day : Up to 17%  
 • LG Internal Test result,  
 • Test condition (MULTI V 5 vs MULTI V IV, 16HP)  
 - Outdoor : 2/1°C, Indoor : 20/15°C  
 - Humidity : 83%, Dew Point : -0.5°C

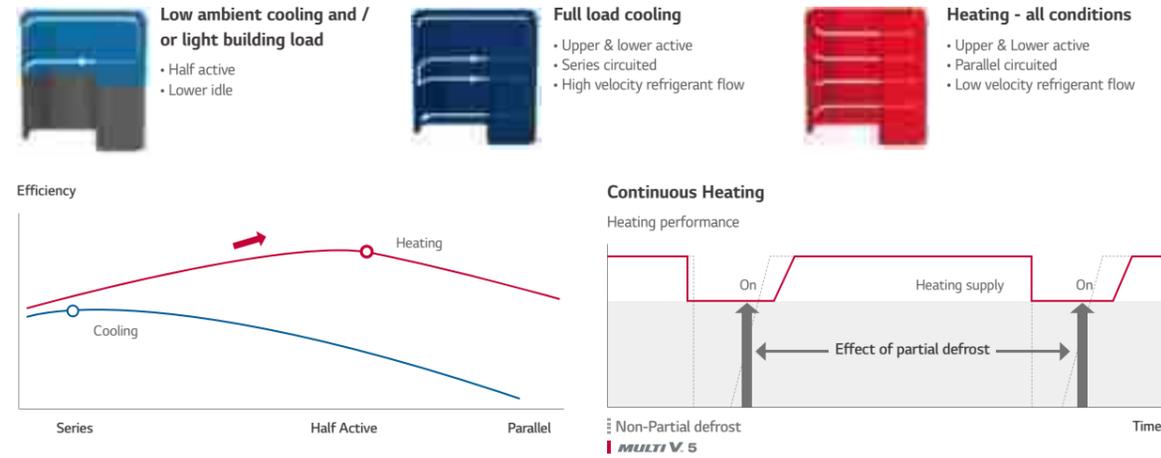
# Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

This split coil feature makes it possible for MULTI V 5 to provide continuous heating during defrost. The split coil and valve arrangement also makes it possible for the MULTI V 5 to change the flow path of refrigerant through one of the two coils only, or through both coils in either a series or a parallel arrangement.

## What are the benefits?

Optimizes system efficiency regardless of operating modes as ambient weather conditions change. Customizes the used area of the outdoor unit's heat exchange surface.



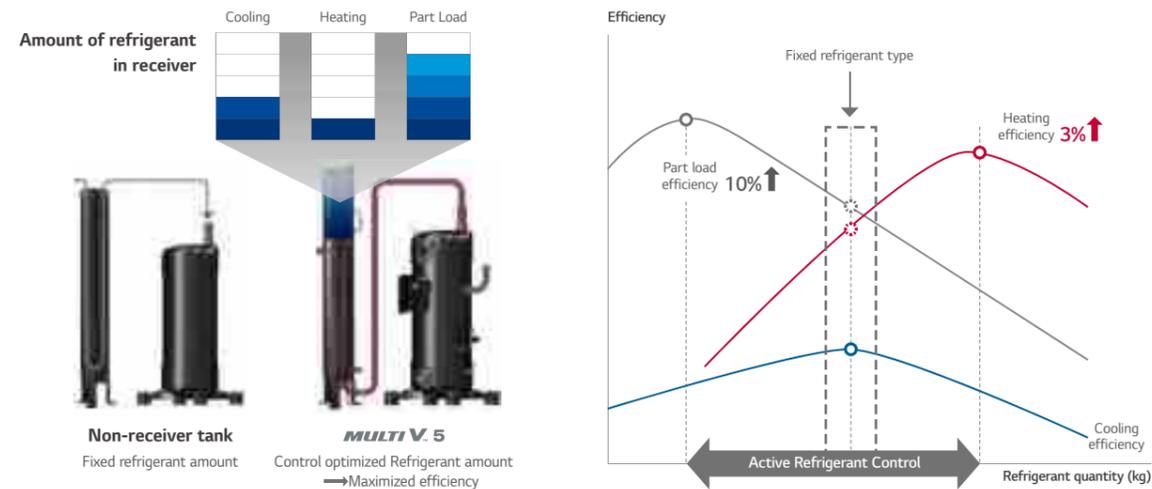
# Active Refrigerant Control

Stable operation & sustaining most efficient operation

MULTI V 5 active refrigerant control algorithm goal is to minimize the amount of refrigerant in circulation. The lower the volume in circulation, the lower the cost to move it around the system and the higher the stability of the refrigeration cycle.

## What are the benefits?

Widens the ambient temperature range at which stable operation occurs. Sustains most efficient system operation regardless of outdoor weather conditions, operating mode, or building load.



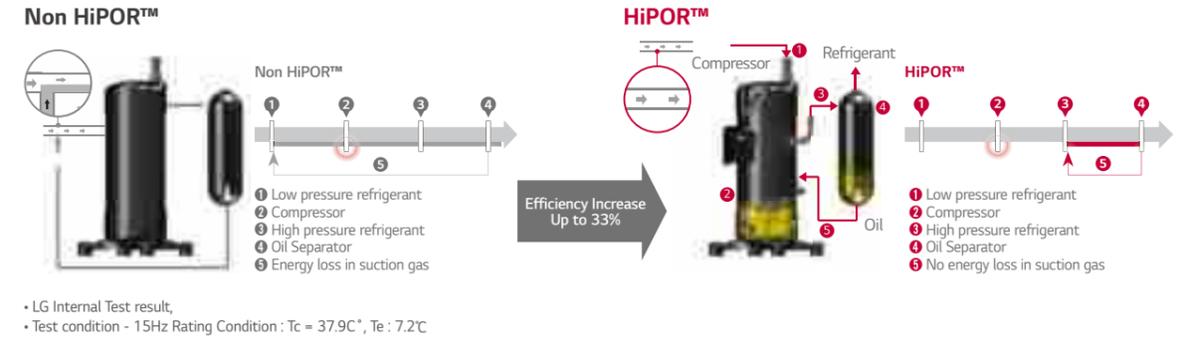
# HiPOR™

Advanced compressor reliability & efficiency

HiPOR™ is an LG trademark that stands for High Pressure Oil Return. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe.

## What are the benefits?

Maximizes reliability and efficiency of the compressor



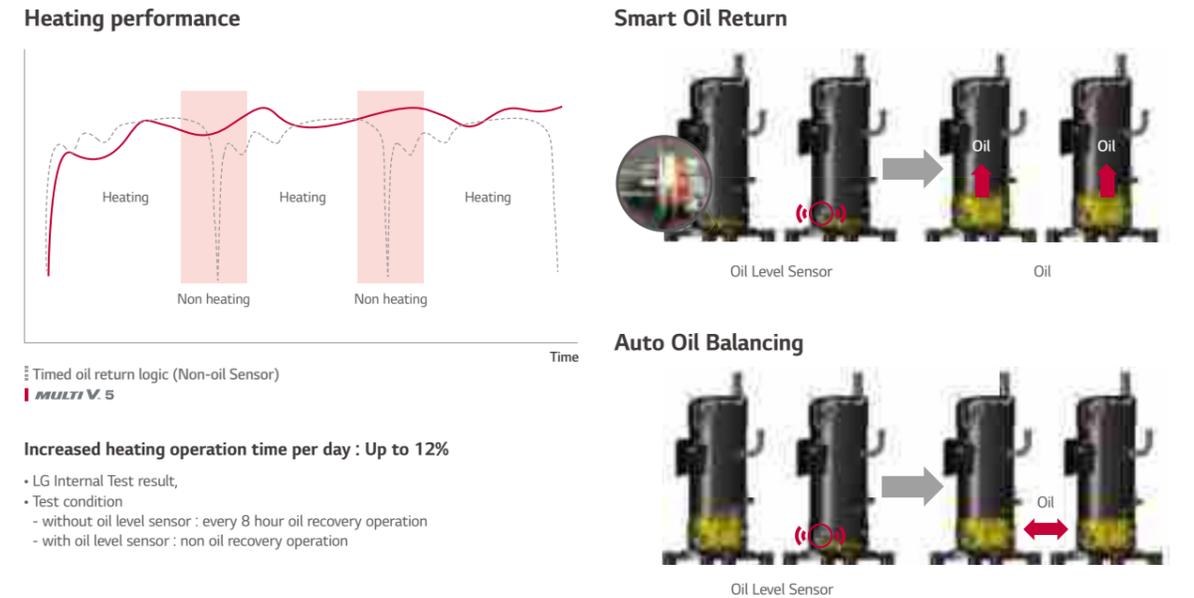
# Smart Oil Management

Energy saving, enhanced heating & increased compressor reliability

MULTI V 5 performs oil return when needed under normal operating conditions. An oil level sensor is provided in every LG VRF compressor. If the sensor indicates the compressor oil level is low, the main system processor is notified that an oil return cycle is necessary. LG's unique oil level measuring sensor actively monitors the oil level in each compressor.

## What are the benefits?

Energy savings : fewer oil return cycles eliminate unnecessary energy consumption. Increases system heating run-time during winter operation. Increases compressor reliability.



## Sub-cooling & Vapor Injection

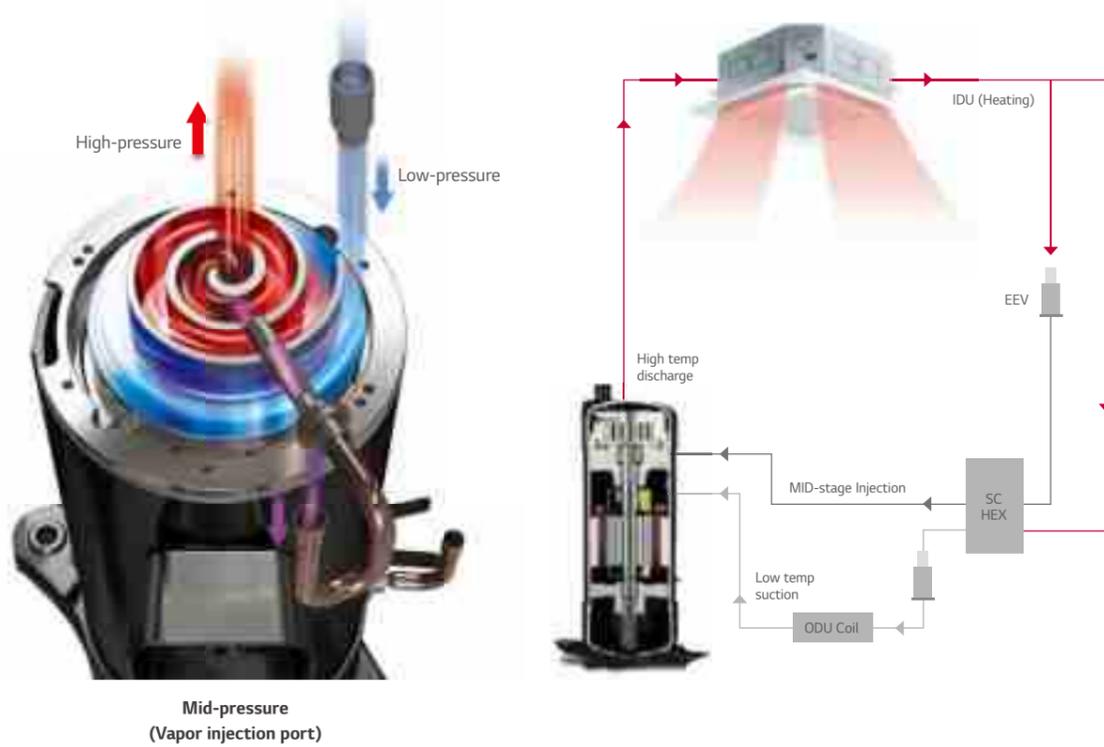
### Increased heating performance

MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. In all cases, the vapor injection increases the compressors cycle efficiency and reduces operating cost.

### What are the benefits?

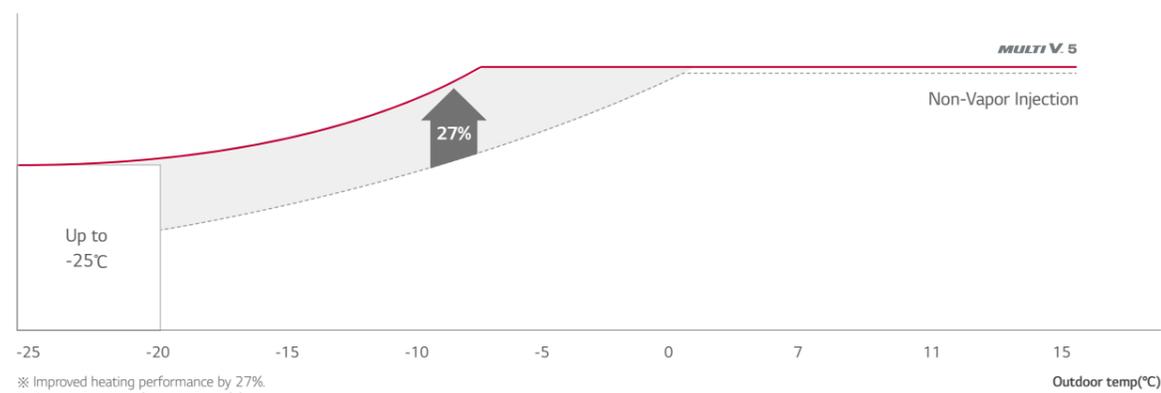
Provides stable refrigeration cycle operation over a wide range of outdoor ambient operating conditions. Increases compressor efficiency when compared to systems without vapor injection technology.

### Technology Mechanism



### Performance Comparison

Heating performance



※ Improved heating performance by 27%.  
 ※ Comparison tested on 10HP model.

## Corrosion Resistance Black Fin

### Improved durability

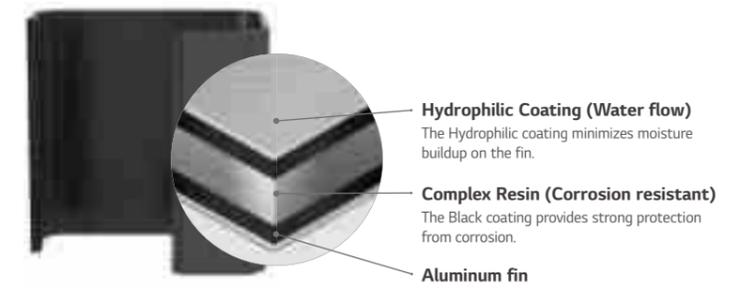
LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TÜV.

### What are the benefits?

This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.



※ Verification of corrosion resistance performance  
 - Test Method B of ISO 21207  
 - ASTM B117 / ISO 9227 (10,000 hours)



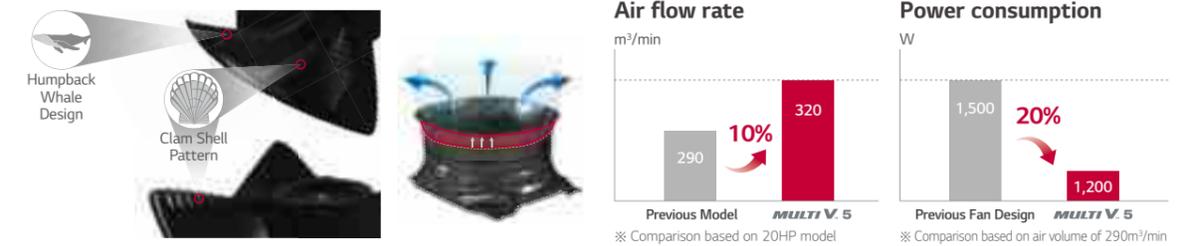
## Biomimetic Fan

### Maximized performance

The biomimetic technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.

### What are the benefits?

Based on the biomimetic technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20% when compared with the fan blade design on MULTI V IV. This eventually results in maximized performance with large capacity.



# One Unified Model

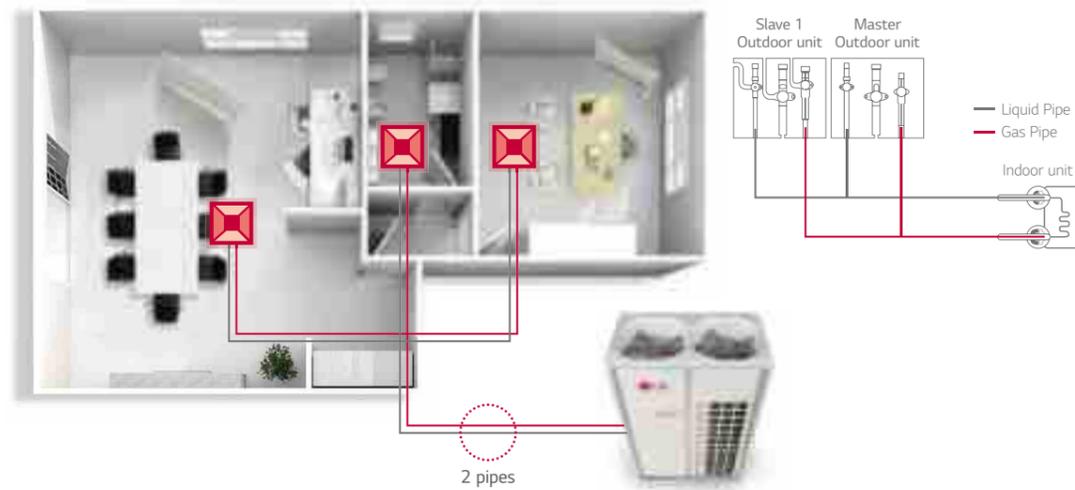
Heat pump / Heat recovery with one platform

LG MULTI V 5 satisfies users' various needs with just one platform.

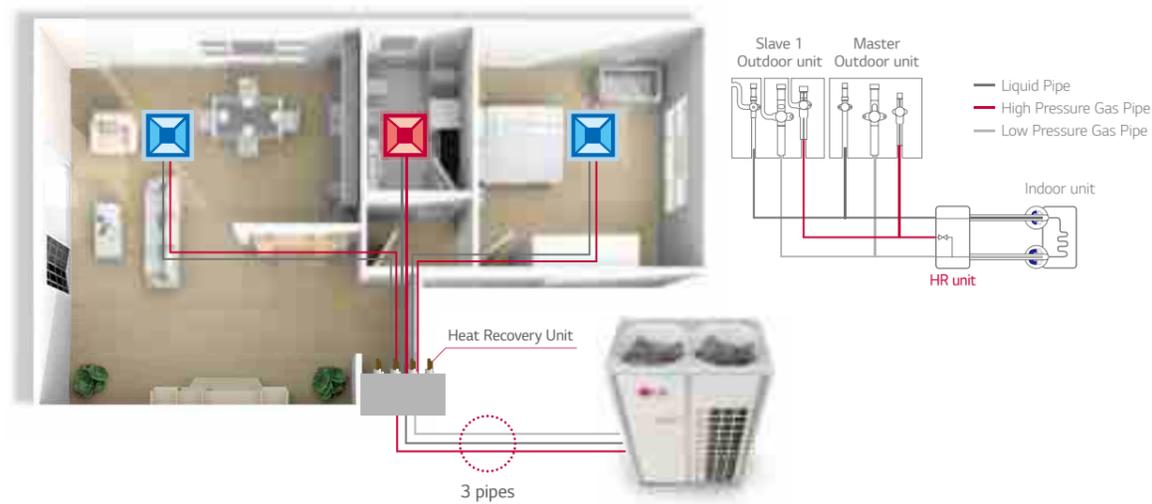
## What are the benefits?

MULTI V 5 allows the building previously installed with Heat Pump system to switch to the Heat Recovery system (by adding HR boxes and a third pipe) for changing purpose of the building or remodeling reasons via simple piping construction.

### Heat Pump System



### Heat Recovery System

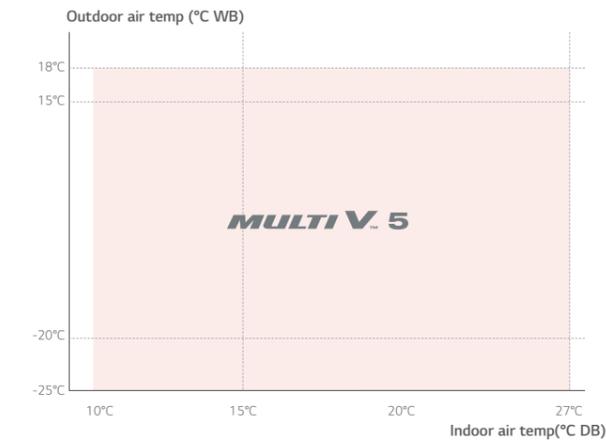


# Wider Operation Range

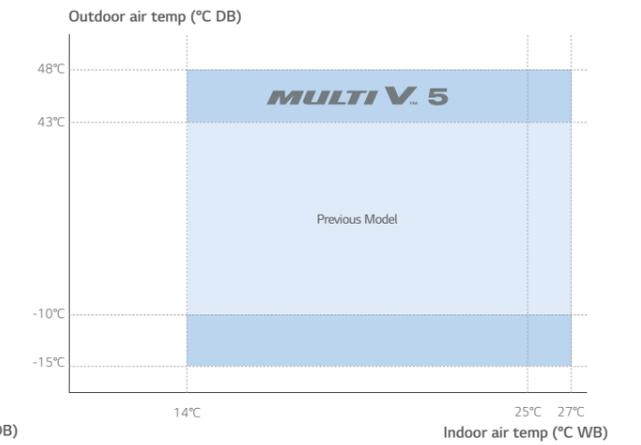
Able to operate at extreme conditions

With improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 offers an extended range of heating and cooling operations. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C.

### Heating



### Cooling

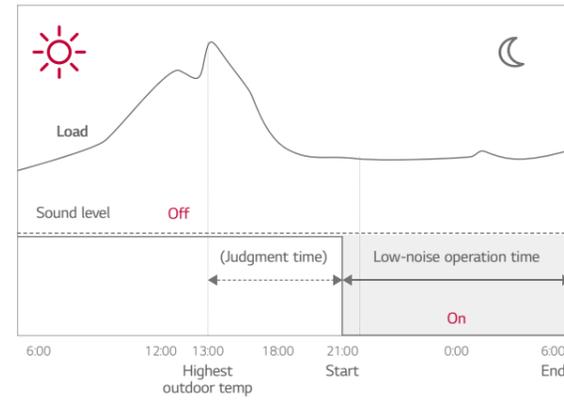


# Low-Noise Operation

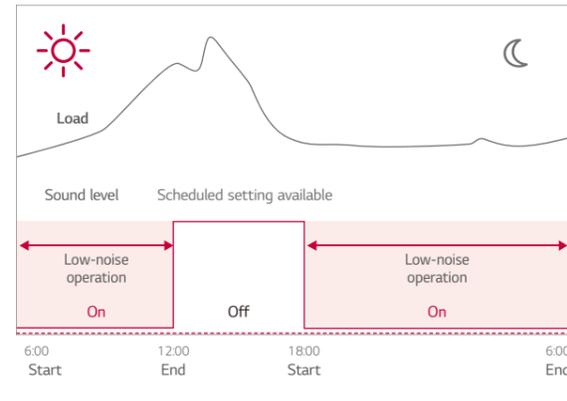
For noise sensitive environment

The Low-Noise Operation of MULTI V 5 can function regardless of the time at the noise sensitive areas.

## Previous Model



## MULTI V 5



# Simple Test Run via LGMV

Increased overall efficiency in installation

With Mobile LGMV of MULTI V 5, fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

## Previous



## MULTI V 5

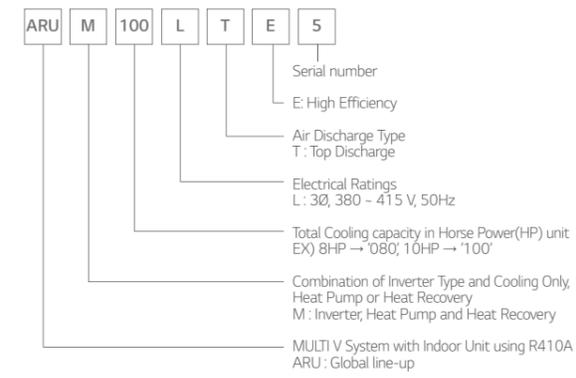


## LGMV

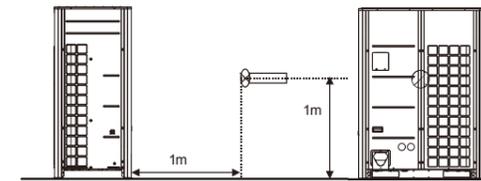


Cycle Monitoring    Diagnosis    Installation    Smart Management

## Nomenclature



## Position of Sound Pressure Level Measuring



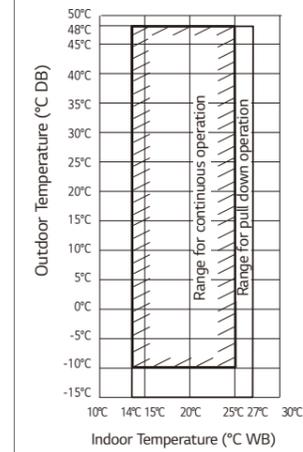
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (Acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure mode or used air guide.

## Outdoor Units Function

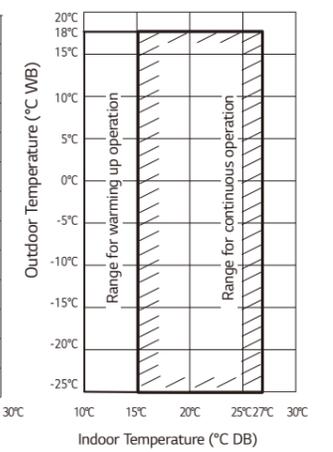
| Category                           | Functions                                                                              | MULTI V 5  |
|------------------------------------|----------------------------------------------------------------------------------------|------------|
| Key Refrigerant Components         | Variable Path of Outdoor Unit HEX                                                      | ○          |
|                                    | HiPOR™ (High Pressure Oil Return)                                                      | ○          |
|                                    | Humidity Sensor                                                                        | ○          |
|                                    | Corrosion Resistance Black Fin                                                         | ○          |
|                                    | Oil Sensor                                                                             | ○          |
| Useful Function                    | Dual Sensing                                                                           | ○          |
|                                    | Low Noise Operation                                                                    | ○          |
|                                    | Hgh Static Mode of Outdoor Unit Fan                                                    | ○          |
|                                    | Partial Defrosting                                                                     | ○          |
|                                    | Auto Dust Removal of Outdoor Unit (Fan reverse rotation)                               | ○          |
|                                    | Indoor Cooling Comfort Mode Based Outdoor Temperature                                  | ○          |
|                                    | Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | ○          |
|                                    | Outdoor Unit Control Refer to Humidity                                                 | ○          |
|                                    | Defrost / Deicing                                                                      | ○          |
|                                    | High Pressure Switch                                                                   | ○          |
| Reliability                        | Phase Protection                                                                       | ○          |
|                                    | Restart Delay (3-minutes)                                                              | ○          |
|                                    | Self Diagnosis                                                                         | ○          |
|                                    | Soft Start                                                                             | ○          |
| Central Controller                 | Test Run Function                                                                      | ○          |
|                                    | AC Ez (Simple Controller)                                                              | PQCSZ250S0 |
|                                    | AC Ez Touch                                                                            | PACEZA000  |
|                                    | AC Smart IV                                                                            | PACS4B000  |
|                                    | AC Smart 5                                                                             | PACSSA000  |
|                                    | ACP (Advanced Control Platform) IV                                                     | PACP4B000  |
|                                    | ACP (Advanced Control Platform) 5                                                      | PACP5A000  |
| AC Manager 5                       | PACMSA000                                                                              |            |
| BNU (Building Network Unit)        | ACP Lonworks                                                                           | PLNWKB000  |
|                                    | ACP BACnet                                                                             | PQNFB17C0  |
| Installation                       | Refrigerant Charging Kit                                                               | PRAC1      |
| PDI (Power Distribution Indicator) | Standard                                                                               | PPWRDB000  |
|                                    | Premium                                                                                | PQNUD1S40  |
| Cool / Heat Selector               |                                                                                        | PRDSBM     |
| Low Ambient Kit                    |                                                                                        | PRVC2      |
| IO Module (ODU Dry Contact)        |                                                                                        | PVDSMN000  |
| Cycle Monitoring Device            | LGMV                                                                                   | PRCTILO    |
|                                    | Mobile LGMV                                                                            | PLGMVV100  |

## Cooling / Heating Operation

### Cooling



### Heating

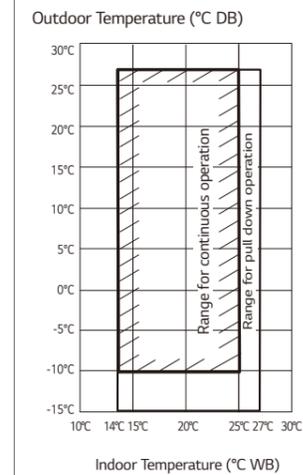


Note

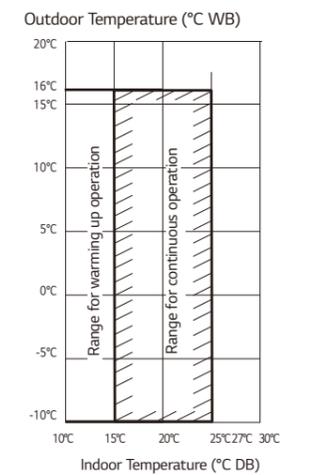
- These figures assume the following operating conditions :  
Equivalent piping length : 7.5m  
Level difference : 0m
- Range of pull down operation :  
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
- Warming up operation means that the outdoor unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

## Simultaneous Cooling / Heating Operation

### Cooling



### Heating



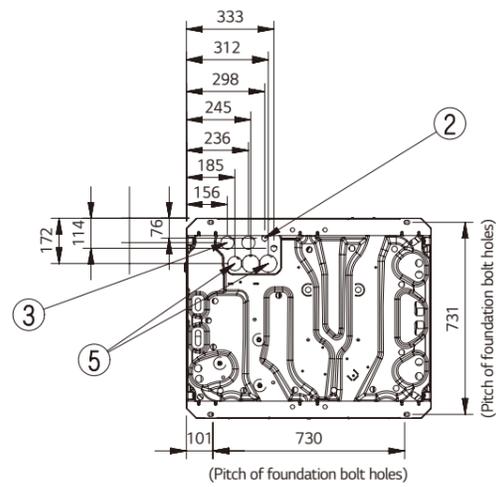
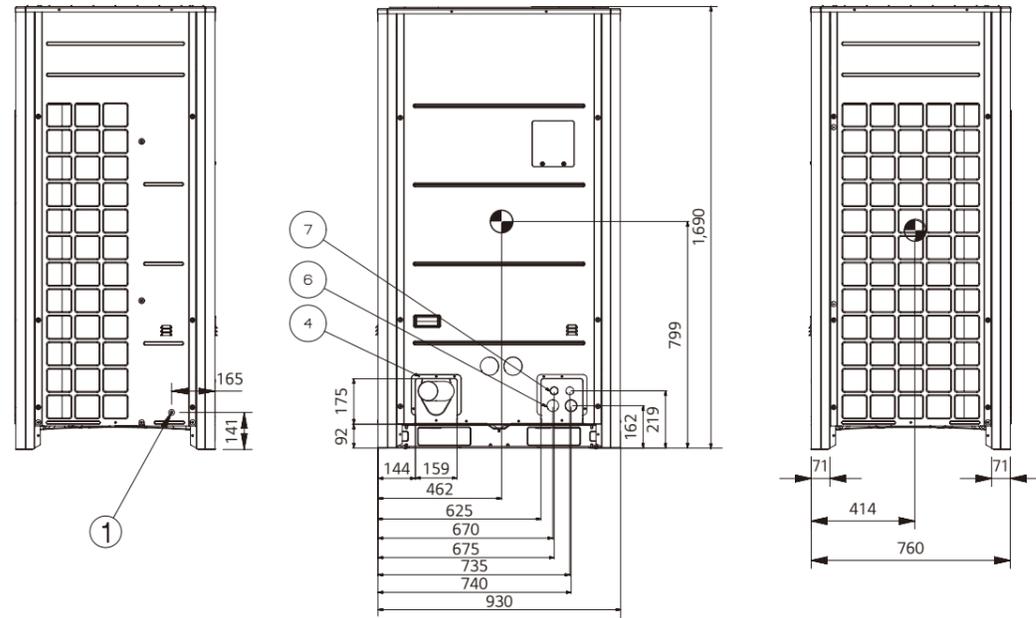
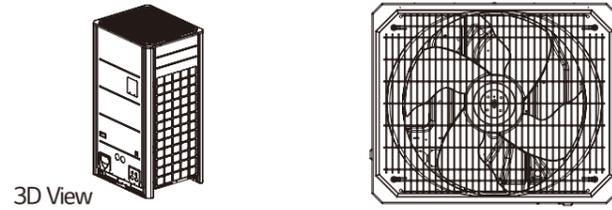
Note

- These figures assume the following operating conditions :  
Equivalent piping length : 7.5m  
Level difference : 0m
- Range of pull down operation :  
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.

ARUM08OLTE5 / ARUM100LTE5 / ARUM120LTE5

[Unit : mm]

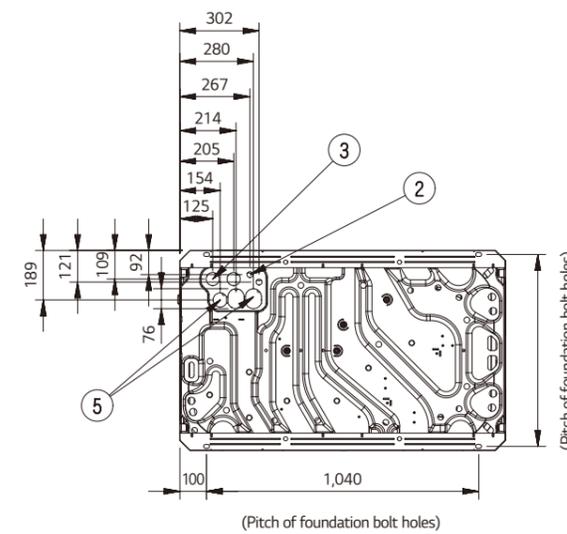
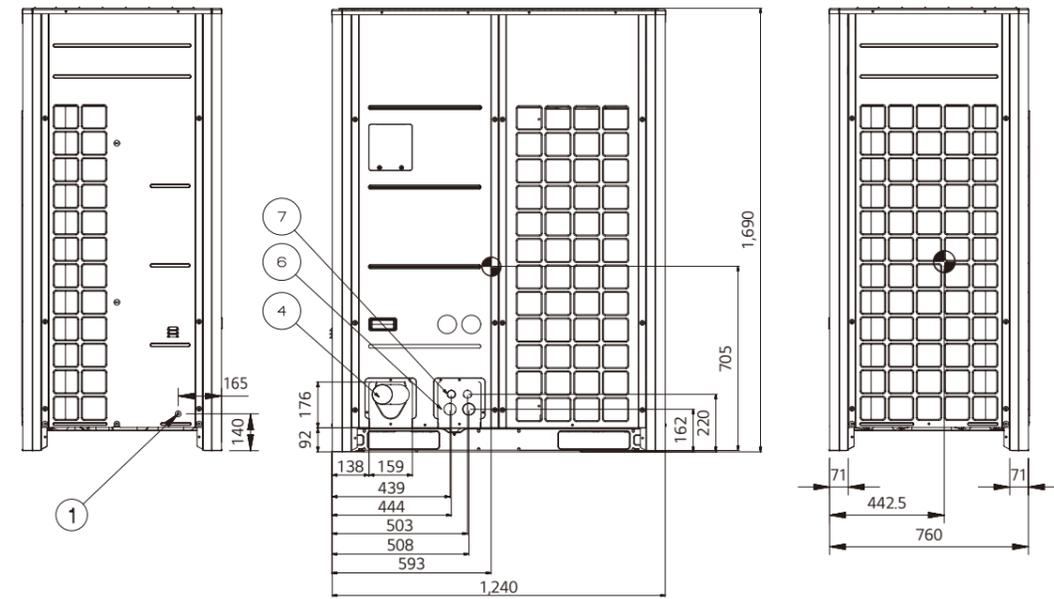
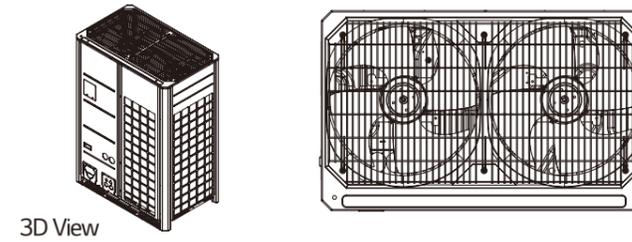
| No. | Part Name                        | Description   |
|-----|----------------------------------|---------------|
| 1   | Leakage test hole (Side)         | Ø22.2         |
| 2   | Wire routing hole (Bottom)       | 2-Ø22.2       |
| 3   | Power cord routing hole (Bottom) | 2-Ø50         |
| 4   | Pipe routing hole (Front)        | -             |
| 5   | Pipe routing hole (Bottom)       | 2-Ø66, Ø53.88 |
| 6   | Power cord routing hole (Front)  | 2-Ø45         |
| 7   | Wire routing hole (Front)        | 2-Ø30         |



ARUM140LTE5 / ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5 /

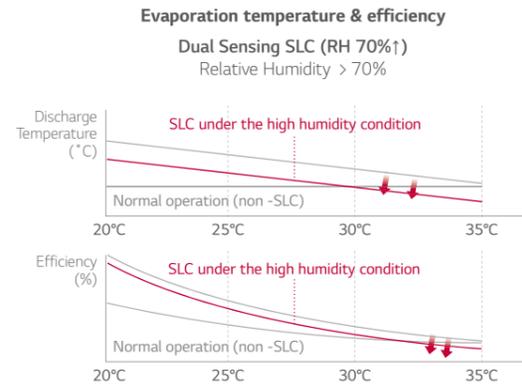
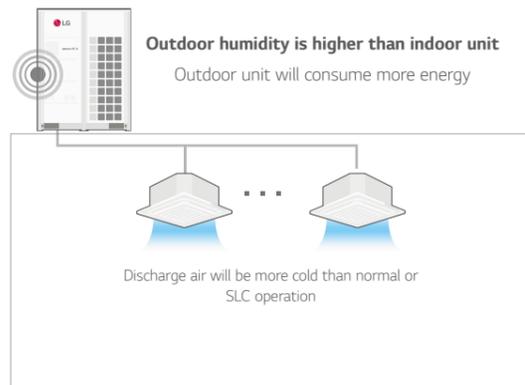
[Unit : mm]

| No. | Part Name                        | Description   |
|-----|----------------------------------|---------------|
| 1   | Leakage test hole (Side)         | Ø22.2         |
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| 3   | Power cord routing hole (Bottom) | 2-Ø50         |
| 4   | Pipe routing hole (Front)        | -             |
| 5   | Pipe routing hole (Bottom)       | 2-Ø66, Ø53.88 |
| 6   | Power cord routing hole (Front)  | 2-Ø45         |
| 7   | Wire routing hole (Front)        | 2-Ø30         |

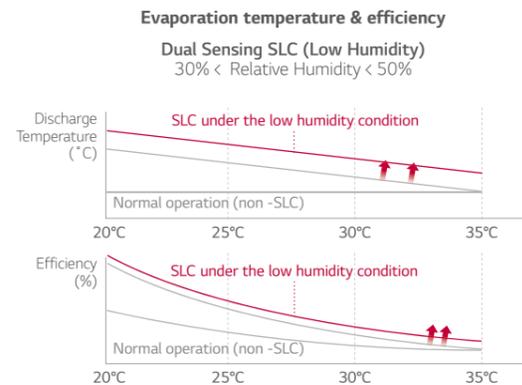
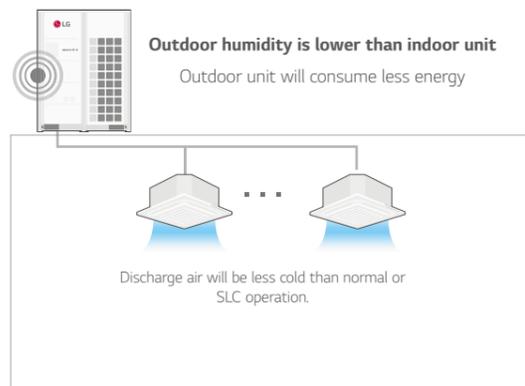


**Q1 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?**

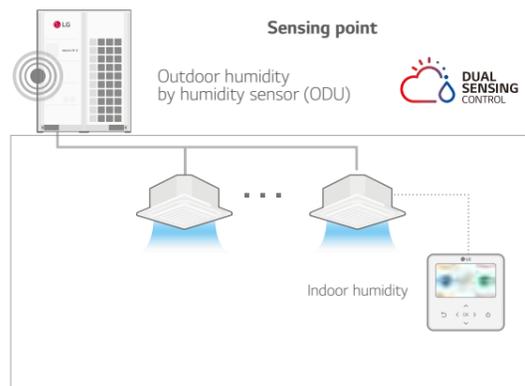
**A1** During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode.  
 - When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but would have higher efficiency as compared to normal operation.



- When the humidity of outdoor side is lower than that of indoor side, outdoor unit will rise target pressure to save energy and keep comfort, but indoor humidity will be less removed compared to normal operation.



To maximize comfort and energy efficiency, the outdoor unit's humidity sensing can be turned off or a standard remote control can be installed to sense indoor humidity.



**SLC Setting**

**CASE 1.** Dual Sensing SLC with Outdoor humidity sensor in ODU Setting

**Setting summary**  
 DIP-SW01 #5 On  
 Func > Fn14 > Off, op1 - op3

**CASE 2.** Dual Sensing SLC with Indoor humidity sensor in New Standard R/C setting (PREMTB100)

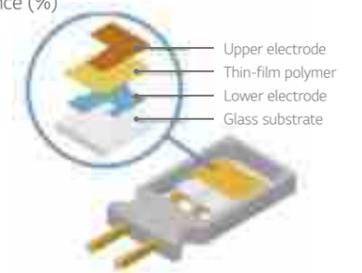
**Setting summary**  
 Function > Smart Load Control > Off, op1 - op3

※ User can turn off humidity control in ODU Setting (humidity reference)  
 <Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

**Q2 What is the principle and accuracy of humidity sensor?**

**A2** Total Tolerance (%) = Sensor measurement tolerance (%) + Location of sensor tolerance (%)

The capacitive measurement principle established and proved itself as a standard in the past. For this principle, the sensor element is built out of a capacitor. The dielectric is a polymer which absorbs or releases water proportional to the relative environmental humidity, and thus changes the capacitance of the capacitor. This change in capacitance can be measured by an electronic circuit. For humidity sensors with CMOSens® technology, a "micro-machined" finger electrode system with different protective and polymer cover layers forms the capacitance for the sensor chip, and, in addition to providing the sensor property, simultaneously protects the sensor from interference in ways previously not achieved.



| Model                | Humidity Sensor of Outdoor    | Humidity Sensor of R/Controller |
|----------------------|-------------------------------|---------------------------------|
| Size (mm)            | 3 x 3 x 1.1                   | 2.5 x 2.5 x 0.9                 |
| Supply voltage range | 2.1 to 3.6 V                  | 2.4 to 5.5 V                    |
| RH operating range   | 0 - 100% RH                   | 0 - 100% RH                     |
| T operating range    | -40 to +125°C (-40 to +257°F) | -40 to +125°C (-40 to +257°F)   |
| RH response time     | 8 sec (tau 63%)               | 8 sec (tau 63%)                 |

**Q3 What is difference in refrigerant piping connection between heat pump and heat recovery?**

**A3** From MULTI V 5, Low pressure gas pipe in heat pump operation changes to high pressure gas pipe in heat recovery operation due to internal cycle. So for heat pump cycle, no. 1, 3 pipe should be connected and for heat recovery operation, No. 1, 2, 3 pipe is connected. (For the heat pump operation, DO NOT connect No.2 pipe)

|                                       | 8HP   | 10HP   | 20HP  |
|---------------------------------------|-------|--------|-------|
| Heat Recovery Installation            | 9.52  | 19.05  | 15.88 |
| Heat Pump Installation                | 9.52  | No Use | 19.05 |
| Heat Pump Installation (with Reducer) | 15.88 | No Use | 28.58 |

Reducer for Gas Pipe

|               |
|---------------|
| 15.88 → 19.05 |
| 19.05 → 22.2  |
| 22.2 → 28.58  |

※ For using as Heat Pump, Reducer for Gas pipe should be used. Reducer is included in outdoor unit.



ARUM080LTE5 / ARUM100LTE5  
ARUM120LTE5 / ARUM140LTE5



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| HP                                                       |                                 | 8                          | 10                         | 12                         | 14                         |                |
|----------------------------------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------|
| Model Name                                               | Combination Unit                | ARUM080LTE5                | ARUM100LTE5                | ARUM120LTE5                | ARUM140LTE5                |                |
|                                                          | Independent Unit                | ARUM080LTE5                | ARUM100LTE5                | ARUM120LTE5                | ARUM140LTE5                |                |
| Capacity                                                 | Cooling (Rated)                 | kW                         | 22.4                       | 28.0                       | 33.6                       | 39.2           |
|                                                          | Heating (Rated)                 | kW                         | 22.4                       | 28.0                       | 33.6                       | 39.2           |
|                                                          | Heating (Max)                   | kW                         | 25.2                       | 31.5                       | 37.8                       | 44.1           |
| Input                                                    | Cooling (Rated)                 | kW                         | 7.02                       | 9.30                       | 12.00                      | 12.98          |
|                                                          | Heating (Rated)                 | kW                         | 5.63                       | 6.45                       | 8.00                       | 8.85           |
| EER                                                      |                                 | 3.19                       | 3.01                       | 2.80                       | 3.02                       |                |
| SEER                                                     |                                 | 7.90                       | 7.80                       | 7.71                       | 8.22                       |                |
| COP                                                      | Rated Capacity                  | 3.98                       | 4.34                       | 4.20                       | 4.43                       |                |
| SCOP                                                     |                                 | 4.36                       | 4.39                       | 4.84                       | 4.97                       |                |
| Exterior                                                 | Color                           | Morning Gray / Dawn Gray   |                |
|                                                          | RAL Code                        | RAL 7030 / RAL 7037        |                |
| Heat Exchanger                                           | Type                            | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus           |                |
| Compressor                                               | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |                |
|                                                          | Combination x No.               | (Inverter) x 1             | (Inverter) x 1             | (Inverter) x 1             | (Inverter) x 1             |                |
|                                                          | Motor Output x Number           | W x No.                    | 4,200 x 1                  | 5,300 x 1                  | 5,300 x 1                  | 5,300 x 1      |
|                                                          | Oil Type                        | FW68D                      | FW68D                      | FW68D                      | FW68D                      |                |
|                                                          | Oil Charge                      | cc                         | 3,900                      | 3,900                      | 3,900                      | 3,900          |
| Fan                                                      | Type                            | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |                |
|                                                          | Motor Output x Number           | W x No.                    | 1,200 x 1                  | 1,200 x 1                  | 1,200 x 1                  | 900 x 2        |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.    | 240 x 1                    | 240 x 1                    | 240 x 1                    | 320 x 1        |
|                                                          | Drive                           | DC INVERTER                | DC INVERTER                | DC INVERTER                | DC INVERTER                |                |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                  | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø12.7 (1/2)                | Ø12.7 (1/2)    |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                  | Ø19.05 (3/4)               | Ø22.2 (7/8)                | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8) |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                  | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø12.7 (1/2)                | Ø12.7 (1/2)    |
|                                                          | Gas Pipe                        | mm (inch)                  | Ø19.05 (3/4)               | Ø22.2 (7/8)                | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8) |
| Dimensions (W x H x D)                                   | mm x No.                        | (930 x 1,690 x 760) x 1    | (930 x 1,690 x 760) x 1    | (930 x 1,690 x 760) x 1    | (1,240 x 1,690 x 760) x 1  |                |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | (960 x 1,825 x 796) x 1    | (960 x 1,825 x 796) x 1    | (960 x 1,825 x 796) x 1    | (1,280 x 1,825 x 796) x 1  |                |
| Net Weight                                               | kg x No.                        | 198 x 1                    | 215 x 1                    | 215 x 1                    | 237 x 1                    |                |
| Shipping Weight                                          | kg x No.                        | 208 x 1                    | 225 x 1                    | 225 x 1                    | 250 x 1                    |                |
| Sound Pressure Level                                     | Cooling                         | dB(A)                      | 58.0                       | 58.0                       | 59.0                       | 60.0           |
|                                                          | Heating                         | dB(A)                      | 59.0                       | 59.0                       | 60.0                       | 61.0           |
| Sound Power Level                                        | Cooling                         | dB(A)                      | 79.0                       | 80.0                       | 81.0                       | 82.0           |
|                                                          | Heating                         | dB(A)                      | 79.0                       | 80.0                       | 83.0                       | 82.0           |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5             |                |
| Refrigerant                                              | Refrigerant Name                | R410A                      | R410A                      | R410A                      | R410A                      |                |
|                                                          | Precharged Amount in Factory    | kg                         | 7.5                        | 9.5                        | 9.5                        | 13.5           |
|                                                          | t-CO <sub>2</sub> eq            |                            | 15.656                     | 19.831                     | 19.831                     | 28.181         |
|                                                          | Control                         | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |                |
| Power Supply                                             | Ø, V, Hz                        | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60      |                |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 | 13 (20)                    | 16 (25)                    | 20 (30)                    | 23 (35)                    |                |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM160LTE5 / ARUM180LTE5  
ARUM200LTE5 / ARUM221LTE5



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| HP                                                       |                                 | 16                         | 18                         | 20                         | 22                                                    |                           |
|----------------------------------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------|---------------------------|
| Model Name                                               | Combination Unit                | ARUM160LTE5                | ARUM180LTE5                | ARUM200LTE5                | ARUM221LTE5                                           |                           |
|                                                          | Independent Unit                | ARUM160LTE5                | ARUM180LTE5                | ARUM200LTE5                | ARUM120LTE5 ARUM100LTE5                               |                           |
| Capacity                                                 | Cooling (Rated)                 | kW                         | 44.8                       | 50.4                       | 56.0                                                  | 61.6                      |
|                                                          | Heating (Rated)                 | kW                         | 44.8                       | 50.4                       | 56.0                                                  | 61.6                      |
|                                                          | Heating (Max)                   | kW                         | 50.4                       | 56.7                       | 63.0                                                  | 69.3                      |
| Input                                                    | Cooling (Rated)                 | kW                         | 17.23                      | 14.82                      | 18.06                                                 | 21.30                     |
|                                                          | Heating (Rated)                 | kW                         | 10.59                      | 10.91                      | 13.02                                                 | 14.45                     |
| EER                                                      |                                 | 2.60                       | 3.40                       | 3.10                       | 2.89                                                  |                           |
| SEER                                                     |                                 | 7.74                       | 8.50                       | 8.17                       | 7.76                                                  |                           |
| COP                                                      | Rated Capacity                  | 4.23                       | 4.62                       | 4.30                       | 4.26                                                  |                           |
| SCOP                                                     |                                 | 5.30                       | 4.67                       | 4.98                       | 4.61                                                  |                           |
| Exterior                                                 | Color                           | Morning Gray / Dawn Gray                              |                           |
|                                                          | RAL Code                        | RAL 7030 / RAL 7037                                   |                           |
| Heat Exchanger                                           | Type                            | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus                                      |                           |
| Compressor                                               | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll                            |                           |
|                                                          | Combination x No.               | (Inverter) x 1             | (Inverter) x 2             | (Inverter) x 2             | (Inverter) x 2                                        |                           |
|                                                          | Motor Output x Number           | W x No.                    | 5,300 x 1                  | (5,300 x 1) + (4,200 x 1)  | (5,300 x 1) + (4,200 x 1)                             | 5,300 x 2                 |
|                                                          | Oil Type                        | FW68D                      | FW68D                      | FW68D                      | FW68D                                                 |                           |
|                                                          | Oil Charge                      | cc                         | 3,900                      | 5,200                      | 5,200                                                 | 7,800                     |
| Fan                                                      | Type                            | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan                                         |                           |
|                                                          | Motor Output x Number           | W x No.                    | 900 x 2                    | 900 x 2                    | 900 x 2                                               | (1,200 x 1) + (1,200 x 1) |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.    | 320 x 1                    | 320 x 1                    | 320 x 1                                               | (240 x 1) + (240 x 1)     |
|                                                          | Drive                           | DC INVERTER                | DC INVERTER                | DC INVERTER                | DC INVERTER                                           |                           |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                  | Ø12.7 (1/2)                | Ø15.88 (5/8)               | Ø15.88 (5/8)                                          | Ø15.88 (5/8)              |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                  | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8)                                        | Ø28.58 (1-1/8)            |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                  | Ø12.7 (1/2)                | Ø15.88 (5/8)               | Ø15.88 (5/8)                                          | Ø15.88 (5/8)              |
|                                                          | Gas Pipe                        | mm (inch)                  | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8)             | Ø28.58 (1-1/8)                                        | Ø28.58 (1-1/8)            |
| Dimensions (W x H x D)                                   | mm x No.                        | (1,240 x 1,690 x 760) x 1  | (1,240 x 1,690 x 760) x 1  | (1,240 x 1,690 x 760) x 1  | ((930 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |                           |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | (1,280 x 1,825 x 796) x 1  | (1,280 x 1,825 x 796) x 1  | (1,280 x 1,825 x 796) x 1  | ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |                           |
| Net Weight                                               | kg x No.                        | 237 x 1                    | 300 x 1                    | 300 x 1                    | (215 x 1) + (215 x 1)                                 |                           |
| Shipping Weight                                          | kg x No.                        | 250 x 1                    | 312 x 1                    | 312 x 1                    | (225 x 1) + (225 x 1)                                 |                           |
| Sound Pressure Level                                     | Cooling                         | dB(A)                      | 60.5                       | 61.0                       | 62.0                                                  | 61.5                      |
|                                                          | Heating                         | dB(A)                      | 61.5                       | 62.0                       | 64.5                                                  | 63.0                      |
| Sound Power Level                                        | Cooling                         | dB(A)                      | 86.0                       | 87.0                       | 87.0                                                  | 84.0                      |
|                                                          | Heating                         | dB(A)                      | 86.0                       | 87.0                       | 90.0                                                  | 85.0                      |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5                                        |                           |
| Refrigerant                                              | Refrigerant Name                | R410A                      | R410A                      | R410A                      | R410A                                                 |                           |
|                                                          | Precharged Amount in Factory    | kg                         | 13.5                       | 16.0                       | 16.0                                                  | 19.0                      |
|                                                          | t-CO <sub>2</sub> eq            |                            | 28.181                     | 33.400                     | 33.400                                                | 39.663                    |
|                                                          | Control                         | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve                            |                           |
| Power Supply                                             | Ø, V, Hz                        | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60      | 380-400-415, 3, 50/60                                 |                           |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 | 26 (40)                    | 29 (45)                    | 32 (50)                    | 35 (44)                                               |                           |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

2) Applying to 16, 18, 20HP outdoor units only.

ARUM241LTE5 / ARUM261LTE5  
ARUM280LTE5 / ARUM300LTE5



| HP                                                       |                                 |                                                       | 24                                                      | 26                                                      | 28                                                      | 30                         |
|----------------------------------------------------------|---------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------------|
| Model Name                                               | Combination Unit                |                                                       | ARUM241LTE5                                             | ARUM261LTE5                                             | ARUM280LTE5                                             | ARUM300LTE5                |
|                                                          | Independent Unit                |                                                       | ARUM120LTE5<br>ARUM120LTE5                              | ARUM140LTE5<br>ARUM120LTE5                              | ARUM160LTE5<br>ARUM120LTE5                              | ARUM180LTE5<br>ARUM120LTE5 |
| Capacity                                                 | Cooling (Rated)                 | kW                                                    | 67.2                                                    | 72.8                                                    | 78.4                                                    | 84.0                       |
|                                                          | Heating (Rated)                 | kW                                                    | 67.2                                                    | 72.8                                                    | 78.4                                                    | 84.0                       |
|                                                          | Heating (Max)                   | kW                                                    | 75.6                                                    | 81.9                                                    | 88.2                                                    | 94.5                       |
| Input                                                    | Cooling (Rated)                 | kW                                                    | 24.00                                                   | 24.98                                                   | 24.23                                                   | 26.82                      |
|                                                          | Heating (Rated)                 | kW                                                    | 16.00                                                   | 16.85                                                   | 18.59                                                   | 18.91                      |
| EER                                                      |                                 |                                                       | 2.80                                                    | 2.91                                                    | 2.68                                                    | 3.13                       |
| SEER                                                     |                                 |                                                       | 7.71                                                    | 7.97                                                    | 7.72                                                    | 8.16                       |
| COP                                                      | Rated Capacity                  |                                                       | 4.20                                                    | 4.32                                                    | 4.22                                                    | 4.44                       |
| SCOP                                                     |                                 |                                                       | 4.84                                                    | 4.91                                                    | 5.08                                                    | 4.73                       |
| Exterior                                                 | Color                           |                                                       | Morning Gray / Dawn Gray                                | Morning Gray / Dawn Gray                                | Morning Gray / Dawn Gray                                | Morning Gray / Dawn Gray   |
|                                                          | RAL Code                        |                                                       | RAL 7030 / RAL 7037                                     | RAL 7030 / RAL 7037                                     | RAL 7030 / RAL 7037                                     | RAL 7030 / RAL 7037        |
| Heat Exchanger                                           | Type                            |                                                       | Wide Louver Plus                                        | Wide Louver Plus                                        | Wide Louver Plus                                        | Wide Louver Plus           |
|                                                          | Type                            |                                                       | Hermetically Sealed Scroll                              | Hermetically Sealed Scroll                              | Hermetically Sealed Scroll                              | Hermetically Sealed Scroll |
| Compressor                                               | Combination x No.               |                                                       | (Inverter) x 2                                          | (Inverter) x 2                                          | (Inverter) x 2                                          | (Inverter) x 3             |
|                                                          | Motor Output x Number           | W x No.                                               | 5,300 x 2                                               | 5,300 x 2                                               | 5,300 x 2                                               | (5,300 x 2) + (4,200 x 1)  |
|                                                          | Oil Type                        |                                                       | FW68D                                                   | FW68D                                                   | FW68D                                                   | FW68D                      |
|                                                          | Oil Charge                      | cc                                                    | 7,800                                                   | 7,800                                                   | 7,800                                                   | 9,100                      |
|                                                          | Type                            |                                                       | Propeller fan                                           | Propeller fan                                           | Propeller fan                                           | Propeller fan              |
| Fan                                                      | Motor Output x Number           | W x No.                                               | (1,200 x 1) + (1,200 x 1)                               | (900 x 2) + (1,200 x 1)                                 | (900 x 2) + (1,200 x 1)                                 | (900 x 2) + (1,200 x 1)    |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.                               | (240 x 1) + (240 x 1)                                   | (320 x 1) + (240 x 1)                                   | (320 x 1) + (240 x 1)                                   | (320 x 1) + (240 x 1)      |
|                                                          | Drive                           |                                                       | DC INVERTER                                             | DC INVERTER                                             | DC INVERTER                                             | DC INVERTER                |
|                                                          | Discharge                       | Side / Top                                            | TOP                                                     | TOP                                                     | TOP                                                     | TOP                        |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                             | Ø15.88 (5/8)                                            | Ø19.05 (3/4)                                            | Ø19.05 (3/4)                                            | Ø19.05 (3/4)               |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                             | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)              |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                             | Ø28.58 (1-1/8)                                          | Ø28.58 (1-1/8)                                          | Ø28.58 (1-1/8)                                          | Ø28.58 (1-1/8)             |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                             | Ø15.88 (5/8)                                            | Ø19.05 (3/4)                                            | Ø19.05 (3/4)                                            | Ø19.05 (3/4)               |
|                                                          | Gas Pipe                        | mm (inch)                                             | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)                                           | Ø34.9 (1-3/8)              |
| Dimensions (W x H x D)                                   | mm x No.                        | ((930 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |                            |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |                            |
| Net Weight                                               | kg x No.                        | (215 x 1) + (215 x 1)                                 | (237 x 1) + (215 x 1)                                   | (237 x 1) + (215 x 1)                                   | (300 x 1) + (215 x 1)                                   |                            |
| Shipping Weight                                          | kg x No.                        | (225 x 1) + (225 x 1)                                 | (250 x 1) + (225 x 1)                                   | (250 x 1) + (225 x 1)                                   | (312 x 1) + (225 x 1)                                   |                            |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                 | 62.0                                                    | 63.0                                                    | 63.0                                                    | 63.0                       |
|                                                          | Heating                         | dB(A)                                                 | 63.0                                                    | 64.0                                                    | 64.0                                                    | 64.0                       |
| Sound Power Level                                        | Cooling                         | dB(A)                                                 | 84.0                                                    | 85.0                                                    | 87.0                                                    | 88.0                       |
|                                                          | Heating                         | dB(A)                                                 | 86.0                                                    | 86.0                                                    | 88.0                                                    | 88.0                       |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                       | 2C x 1.0 - 1.5                                          | 2C x 1.0 - 1.5                                          | 2C x 1.0 - 1.5                                          | 2C x 1.0 - 1.5             |
| Refrigerant                                              | Refrigerant Name                |                                                       | R410A                                                   | R410A                                                   | R410A                                                   | R410A                      |
|                                                          | Precharged Amount in Factory    | kg                                                    | 19.0                                                    | 23.0                                                    | 23.0                                                    | 25.5                       |
|                                                          | t-CO <sub>2</sub> eq            |                                                       | 39.663                                                  | 48.013                                                  | 48.013                                                  | 53.231                     |
|                                                          | Control                         |                                                       | Electronic Expansion Valve                              | Electronic Expansion Valve                              | Electronic Expansion Valve                              | Electronic Expansion Valve |
| Power Supply                                             | Ø, V, Hz                        |                                                       | 380-400-415, 3, 50/60                                   | 380-400-415, 3, 50/60                                   | 380-400-415, 3, 50/60                                   | 380-400-415, 3, 50/60      |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                       | 39 (48)                                                 | 42 (52)                                                 | 45 (56)                                                 | 49 (60)                    |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM320LTE5 / ARUM340LTE5  
ARUM360LTE5 / ARUM380LTE5



| HP                                                       |                                 |                                                         | 32                                                        | 34                                                        | 36                                                        | 38                         |
|----------------------------------------------------------|---------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------|
| Model Name                                               | Combination Unit                |                                                         | ARUM320LTE5                                               | ARUM340LTE5                                               | ARUM360LTE5                                               | ARUM380LTE5                |
|                                                          | Independent Unit                |                                                         | ARUM200LTE5<br>ARUM120LTE5                                | ARUM200LTE5<br>ARUM140LTE5                                | ARUM200LTE5<br>ARUM160LTE5                                | ARUM200LTE5<br>ARUM180LTE5 |
| Capacity                                                 | Cooling (Rated)                 | kW                                                      | 89.6                                                      | 95.2                                                      | 100.8                                                     | 106.4                      |
|                                                          | Heating (Rated)                 | kW                                                      | 89.6                                                      | 95.2                                                      | 100.8                                                     | 106.4                      |
|                                                          | Heating (Max)                   | kW                                                      | 100.8                                                     | 107.1                                                     | 113.4                                                     | 119.7                      |
| Input                                                    | Cooling (Rated)                 | kW                                                      | 30.06                                                     | 31.04                                                     | 35.29                                                     | 32.88                      |
|                                                          | Heating (Rated)                 | kW                                                      | 21.02                                                     | 21.87                                                     | 23.61                                                     | 23.92                      |
| EER                                                      |                                 |                                                         | 2.98                                                      | 3.07                                                      | 2.86                                                      | 3.24                       |
| SEER                                                     |                                 |                                                         | 7.98                                                      | 8.19                                                      | 7.97                                                      | 8.32                       |
| COP                                                      | Rated Capacity                  |                                                         | 4.26                                                      | 4.35                                                      | 4.27                                                      | 4.45                       |
| SCOP                                                     |                                 |                                                         | 4.93                                                      | 4.98                                                      | 5.11                                                      | 4.83                       |
| Exterior                                                 | Color                           |                                                         | Morning Gray / Dawn Gray                                  | Morning Gray / Dawn Gray                                  | Morning Gray / Dawn Gray                                  | Morning Gray / Dawn Gray   |
|                                                          | RAL Code                        |                                                         | RAL 7030 / RAL 7037                                       | RAL 7030 / RAL 7037                                       | RAL 7030 / RAL 7037                                       | RAL 7030 / RAL 7037        |
| Heat Exchanger                                           | Type                            |                                                         | Wide Louver Plus                                          | Wide Louver Plus                                          | Wide Louver Plus                                          | Wide Louver Plus           |
|                                                          | Type                            |                                                         | Hermetically Sealed Scroll                                | Hermetically Sealed Scroll                                | Hermetically Sealed Scroll                                | Hermetically Sealed Scroll |
| Compressor                                               | Combination x No.               |                                                         | (Inverter) x 3                                            | (Inverter) x 3                                            | (Inverter) x 3                                            | (Inverter) x 4             |
|                                                          | Motor Output x Number           | W x No.                                                 | (5,300 x 2) + (4,200 x 1)                                 | (5,300 x 2) + (4,200 x 1)                                 | (5,300 x 2) + (4,200 x 1)                                 | (5,300 x 2) + (4,200 x 2)  |
|                                                          | Oil Type                        |                                                         | FW68D                                                     | FW68D                                                     | FW68D                                                     | FW68D                      |
|                                                          | Oil Charge                      | cc                                                      | 9,100                                                     | 9,100                                                     | 9,100                                                     | 10,400                     |
|                                                          | Type                            |                                                         | Propeller fan                                             | Propeller fan                                             | Propeller fan                                             | Propeller fan              |
| Fan                                                      | Motor Output x Number           | W x No.                                                 | (900 x 2) + (1,200 x 1)                                   | 900 x 4                                                   | 900 x 4                                                   | 900 x 4                    |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.                                 | (320 x 1) + (240 x 1)                                     | 320 x 2                                                   | 320 x 2                                                   | 320 x 2                    |
|                                                          | Drive                           |                                                         | DC INVERTER                                               | DC INVERTER                                               | DC INVERTER                                               | DC INVERTER                |
|                                                          | Discharge                       | Side / Top                                              | TOP                                                       | TOP                                                       | TOP                                                       | TOP                        |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                               | Ø19.05 (3/4)                                              | Ø19.05 (3/4)                                              | Ø19.05 (3/4)                                              | Ø19.05 (3/4)               |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                               | Ø34.9 (1-3/8)                                             | Ø34.9 (1-3/8)                                             | Ø41.3 (1-5/8)                                             | Ø41.3 (1-5/8)              |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                               | Ø28.58 (1-1/8)                                            | Ø28.58 (1-1/8)                                            | Ø28.58 (1-1/8)                                            | Ø34.9 (1-3/8)              |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                               | Ø19.05 (3/4)                                              | Ø19.05 (3/4)                                              | Ø19.05 (3/4)                                              | Ø19.05 (3/4)               |
|                                                          | Gas Pipe                        | mm (inch)                                               | Ø34.9 (1-3/8)                                             | Ø34.9 (1-3/8)                                             | Ø41.3 (1-5/8)                                             | Ø41.3 (1-5/8)              |
| Dimensions (W x H x D)                                   | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) |                            |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) |                            |
| Net Weight                                               | kg x No.                        | (300 x 1) + (215 x 1)                                   | (300 x 1) + (237 x 1)                                     | (300 x 1) + (237 x 1)                                     | (300 x 1) + (300 x 1)                                     |                            |
| Shipping Weight                                          | kg x No.                        | (312 x 1) + (225 x 1)                                   | (312 x 1) + (250 x 1)                                     | (312 x 1) + (250 x 1)                                     | (312 x 1) + (312 x 1)                                     |                            |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                   | 64.0                                                      | 64.0                                                      | 64.0                                                      | 65.0                       |
|                                                          | Heating                         | dB(A)                                                   | 66.0                                                      | 64.0                                                      | 66.0                                                      | 66.0                       |
| Sound Power Level                                        | Cooling                         | dB(A)                                                   | 88.0                                                      | 88.0                                                      | 90.0                                                      | 90.0                       |
|                                                          | Heating                         | dB(A)                                                   | 91.0                                                      | 91.0                                                      | 91.0                                                      | 92.0                       |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                         | 2C x 1.0 - 1.5                                            | 2C x 1.0 - 1.5                                            | 2C x 1.0 - 1.5                                            | 2C x 1.0 - 1.5             |
| Refrigerant                                              | Refrigerant Name                |                                                         | R410A                                                     | R410A                                                     | R410A                                                     | R410A                      |
|                                                          | Precharged Amount in Factory    | kg                                                      | 25.5                                                      | 29.5                                                      | 29.5                                                      | 32.0                       |
|                                                          | t-CO <sub>2</sub> eq            |                                                         | 53.231                                                    | 61.581                                                    | 61.581                                                    | 66.800                     |
|                                                          | Control                         |                                                         | Electronic Expansion Valve                                | Electronic Expansion Valve                                | Electronic Expansion Valve                                | Electronic Expansion Valve |
| Power Supply                                             | Ø, V, Hz                        |                                                         | 380-400-415, 3, 50/60                                     | 380-400-415, 3, 50/60                                     | 380-400-415, 3, 50/60                                     | 380-400-415, 3, 50/60      |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                         | 52 (64)                                                   | 55 (64)                                                   | 58 (64)                                                   | 61 (64)                    |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM400LTE5 / ARUM420LTE5  
ARUM440LTE5



| HP                                                       |                                 |                                                           | 40                                                                                  | 42                                                                                  | 44                                           |
|----------------------------------------------------------|---------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|
| Model Name                                               | Combination Unit                |                                                           | ARUM400LTE5                                                                         | ARUM420LTE5                                                                         | ARUM440LTE5                                  |
|                                                          | Independent Unit                |                                                           | ARUM200LTE5<br>ARUM200LTE5                                                          | ARUM180LTE5<br>ARUM120LTE5<br>ARUM120LTE5                                           | ARUM200LTE5<br>ARUM120LTE5<br>ARUM120LTE5    |
| Capacity                                                 | Cooling (Rated)                 | kW                                                        | 112.0                                                                               | 117.6                                                                               | 123.2                                        |
|                                                          | Heating (Rated)                 | kW                                                        | 112.0                                                                               | 117.6                                                                               | 123.2                                        |
|                                                          | Heating (Max)                   | kW                                                        | 126.0                                                                               | 132.3                                                                               | 138.6                                        |
| Input                                                    | Cooling (Rated)                 | kW                                                        | 36.12                                                                               | 38.82                                                                               | 42.06                                        |
|                                                          | Heating (Rated)                 | kW                                                        | 26.04                                                                               | 26.91                                                                               | 29.02                                        |
| EER                                                      |                                 |                                                           | 3.10                                                                                | 3.03                                                                                | 2.93                                         |
| SEER                                                     |                                 |                                                           | 8.17                                                                                | 8.02                                                                                | 7.90                                         |
| COP                                                      | Rated Capacity                  |                                                           | 4.30                                                                                | 4.37                                                                                | 4.25                                         |
| SCOP                                                     |                                 |                                                           | 4.98                                                                                | 4.76                                                                                | 4.90                                         |
| Exterior                                                 | Color                           |                                                           | Morning Gray / Dawn Gray                                                            | Morning Gray / Dawn Gray                                                            | Morning Gray / Dawn Gray                     |
|                                                          | RAL Code                        |                                                           | RAL 7030 / RAL 7037                                                                 | RAL 7030 / RAL 7037                                                                 | RAL 7030 / RAL 7037                          |
| Heat Exchanger                                           | Type                            |                                                           | Wide Louver Plus                                                                    | Wide Louver Plus                                                                    | Wide Louver Plus                             |
|                                                          | Type                            |                                                           | Hermetically Sealed Scroll<br>(Inverter) x 4                                        | Hermetically Sealed Scroll<br>(Inverter) x 4                                        | Hermetically Sealed Scroll<br>(Inverter) x 4 |
| Compressor                                               | Combination x No.               |                                                           | (5,300 x 2) + (4,200 x 2)                                                           | (5,300 x 3) + (4,200 x 1)                                                           | (5,300 x 3) + (4,200 x 1)                    |
|                                                          | Motor Output x Number           | W x No.                                                   |                                                                                     |                                                                                     |                                              |
|                                                          | Oil Type                        |                                                           | FW68D                                                                               | FW68D                                                                               | FW68D                                        |
|                                                          | Oil Charge                      | cc                                                        | 10,400                                                                              | 13,000                                                                              | 13,000                                       |
| Fan                                                      | Type                            |                                                           | Propeller fan                                                                       | Propeller fan                                                                       | Propeller fan                                |
|                                                          | Motor Output x Number           | W x No.                                                   | 900 x 4                                                                             | (900 x 2) + (1,200 x 2)                                                             | (900 x 2) + (1,200 x 2)                      |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /min x No.                                 | 320 x 2                                                                             | (320 x 1) + (240 x 2)                                                               | (320 x 1) + (240 x 2)                        |
|                                                          | Drive                           |                                                           | DC INVERTER                                                                         | DC INVERTER                                                                         | DC INVERTER                                  |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                                 | Ø19.05 (3/4)                                                                        | Ø19.05 (3/4)                                                                        | Ø19.05 (3/4)                                 |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                                 | Ø41.3 (1-5/8)                                                                       | Ø41.3 (1-5/8)                                                                       | Ø41.3 (1-5/8)                                |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                                 | Ø34.9 (1-3/8)                                                                       | Ø34.9 (1-3/8)                                                                       | Ø34.9 (1-3/8)                                |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                                 | Ø19.05 (3/4)                                                                        | Ø19.05 (3/4)                                                                        | Ø19.05 (3/4)                                 |
|                                                          | Gas Pipe                        | mm (inch)                                                 | Ø41.3 (1-5/8)                                                                       | Ø41.3 (1-5/8)                                                                       | Ø41.3 (1-5/8)                                |
| Dimensions (W x H x D)                                   | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |                                              |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |                                              |
| Net Weight                                               | kg x No.                        | (300 x 1) + (300 x 1)                                     | (300 x 1) + (215 x 1) + (215 x 1)                                                   | (300 x 1) + (215 x 1) + (215 x 1)                                                   |                                              |
| Shipping Weight                                          | kg x No.                        | (312 x 1) + (312 x 1)                                     | (312 x 1) + (225 x 1) + (225 x 1)                                                   | (312 x 1) + (225 x 1) + (225 x 1)                                                   |                                              |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                     | 65.0                                                                                | 65.0                                                                                | 65.0                                         |
|                                                          | Heating                         | dB(A)                                                     | 68.0                                                                                | 66.0                                                                                | 67.0                                         |
| Sound Power Level                                        | Cooling                         | dB(A)                                                     | 90.0                                                                                | 89.0                                                                                | 89.0                                         |
|                                                          | Heating                         | dB(A)                                                     | 93.0                                                                                | 90.0                                                                                | 91.0                                         |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                           | 2C x 1.0 - 1.5                                                                      | 2C x 1.0 - 1.5                                                                      | 2C x 1.0 - 1.5                               |
| Refrigerant                                              | Refrigerant Name                |                                                           | R410A                                                                               | R410A                                                                               | R410A                                        |
|                                                          | Precharged Amount in Factory    | kg                                                        | 32.0                                                                                | 35.0                                                                                | 35.0                                         |
|                                                          | t-CO <sub>2</sub> eq            |                                                           | 66.800                                                                              | 73.063                                                                              | 73.063                                       |
|                                                          | Control                         |                                                           | Electronic Expansion Valve                                                          | Electronic Expansion Valve                                                          | Electronic Expansion Valve                   |
| Power Supply                                             | Ø, V, Hz                        |                                                           | 380-400-415, 3, 50/60                                                               | 380-400-415, 3, 50/60                                                               | 380-400-415, 3, 50/60                        |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                           | 64                                                                                  | 64                                                                                  | 64                                           |

<sup>1)</sup> Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM460LTE5 / ARUM480LTE5  
ARUM500LTE5



| HP                                                       |                                 |                                                                                       | 46                                                                                    | 48                                                                                    | 50                                           |
|----------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|
| Model Name                                               | Combination Unit                |                                                                                       | ARUM460LTE5                                                                           | ARUM480LTE5                                                                           | ARUM500LTE5                                  |
|                                                          | Independent Unit                |                                                                                       | ARUM200LTE5<br>ARUM140LTE5<br>ARUM120LTE5                                             | ARUM200LTE5<br>ARUM160LTE5<br>ARUM120LTE5                                             | ARUM200LTE5<br>ARUM180LTE5<br>ARUM120LTE5    |
| Capacity                                                 | Cooling (Rated)                 | kW                                                                                    | 128.8                                                                                 | 134.4                                                                                 | 140.0                                        |
|                                                          | Heating (Rated)                 | kW                                                                                    | 128.8                                                                                 | 134.4                                                                                 | 140.0                                        |
|                                                          | Heating (Max)                   | kW                                                                                    | 144.9                                                                                 | 151.2                                                                                 | 157.5                                        |
| Input                                                    | Cooling (Rated)                 | kW                                                                                    | 43.04                                                                                 | 47.29                                                                                 | 44.88                                        |
|                                                          | Heating (Rated)                 | kW                                                                                    | 29.87                                                                                 | 31.61                                                                                 | 31.93                                        |
| EER                                                      |                                 |                                                                                       | 2.99                                                                                  | 2.84                                                                                  | 3.12                                         |
| SEER                                                     |                                 |                                                                                       | 7.58                                                                                  | 7.38                                                                                  | 8.16                                         |
| COP                                                      | Rated Capacity                  |                                                                                       | 4.31                                                                                  | 4.25                                                                                  | 4.39                                         |
| SCOP                                                     |                                 |                                                                                       | 4.94                                                                                  | 5.04                                                                                  | 4.83                                         |
| Exterior                                                 | Color                           |                                                                                       | Morning Gray / Dawn Gray                                                              | Morning Gray / Dawn Gray                                                              | Morning Gray / Dawn Gray                     |
|                                                          | RAL Code                        |                                                                                       | RAL 7030 / RAL 7037                                                                   | RAL 7030 / RAL 7037                                                                   | RAL 7030 / RAL 7037                          |
| Heat Exchanger                                           | Type                            |                                                                                       | Wide Louver Plus                                                                      | Wide Louver Plus                                                                      | Wide Louver Plus                             |
|                                                          | Type                            |                                                                                       | Hermetically Sealed Scroll<br>(Inverter) x 4                                          | Hermetically Sealed Scroll<br>(Inverter) x 4                                          | Hermetically Sealed Scroll<br>(Inverter) x 5 |
| Compressor                                               | Combination x No.               |                                                                                       | (5,300 x 3) + (4,200 x 1)                                                             | (5,300 x 3) + (4,200 x 1)                                                             | (5,300 x 3) + (4,200 x 2)                    |
|                                                          | Motor Output x Number           | W x No.                                                                               |                                                                                       |                                                                                       |                                              |
|                                                          | Oil Type                        |                                                                                       | FW68D                                                                                 | FW68D                                                                                 | FW68D                                        |
|                                                          | Oil Charge                      | cc                                                                                    | 13,000                                                                                | 13,000                                                                                | 14,300                                       |
| Fan                                                      | Type                            |                                                                                       | Propeller fan                                                                         | Propeller fan                                                                         | Propeller fan                                |
|                                                          | Motor Output x Number           | W x No.                                                                               | (900 x 4) + (1,200 x 1)                                                               | (900 x 4) + (1,200 x 1)                                                               | (900 x 4) + (1,200 x 1)                      |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /min x No.                                                             | (320 x 2) + (240 x 1)                                                                 | (320 x 2) + (240 x 1)                                                                 | (320 x 2) + (240 x 1)                        |
|                                                          | Drive                           |                                                                                       | DC INVERTER                                                                           | DC INVERTER                                                                           | DC INVERTER                                  |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                                                             | Ø19.05 (3/4)                                                                          | Ø19.05 (3/4)                                                                          | Ø19.05 (3/4)                                 |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                                                             | Ø41.3 (1-5/8)                                                                         | Ø41.3 (1-5/8)                                                                         | Ø41.3 (1-5/8)                                |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                                                             | Ø34.9 (1-3/8)                                                                         | Ø34.9 (1-3/8)                                                                         | Ø34.9 (1-3/8)                                |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                                                             | Ø19.05 (3/4)                                                                          | Ø19.05 (3/4)                                                                          | Ø19.05 (3/4)                                 |
|                                                          | Gas Pipe                        | mm (inch)                                                                             | Ø41.3 (1-5/8)                                                                         | Ø41.3 (1-5/8)                                                                         | Ø41.3 (1-5/8)                                |
| Dimensions (W x H x D)                                   | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |                                              |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |                                              |
| Net Weight                                               | kg x No.                        | (300 x 1) + (237 x 1) + (215 x 1)                                                     | (300 x 1) + (237 x 1) + (215 x 1)                                                     | (300 x 1) + (300 x 1) + (215 x 1)                                                     |                                              |
| Shipping Weight                                          | kg x No.                        | (312 x 1) + (250 x 1) + (225 x 1)                                                     | (312 x 1) + (250 x 1) + (225 x 1)                                                     | (312 x 1) + (312 x 1) + (225 x 1)                                                     |                                              |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                                                 | 65.0                                                                                  | 65.0                                                                                  | 66.0                                         |
|                                                          | Heating                         | dB(A)                                                                                 | 67.0                                                                                  | 67.0                                                                                  | 67.0                                         |
| Sound Power Level                                        | Cooling                         | dB(A)                                                                                 | 89.0                                                                                  | 90.0                                                                                  | 91.0                                         |
|                                                          | Heating                         | dB(A)                                                                                 | 91.0                                                                                  | 92.0                                                                                  | 92.0                                         |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                                                       | 2C x 1.0 - 1.5                                                                        | 2C x 1.0 - 1.5                                                                        | 2C x 1.0 - 1.5                               |
| Refrigerant                                              | Refrigerant Name                |                                                                                       | R410A                                                                                 | R410A                                                                                 | R410A                                        |
|                                                          | Precharged Amount in Factory    | kg                                                                                    | 39.0                                                                                  | 39.0                                                                                  | 41.5                                         |
|                                                          | t-CO <sub>2</sub> eq            |                                                                                       | 81.413                                                                                | 81.413                                                                                | 86.631                                       |
|                                                          | Control                         |                                                                                       | Electronic Expansion Valve                                                            | Electronic Expansion Valve                                                            | Electronic Expansion Valve                   |
| Power Supply                                             | Ø, V, Hz                        |                                                                                       | 380-400-415, 3, 50/60                                                                 | 380-400-415, 3, 50/60                                                                 | 380-400-415, 3, 50/60                        |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                                                       | 64                                                                                    | 64                                                                                    | 64                                           |

<sup>1)</sup> Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM52OLTE5 / ARUM54OLTE5  
ARUM56OLTE5



| HP                                                       |                                 |                                                                                       | 52                                                                                      | 54                                                                                      | 56                                           |
|----------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------|
| Model Name                                               | Combination Unit                |                                                                                       | ARUM52OLTE5                                                                             | ARUM54OLTE5                                                                             | ARUM56OLTE5                                  |
|                                                          | Independent Unit                |                                                                                       | ARUM200LTE5<br>ARUM200LTE5<br>ARUM120LTE5                                               | ARUM200LTE5<br>ARUM200LTE5<br>ARUM140LTE5                                               | ARUM200LTE5<br>ARUM200LTE5<br>ARUM160LTE5    |
| Capacity                                                 | Cooling (Rated)                 | kW                                                                                    | 145.6                                                                                   | 151.2                                                                                   | 156.8                                        |
|                                                          | Heating (Rated)                 | kW                                                                                    | 145.6                                                                                   | 151.2                                                                                   | 156.8                                        |
|                                                          | Heating (Max)                   | kW                                                                                    | 163.8                                                                                   | 170.1                                                                                   | 176.4                                        |
| Input                                                    | Cooling (Rated)                 | kW                                                                                    | 48.12                                                                                   | 49.10                                                                                   | 53.35                                        |
|                                                          | Heating (Rated)                 | kW                                                                                    | 34.04                                                                                   | 34.89                                                                                   | 36.63                                        |
| EER                                                      |                                 |                                                                                       | 3.03                                                                                    | 3.08                                                                                    | 2.94                                         |
| SEER                                                     |                                 |                                                                                       | 8.05                                                                                    | 7.79                                                                                    | 7.67                                         |
| COP                                                      | Rated Capacity                  |                                                                                       | 4.28                                                                                    | 4.33                                                                                    | 4.28                                         |
| SCOP                                                     |                                 |                                                                                       | 4.95                                                                                    | 4.98                                                                                    | 5.06                                         |
| Exterior                                                 | Color                           |                                                                                       | Morning Gray / Dawn Gray                                                                | Morning Gray / Dawn Gray                                                                | Morning Gray / Dawn Gray                     |
|                                                          | RAL Code                        |                                                                                       | RAL 7030 / RAL 7037                                                                     | RAL 7030 / RAL 7037                                                                     | RAL 7030 / RAL 7037                          |
| Heat Exchanger                                           | Type                            |                                                                                       | Wide Louver Plus                                                                        | Wide Louver Plus                                                                        | Wide Louver Plus                             |
|                                                          | Type                            |                                                                                       | Hermetically Sealed Scroll<br>(Inverter) x 5                                            | Hermetically Sealed Scroll<br>(Inverter) x 5                                            | Hermetically Sealed Scroll<br>(Inverter) x 5 |
| Compressor                                               | Combination x No.               |                                                                                       | (5,300 x 3) + (4,200 x 2)                                                               | (5,300 x 3) + (4,200 x 2)                                                               | (5,300 x 3) + (4,200 x 2)                    |
|                                                          | Motor Output x Number           | W x No.                                                                               |                                                                                         |                                                                                         |                                              |
|                                                          | Oil Type                        |                                                                                       | FW68D                                                                                   | FW68D                                                                                   | FW68D                                        |
|                                                          | Oil Charge                      | cc                                                                                    | 14,300                                                                                  | 14,300                                                                                  | 14,300                                       |
| Fan                                                      | Type                            |                                                                                       | Propeller fan                                                                           | Propeller fan                                                                           | Propeller fan                                |
|                                                          | Motor Output x Number           | W x No.                                                                               | (900 x 4) + (1,200 x 1)                                                                 | 900 x 6                                                                                 | 900 x 6                                      |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.                                                               | (320 x 2) + (240 x 1)                                                                   | 320 x 3                                                                                 | 320 x 3                                      |
|                                                          | Drive                           |                                                                                       | DC INVERTER                                                                             | DC INVERTER                                                                             | DC INVERTER                                  |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                                                             | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                 |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                                                             | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                                                             | Ø34.9 (1-3/8)                                                                           | Ø34.9 (1-3/8)                                                                           | Ø34.9 (1-3/8)                                |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                                                             | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                 |
|                                                          | Gas Pipe                        | mm (inch)                                                                             | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                |
| Dimensions (W x H x D)                                   | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) |                                              |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) |                                              |
| Net Weight                                               | kg x No.                        | (300 x 1) + (300 x 1) + (215 x 1)                                                     | (300 x 1) + (300 x 1) + (237 x 1)                                                       | (300 x 1) + (300 x 1) + (237 x 1)                                                       |                                              |
| Shipping Weight                                          | kg x No.                        | (312 x 1) + (312 x 1) + (225 x 1)                                                     | (312 x 1) + (312 x 1) + (250 x 1)                                                       | (312 x 1) + (312 x 1) + (250 x 1)                                                       |                                              |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                                                 | 66.0                                                                                    | 66.0                                                                                    | 66.0                                         |
|                                                          | Heating                         | dB(A)                                                                                 | 68.0                                                                                    | 67.0                                                                                    | 68.0                                         |
| Sound Power Level                                        | Cooling                         | dB(A)                                                                                 | 91.0                                                                                    | 91.0                                                                                    | 91.0                                         |
|                                                          | Heating                         | dB(A)                                                                                 | 93.0                                                                                    | 93.0                                                                                    | 94.0                                         |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                                                       | 2C x 1.0 - 1.5                                                                          | 2C x 1.0 - 1.5                                                                          | 2C x 1.0 - 1.5                               |
| Refrigerant                                              | Refrigerant Name                |                                                                                       | R410A                                                                                   | R410A                                                                                   | R410A                                        |
|                                                          | Precharged Amount in Factory    | kg                                                                                    | 41.5                                                                                    | 45.5                                                                                    | 45.5                                         |
|                                                          | t-CO <sub>2</sub> eq            |                                                                                       | 86.631                                                                                  | 94.981                                                                                  | 94.981                                       |
|                                                          | Control                         |                                                                                       | Electronic Expansion Valve                                                              | Electronic Expansion Valve                                                              | Electronic Expansion Valve                   |
| Power Supply                                             | Ø, V, Hz                        |                                                                                       | 380-400-415, 3, 50/60                                                                   | 380-400-415, 3, 50/60                                                                   | 380-400-415, 3, 50/60                        |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                                                       | 64                                                                                      | 64                                                                                      | 64                                           |

<sup>1)</sup> Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM58OLTE5 / ARUM60OLTE5  
ARUM62OLTE5



| HP                                                       |                                 |                                                                                                                       | 58                                                                                      | 60                                                                                                                  | 62                                                       |
|----------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Model Name                                               | Combination Unit                |                                                                                                                       | ARUM58OLTE5                                                                             | ARUM60OLTE5                                                                                                         | ARUM62OLTE5                                              |
|                                                          | Independent Unit                |                                                                                                                       | ARUM200LTE5<br>ARUM200LTE5<br>ARUM180LTE5                                               | ARUM200LTE5<br>ARUM200LTE5<br>ARUM200LTE5                                                                           | ARUM200LTE5<br>ARUM180LTE5<br>ARUM120LTE5<br>ARUM120LTE5 |
| Capacity                                                 | Cooling (Rated)                 | kW                                                                                                                    | 162.4                                                                                   | 168.0                                                                                                               | 173.6                                                    |
|                                                          | Heating (Rated)                 | kW                                                                                                                    | 162.4                                                                                   | 168.0                                                                                                               | 173.6                                                    |
|                                                          | Heating (Max)                   | kW                                                                                                                    | 182.7                                                                                   | 189.0                                                                                                               | 195.3                                                    |
| Input                                                    | Cooling (Rated)                 | kW                                                                                                                    | 50.94                                                                                   | 54.18                                                                                                               | 56.90                                                    |
|                                                          | Heating (Rated)                 | kW                                                                                                                    | 36.95                                                                                   | 39.06                                                                                                               | 39.93                                                    |
| EER                                                      |                                 |                                                                                                                       | 3.19                                                                                    | 3.10                                                                                                                | 3.05                                                     |
| SEER                                                     |                                 |                                                                                                                       | 8.27                                                                                    | 8.17                                                                                                                | 8.07                                                     |
| COP                                                      | Rated Capacity                  |                                                                                                                       | 4.40                                                                                    | 4.30                                                                                                                | 4.35                                                     |
| SCOP                                                     |                                 |                                                                                                                       | 4.88                                                                                    | 4.98                                                                                                                | 4.83                                                     |
| Exterior                                                 | Color                           |                                                                                                                       | Morning Gray / Dawn Gray                                                                | Morning Gray / Dawn Gray                                                                                            | Morning Gray / Dawn Gray                                 |
|                                                          | RAL Code                        |                                                                                                                       | RAL 7030 / RAL 7037                                                                     | RAL 7030 / RAL 7037                                                                                                 | RAL 7030 / RAL 7037                                      |
| Heat Exchanger                                           | Type                            |                                                                                                                       | Wide Louver Plus                                                                        | Wide Louver Plus                                                                                                    | Wide Louver Plus                                         |
|                                                          | Type                            |                                                                                                                       | Hermetically Sealed Scroll<br>(Inverter) x 6                                            | Hermetically Sealed Scroll<br>(Inverter) x 6                                                                        | Hermetically Sealed Scroll<br>(Inverter) x 6             |
| Compressor                                               | Combination x No.               |                                                                                                                       | (5,300 x 3) + (4,200 x 3)                                                               | (5,300 x 3) + (4,200 x 3)                                                                                           | (5,300 x 4) + (4,200 x 2)                                |
|                                                          | Motor Output x Number           | W x No.                                                                                                               |                                                                                         |                                                                                                                     |                                                          |
|                                                          | Oil Type                        |                                                                                                                       | FW68D                                                                                   | FW68D                                                                                                               | FW68D                                                    |
|                                                          | Oil Charge                      | cc                                                                                                                    | 15,600                                                                                  | 15,600                                                                                                              | 18,200                                                   |
| Fan                                                      | Type                            |                                                                                                                       | Propeller fan                                                                           | Propeller fan                                                                                                       | Propeller fan                                            |
|                                                          | Motor Output x Number           | W x No.                                                                                                               | 900 x 6                                                                                 | 900 x 6                                                                                                             | (900 x 4) + (1,200 x 2)                                  |
|                                                          | Air Flow Rate (High)            | m <sup>3</sup> /minxNo.                                                                                               | 320 x 3                                                                                 | 320 x 3                                                                                                             | (320 x 2) + (240 x 2)                                    |
|                                                          | Drive                           |                                                                                                                       | DC INVERTER                                                                             | DC INVERTER                                                                                                         | DC INVERTER                                              |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                     | mm (inch)                                                                                                             | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                                                                                        | Ø22.2 (7/8)                                              |
|                                                          | Low Pressure Gas Pipe           | mm (inch)                                                                                                             | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                                                                                       | Ø41.3 (1-5/8)                                            |
|                                                          | High Pressure Gas Pipe          | mm (inch)                                                                                                             | Ø34.9 (1-3/8)                                                                           | Ø34.9 (1-3/8)                                                                                                       | Ø34.9 (1-3/8)                                            |
| Pipe Connections for Heat Pump                           | Liquid Pipe                     | mm (inch)                                                                                                             | Ø19.05 (3/4)                                                                            | Ø19.05 (3/4)                                                                                                        | Ø22.2 (7/8)                                              |
|                                                          | Gas Pipe                        | mm (inch)                                                                                                             | Ø41.3 (1-5/8)                                                                           | Ø41.3 (1-5/8)                                                                                                       | Ø41.3 (1-5/8)                                            |
| Dimensions (W x H x D)                                   | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |                                                          |
| Dimensions (W x H x D) - Shipping                        | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |                                                          |
| Net Weight                                               | kg x No.                        | (300 x 1) + (300 x 1) + (300 x 1)                                                                                     | (300 x 1) + (300 x 1) + (300 x 1)                                                       | (300 x 1) + (300 x 1) + (215 x 1) + (215 x 1)                                                                       |                                                          |
| Shipping Weight                                          | kg x No.                        | (312 x 1) + (312 x 1) + (312 x 1)                                                                                     | (312 x 1) + (312 x 1) + (312 x 1)                                                       | (312 x 1) + (312 x 1) + (225 x 1) + (225 x 1)                                                                       |                                                          |
| Sound Pressure Level                                     | Cooling                         | dB(A)                                                                                                                 | 66.0                                                                                    | 67.0                                                                                                                | 66.0                                                     |
|                                                          | Heating                         | dB(A)                                                                                                                 | 69.0                                                                                    | 69.0                                                                                                                | 68.0                                                     |
| Sound Power Level                                        | Cooling                         | dB(A)                                                                                                                 | 92.0                                                                                    | 92.0                                                                                                                | 91.0                                                     |
|                                                          | Heating                         | dB(A)                                                                                                                 | 94.0                                                                                    | 95.0                                                                                                                | 93.0                                                     |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB) |                                                                                                                       | 2C x 1.0 - 1.5                                                                          | 2C x 1.0 - 1.5                                                                                                      | 2C x 1.0 - 1.5                                           |
| Refrigerant                                              | Refrigerant Name                |                                                                                                                       | R410A                                                                                   | R410A                                                                                                               | R410A                                                    |
|                                                          | Precharged Amount in Factory    | kg                                                                                                                    | 48.0                                                                                    | 48.0                                                                                                                | 51.0                                                     |
|                                                          | t-CO <sub>2</sub> eq            |                                                                                                                       | 100.200                                                                                 | 100.200                                                                                                             | 106.463                                                  |
|                                                          | Control                         |                                                                                                                       | Electronic Expansion Valve                                                              | Electronic Expansion Valve                                                                                          | Electronic Expansion Valve                               |
| Power Supply                                             | Ø, V, Hz                        |                                                                                                                       | 380-400-415, 3, 50/60                                                                   | 380-400-415, 3, 50/60                                                                                               | 380-400-415, 3, 50/60                                    |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                 |                                                                                                                       | 64                                                                                      | 64                                                                                                                  | 64                                                       |

<sup>1)</sup> Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM64OLTE5 / ARUM66OLTE5  
ARUM68OLTE5



| HP                                                       |                              |                                 | 64                                                                                                                | 66                                                                                                                  | 68                                                                                                                  |
|----------------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Model Name                                               | Combination Unit             |                                 | ARUM64OLTE5                                                                                                       | ARUM66OLTE5                                                                                                         | ARUM68OLTE5                                                                                                         |
|                                                          | Independent Unit             |                                 | ARUM200LTE5<br>ARUM200LTE5<br>ARUM120LTE5<br>ARUM120LTE5                                                          | ARUM200LTE5<br>ARUM200LTE5<br>ARUM140LTE5<br>ARUM120LTE5                                                            | ARUM200LTE5<br>ARUM200LTE5<br>ARUM160LTE5<br>ARUM120LTE5                                                            |
| Capacity                                                 | Cooling (Rated)              | kW                              | 179.2                                                                                                             | 184.8                                                                                                               | 190.4                                                                                                               |
|                                                          | Heating (Rated)              | kW                              | 179.2                                                                                                             | 184.8                                                                                                               | 190.4                                                                                                               |
|                                                          | Heating (Max)                | kW                              | 201.6                                                                                                             | 207.9                                                                                                               | 214.2                                                                                                               |
| Input                                                    | Cooling (Rated)              | kW                              | 60.12                                                                                                             | 61.10                                                                                                               | 65.35                                                                                                               |
|                                                          | Heating (Rated)              | kW                              | 42.04                                                                                                             | 42.89                                                                                                               | 44.63                                                                                                               |
| EER                                                      |                              |                                 | 2.98                                                                                                              | 3.02                                                                                                                | 2.91                                                                                                                |
| SEER                                                     |                              |                                 | 7.98                                                                                                              | 7.78                                                                                                                | 7.63                                                                                                                |
| COP                                                      | Rated Capacity               |                                 | 4.26                                                                                                              | 4.31                                                                                                                | 4.27                                                                                                                |
| SCOP                                                     |                              |                                 | 4.93                                                                                                              | 4.95                                                                                                                | 5.02                                                                                                                |
| Exterior                                                 | Color                        |                                 | Morning Gray / Dawn Gray                                                                                          | Morning Gray / Dawn Gray                                                                                            | Morning Gray / Dawn Gray                                                                                            |
|                                                          | RAL Code                     |                                 | RAL 7030 / RAL 7037                                                                                               | RAL 7030 / RAL 7037                                                                                                 | RAL 7030 / RAL 7037                                                                                                 |
| Heat Exchanger                                           | Type                         |                                 | Wide Louver Plus                                                                                                  | Wide Louver Plus                                                                                                    | Wide Louver Plus                                                                                                    |
|                                                          | Type                         |                                 | Hermetically Sealed Scroll<br>(Inverter) x 6                                                                      | Hermetically Sealed Scroll<br>(Inverter) x 6                                                                        | Hermetically Sealed Scroll<br>(Inverter) x 6                                                                        |
| Compressor                                               | Combination x No.            |                                 | (5,300 x 4) + (4,200 x 2)                                                                                         | (5,300 x 4) + (4,200 x 2)                                                                                           | (5,300 x 4) + (4,200 x 2)                                                                                           |
|                                                          | Motor Output x Number        | W x No.                         |                                                                                                                   |                                                                                                                     |                                                                                                                     |
|                                                          | Oil Type                     |                                 | FW68D                                                                                                             | FW68D                                                                                                               | FW68D                                                                                                               |
|                                                          | Oil Charge                   | cc                              | 18,200                                                                                                            | 18,200                                                                                                              | 19,500                                                                                                              |
| Fan                                                      | Type                         |                                 | Propeller fan                                                                                                     | Propeller fan                                                                                                       | Propeller fan                                                                                                       |
|                                                          | Motor Output x Number        | W x No.                         | (900 x 4) + (1,200 x 2)                                                                                           | (900 x 6) + (1,200 x 1)                                                                                             | (900 x 6) + (1,200 x 1)                                                                                             |
|                                                          | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | (320 x 2) + (240 x 2)                                                                                             | (320 x 3) + (240 x 1)                                                                                               | (320 x 3) + (240 x 1)                                                                                               |
|                                                          | Drive                        |                                 | DC INVERTER                                                                                                       | DC INVERTER                                                                                                         | DC INVERTER                                                                                                         |
|                                                          | Discharge                    | Side / Top                      | TOP                                                                                                               | TOP                                                                                                                 | TOP                                                                                                                 |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                       | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                         |
|                                                          | Low Pressure Gas Pipe        | mm (inch)                       | Ø41.3 (1-5/8)                                                                                                     | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                      |
|                                                          | High Pressure Gas Pipe       | mm (inch)                       | Ø34.9 (1-3/8)                                                                                                     | Ø41.3 (1-5/8)                                                                                                       | Ø41.3 (1-5/8)                                                                                                       |
| Pipe Connections for Heat Pump                           | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                       | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                         |
|                                                          | Gas Pipe                     | mm (inch)                       | Ø41.3 (1-5/8)                                                                                                     | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                      |
| Dimensions (W x H x D)                                   |                              | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) |
| Dimensions (W x H x D) - Shipping                        |                              | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) |
| Net Weight                                               |                              | kg x No.                        | (300 x 1) + (300 x 1) + (215 x 1) + (215 x 1)                                                                     | (300 x 1) + (300 x 1) + (237 x 1) + (215 x 1)                                                                       | (300 x 1) + (300 x 1) + (237 x 1) + (215 x 1)                                                                       |
| Shipping Weight                                          |                              | kg x No.                        | (312 x 1) + (312 x 1) + (225 x 1) + (225 x 1)                                                                     | (312 x 1) + (312 x 1) + (250 x 1) + (225 x 1)                                                                       | (312 x 1) + (312 x 1) + (250 x 1) + (225 x 1)                                                                       |
| Sound Pressure Level                                     | Cooling                      | dB(A)                           | 67.0                                                                                                              | 67.0                                                                                                                | 67.0                                                                                                                |
|                                                          | Heating                      | dB(A)                           | 69.0                                                                                                              | 69.0                                                                                                                | 69.0                                                                                                                |
| Sound Power Level                                        | Cooling                      | dB(A)                           | 91.0                                                                                                              | 91.0                                                                                                                | 92.0                                                                                                                |
|                                                          | Heating                      | dB(A)                           | 94.0                                                                                                              | 94.0                                                                                                                | 94.0                                                                                                                |
| Communication Cable                                      |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5                                                                                                    | 2C x 1.0 - 1.5                                                                                                      | 2C x 1.0 - 1.5                                                                                                      |
| Refrigerant                                              | Refrigerant Name             |                                 | R410A                                                                                                             | R410A                                                                                                               | R410A                                                                                                               |
|                                                          | Precharged Amount in Factory |                                 | 51.0                                                                                                              | 55.0                                                                                                                | 55.0                                                                                                                |
|                                                          | t-CO <sub>2</sub> eq         |                                 | 106.463                                                                                                           | 114.813                                                                                                             | 114.813                                                                                                             |
|                                                          | Control                      |                                 | Electronic Expansion Valve                                                                                        | Electronic Expansion Valve                                                                                          | Electronic Expansion Valve                                                                                          |
| Power Supply                                             |                              | Ø, V, Hz                        | 380-400-415, 3, 50/60                                                                                             | 380-400-415, 3, 50/60                                                                                               | 380-400-415, 3, 50/60                                                                                               |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                              |                                 | 64                                                                                                                | 64                                                                                                                  | 64                                                                                                                  |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

ARUM70OLTE5 / ARUM72OLTE5  
ARUM74OLTE5



| HP                                                       |                              |                                 | 70                                                                                                                  | 72                                                                                                                  | 74                                                                                                                    |
|----------------------------------------------------------|------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Model Name                                               | Combination Unit             |                                 | ARUM70OLTE5                                                                                                         | ARUM72OLTE5                                                                                                         | ARUM74OLTE5                                                                                                           |
|                                                          | Independent Unit             |                                 | ARUM200LTE5<br>ARUM200LTE5<br>ARUM180LTE5<br>ARUM120LTE5                                                            | ARUM200LTE5<br>ARUM200LTE5<br>ARUM200LTE5<br>ARUM120LTE5                                                            | ARUM200LTE5<br>ARUM200LTE5<br>ARUM200LTE5<br>ARUM140LTE5                                                              |
| Capacity                                                 | Cooling (Rated)              | kW                              | 196.0                                                                                                               | 201.6                                                                                                               | 207.2                                                                                                                 |
|                                                          | Heating (Rated)              | kW                              | 196.0                                                                                                               | 201.6                                                                                                               | 207.2                                                                                                                 |
|                                                          | Heating (Max)                | kW                              | 220.5                                                                                                               | 226.8                                                                                                               | 233.1                                                                                                                 |
| Input                                                    | Cooling (Rated)              | kW                              | 62.94                                                                                                               | 66.18                                                                                                               | 67.16                                                                                                                 |
|                                                          | Heating (Rated)              | kW                              | 44.95                                                                                                               | 47.06                                                                                                               | 47.91                                                                                                                 |
| EER                                                      |                              |                                 | 3.11                                                                                                                | 3.05                                                                                                                | 3.09                                                                                                                  |
| SEER                                                     |                              |                                 | 8.16                                                                                                                | 8.08                                                                                                                | 7.91                                                                                                                  |
| COP                                                      | Rated Capacity               |                                 | 4.36                                                                                                                | 4.28                                                                                                                | 4.32                                                                                                                  |
| SCOP                                                     |                              |                                 | 4.87                                                                                                                | 4.96                                                                                                                | 4.98                                                                                                                  |
| Exterior                                                 | Color                        |                                 | Morning Gray / Dawn Gray                                                                                            | Morning Gray / Dawn Gray                                                                                            | Morning Gray / Dawn Gray                                                                                              |
|                                                          | RAL Code                     |                                 | RAL 7030 / RAL 7037                                                                                                 | RAL 7030 / RAL 7037                                                                                                 | RAL 7030 / RAL 7037                                                                                                   |
| Heat Exchanger                                           | Type                         |                                 | Wide Louver Plus                                                                                                    | Wide Louver Plus                                                                                                    | Wide Louver Plus                                                                                                      |
|                                                          | Type                         |                                 | Hermetically Sealed Scroll<br>(Inverter) x 7                                                                        | Hermetically Sealed Scroll<br>(Inverter) x 7                                                                        | Hermetically Sealed Scroll<br>(Inverter) x 7                                                                          |
| Compressor                                               | Combination x No.            |                                 | (5,300 x 4) + (4,200 x 3)                                                                                           | (5,300 x 4) + (4,200 x 3)                                                                                           | (5,300 x 4) + (4,200 x 3)                                                                                             |
|                                                          | Motor Output x Number        | W x No.                         |                                                                                                                     |                                                                                                                     |                                                                                                                       |
|                                                          | Oil Type                     |                                 | FW68D                                                                                                               | FW68D                                                                                                               | FW68D                                                                                                                 |
|                                                          | Oil Charge                   | cc                              | 19,500                                                                                                              | 19,500                                                                                                              | 19,500                                                                                                                |
| Fan                                                      | Type                         |                                 | Propeller fan                                                                                                       | Propeller fan                                                                                                       | Propeller fan                                                                                                         |
|                                                          | Motor Output x Number        | W x No.                         | (900 x 6) + (1,200 x 1)                                                                                             | (900 x 6) + (1,200 x 1)                                                                                             | (900 x 8)                                                                                                             |
|                                                          | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | (320 x 3) + (240 x 1)                                                                                               | (320 x 3) + (240 x 1)                                                                                               | (320 x 4)                                                                                                             |
|                                                          | Drive                        |                                 | DC INVERTER                                                                                                         | DC INVERTER                                                                                                         | DC INVERTER                                                                                                           |
|                                                          | Discharge                    | Side / Top                      | TOP                                                                                                                 | TOP                                                                                                                 | TOP                                                                                                                   |
| Pipe Connections for Heat Recovery                       | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                           |
|                                                          | Low Pressure Gas Pipe        | mm (inch)                       | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                        |
|                                                          | High Pressure Gas Pipe       | mm (inch)                       | Ø41.3 (1-5/8)                                                                                                       | Ø41.3 (1-5/8)                                                                                                       | Ø41.3 (1-5/8)                                                                                                         |
| Pipe Connections for Heat Pump                           | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                         | Ø22.2 (7/8)                                                                                                           |
|                                                          | Gas Pipe                     | mm (inch)                       | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                      | Ø53.98 (2-1/8)                                                                                                        |
| Dimensions (W x H x D)                                   |                              | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((930 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) |
| Dimensions (W x H x D) - Shipping                        |                              | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1)   | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((960 x 1,825 x 796) x 1)   |
| Net Weight                                               |                              | kg x No.                        | (300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)                                                                       | (300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)                                                                       | (300 x 1) + (300 x 1) + (300 x 1) + (237 x 1)                                                                         |
| Shipping Weight                                          |                              | kg x No.                        | (312 x 1) + (312 x 1) + (312 x 1) + (225 x 1)                                                                       | (312 x 1) + (312 x 1) + (312 x 1) + (225 x 1)                                                                       | (312 x 1) + (312 x 1) + (312 x 1) + (250 x 1)                                                                         |
| Sound Pressure Level                                     | Cooling                      | dB(A)                           | 67.0                                                                                                                | 67.0                                                                                                                | 68.0                                                                                                                  |
|                                                          | Heating                      | dB(A)                           | 69.0                                                                                                                | 70.0                                                                                                                | 69.0                                                                                                                  |
| Sound Power Level                                        | Cooling                      | dB(A)                           | 92.0                                                                                                                | 92.0                                                                                                                | 92.0                                                                                                                  |
|                                                          | Heating                      | dB(A)                           | 94.0                                                                                                                | 95.0                                                                                                                | 95.0                                                                                                                  |
| Communication Cable                                      |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5                                                                                                      | 2C x 1.0 - 1.5                                                                                                      | 2C x 1.0 - 1.5                                                                                                        |
| Refrigerant                                              | Refrigerant Name             |                                 | R410A                                                                                                               | R410A                                                                                                               | R410A                                                                                                                 |
|                                                          | Precharged Amount in Factory |                                 | 57.5                                                                                                                | 57.5                                                                                                                | 61.5                                                                                                                  |
|                                                          | t-CO <sub>2</sub> eq         |                                 | 120.031                                                                                                             | 120.031                                                                                                             | 128.381                                                                                                               |
|                                                          | Control                      |                                 | Electronic Expansion Valve                                                                                          | Electronic Expansion Valve                                                                                          | Electronic Expansion Valve                                                                                            |
| Power Supply                                             |                              | Ø, V, Hz                        | 380-400-415, 3, 50/60                                                                                               | 380-400-415, 3, 50/60                                                                                               | 380-400-415, 3, 50/60                                                                                                 |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                              |                                 | 64                                                                                                                  | 64                                                                                                                  | 64                                                                                                                    |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

**ARUM76OLTE5 / ARUM78OLTE5  
ARUM80OLTE5**



| HP                                                       |                              |                                 | 76                                                                                                                    | 78                                                                                                                    | 80                                                                                                                    |         |
|----------------------------------------------------------|------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------|
| Model Name                                               | Combination Unit             |                                 | ARUM76OLTE5                                                                                                           | ARUM78OLTE5                                                                                                           | ARUM80OLTE5                                                                                                           |         |
|                                                          | Independent Unit             |                                 | ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM16OLTE5                                                              | ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM18OLTE5                                                              | ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM20OLTE5<br>ARUM20OLTE5                                                              |         |
| Capacity                                                 | Cooling (Rated)              | kW                              | 212.8                                                                                                                 | 218.4                                                                                                                 | 224.0                                                                                                                 |         |
|                                                          | Heating (Rated)              | kW                              | 212.8                                                                                                                 | 218.4                                                                                                                 | 224.0                                                                                                                 |         |
|                                                          | Heating (Max)                | kW                              | 239.4                                                                                                                 | 245.7                                                                                                                 | 252.0                                                                                                                 |         |
| Input                                                    | Cooling (Rated)              | kW                              | 71.41                                                                                                                 | 69.00                                                                                                                 | 72.24                                                                                                                 |         |
|                                                          | Heating (Rated)              | kW                              | 49.65                                                                                                                 | 49.97                                                                                                                 | 52.08                                                                                                                 |         |
| EER                                                      |                              |                                 | 2.98                                                                                                                  | 3.17                                                                                                                  | 3.10                                                                                                                  |         |
| SEER                                                     |                              |                                 | 7.77                                                                                                                  | 8.24                                                                                                                  | 8.17                                                                                                                  |         |
| COP                                                      |                              | Rated Capacity                  | 4.29                                                                                                                  | 4.37                                                                                                                  | 4.30                                                                                                                  |         |
| SCOP                                                     |                              |                                 | 5.04                                                                                                                  | 4.91                                                                                                                  | 4.98                                                                                                                  |         |
| Exterior                                                 | Color                        |                                 | Morning Gray / Dawn Gray                                                                                              | Morning Gray / Dawn Gray                                                                                              | Morning Gray / Dawn Gray                                                                                              |         |
|                                                          | RAL Code                     |                                 | RAL 7030 / RAL 7037                                                                                                   | RAL 7030 / RAL 7037                                                                                                   | RAL 7030 / RAL 7037                                                                                                   |         |
| Heat Exchanger                                           | Type                         |                                 | Wide Louver Plus                                                                                                      | Wide Louver Plus                                                                                                      | Wide Louver Plus                                                                                                      |         |
|                                                          | Type                         |                                 | Hermetically Sealed Scroll                                                                                            | Hermetically Sealed Scroll                                                                                            | Hermetically Sealed Scroll                                                                                            |         |
| Compressor                                               | Combination x No.            |                                 | (Inverter) x 7                                                                                                        | (Inverter) x 8                                                                                                        | (Inverter) x 8                                                                                                        |         |
|                                                          | Motor Output x Number        | W x No.                         | (5,300 x 4) + (4,200 x 3)                                                                                             | (5,300 x 4) + (4,200 x 4)                                                                                             | (5,300 x 4) + (4,200 x 4)                                                                                             |         |
|                                                          | Oil Type                     |                                 | FW68D                                                                                                                 | FW68D                                                                                                                 | FW68D                                                                                                                 |         |
|                                                          | Oil Charge                   | cc                              | 19,500                                                                                                                | 20,800                                                                                                                | 20,800                                                                                                                |         |
| Fan                                                      | Type                         |                                 | Propeller fan                                                                                                         | Propeller fan                                                                                                         | Propeller fan                                                                                                         |         |
|                                                          | Motor Output x Number        | W x No.                         | (900 x 8)                                                                                                             | (900 x 8)                                                                                                             | (900 x 8)                                                                                                             |         |
|                                                          | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | (320 x 4)                                                                                                             | (320 x 4)                                                                                                             | (320 x 4)                                                                                                             |         |
|                                                          | Drive                        |                                 | DC INVERTER                                                                                                           | DC INVERTER                                                                                                           | DC INVERTER                                                                                                           |         |
| Pipe Connections for Heat Recovery                       | Discharge                    |                                 | Side / Top                                                                                                            | TOP                                                                                                                   | TOP                                                                                                                   |         |
|                                                          | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                           | Ø22.2 (7/8)                                                                                                           | Ø22.2 (7/8)                                                                                                           |         |
|                                                          | Low Pressure Gas Pipe        | mm (inch)                       | Ø53.98 (2-1/8)                                                                                                        | Ø53.98 (2-1/8)                                                                                                        | Ø53.98 (2-1/8)                                                                                                        |         |
| Pipe Connections for Heat Pump                           | High Pressure Gas Pipe       | mm (inch)                       | Ø41.3 (1-5/8)                                                                                                         | Ø41.3 (1-5/8)                                                                                                         | Ø41.3 (1-5/8)                                                                                                         |         |
|                                                          | Liquid Pipe                  | mm (inch)                       | Ø22.2 (7/8)                                                                                                           | Ø22.2 (7/8)                                                                                                           | Ø22.2 (7/8)                                                                                                           |         |
| Gas Pipe                                                 |                              | mm (inch)                       | Ø53.98 (2-1/8)                                                                                                        | Ø53.98 (2-1/8)                                                                                                        | Ø53.98 (2-1/8)                                                                                                        |         |
| Dimensions (W x H x D)                                   |                              | mm x No.                        | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) | ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) + ((1,240 x 1,690 x 760) x 1) |         |
| Dimensions (W x H x D) - Shipping                        |                              | mm x No.                        | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) | ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) + ((1,280 x 1,825 x 796) x 1) |         |
| Net Weight                                               |                              | kg x No.                        | (300 x 1) + (300 x 1) + (300 x 1) + (237 x 1)                                                                         | (300 x 1) + (300 x 1) + (300 x 1) + (300 x 1)                                                                         | (300 x 1) + (300 x 1) + (300 x 1) + (300 x 1)                                                                         |         |
| Shipping Weight                                          |                              | kg x No.                        | (312 x 1) + (312 x 1) + (312 x 1) + (250 x 1)                                                                         | (312 x 1) + (312 x 1) + (312 x 1) + (312 x 1)                                                                         | (312 x 1) + (312 x 1) + (312 x 1) + (312 x 1)                                                                         |         |
| Sound Pressure Level                                     | Cooling                      | dB(A)                           | 68.0                                                                                                                  | 68.0                                                                                                                  | 68.0                                                                                                                  |         |
|                                                          | Heating                      | dB(A)                           | 70.0                                                                                                                  | 70.0                                                                                                                  | 71.0                                                                                                                  |         |
| Sound Power Level                                        | Cooling                      | dB(A)                           | 93.0                                                                                                                  | 93.0                                                                                                                  | 93.0                                                                                                                  |         |
|                                                          | Heating                      | dB(A)                           | 95.0                                                                                                                  | 95.0                                                                                                                  | 96.0                                                                                                                  |         |
| Communication Cable                                      |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5                                                                                                        | 2C x 1.0 - 1.5                                                                                                        | 2C x 1.0 - 1.5                                                                                                        |         |
| Refrigerant                                              | Refrigerant Name             |                                 | R410A                                                                                                                 | R410A                                                                                                                 | R410A                                                                                                                 |         |
|                                                          | Precharged Amount in Factory |                                 | kg                                                                                                                    | 61.5                                                                                                                  | 64.0                                                                                                                  | 64.0    |
|                                                          | t-CO <sub>2</sub> eq         |                                 |                                                                                                                       | 128.381                                                                                                               | 133.600                                                                                                               | 133.600 |
| Control                                                  |                              |                                 | Electronic Expansion Valve                                                                                            | Electronic Expansion Valve                                                                                            | Electronic Expansion Valve                                                                                            |         |
| Power Supply                                             |                              | Ø, V, Hz                        | 380-400-415, 3, 50/60                                                                                                 | 380-400-415, 3, 50/60                                                                                                 | 380-400-415, 3, 50/60                                                                                                 |         |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                              |                                 | 64                                                                                                                    | 64                                                                                                                    | 64                                                                                                                    |         |

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.

1. Eurovent Test Condition : For more info regarding program consult [www.eurovent-certification.com](http://www.eurovent-certification.com)

2. Capacities are based on the following conditions :

- Cooling : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
- Piping Length : Interconnected Pipe Length = 7.5m
- Elevation Difference (Outdoor ~ Indoor Unit) is 0m.

3. Wiring cable size must comply with the applicable local and national code.

4. Sound pressure level is measured at the rated condition in the anechoic rooms according to ISO 3745 standard. Sound power level is measured at the rated condition in the semi-anechoic rooms according to ISO 9614 standard. Therefore, these values can vary due to different operation conditions .

5. Explanation of Terms

- EER : Energy Efficiency Ratio (Cooling)
- SEER : Seasonal Energy Efficiency Ratio (Refer to Typical Cooling Season)
- COP : Coefficient Of Performance (Heating)
- SCOP : Seasonal Coefficient Of Performance (Refer to Typical Heating Season)

6. Due to our policy of innovation some specifications may be changed without notification.

7. This product contains Fluorinated greenhouse gas. (R410A, GWP (Global warming potential) = 2,087.5)

# MULTI V<sup>TM</sup> S

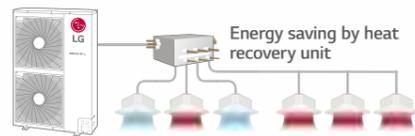
## Highlight

- Air cooled VRF Heat pump & Heat Recovery
- 12.1 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge

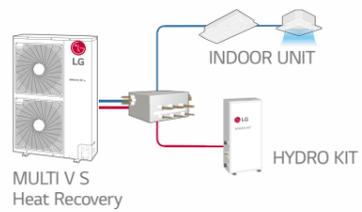
|                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |
| Energy savings                                                                    | Reliability                                                                       | Convenience                                                                       |

## How does it work?

Available in Heat Pump and Heat Recovery Models



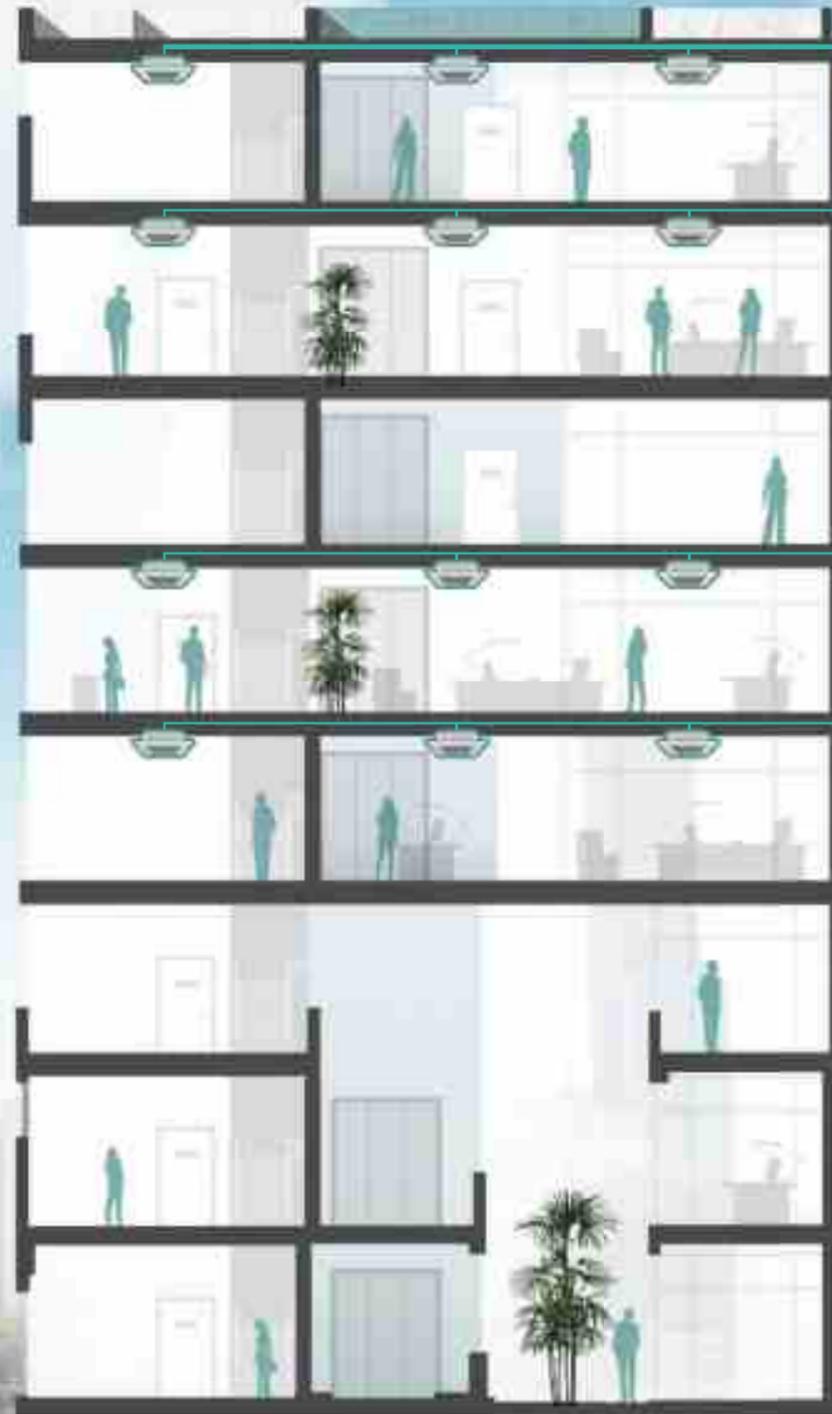
Combination of Cooling, Heating and Hot Water Solution



※ Heat Pump and Recovery are separated models.



※ Only applies to Multi V S with R410A refrigerant.



**150m (175m)**  
Longest Piping Length  
from ODU - IDU (Equivalent)

**300m**  
Total Piping Length

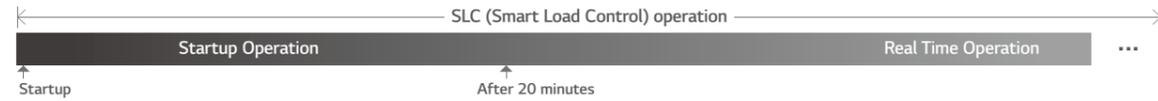
**15m**  
Height Difference  
between IDU - IDU

**50m**  
Height Difference  
between ODU - IDU

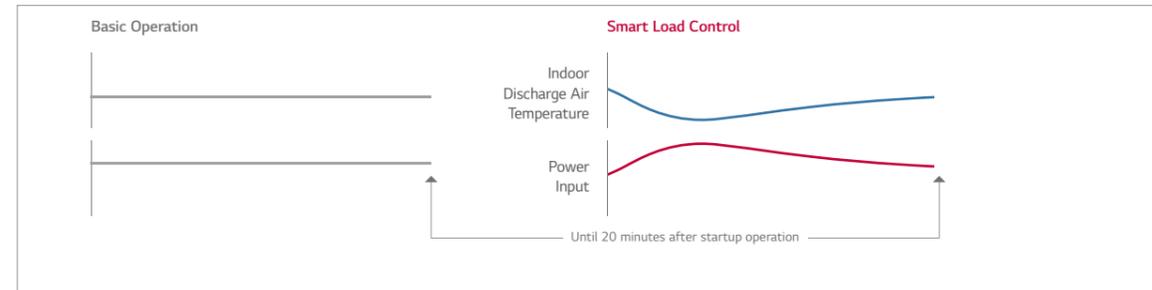
# Smart Load Control Applied

Enhanced comfort and up to 23% energy savings with MULTI V load control

MULTI V S changes indoor discharge air temperature continuously according to load, to save energy.



## Startup Operation

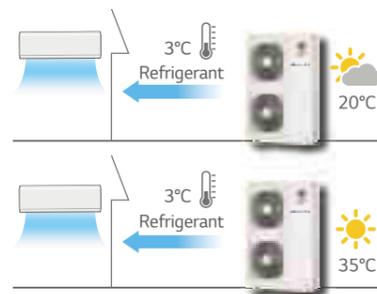


Max 10% Energy saving

※ Indoor air discharge temperature  
 - Energy efficiency increased by 3-step Smart Load Control during startup phase  
 - Discharge air temperature adjusted according to outdoor and indoor temperature  
 - Comfort level in cooling / heating operations ensured

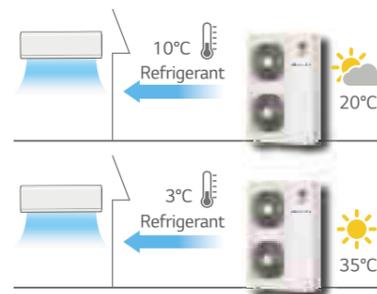
## Real Time Operation

### Basic Operation



Fixed refrigerant temperature

### Smart Load Control



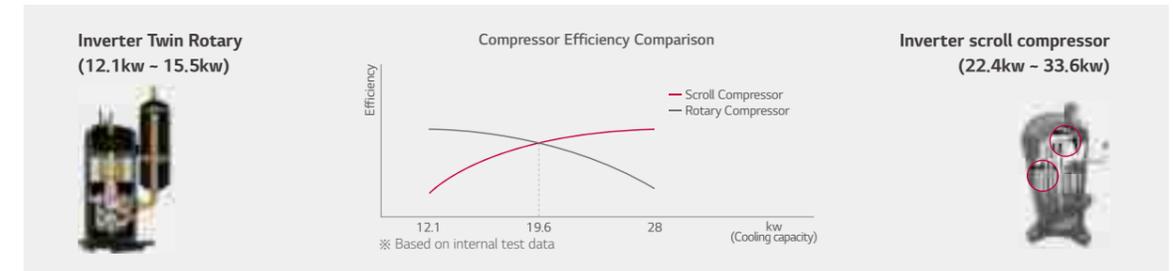
Fixed refrigerant temperature

Max 13% Energy saving

※ How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off  
 - Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35°C (DB) / 30°C (DB) / 25°C (DB) / 20°C (DB)  
 - Indoor temperature condition : 27°C (DB) / 19°C (WB)  
 ※ Dual sensing (Temperature & humidity) smart load control is possible with Remote controller  
 PTEMTB100 (White) / PREMTBB10 (Black)

# Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficient compressor according to capacity



## Inverter Twin Rotary

### Concentrated Winding Motor

Oil path area is improved by over 50% by increasing the extra stator cavity. Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.



### Twin Rotary Rotor

Upper and lower part rotor offset imbalance in shaft rotor rotation. Vibration and noise is reduced. Max torque load decreased by 45% compared to single rotor.



### Surface Coating

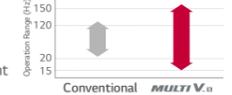
Surface coating of outstanding abrasion resistance property on vane and crank shaft.



## Inverter scroll compressor

### Best-in-class Compressor Speed

- Rapid response capability  
 - Compact core design (Concentrated motor)  
 - Down to 15Hz : Part load efficiency improvement



### 6 Bypass Valve

Compressor reliability is maximized with 6 Bypass Valve  
 - Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 Bypass valve



### Direct Oil Injection

- Eliminate suction refrigerant gas heat loss through direct oil injection into compression chamber (Efficiency increases)  
 - Increased reliability with regulated oil supply

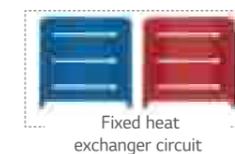
### Scroll Profile

- The enhanced reliability with regulated oil supply  
 - Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

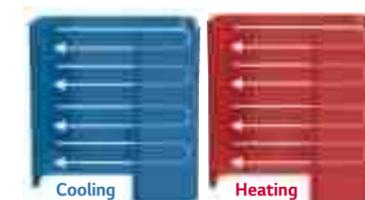
# Optimal Heat Exchanger

Maximize efficiency according to different heat exchanger path by cooling and heating

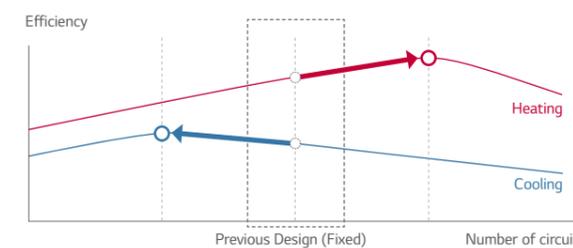
Variable Heat Exchanger Circuit intelligently selects the optimal path. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved.



Fixed heat exchanger circuit

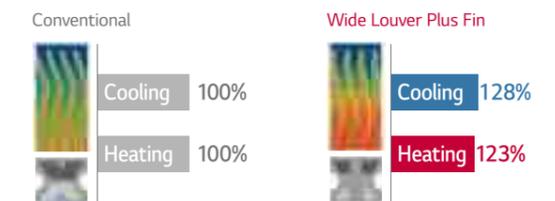


## Efficiency performance



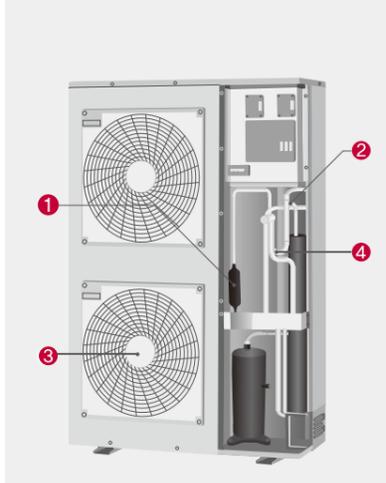
## Efficiency up due to Fin shape

Improved heat exchanger efficiency of up to 28%



# Reliable Refrigerant Components

LG technology allows for superior performance and component durability

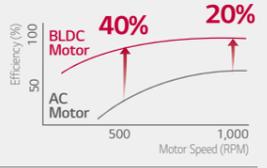


**MULTI V S improved reliability with advanced technology :**

- Oil separator
- Accumulator
- Sub-cooling

- 1 Cyclonic oil separator**
  - Highly reliable and efficient oil separation by centrifuge using cyclonic methods
  - High collection efficiency as well as outstanding resistance to high temperature and pressure
- 2 Large Volume Accumulator**
  - Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional)
  - Prevents the liquid refrigerant entering the compressor suction
  - Maximize efficiency by optimal amount of refrigerant
  - Protects compressor breakdown to increase product lifetime
- 3 BLDC Fan Motor**
  - The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds
- 4 Double Sub-cool Interchanger**
  - Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size
  - Long pipe is possible (up to\* 175m) and high elevation (up to\* 50m)
  - Reduction of indoor refrigerant noise level
  - \* Based on equivalent pipe length



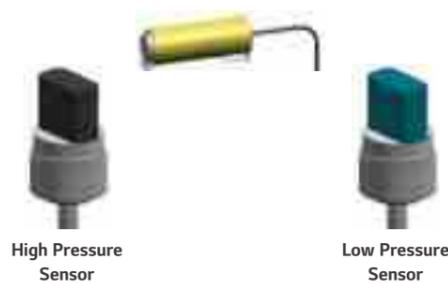



# Smart Control

Pressure control applied for smart, quick and precise response to user's temperature request

## Temperature + Pressure Control

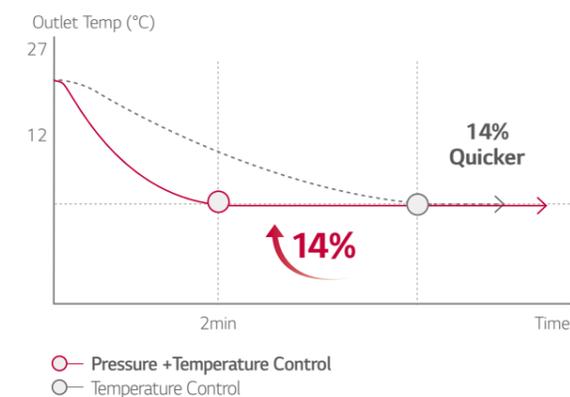
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



## Quick Operating Response

Desired temperature can be reached up to 14% faster in cooling mode with pressure control, allowing more accurate control of indoor environment for maximized comfort.

\* Specifications may vary for each model



# Corrosion Resistance Black Fin

Strong durability against high salinity and heavily polluted air

Black Fin ensures continued operation of MULTI V S in highly corrosive environments such as salt laden atmosphere in coastal towns or severe air pollution in industrial cities. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

## Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TÜV.

## Certified protection



※ Verification of corrosion resistance performance

- Test Method B of ISO 21207
- ASTM B117 / ISO 9227 (10,000 hours)

## Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.

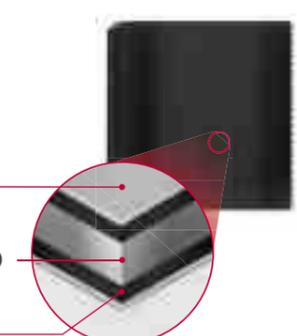
## Hydrophilic Coating (Water flow)

The Hydrophilic coating minimizes moisture buildup on the fin.

## Complex Resin (Corrosion resistant)

The Black coating provides strong protection from corrosion.

## Aluminum fin



# Sufficient Piping Length

Increased piping length allows for flexible design and installation

MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient design.

**Piping Capabilities**

300m Total piping length

150m (175m) Longest pipe length (Equivalent)

50m ODU - IDU Height difference

15m IDU - IDU Height difference

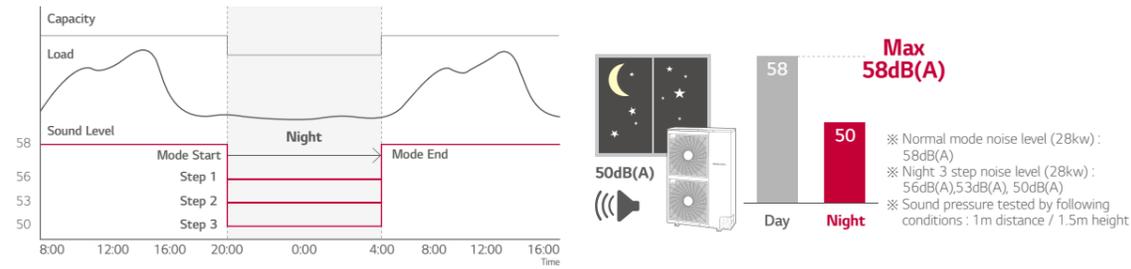
**4 Way Piping**

- Free design and installation by 4 way piping.

## Low Noise Operation

Decreased noise during operation with low noise functionality

At night low noise mode, the noise level can reduce up to 14% in comparison with normal operation mode.



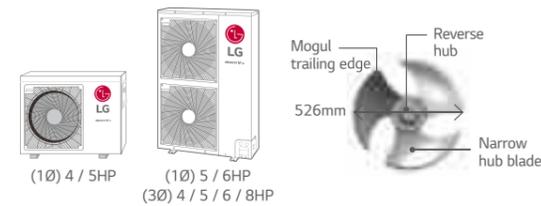
## Fan Technology and RPM Control

External static pressure control enables outdoor unit to offer more flexibility in installations.

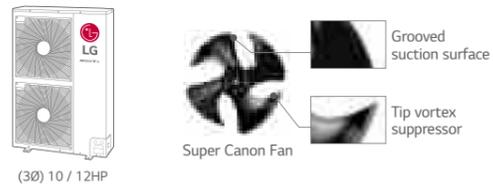
New axial fan offers higher air volume, increased static pressure, decreased noise and enhanced efficiency.

### Fan Technology

The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

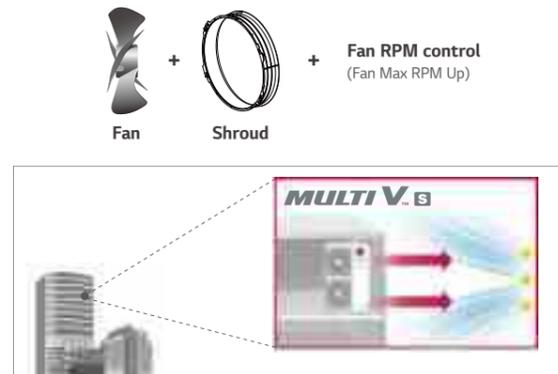


Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB(A).



### Fan RPM control

Due to the new shroud and ROM control, the air flows straight away from the fan even in high-rise buildings.

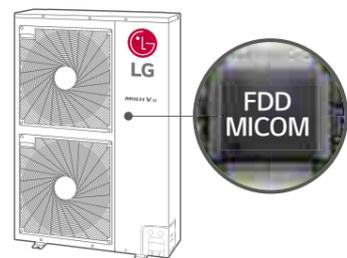


## Upgraded Fault Detection and Diagnosis

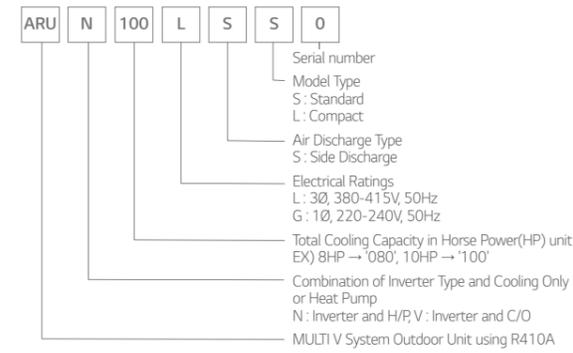
Easy and convenient maintenance with self-diagnosis

The inclusion of FDD elements - Auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance.

- Auto commissioning mode
- Auto refrigerant collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up
- FDD (Fault Detection and Diagnosis)



### Nomenclature

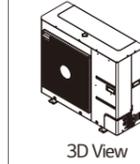
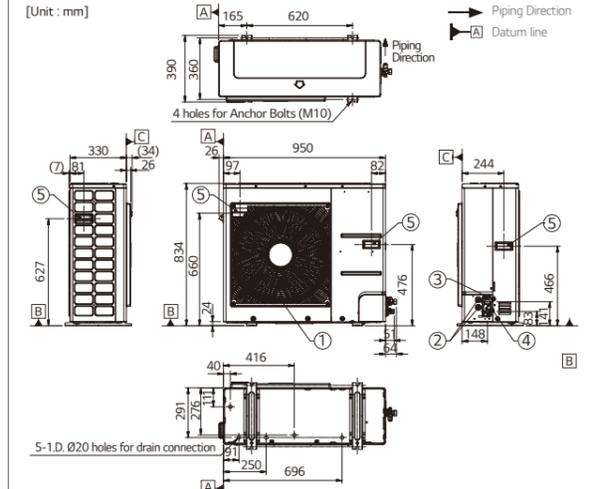


### Outdoor Units Function

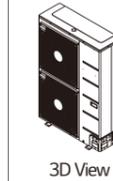
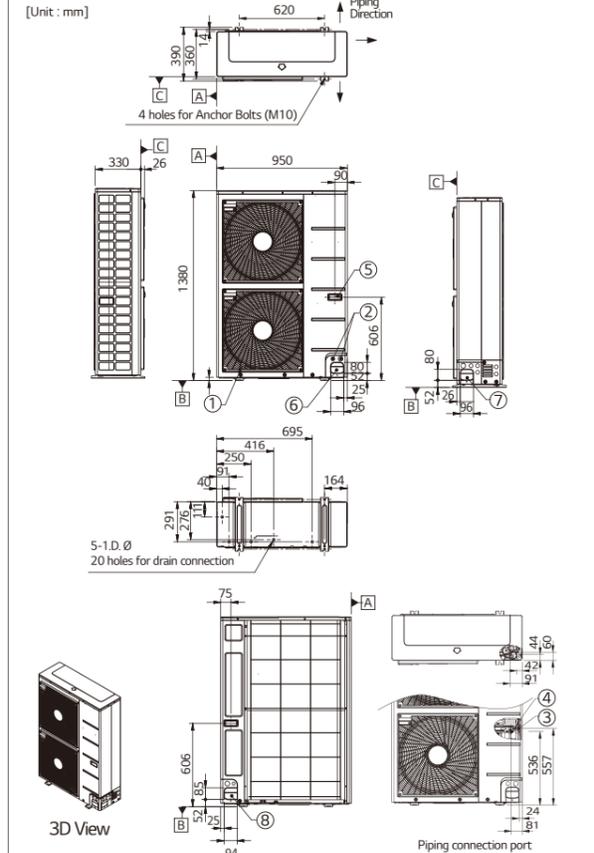
| Category                           | Functions                                                                              | MULTI V S                                      |
|------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------|
| Key Refrigerant Components         | Variable Path of Outdoor Unit                                                          | -                                              |
|                                    | HEX                                                                                    | -                                              |
|                                    | HiPOR™ (High Pressure Oil Return)                                                      | -                                              |
|                                    | Humidity Sensor                                                                        | ARUB060GSS4 only                               |
|                                    | Corrosion Resistance Black Fin                                                         | ○                                              |
| Special Function                   | Oil Sensor                                                                             | -                                              |
|                                    | Dual Sensing                                                                           | ARUB060GSS4 only                               |
|                                    | Low Noise Operation                                                                    | ○                                              |
|                                    | Hgh Static Mode of Outdoor Unit Fan                                                    | ○                                              |
| Basic Function                     | Partial Defrosting                                                                     | -                                              |
|                                    | Auto Dust Removal of Outdoor Unit                                                      | -                                              |
|                                    | (Fan reverse rotation)                                                                 | -                                              |
|                                    | Indoor Cooling Comfort Mode Based Outdoor Temperature                                  | ○                                              |
|                                    | Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | ○                                              |
|                                    | Outdoor Unit Control Refer to Humidity                                                 | ARUB060GSS4 only                               |
|                                    | Defrost / Deicing                                                                      | ○                                              |
|                                    | High Pressure Switch                                                                   | ○                                              |
|                                    | Phase Protection                                                                       | ○                                              |
|                                    | Restart Delay (3-minutes)                                                              | ○                                              |
| Central Controller                 | Self Diagnosis                                                                         | ○                                              |
|                                    | Soft Start                                                                             | ○                                              |
|                                    | Test Run Function                                                                      | -                                              |
|                                    | AC Ez (Simple Controller)                                                              | PQCSZ250S0                                     |
|                                    | AC Ez Touch                                                                            | PACEZA000                                      |
|                                    | AC Smart IV                                                                            | PACS4B000                                      |
|                                    | AC Smart 5                                                                             | PACSSA000                                      |
|                                    | ACP (Advanced Control Platform) IV                                                     | PACP4B000                                      |
|                                    | ACP (Advanced Control Platform) S                                                      | PACPSA000                                      |
|                                    | AC Manager 5                                                                           | PACMSA000                                      |
| BNU (Building Network Unit)        | ACP Lonworks                                                                           | PLNVKB000                                      |
|                                    | ACP BACnet                                                                             | PQNFB17C0                                      |
|                                    | IO Module (ODU Dry Contact)                                                            | PVDSMN000                                      |
| PDI (Power Distribution Indicator) | Standard                                                                               | PPWRDB000                                      |
|                                    | Premium                                                                                | PQNUD1S40                                      |
| Cool / Heat Selector               |                                                                                        | PRDSBM                                         |
|                                    |                                                                                        | PRCTILO                                        |
| Cycle Monitoring Device            | LGMV                                                                                   | PLGMVW100                                      |
|                                    | Mobile LGMV                                                                            | ○                                              |
| Additional kit                     | Refrigerant Charging Kit                                                               | (Logical operation) Not applied to ARUB060GSS4 |
|                                    | Low Ambient Kit                                                                        | -                                              |
|                                    | Variable Water Flow Valve Control Kit                                                  | -                                              |

※ ○ : Applied, - : Not Applied

### ARUN040GSS0



### ARUN080LSS0



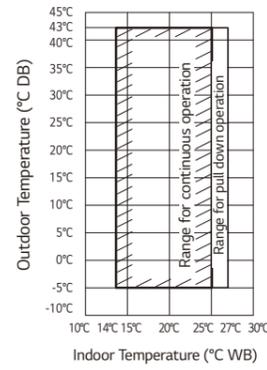
Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulation or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

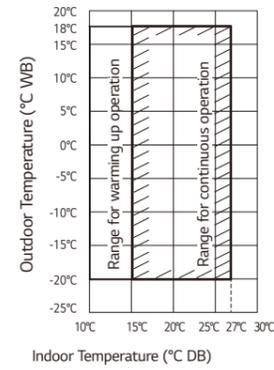
| No. | Part Name                          | Description   |
|-----|------------------------------------|---------------|
| 1   | Air Outlet                         | -             |
| 2   | Power and communication cable Hole | -             |
| 3   | Gas Pipe Connection                | Welding joint |
| 4   | Liquid Pipe Connection             | Welding joint |
| 5   | Handle                             | -             |
| 6   | Pipe routing hole (front)          | -             |
| 7   | Pipe routing hole (side)           | -             |
| 8   | Pipe routing hole (back)           | -             |

Heat Pump

Cooling

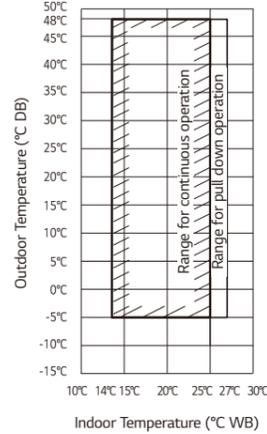


Heating

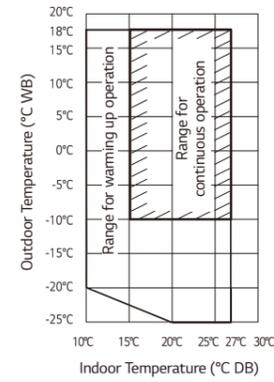


Heat Recovery

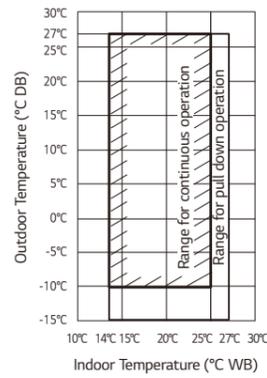
Cooling



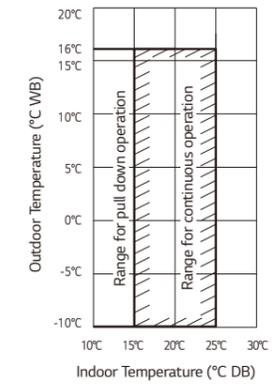
Heating



Simultaneous Cooling

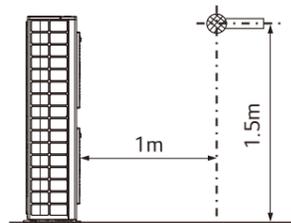


Simultaneous Heating



Note  
 1. These figures assume the following operating conditions : Equivalent piping length : 7.5m  
 Level difference : 0m  
 2. Range of pull down operation : If the relative humidity is too high, cooling capacity can be decreased by the sensible

Position of Sound Level Measuring



Note  
 1. These figures assume the following operating conditions :  
 Equivalent piping length : 7.5m  
 Level difference : 0m

ARUN040GSS0



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| HP                                         |                              | 4                               |                         |
|--------------------------------------------|------------------------------|---------------------------------|-------------------------|
| Model Name                                 |                              | ARUN040GSS0                     |                         |
| Capacity                                   | Cooling (Rated)              | kW                              | 12.1                    |
|                                            | Heating (Rated)              | kW                              | 12.5                    |
| Input                                      | Cooling (Rated)              | kW                              | 4.03                    |
|                                            | Heating (Rated)              | kW                              | 3.10                    |
| EER                                        |                              | 3.00                            |                         |
| SEER                                       |                              | 5.63                            |                         |
| COP                                        |                              | Rated Capacity 4.03             |                         |
| SCOP                                       |                              | 3.97                            |                         |
| Exterior                                   | Color (General)              | Warm Gray                       |                         |
|                                            | RAL Code (Classic)           | RAL 7044                        |                         |
| Heat Exchanger                             | Type                         | Wide Louver Plus                |                         |
|                                            | Type                         | BLDC Inverter Twin Rotary       |                         |
| Compressor                                 | Combination x No.            | (Inverter) x 1                  |                         |
|                                            | Motor Output x Number        | W x No.                         | 4,000 x 1               |
|                                            | Oil Type                     | FW68D (PVE)                     |                         |
| Fan                                        | Oil Charge                   | cc                              | 1,300                   |
|                                            | Type                         | Axial Flow Fan                  |                         |
| Pipe Connection                            | Motor Output x Number        | W x No.                         | 124 x 1                 |
|                                            | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | 60                      |
|                                            | Drive                        | DC INVERTER                     |                         |
| Discharge                                  | Side / Top                   | Side                            |                         |
|                                            | Liquid Pipe                  | mm (inch)                       | Ø9.52 (3/8)             |
| Dimensions (W x H x D)                     | Gas Pipe                     | mm (inch)                       | Ø15.88 (5/8)            |
|                                            | mm x No.                     | 950 x 834 x 330                 |                         |
| Dimensions (W x H x D) - Shipping          |                              | mm x No.                        | (1,065 x 918 x 461) x 1 |
| Net Weight                                 |                              | kg x No.                        | 70                      |
| Shipping Weight                            |                              | kg x No.                        | 77 x 1                  |
| Sound Pressure Level                       | Cooling                      | dB(A)                           | 50                      |
|                                            | Heating                      | dB(A)                           | 52                      |
| Sound Power Level                          | Cooling                      | dB(A)                           | 72                      |
|                                            | Heating                      | dB(A)                           | 75                      |
| Communication Cable                        |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5          |
| Refrigerant                                | Refrigerant Name             | R410A                           |                         |
|                                            | Precharged Amount in factory | kg                              | 1.8                     |
|                                            | t-CO <sub>2</sub> eq         | 3.758                           |                         |
| Control                                    |                              | Electronic Expansion Valve      |                         |
| Power Supply                               |                              | Ø, V, Hz                        | 220-240, 1, 50          |
|                                            |                              |                                 | 220, 1, 60              |
| Number of Maximum Connectable Indoor Units |                              | 8                               |                         |

Note  
 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.  
 - Refer to EUROVENT certification regulation for more detail test conditions.  
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.  
 2. Performances are based on the following conditions :  
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB  
 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%).  
 4. Wiring cable size must comply with the applicable local and national codes.  
 5. Due to our policy of innovation some specifications may be changed without notification.  
 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 7. Power factor could vary less than ±1% according to the operating conditions.  
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN050GSS0 / ARUN060GSS0



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| HP                                         |                              |                           | 5                          | 6                          |
|--------------------------------------------|------------------------------|---------------------------|----------------------------|----------------------------|
| Model Name                                 |                              |                           | ARUN050GSS0                | ARUN060GSS0                |
| Capacity                                   | Cooling (Rated)              | kW                        | 14.0                       | 15.5                       |
|                                            | Heating (Rated)              | kW                        | 16.0                       | 18.0                       |
| Input                                      | Cooling (Rated)              | kW                        | 4.59                       | 5.17                       |
|                                            | Heating (Rated)              | kW                        | 4.18                       | 5.00                       |
| EER                                        |                              |                           | 3.05                       | 3.00                       |
| SEER                                       |                              |                           | 7.40                       | 7.53                       |
| COP Rated Capacity                         |                              |                           | 3.83                       | 3.60                       |
| SCOP                                       |                              |                           | 4.16                       | 4.35                       |
| Exterior                                   | Color (General)              |                           | Warm Gray                  | Warm Gray                  |
|                                            | RAL Code (Classic)           |                           | RAL 7044                   | RAL 7044                   |
| Heat Exchanger                             | Type                         |                           | Wide Louver Plus           | Wide Louver Plus           |
|                                            | Type                         |                           | BLDC Inverter Twin Rotary  | BLDC Inverter Twin Rotary  |
| Compressor                                 | Combination x No.            |                           | (Inverter) x 1             | (Inverter) x 1             |
|                                            | Motor Output x Number        | W x No.                   | 4,000 x 1                  | 4,000 x 1                  |
|                                            | Oil Type                     |                           | FW68D (PVE)                | FW68D (PVE)                |
|                                            | Oil Charge                   | cc                        | 1,300                      | 1,300                      |
|                                            | Type                         |                           | Axial Flow Fan             | Axial Flow Fan             |
| Fan                                        | Motor Output x Number        | W x No.                   | 124 x 2                    | 124 x 2                    |
|                                            | Air Flow Rate (High)         | m <sup>3</sup> /min x No. | 110                        | 110                        |
|                                            | Drive                        |                           | DC INVERTER                | DC INVERTER                |
|                                            | Discharge                    | Side / Top                | Side                       | Side                       |
| Pipe Connection                            | Liquid Pipe                  | mm (inch)                 | Ø9.52 (3/8)                | Ø9.52 (3/8)                |
|                                            | Gas Pipe                     | mm (inch)                 | Ø15.88 (5/8)               | Ø19.05 (3/4)               |
| Dimensions (W x H x D)                     |                              |                           | 950 x 1,380 x 330          | 950 x 1,380 x 330          |
| Dimensions (W x H x D) - Shipping          |                              |                           | (1,065 x 918 x 461) x 1    | (1,065 x 918 x 461) x 1    |
| Net Weight                                 |                              |                           | 94                         | 94                         |
| Shipping Weight                            |                              |                           | 106                        | 106                        |
| Sound Pressure Level                       | Cooling                      | dB(A)                     | 51                         | 52                         |
|                                            | Heating                      | dB(A)                     | 53                         | 54                         |
| Sound Power Level                          | Cooling                      | dB(A)                     | 72                         | 72                         |
|                                            | Heating                      | dB(A)                     | 76                         | 77                         |
| Communication Cable                        |                              |                           | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             |
| Refrigerant                                | Refrigerant Name             |                           | R410A                      | R410A                      |
|                                            | Precharged Amount in factory | kg                        | 3.0                        | 3.0                        |
|                                            | t-CO <sub>2</sub> eq         |                           | 6.263                      | 6.263                      |
|                                            | Control                      |                           | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply                               |                              |                           | 220-240, 1, 50             | 220-240, 1, 50             |
| Number of Maximum Connectable Indoor Units |                              |                           | 10                         | 13                         |

Note  
 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.  
 - Refer to EUROVENT certification regulation for more detail test conditions.  
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.  
 2. Performances are based on the following conditions :  
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 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB  
 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSS0 is 130%).  
 4. Wiring cable size must comply with the applicable local and national codes.  
 5. Due to our policy of innovation some specifications may be changed without notification.  
 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 7. Power factor could vary less than ±1% according to the operating conditions.  
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN040LSS0 / ARUN050LSS0  
ARUN060LSS0



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| HP                                         |                              |                           | 4                          | 5                          | 6                          |
|--------------------------------------------|------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| Model Name                                 |                              |                           | ARUN040LSS0                | ARUN050LSS0                | ARUN060LSS0                |
| Capacity                                   | Cooling (Rated)              | kW                        | 12.1                       | 14.0                       | 15.5                       |
|                                            | Heating (Rated)              | kW                        | 12.5                       | 16.0                       | 18.0                       |
| Input                                      | Cooling (Rated)              | kW                        | 3.39                       | 4.59                       | 5.17                       |
|                                            | Heating (Rated)              | kW                        | 2.75                       | 4.18                       | 5.00                       |
| EER                                        |                              |                           | 3.57                       | 3.05                       | 3.00                       |
| SEER                                       |                              |                           | 7.42                       | 7.40                       | 7.53                       |
| COP Rated Capacity                         |                              |                           | 4.55                       | 3.83                       | 3.60                       |
| SCOP                                       |                              |                           | 4.30                       | 4.16                       | 4.35                       |
| Exterior                                   | Color (General)              |                           | Warm Gray                  | Warm Gray                  | Warm Gray                  |
|                                            | RAL Code (Classic)           |                           | RAL 7044                   | RAL 7044                   | RAL 7044                   |
| Heat Exchanger                             | Type                         |                           | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus           |
|                                            | Type                         |                           | BLDC Inverter Twin Rotary  | BLDC Inverter Twin Rotary  | BLDC Inverter Twin Rotary  |
| Compressor                                 | Combination x No.            |                           | (Inverter) x 1             | (Inverter) x 1             | (Inverter) x 1             |
|                                            | Motor Output x Number        | W x No.                   | 4,000 x 1                  | 4,000 x 1                  | 4,000 x 1                  |
|                                            | Oil Type                     |                           | FW68D (PVE)                | FW68D (PVE)                | FW68D (PVE)                |
|                                            | Oil Charge                   | cc                        | 1,300                      | 1,300                      | 1,300                      |
|                                            | Type                         |                           | Axial Flow Fan             | Axial Flow Fan             | Axial Flow Fan             |
| Fan                                        | Motor Output x Number        | W x No.                   | 124 x 2                    | 124 x 2                    | 124 x 2                    |
|                                            | Air Flow Rate (High)         | m <sup>3</sup> /min x No. | 110                        | 110                        | 110                        |
|                                            | Drive                        |                           | DC INVERTER                | DC INVERTER                | DC INVERTER                |
|                                            | Discharge                    | Side / Top                | Side                       | Side                       | Side                       |
| Pipe Connection                            | Liquid Pipe                  | mm (inch)                 | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø9.52 (3/8)                |
|                                            | Gas Pipe                     | mm (inch)                 | Ø15.883(5/8)               | Ø15.88 (5/8)               | Ø19.05 (3/4)               |
| Dimensions (W x H x D)                     |                              |                           | 950 x 1,380 x 330          | 950 x 1,380 x 330          | 950 x 1,380 x 330          |
| Dimensions (W x H x D) - Shipping          |                              |                           | (1,065 x 918 x 461) x 1    | (1,065 x 918 x 461) x 1    | (1,065 x 918 x 461) x 1    |
| Net Weight                                 |                              |                           | 96                         | 96                         | 96                         |
| Shipping Weight                            |                              |                           | 108                        | 108                        | 108                        |
| Sound Pressure Level                       | Cooling                      | dB(A)                     | 50                         | 51                         | 52                         |
|                                            | Heating                      | dB(A)                     | 52                         | 53                         | 54                         |
| Sound Power Level                          | Cooling                      | dB(A)                     | 72                         | 72                         | 72                         |
|                                            | Heating                      | dB(A)                     | 76                         | 76                         | 77                         |
| Communication Cable                        |                              |                           | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             |
| Refrigerant                                | Refrigerant Name             |                           | R410A                      | R410A                      | R410A                      |
|                                            | Precharged Amount in factory | kg                        | 3.0                        | 3.0                        | 3.0                        |
|                                            | t-CO <sub>2</sub> eq         |                           | 6.263                      | 6.263                      | 6.263                      |
|                                            | Control                      |                           | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply                               |                              |                           | 380-415, 3, 50             | 380-415, 3, 50             | 380-415, 3, 50             |
| Number of Maximum Connectable Indoor Units |                              |                           | 8                          | 10                         | 13                         |

Note  
 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.  
 - Refer to EUROVENT certification regulation for more detail test conditions.  
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.  
 2. Performances are based on the following conditions :  
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB  
 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSS0 is 130%).  
 4. Wiring cable size must comply with the applicable local and national codes.  
 5. Due to our policy of innovation some specifications may be changed without notification.  
 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 7. Power factor could vary less than ±1% according to the operating conditions.  
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN080LSS0 / ARUN100LSS0  
ARUN120LSS0



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| HP                                         |                              |                                 | 8                          | 10                         | 12                         |
|--------------------------------------------|------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|
| Model Name                                 |                              |                                 | ARUN080LSS0                | ARUN100LSS0                | ARUN120LSS0                |
| Capacity                                   | Cooling (Rated)              | kW                              | 22.4                       | 28.0                       | 33.6                       |
|                                            | Heating (Rated)              | kW                              | 24.5                       | 30.6                       | 36.7                       |
| Input                                      | Cooling (Rated)              | kW                              | 8.45                       | 12.44                      | 15.27                      |
|                                            | Heating (Rated)              | kW                              | 6.96                       | 8.50                       | 12.23                      |
| EER                                        |                              |                                 | 2.65                       | 2.25                       | 2.20                       |
| SEER                                       |                              |                                 | 7.13                       | 6.28                       | 6.50                       |
| COP                                        |                              |                                 | Rated Capacity             | 3.52                       | 3.60                       |
| SCOP                                       |                              |                                 | 4.53                       | 4.21                       | 4.32                       |
| Exterior                                   | Color (General)              |                                 | Warm Gray                  | Warm Gray                  | Warm Gray                  |
|                                            | RAL Code (Classic)           |                                 | RAL 7044                   | RAL 7044                   | RAL 7044                   |
| Heat Exchanger                             | Type                         |                                 | Wide Louver Plus           | Wide Louver Plus           | Wide Louver Plus           |
|                                            | Type                         |                                 | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor                                 | Combination x No.            |                                 | (Inverter) x 1             | (Inverter) x 1             | (Inverter) x 1             |
|                                            | Motor Output x Number        | W x No.                         | 4,200 x 1                  | 5,300 x 1                  | 5,300 x 1                  |
|                                            | Oil Type                     |                                 | FW68D (PVE)                | FW68D (PVE)                | FW68D (PVE)                |
|                                            | Oil Charge                   | cc                              | 2,400                      | 2,600                      | 3,400                      |
|                                            | Type                         |                                 | Propeller fan              | Propeller fan              | Propeller fan              |
| Fan                                        | Motor Output x Number        | W x No.                         | 124 x 2                    | 250 x 2                    | 250 x 2                    |
|                                            | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | 140                        | 190                        | 190                        |
|                                            | Drive                        |                                 | DC INVERTER                | DC INVERTER                | DC INVERTER                |
|                                            | Discharge                    | Side / Top                      | Side                       | Side                       | Side                       |
| Pipe Connection                            | Liquid Pipe                  | mm (inch)                       | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø12.7 (1/2)                |
|                                            | Gas Pipe                     | mm (inch)                       | Ø19.05 (3/4)               | Ø22.2 (7/8)                | Ø28.58 (1-1/8)             |
| Dimensions (W x H x D)                     |                              | mm x No.                        | 950 x 1,380 x 330          | 1,090 x 1,625 x 380        | 1,090 x 1,625 x 380        |
| Dimensions (W x H x D) - Shipping          |                              | mm x No.                        | (1,065 x 918 x 461) x 1    | (1,065 x 918 x 461) x 1    | (1,065 x 918 x 461) x 1    |
| Net Weight                                 |                              | kg x No.                        | 115                        | 142                        | 155                        |
| Shipping Weight                            |                              | kg x No.                        | 127                        | 158                        | 171                        |
| Sound Pressure Level                       | Cooling                      | dB(A)                           | 57                         | 58                         | 60                         |
|                                            | Heating                      | dB(A)                           | 57                         | 58                         | 60                         |
| Sound Power Level                          | Cooling                      | dB(A)                           | 78                         | 77                         | 78                         |
|                                            | Heating                      | dB(A)                           | 81                         | 79                         | 82                         |
| Communication Cable                        |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             |
| Refrigerant                                | Refrigerant Name             |                                 | R410A                      | R410A                      | R410A                      |
|                                            | Precharged Amount in factory | kg                              | 3.5                        | 4.5                        | 6.0                        |
|                                            | t-CO <sub>2</sub> eq         |                                 | 7.306                      | 9.394                      | 12.525                     |
|                                            | Control                      |                                 | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply                               |                              | Ø, V, Hz                        | 380-415, 3, 50             | 380-415, 3, 50             | 380-415, 3, 50             |
| Number of Maximum Connectable Indoor Units |                              |                                 | 13                         | 16                         | 20                         |

- Note
- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
    - Refer to EUROVENT certification regulation for more detail test conditions.
    - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
  - Performances are based on the following conditions :
    - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
    - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
  - The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%).
  - Wiring cable size must comply with the applicable local and national codes.
  - Due to our policy of innovation some specifications may be changed without notification.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
  - Power factor could vary less than ±1% according to the operating conditions.
  - This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUB060GSS4



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| HP                                         |                              |                                 | 6                          |
|--------------------------------------------|------------------------------|---------------------------------|----------------------------|
| Model Name                                 |                              |                                 | ARUB060GSS4                |
| Capacity                                   | Cooling (Rated)              | kW                              | 15.5                       |
|                                            | Heating (Rated)              | kW                              | 18.0                       |
| Input                                      | Cooling (Rated)              | kW                              | 5.74                       |
|                                            | Heating (Rated)              | kW                              | 5.14                       |
| EER                                        |                              |                                 | 2.70                       |
| SEER                                       |                              |                                 | 5.92                       |
| COP                                        |                              |                                 | Rated Capacity             |
| SCOP                                       |                              |                                 | 3.79                       |
| Exterior                                   | Color                        |                                 | Warm Gray                  |
|                                            | RAL Code (Classic)           |                                 | RAL 7044                   |
| Heat Exchanger                             | Type                         |                                 | Wide Louver Plus           |
|                                            | Type                         |                                 | Hermetically Sealed Scroll |
| Compressor                                 | Combination x No.            |                                 | (Inverter) x 1             |
|                                            | Motor Output x Number        | W x No.                         | 4,200 x 1                  |
|                                            | Oil Type                     |                                 | FW68D (PVE)                |
|                                            | Oil Charge                   | cc                              | 1,700                      |
|                                            | Type                         |                                 | Axial Flow Fan             |
| Fan                                        | Motor Output x Number        | W x No.                         | 124 x 2                    |
|                                            | Air Flow Rate (High)         | m <sup>3</sup> /min x No.       | 110                        |
|                                            | Drive                        |                                 | DC INVERTER                |
|                                            | Discharge                    | Side / Top                      | Side                       |
| Pipe Connection #1                         | Liquid Pipe                  | mm (inch)                       | Ø9.52 (3/8)                |
|                                            | Low Pressure Gas Pipe        | mm (inch)                       | Ø19.05 (3/4)               |
|                                            | High Pressure Gas Pipe       | mm (inch)                       | Ø15.88 (5/8)               |
| Dimensions (W x H x D)                     |                              | mm x No.                        | 950 x 1,380 x 330          |
| Dimensions (W x H x D) - shipping          |                              | mm x No.                        | (1,140 x 1,549 x 466) x 1  |
| Net Weight                                 |                              | kg x No.                        | 118                        |
| Shipping Weight                            |                              | kg x No.                        | 132                        |
| Sound Pressure Level                       | Cooling                      | dB(A)                           | 56                         |
|                                            | Heating                      | dB(A)                           | 58                         |
| Sound Power Level                          | Cooling                      | dB(A)                           | 76                         |
|                                            | Heating                      | dB(A)                           | 78                         |
| Communication Cable                        |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5             |
| Refrigerant                                | Refrigerant Name             |                                 | R410A                      |
|                                            | Precharged Amount in factory | kg                              | 3.5                        |
|                                            | t-CO <sub>2</sub> eq         |                                 | 7.306                      |
|                                            | Control                      |                                 | Electronic Expansion Valve |
| Power Supply                               |                              | Ø, V, Hz                        | 220-230-240, 1, 50/60      |
| Number of Maximum Connectable Indoor Units |                              |                                 | 13                         |

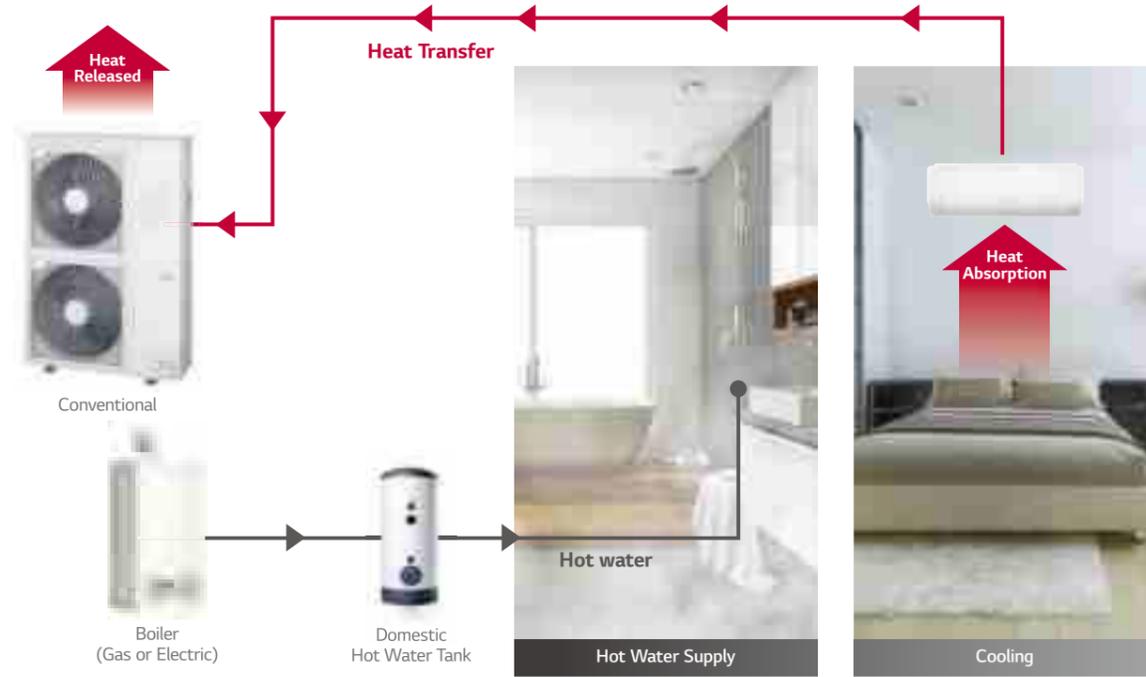
- Note
- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
    - Refer to EUROVENT certification regulation for more detail test conditions.
    - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
  - Performances are based on the following conditions :
    - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
    - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
  - The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%).
  - Wiring cable size must comply with the applicable local and national codes.
  - Due to our policy of innovation some specifications may be changed without notification.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
  - Power factor could vary less than ±1% according to the operating conditions.
  - This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

# Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

## Conventional

Absorbed heat is released to outdoor air.



# Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

## MULTI V S Heat Recovery with HYDRO KIT

Absorbed heat from indoor space is used for making hot water.



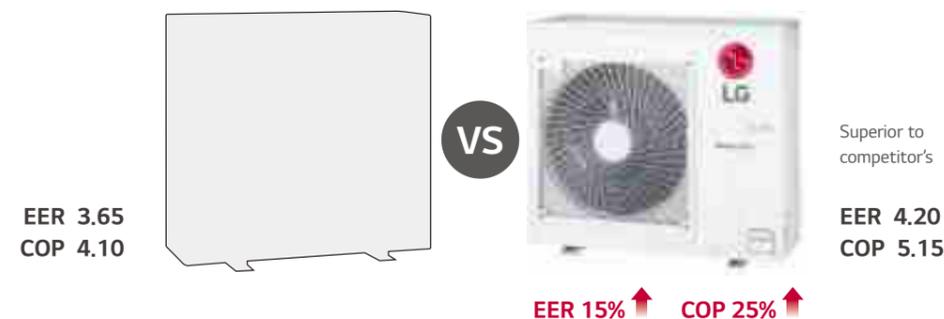
# MULTI V<sup>TM</sup> S R32

- Air cooled VRF Heat pump
- 12.1 ~ 15.5kW (based on cooling capacity)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit



## Higher Efficiency

LG Multi V S achieved high efficiency through technology of biomimetic fan and revolutionary scroll compressor.



※ The values based on 5HP model

## Compact Size & Light Weight

Its compact size and light weight make it easy to install and optimize space. (5/6HP)



## Less Refrigerant Charge

LG reduced refrigerant charge by applying environment-conscious refrigerant R32.

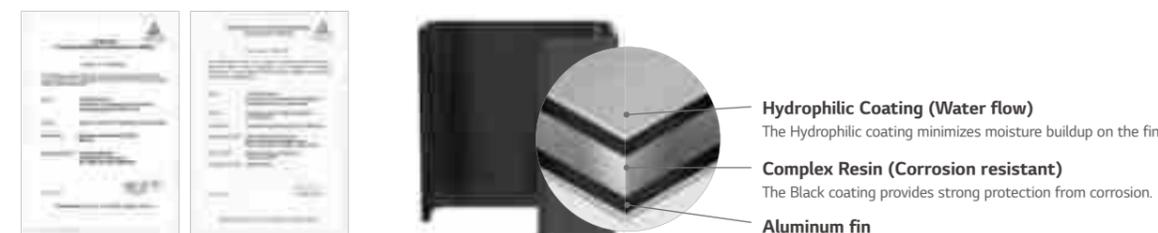


※ IDU (Wall Mounted Unit) : 5 kBTu/h, 8 EA  
※ This result can be different depending on actual environment

## Corrosion Resistance Black Fin

### Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.



※ Verification of corrosion resistance performance  
- Test Method B of ISO 21207  
- ASTM B117 / ISO 9227 (10,000 hours)

## Lower Global Warming Potential (GWP)

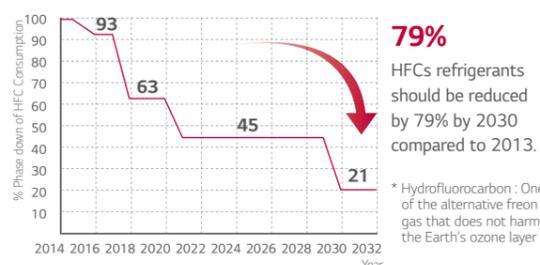
### What is GWP?

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO<sub>2</sub>).



### Global Trend and EU Regulation for F-Gas

HFC\* Phase Down 79% by 2030.



## Cost Savings with R32

### Higher Efficiency

Savings on cost of energy consumption.



### Reduced Equipment Sizes

Savings on product purchase and labor cost for installation and maintenance.



### Less Refrigerant Charge

Savings on cost of injecting & replacing refrigerant.



### Reduced Refrigerant Volume

Savings on refrigerant purchase and recycling costs.





ZRUN040GSS0 / ZRUN050GSS0  
ZRUN060GSS0



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

| HP                                         |                       |                                 | 4                      | 5                          | 6                          |                            |
|--------------------------------------------|-----------------------|---------------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| Model Name                                 |                       |                                 | ZRUN040GSS0            | ZRUN050GSS0                | ZRUN060GSS0                |                            |
| Capacity                                   | Cooling (Rated)       | kW                              | 12.1                   | 14.0                       | 15.5                       |                            |
|                                            | Heating (Rated)       | kW                              | 12.1                   | 14.0                       | 15.5                       |                            |
|                                            | Heating (Max)         | kW                              | 14.2                   | 16.0                       | 18.0                       |                            |
| Input                                      | Cooling (Rated)       | kW                              | 4.26                   | 4.90                       | 5.64                       |                            |
|                                            | Heating (Rated)       | kW                              | 3.03                   | 3.48                       | 3.95                       |                            |
| EER (Rated)                                |                       |                                 | 2.84                   | 2.86                       | 2.75                       |                            |
| SEER                                       |                       |                                 | 6.69                   | 6.44                       | 6.59                       |                            |
| COP (Rated)                                |                       |                                 | 4.00                   | 4.02                       | 3.92                       |                            |
| SCOP                                       |                       |                                 | 3.87                   | 3.81                       | 4.07                       |                            |
| Exterior                                   | Color                 |                                 | Warm Gray              | Warm Gray                  | Warm Gray                  |                            |
|                                            | RAL Code              |                                 | RAL 7044               | RAL 7044                   | RAL 7044                   |                            |
| Heat Exchanger                             | Type                  |                                 | Wide Louver Plus       | Wide Louver Plus           | Wide Louver Plus           |                            |
|                                            | Type                  |                                 | LG Inverter Scroll     | LG Inverter Scroll         | LG Inverter Scroll         |                            |
| Compressor                                 | Combination x No.     |                                 | (Inverter) x 1         | (Inverter) x 1             | (Inverter) x 1             |                            |
|                                            | Motor Output x Number | W x No.                         | 3,198 x 1              | 3,198 x 1                  | 3,198 x 1                  |                            |
|                                            | Oil Type              |                                 | FW68D (PVE)            | FW68D (PVE)                | FW68D (PVE)                |                            |
|                                            | Oil Charge            | cc                              | 1,100                  | 1,100                      | 1,100                      |                            |
|                                            | Type                  |                                 | Axial Flow Fan         | Axial Flow Fan             | Axial Flow Fan             |                            |
| Fan                                        | Motor Output x Number | W x No.                         | 124 x 1                | 198 x 1                    | 198 x 1                    |                            |
|                                            | Air Flow Rate (High)  | m <sup>3</sup> /min x No.       | 60                     | 80                         | 80                         |                            |
|                                            | Drive                 |                                 | DC INVERTER            | DC INVERTER                | DC INVERTER                |                            |
|                                            | Discharge             | Side / Top                      | Side                   | Side                       | Side                       |                            |
|                                            | Pipe Connection       | Liquid Pipe                     | mm (inch)              | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø9.52 (3/8)                |
|                                            | Gas Pipe              | mm (inch)                       | Ø15.88 (5/8)           | Ø15.88 (5/8)               | Ø19.05 (3/4)               |                            |
| Dimensions (W x H x D)                     |                       | mm x No.                        | 950 x 834 x 330        | 950 x 834 x 330            | 950 x 834 x 330            |                            |
| Dimensions (W x H x D) - Shipping          |                       | mm x No.                        | 1,147 x 919 x 461      | 1,147 x 919 x 461          | 1,147 x 919 x 461          |                            |
| Net Weight                                 |                       | kg x No.                        | 64.7                   | 71.6                       | 71.6                       |                            |
| Shipping Weight                            |                       | kg x No.                        | 73.7                   | 79.6                       | 79.6                       |                            |
| Sound Pressure Level                       | Cooling               | dB(A)                           | 51                     | 57                         | 57                         |                            |
|                                            | Heating               | dB(A)                           | 55                     | 60                         | 60                         |                            |
| Sound Power Level                          | Cooling               | dB(A)                           | 67                     | 70                         | 71                         |                            |
|                                            | Heating               | dB(A)                           | 71                     | 74                         | 75                         |                            |
| Communication Cable                        |                       | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5         | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             |                            |
| Refrigerant                                | Refrigerant name      |                                 | R32                    | R32                        | R32                        |                            |
|                                            | Precharged Amount     |                                 | kg                     | 1.5                        | 2.0                        | 2.0                        |
|                                            | t-CO <sub>2</sub> eq  |                                 |                        | 1.013                      | 1.350                      | 1.350                      |
|                                            | Control               |                                 |                        | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply                               |                       | Ø, V, Hz                        | 220 - 230 - 240, 1, 50 | 220 - 230 - 240, 1, 50     | 220 - 230 - 240, 1, 50     |                            |
| Number of maximum connectable indoor units |                       |                                 | 8                      | 10                         | 13                         |                            |

Note  
 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. EUROVENT Test Condition :  
 • Performance values on the this PDB are based on Ceiling mounted cassette combination.  
 • Refer to EUROVENT web site([www.eurovent-certification.com](http://www.eurovent-certification.com)) for other indoor unit combination and more detail test conditions.  
 6. The maximum combination ratio is 160%.  
 7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

ZRUN040LSS0 / ZRUN050LSS0  
ZRUN060LSS0



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| HP                                         |                       |                                 | 4                      | 5                          | 6                          |                            |
|--------------------------------------------|-----------------------|---------------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| Model Name                                 |                       |                                 | ZRUN040LSS0            | ZRUN050LSS0                | ZRUN060LSS0                |                            |
| Capacity                                   | Cooling (Rated)       | kW                              | 12.1                   | 14.0                       | 15.5                       |                            |
|                                            | Heating (Rated)       | kW                              | 12.1                   | 14.0                       | 15.5                       |                            |
|                                            | Heating (Max)         | kW                              | 14.2                   | 16.0                       | 18.0                       |                            |
| Input                                      | Cooling (Rated)       | kW                              | 4.26                   | 4.90                       | 5.64                       |                            |
|                                            | Heating (Rated)       | kW                              | 3.03                   | 3.48                       | 3.95                       |                            |
| EER (Rated)                                |                       |                                 | 2.84                   | 2.86                       | 2.75                       |                            |
| SEER                                       |                       |                                 | 6.69                   | 6.44                       | 6.59                       |                            |
| COP (Rated)                                |                       |                                 | 4.00                   | 4.02                       | 3.92                       |                            |
| SCOP                                       |                       |                                 | 3.87                   | 3.81                       | 4.07                       |                            |
| Exterior                                   | Color                 |                                 | Warm Gray              | Warm Gray                  | Warm Gray                  |                            |
|                                            | RAL Code              |                                 | RAL 7044               | RAL 7044                   | RAL 7044                   |                            |
| Heat Exchanger                             | Type                  |                                 | Wide Louver Plus       | Wide Louver Plus           | Wide Louver Plus           |                            |
|                                            | Type                  |                                 | LG Inverter Scroll     | LG Inverter Scroll         | LG Inverter Scroll         |                            |
| Compressor                                 | Combination x No.     |                                 | (Inverter) x 1         | (Inverter) x 1             | (Inverter) x 1             |                            |
|                                            | Motor Output x Number | W x No.                         | 3,198 x 1              | 3,198 x 1                  | 3,198 x 1                  |                            |
|                                            | Oil Type              |                                 | FW68D (PVE)            | FW68D (PVE)                | FW68D (PVE)                |                            |
|                                            | Oil Charge            | cc                              | 1,100                  | 1,100                      | 1,100                      |                            |
|                                            | Type                  |                                 | Axial Flow Fan         | Axial Flow Fan             | Axial Flow Fan             |                            |
| Fan                                        | Motor Output x Number | W x No.                         | 124 x 1                | 198 x 1                    | 198 x 1                    |                            |
|                                            | Air Flow Rate (High)  | m <sup>3</sup> /min x No.       | 60                     | 80                         | 80                         |                            |
|                                            | Drive                 |                                 | DC INVERTER            | DC INVERTER                | DC INVERTER                |                            |
|                                            | Discharge             | Side / Top                      | Side                   | Side                       | Side                       |                            |
|                                            | Pipe Connection       | Liquid Pipe                     | mm (inch)              | Ø9.52 (3/8)                | Ø9.52 (3/8)                | Ø9.52 (3/8)                |
|                                            | Gas Pipe              | mm (inch)                       | Ø15.88 (5/8)           | Ø15.88 (5/8)               | Ø19.05 (3/4)               |                            |
| Dimensions (W x H x D)                     |                       | mm x No.                        | 950 x 834 x 330        | 950 x 834 x 330            | 950 x 834 x 330            |                            |
| Dimensions (W x H x D) - Shipping          |                       | mm x No.                        | 1,147 x 919 x 461      | 1,147 x 919 x 461          | 1,147 x 919 x 461          |                            |
| Net Weight                                 |                       | kg x No.                        | 64.7                   | 71.6                       | 71.6                       |                            |
| Shipping Weight                            |                       | kg x No.                        | 73.7                   | 79.6                       | 79.6                       |                            |
| Sound Pressure Level                       | Cooling               | dB(A)                           | 51                     | 57                         | 57                         |                            |
|                                            | Heating               | dB(A)                           | 55                     | 60                         | 60                         |                            |
| Sound Power Level                          | Cooling               | dB(A)                           | 67                     | 70                         | 71                         |                            |
|                                            | Heating               | dB(A)                           | 71                     | 74                         | 75                         |                            |
| Communication Cable                        |                       | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5         | 2C x 1.0 - 1.5             | 2C x 1.0 - 1.5             |                            |
| Refrigerant                                | Refrigerant name      |                                 | R32                    | R32                        | R32                        |                            |
|                                            | Precharged Amount     |                                 | kg                     | 1.5                        | 2.0                        | 2.0                        |
|                                            | t-CO <sub>2</sub> eq  |                                 |                        | 1.013                      | 1.350                      | 1.350                      |
|                                            | Control               |                                 |                        | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply                               |                       | Ø, V, Hz                        | 380 - 400 - 415, 3, 50 | 380 - 400 - 415, 3, 50     | 380 - 400 - 415, 3, 50     |                            |
| Number of maximum connectable indoor units |                       |                                 | 8                      | 10                         | 13                         |                            |

Note  
 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. EUROVENT Test Condition :  
 • Performance values on the this PDB are based on Ceiling mounted cassette combination.  
 • Refer to EUROVENT web site([www.eurovent-certification.com](http://www.eurovent-certification.com)) for other indoor unit combination and more detail test conditions.  
 6. The maximum combination ratio is 160%.  
 7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

# MULTI V™ M

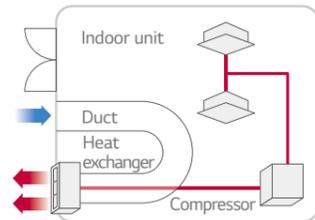
## Highlight

- Air Cooled VRF Heat Pump
- 14kW (based on cooling capacity)
- 3Ø, 380 ~ 415V, 50Hz (Compressor Module)
- 1Ø, 220 ~ 240V, 50Hz (Heat Exchanger Module)
- Outdoor unit is installed inside building

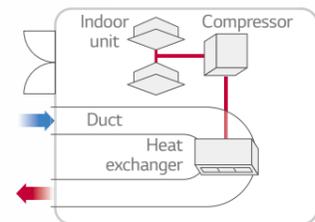
|                 |              |               |                  |
|-----------------|--------------|---------------|------------------|
|                 |              |               |                  |
| Flexible design | Cost savings | Space savings | Easy maintenance |

## How does it work?

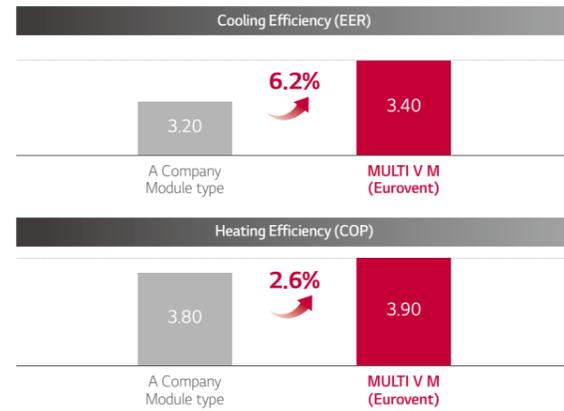
### Direct Inlet / Outlet Case



### Duct Connected Case

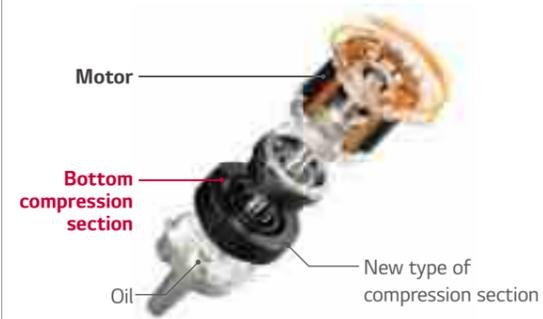


## Energy Efficiency



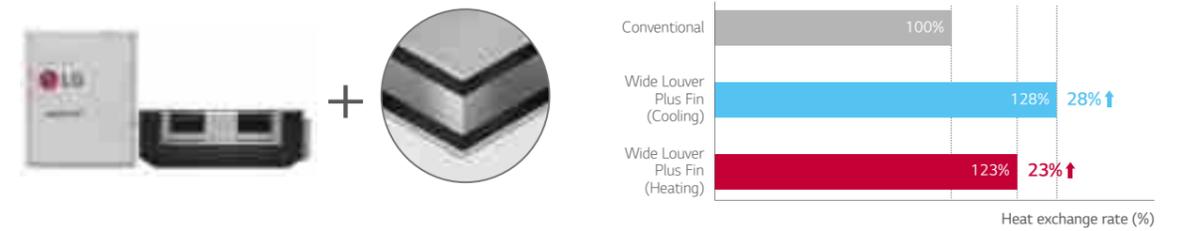
## R1 Compressor™

MULTI V M ensures world-class efficiency with innovative technology including R1 Compressor.



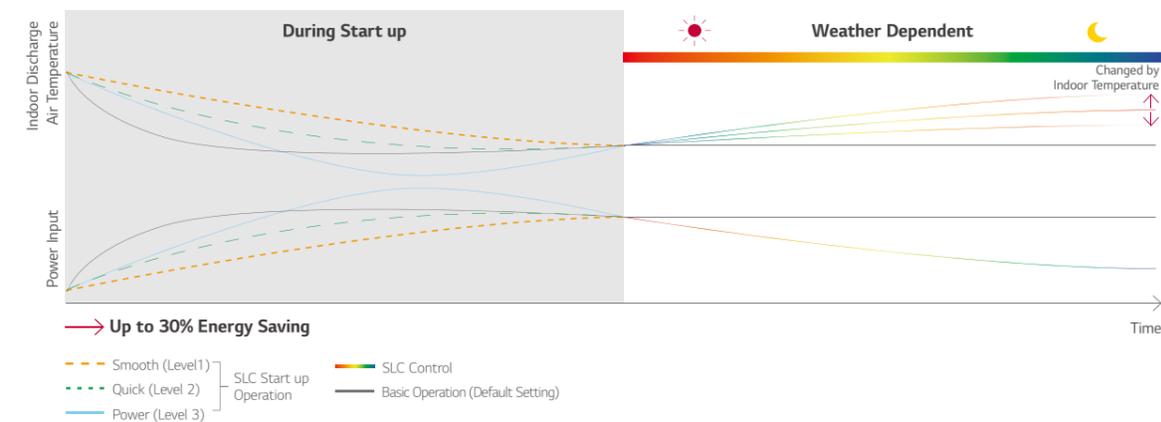
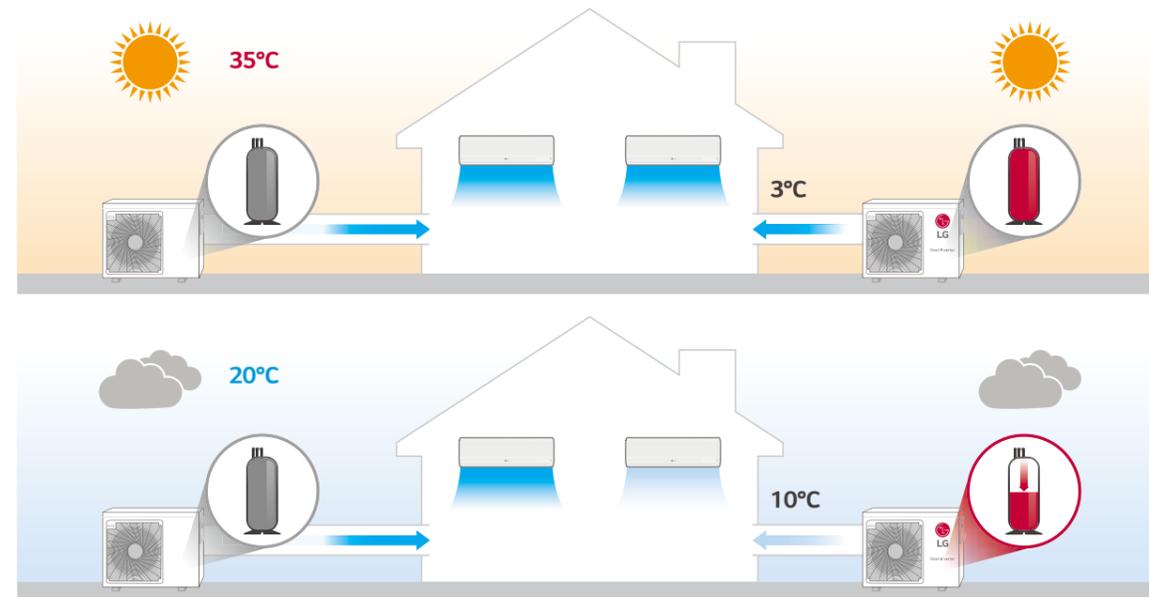
## Wide Louver Plus Fin + Corrosion Resistance

Wide Louver Plus fin technology increases efficiency and heating performance compared to conventional fin.



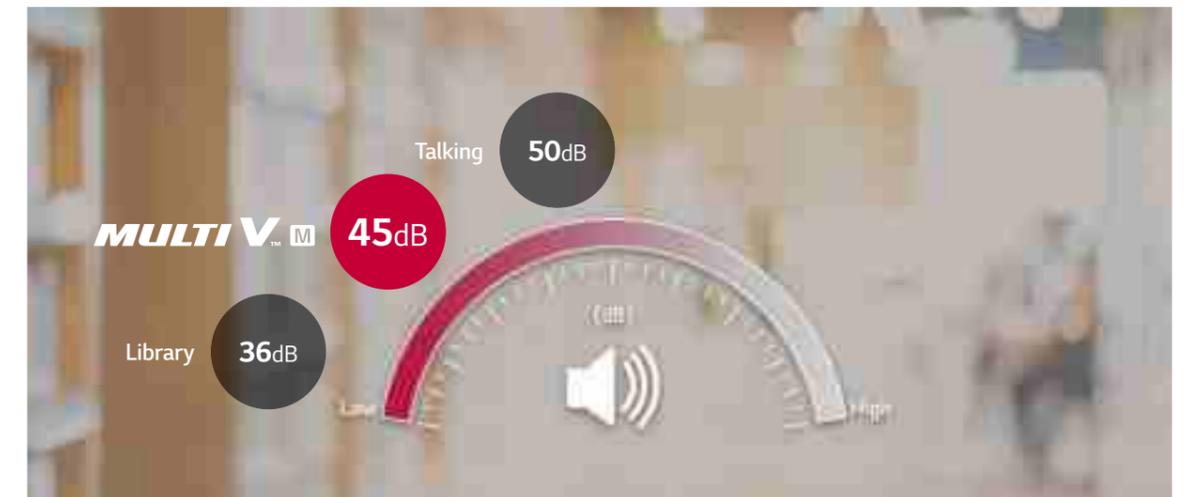
## Smart Load Control

To save operation energy consumption, automatically controls the refrigerant temperature according to outdoor temperature.



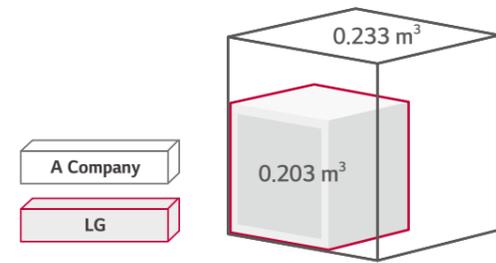
## Quiet Operation

Low sound level of both compressor module and heat exchanger module allows outdoor units to be installed and operated inside.

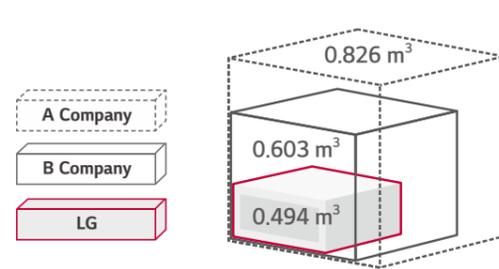


## Volume

### Compressor Module



### Heat Exchanger Module



## ESP Control

(External Static Pressure)

up to 30 Pa



Normal Mode

up to 157 Pa (max)

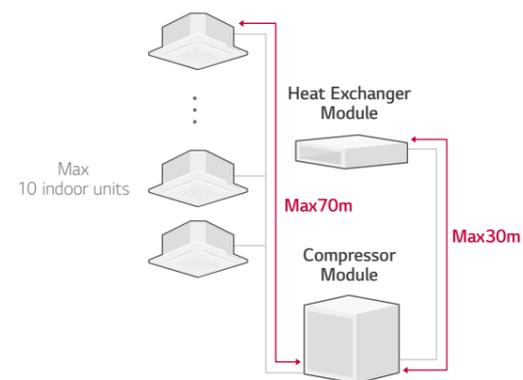


High Static Pressure Mode

## Module Type

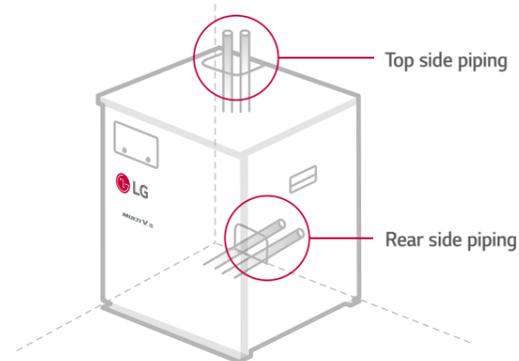
Increased design freedom

- Additional structure installation and ceiling construction not required
- Ease of service
- Compressor replacement
- Low noise with module
- Low noise by module (vs Integrated Type)



## Flexible Piping Location

Tidy & simple installation with flexible piping location.



## Increased Design Freedom

Additional structure installation or ceiling construction is not required, making compressor replacement and general maintenance easier. Split module provides low noise operation compared to integrated type.



Conventional Outdoor Unit



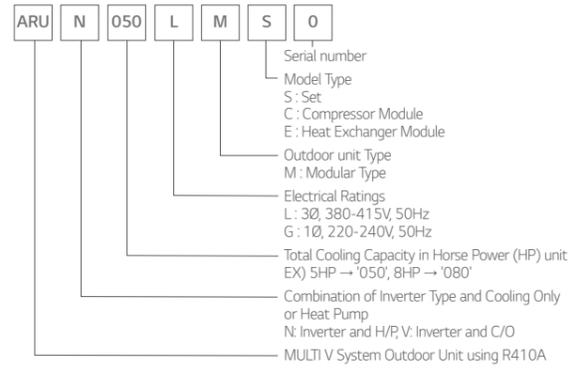
**MULTI V™ M**

Heat exchanger module can be installed in false ceiling spaces

Compressor module can be installed anywhere indoors



Nomenclature

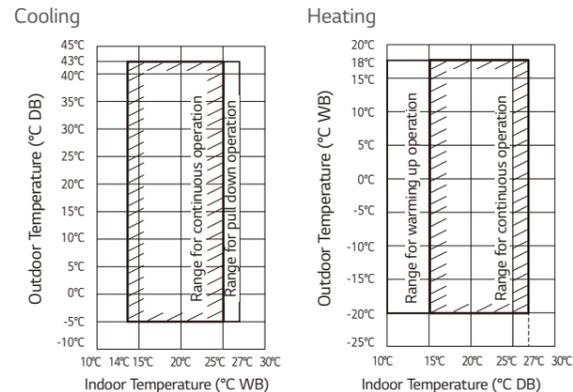


Outdoor Units Function

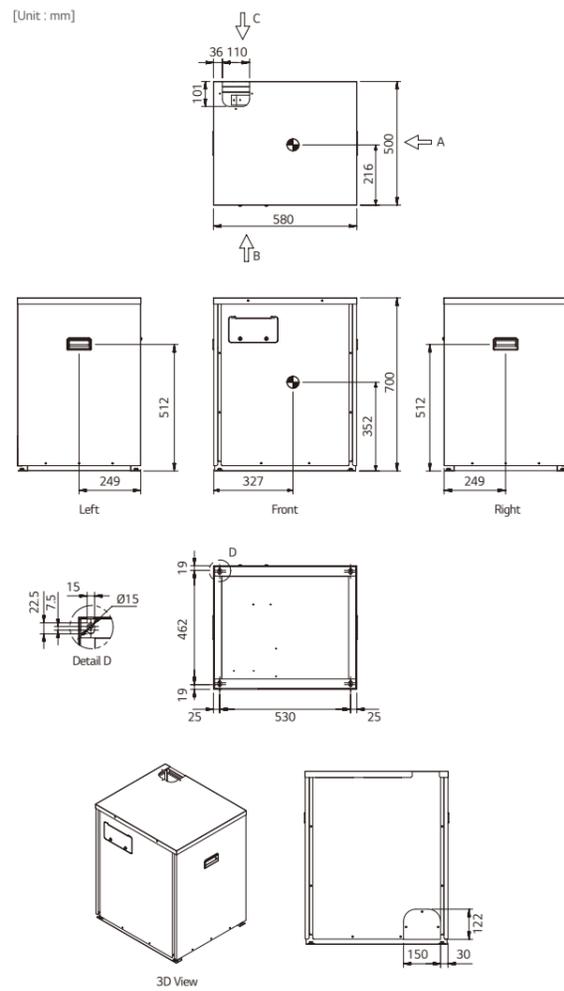
| Category                           | Functions                                                                              | Modular    |
|------------------------------------|----------------------------------------------------------------------------------------|------------|
| Key Refrigerant Components         | Variable Path of Outdoor Unit HEX                                                      | -          |
|                                    | HiPOR™ (High Pressure Oil Return)                                                      | -          |
|                                    | Humidity Sensor                                                                        | -          |
|                                    | Corrosion Resistance Black Fin                                                         | ○          |
| Useful Function                    | Oil Sensor                                                                             | -          |
|                                    | Dual Sensing                                                                           | -          |
|                                    | Low Noise Operation                                                                    | ○          |
|                                    | High Static Mode of Outdoor Unit Fan                                                   | ○          |
|                                    | Partial Defrosting                                                                     | -          |
|                                    | Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)                              | -          |
|                                    | Indoor Cooling Comfort Mode Based Outdoor Temperature                                  | -          |
|                                    | Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | ○          |
|                                    | Outdoor Unit Control Refer to Humidity                                                 | -          |
|                                    | Defrost / Deicing                                                                      | ○          |
| Reliability                        | High Pressure Switch                                                                   | ○          |
|                                    | Phase Protection                                                                       | ○          |
|                                    | Restart Delay (3-minutes)                                                              | ○          |
|                                    | Self Diagnosis                                                                         | ○          |
| Central Controller                 | Soft Start                                                                             | ○          |
|                                    | Test Run Function                                                                      | -          |
|                                    | AC Ez (Simple Controller)                                                              | PQCSZ250S0 |
|                                    | AC Ez Touch                                                                            | PACEZA000  |
|                                    | AC Smart IV                                                                            | PACS4B000  |
| BNU (Building Network Unit)        | AC Smart 5                                                                             | PACSSA000  |
|                                    | ACP (Advanced Control Platform) IV                                                     | PACP4B000  |
|                                    | ACP (Advanced Control Platform) 5                                                      | PACP5A000  |
| Installation                       | AC Manager 5                                                                           | PACM5A000  |
|                                    | ACP Lonworks                                                                           | PLNWKB000  |
| PDI (Power Distribution Indicator) | ACP BACnet                                                                             | PQNFB17C0  |
|                                    | Refrigerant Charging Kit                                                               | -          |
| Cool / Heat Selector               | Variable Water Flow Valve Control Kit                                                  | -          |
|                                    | Standard                                                                               | -          |
| IO Module (ODU Dry Contact)        | Premium                                                                                | -          |
|                                    | PRDSBM                                                                                 | -          |
| Cycle Monitoring Device            | Low Ambient Kit                                                                        | -          |
|                                    | IO Module                                                                              | PVDSMN000  |
| Mobile LGMV                        | LGVM                                                                                   | PRCTILO    |
|                                    | Mobile LGMV                                                                            | PLGMVV100  |

※ ○ : Applied, - : Not Applied

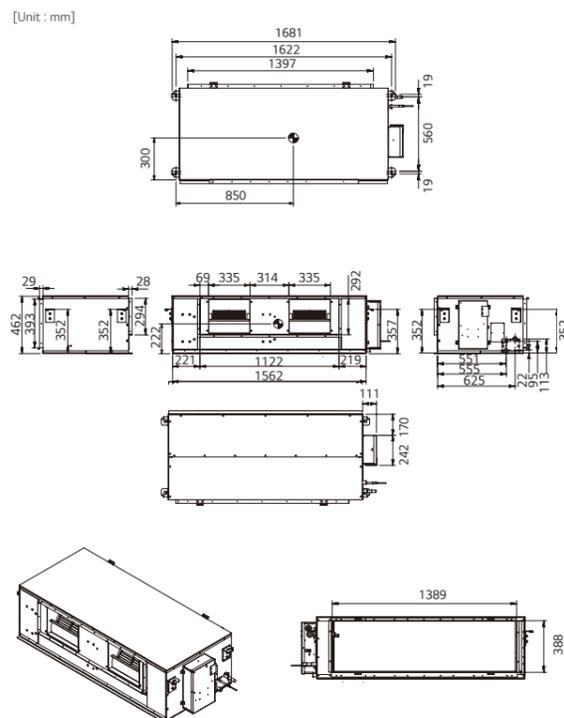
Heat Pump



Compressor Module

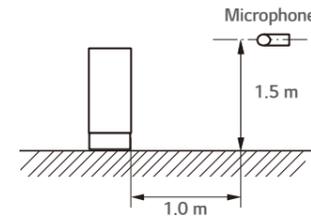


Heat Exchanger Module



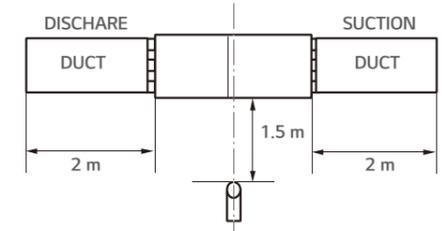
Position of Sound Pressure Level Measuring

Compressor Module



※ Measuring place : Anechoic chamber

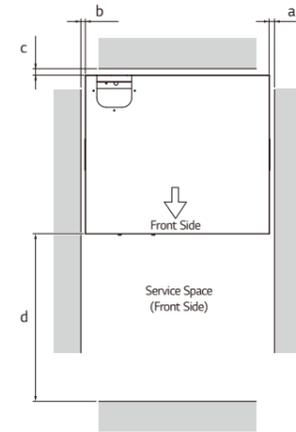
Heat Exchanger Module



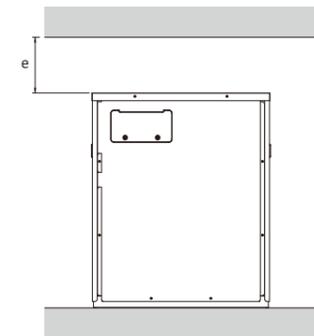
※ Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View



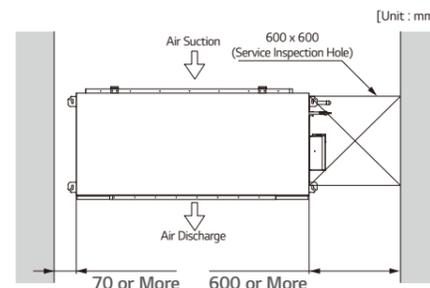
Front View



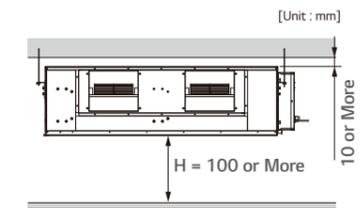
| Category          | Mark | Description | Installation Space (mm) |
|-------------------|------|-------------|-------------------------|
| Compressor Module | a    | Right       | 10 or More              |
|                   | b    | Left        | 10 or More              |
|                   | c    | Rear        | 10 or More              |
|                   | d    | Front       | 500 or More             |
|                   | e    | Top         | 200 or More             |

Installation Space for Heat Exchanger Module

Top View



Front View



## ARUN050LMCO / ARUN050GME0



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

## System

| HP                                         |                         | 5           |  |
|--------------------------------------------|-------------------------|-------------|--|
| Model Name                                 | Set                     | ARUN050LMSO |  |
|                                            | Compressor Module       | ARUN050LMCO |  |
|                                            | Heat Exchanger Module   | ARUN050GME0 |  |
| Capacity                                   | Cooling (Rated) kW      | 14.0        |  |
|                                            | Heating (Rated) kW      | 14.0        |  |
|                                            | Heating (Max) kW        | 16.0        |  |
| Input                                      | Cooling (Rated) kW      | 5.07        |  |
|                                            | Heating (Rated) kW      | 3.71        |  |
|                                            | Heating (Max) kW        | 4.32        |  |
| EER                                        | Based on Rated Capacity | 2.76        |  |
| SEER                                       |                         | 5.26        |  |
| COP                                        | Based on Rated Capacity | 3.77        |  |
|                                            | Based on Max Capacity   | 3.70        |  |
| SCOP                                       |                         | 3.85        |  |
| Number of Maximum Connectable Indoor Units |                         | 10          |  |

※ ○ : Applied, - : Not Applied

Note

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB
  - Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
  - Interconnected Pipe Length and Difference of Elevation : - Heat Exchanger Module - Compressor Module = 5m
    - Compressor Module - Indoor Unit = 7.5m
    - Difference of Elevation (Heat Exchanger Module- Compressor Module - Indoor Unit) is Zero
- The maximum combination ratio is 130%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

## ARUN050LMCO / ARUN050GME0



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

## Module

| HP                       |                              | 5                               |                                |
|--------------------------|------------------------------|---------------------------------|--------------------------------|
| Model Name               |                              | Compressor Module               | Heat Exchanger Module          |
|                          |                              | ARUN050LMCO                     | ARUN050GME0                    |
| Exterior                 | Color                        | Morning Gray                    | Galvanized Steel Plate         |
|                          | RAL Code (Classic)           | RAL 7030                        | -                              |
| Dimensions (W x H x D)   | Net                          | mm x No.                        | 580 x 700 x 500                |
|                          | Shipping                     | mm x No.                        | 618 x 833 x 564                |
| Weight                   | Net                          | kg x No.                        | 69.0                           |
|                          | Shipping                     | kg x No.                        | 76.0                           |
| Compressor               | Type                         | Hermetic Motor Compressor       |                                |
|                          | Combination x No.            | (Inverter) x 1                  |                                |
|                          | Motor Output                 | W x No.                         | 3,200                          |
|                          | Oil Type                     |                                 | FW68D (PVE)                    |
| Heat Exchanger           | Oil Charge                   | cc                              | 1,300                          |
|                          | Type                         |                                 | Wide Louver Plus               |
| Fan                      | Type                         |                                 | Sirocco Fan                    |
|                          | Motor Output x Number        | W x No.                         | 400 x 2                        |
|                          | Air Flow Rate (Rated)        | m <sup>3</sup> /min x No.       | 60                             |
| External Static Pressure | Nominal (Rated, Factory Set) | mmAq (Pa)                       | 3 (29)                         |
|                          | Max                          | mmAq (Pa)                       | 16 (157)                       |
| Pipe Connection          | Liquid                       | mm (inch)                       | Ø9.52 (3/8) to IDU             |
|                          | Gas                          | mm (inch)                       | Ø15.88 (5/8) to IDU            |
|                          | Drain                        | mm (inch)                       | Ø19.05 (3/4) to Comp. Module   |
| Sound Pressure Level     | Cooling (Rated)              | dB(A)                           | 45                             |
|                          | Heating (Rated)              | dB(A)                           | 45                             |
| Sound Power Level        |                              | dB(A)                           | -                              |
| Communication Cable      |                              | mm <sup>2</sup> x No. (VCTF-SB) | 2C x 1.0 - 1.5 to IDU          |
| Refrigerant              |                              |                                 | 2C x 1.0 - 1.5 to Comp. Module |
|                          | Refrigerant Name             |                                 | R410A                          |
|                          | Precharged Amount            | kg                              | 2.0                            |
|                          | t-CO <sub>2</sub> eq         |                                 | 4.175                          |
| Power Supply             | Control                      |                                 | Electronic Expansion Valve     |
|                          | V, Ø, Hz                     |                                 | 380-415, 3, 50                 |
|                          |                              |                                 | 220-240, 1, 50                 |

※ ○ : Applied, - : Not Applied

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
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  - Interconnected Pipe Length and Difference of Elevation : - Heat Exchanger Module - Compressor Module = 5m
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    - Difference of Elevation (Heat Exchanger Module- Compressor Module - Indoor Unit) is Zero
- The maximum combination ratio is 130%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

# MULTI V™ WATER IV

## Highlight

- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 201.6kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Outdoor unit installed indoor

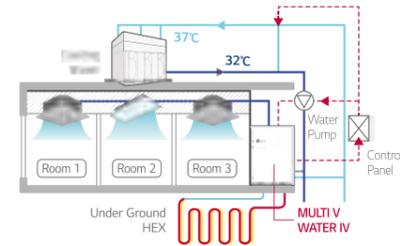
|                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |
| Energy savings                                                                    | Space savings                                                                     | Convenient installation                                                           |

## How does it work?

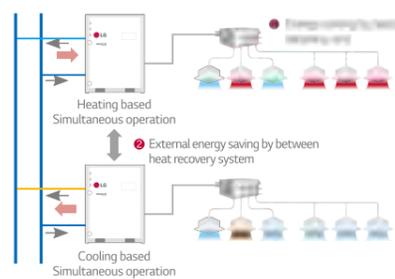
Operation independent of weather conditions



Geothermal Application



Available in Heat Pump & Heat Recovery Configuration



**40m (90m)**  
Longest piping length after 1st branch  
(Conditional application)

**150m (175m)**  
Longest piping length from ODU - IDU (Equivalent)

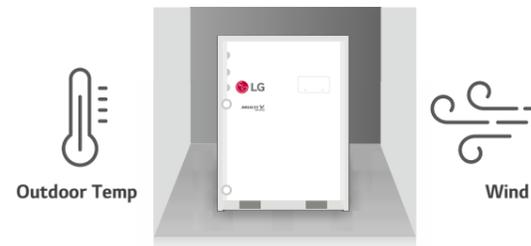
**300m (500m)**  
Total Piping Length

**40m**  
Height between IDU - IDU

**50m**  
Height between ODU - IDU

## High Efficiency System Regardless of External Conditions

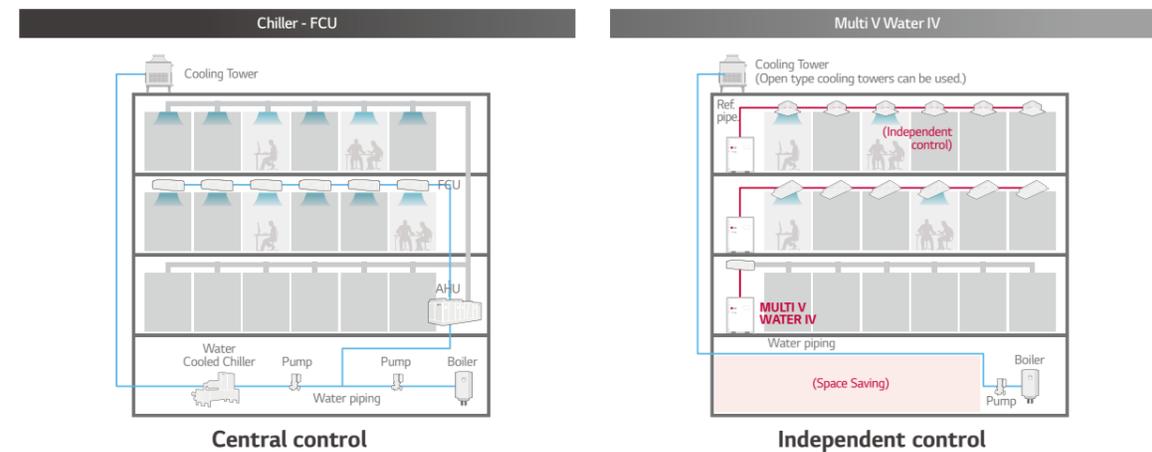
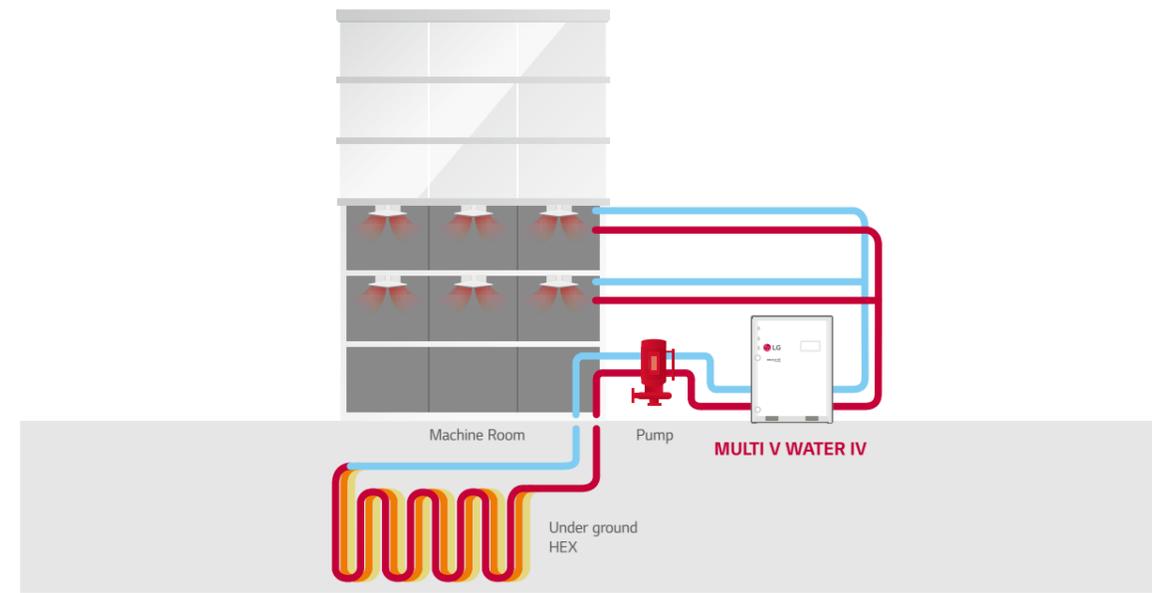
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.



## MULTI V WATER IV System for Geothermal Applications

Uses underground heat sources like soil, ground water, lakes, rivers and more as renewable energy for cooling and heating. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface.

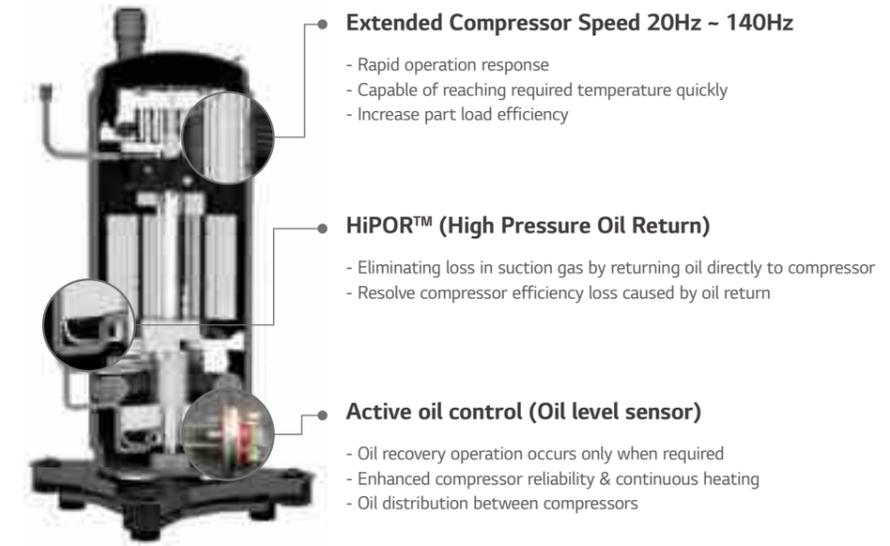
- The Circulating water temperature range is between -5°C ~ 45°C
- Antifreeze should be applied depending on the application



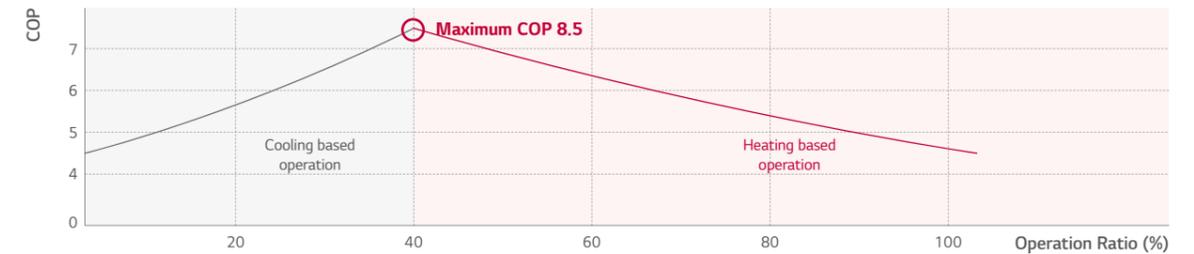
## Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

With 4<sup>th</sup> generation inverter compressor, the Multi V Water IV boasts top-class energy efficiency.

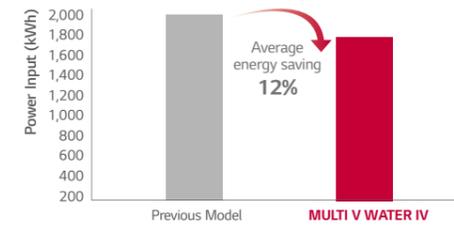


### Maximum COP

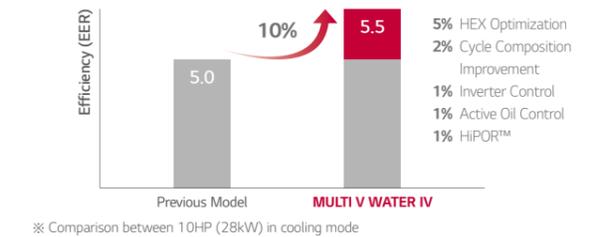


※ Outdoor unit water inlet temperature : 7°C  
 ※ Indoor temperature : 20°C DB / 15°C WB  
 ※ Maximum COP Condition : Cooling 40% + Heating 60% operation

### Economical, Highly Efficient System

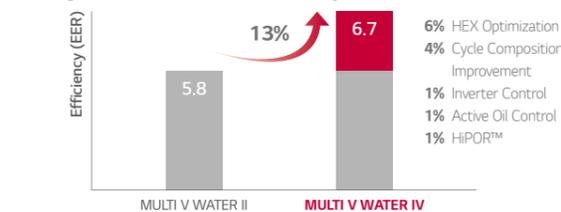


### LG's 4<sup>th</sup> Generation Inverter Compressor



※ Comparison between 10HP (28kW) in cooling mode

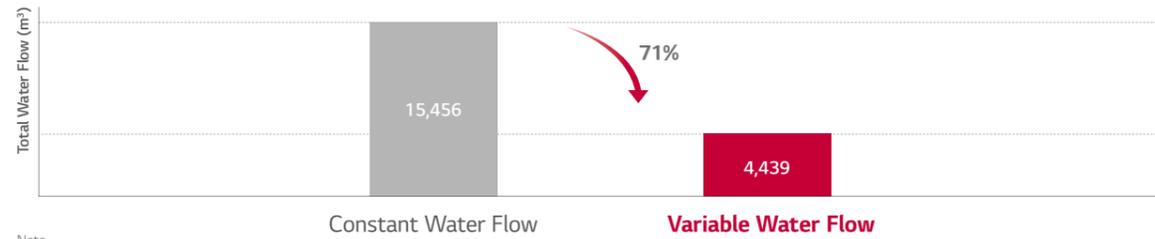
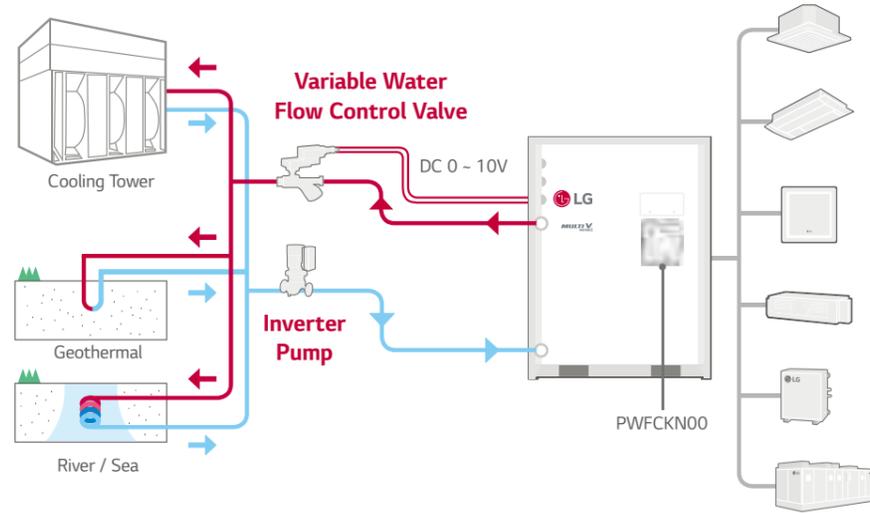
### Integrated Part Load Efficiency



# Variable Water Flow Control (OPTION)

In support of green building initiatives

The world's first variable water flow control system for water cooled VRF system. LG applied Variable Water Flow Control to optimize water flow control regarding partial cooling or heating load conditions. Because of this it's also possible to reduce circulation pump energy consumption.

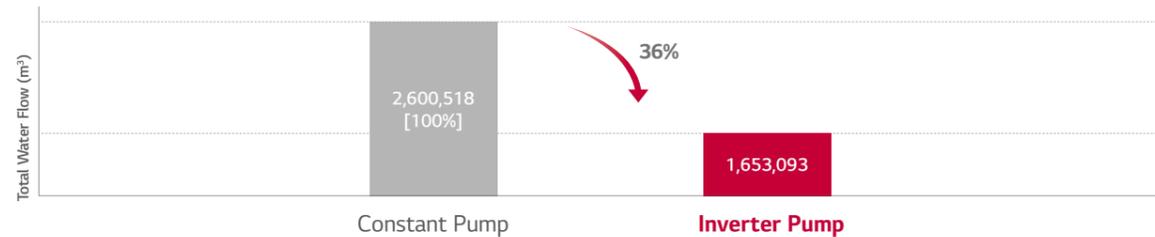


Note  
 1. Location : Paris, France  
 2. Office, 68,000m²  
 3. Operation time : 1,344 hours (Cooling period)

## Project Example : 63F (Pump : 20,064 LPM, 42.4mAq x 4ea)

- 1) Inverter pump with MULTI V Water and variable water flow control kit
- 2) Constant pump (Step control) with Water cooled VRF

### 10 years energy cost (\$)



| Unit          | 5 years          |                        | 10 years         |                        |
|---------------|------------------|------------------------|------------------|------------------------|
|               | Energy Use (kWh) | Pump Running Cost (\$) | Energy Use (kWh) | Pump Running Cost (\$) |
| Constant pump | 7,952,040        | 1,142,441              | 15,904,080       | 2,600,518              |
| Inverter pump | 5,054,940        | 726,225                | 10,109,880       | 1,653,093              |

- Power consumption rate : 0.13\$/kWh
- Annual power consumption rate expected to increase by 5%

# Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

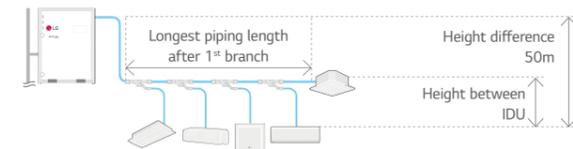
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

| HP | 8      | 10 | 14      | 20 | 22      | 24   | 28      | 30 | 34   | 40  | 42 ~ 60     | 62 ~ 80     |
|----|--------|----|---------|----|---------|------|---------|----|------|-----|-------------|-------------|
| kW | 22.4   | 28 | 39.2    | 56 | 61.6    | 67.2 | 78.4    | 84 | 95.2 | 112 | 117.6 ~ 168 | 173.6 ~ 224 |
| LG | 1 Unit |    | 2 Units |    | 3 Units |      | 4 Units |    |      |     |             |             |

# Longest Piping Length

Sufficient pipes length limitation in design and Installation for various buildings

Provide flexible installation up to 300m (500m) of total piping length. As water pipes are not connected to indoor units, users are free from water leakage problems.



|                                                                  | Total Piping Length | 300m (500m) |
|------------------------------------------------------------------|---------------------|-------------|
| Actual longest piping length (Equivalent)                        |                     | 150m (175m) |
| Longest piping length after 1st branch (Conditional application) |                     | 40m (90m)   |
| Height difference between ODU - IDU                              |                     | 50m         |
| Height difference between IDU - IDU                              |                     | 40m         |

# Compact Size

Thanks to compact size of product, it provides more space for commercial or public use as much as possible.

The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.

| Conventional                                    | Multi V Water IV                                                   |
|-------------------------------------------------|--------------------------------------------------------------------|
| <p>28kW x 4EA<br/>Per each<br/>880 x 550 mm</p> | <p>56kW x 2EA<br/>Per each<br/>755 x 500 mm</p> <p>61% Reduced</p> |
| ※ 112kW, Floor area based                       | ※ 112kW, Floor area based                                          |

# Lightweight

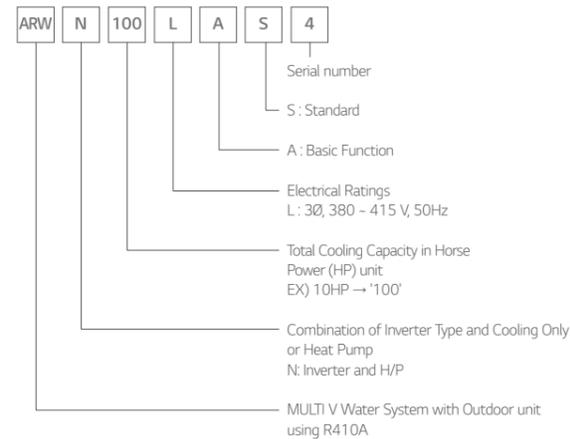
Nothing or Decrease additional load reinforcement work at building

Easier to transport and install, thanks to 18% reduction in overall weight.



※ Based on 28kW

Nomenclature

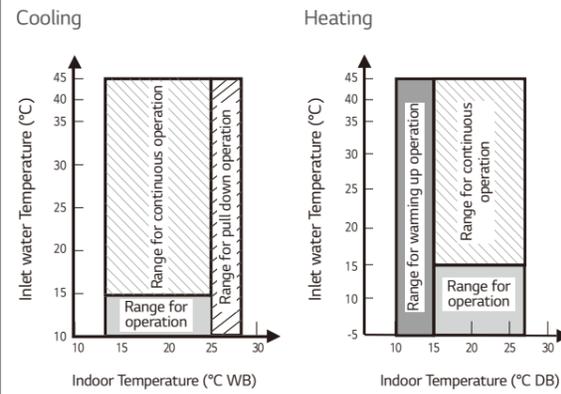


Outdoor Units Function

| Category                           | Functions                                                                              | Multi V Water IV |           |
|------------------------------------|----------------------------------------------------------------------------------------|------------------|-----------|
| Key Refrigerant Components         | Variable Path of Outdoor unit HEX                                                      | -                |           |
|                                    | HiPOR™ (High Pressure Oil Return)                                                      | ○                |           |
|                                    | Humidity Sensor                                                                        | -                |           |
|                                    | Corrosion Resistance Black Fin                                                         | -                |           |
| Useful Function                    | Oil Sensor                                                                             | ○                |           |
|                                    | Dual Sensing                                                                           | -                |           |
|                                    | Low Noise Operation                                                                    | -                |           |
|                                    | High Static Mode of Outdoor Unit Fan                                                   | -                |           |
| Reliability                        | Partial Defrosting                                                                     | -                |           |
|                                    | Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)                              | -                |           |
|                                    | Indoor Cooling Comfort Mode Based Outdoor Temperature                                  | -                |           |
|                                    | Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | -                |           |
| Central Controller                 | Outdoor Unit Control Refer to Humidity                                                 | -                |           |
|                                    | Defrost / Deicing                                                                      | -                |           |
|                                    | High Pressure Switch                                                                   | ○                |           |
|                                    | Phase Protection                                                                       | ○                |           |
| Installation                       | Restart Delay (3-minutes)                                                              | ○                |           |
|                                    | Self Diagnosis                                                                         | ○                |           |
|                                    | Soft Start                                                                             | ○                |           |
|                                    | AC Ez (Simple Controller)                                                              | PQCSZ250S0       |           |
| PDI (Power Distribution Indicator) | AC Ez Touch                                                                            | PACEZA000        |           |
|                                    | AC Smart IV                                                                            | PACS4B000        |           |
|                                    | AC Smart 5                                                                             | PACS5A000        |           |
|                                    | ACP (Advanced Control Platform) IV                                                     | PQCPC22A0        |           |
| Cool / Heat Selector               | ACP (Advanced Control Platform) 5                                                      | PACP5A000        |           |
|                                    | AC Manager 5                                                                           | PACM5A000        |           |
|                                    | BNU (Building Network Unit)                                                            | ACP Lonworks     | PLNWKB000 |
|                                    | ACP BACnet                                                                             | PQNFB17C0        |           |
| IO Module (ODU Dry Contact)        | Refrigerant Charging Kit                                                               | -                |           |
|                                    | Variable Water Flow Valve Control Kit                                                  | PWFCKN000        |           |
| Cycle Monitoring Device            | Standard                                                                               | PPWRDB000        |           |
|                                    | Premium                                                                                | PQNUD1S40        |           |
| Low Ambient Kit                    | Cool / Heat Selector                                                                   | PRDSBM           |           |
|                                    | IO Module (ODU Dry Contact)                                                            | -                |           |
| Cycle Monitoring Device            | IO Module (ODU Dry Contact)                                                            | PVDSMN000        |           |
|                                    | LGMV                                                                                   | PRCTILO          |           |
| Cycle Monitoring Device            | Mobile LGMV                                                                            | PLGMVW100        |           |

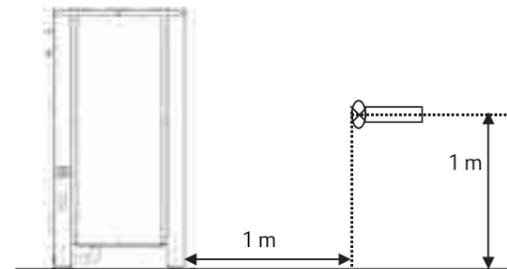
※ ○ : Applied, - : Not Applied

Operation Limits



Note  
 1. These figures assume the following operating conditions:  
 2. Equivalent piping length : 7.5m  
 3. Level difference : 0m

Position of Sound Pressure Level Measuring



Note  
 1. Data is valid at free field condition  
 2. Data is valid at nominal operating condition  
 3. Sound level will vary depending on a range of factors such as the construction (Acoustic absorption coefficient) of particular room in which the equipment is installed  
 4. Sound level can be increased in static pressure mode or air guide application.

Optional Accessories

| No. | Name                             | Model      |
|-----|----------------------------------|------------|
| 1   | Y branch pipe                    | ARBLN01621 |
|     |                                  | ARBLN03321 |
|     |                                  | ARBLN07121 |
|     |                                  | ARBLN14521 |
|     |                                  | ARBLN23220 |
| 2   | Header                           | ARBL054    |
|     |                                  | ARBL057    |
|     |                                  | ARBL104    |
|     |                                  | ARBL107    |
| 3   | Connection pipe of Outdoor Units | ARBL1010   |
|     |                                  | ARBL2010   |
|     |                                  | ARCNN21    |
|     |                                  | ARCNN31    |
|     |                                  | ARCNN41    |

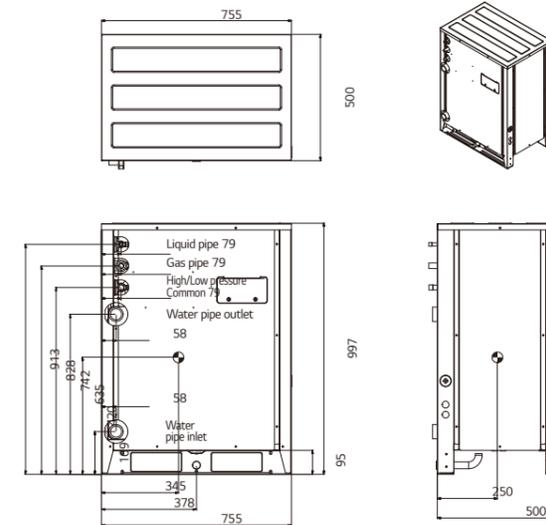
Multi V Water IV Heating Dissipation Value by Model

| Model       | HP | Heating Dissipation Value |              |              |
|-------------|----|---------------------------|--------------|--------------|
| ARWN080LAS4 | 8  | 600 W                     | 515.9 kcal/h | 0.143 kcal/s |
| ARWN100LAS4 | 10 | 630 W                     | 541.7 kcal/h | 0.150 kcal/s |
| ARWN120LAS4 | 12 | 660 W                     | 567.5 kcal/h | 0.158 kcal/s |
| ARWN140LAS4 | 14 | 690 W                     | 593.3 kcal/h | 0.165 kcal/s |
| ARWN160LAS4 | 16 | 700 W                     | 601.9 kcal/h | 0.167 kcal/s |
| ARWN180LAS4 | 18 | 720 W                     | 619.1 kcal/h | 0.172 kcal/s |
| ARWN200LAS4 | 20 | 750 W                     | 644.9 kcal/h | 0.179 kcal/s |

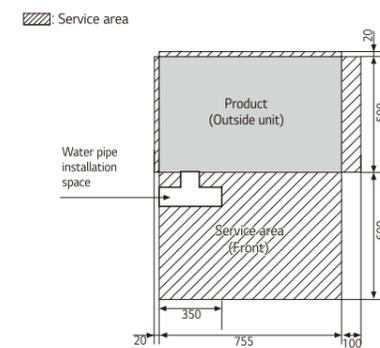
Test condition : Indoor air temperature : DB 40°C, WB : 32°C  
 ※ A design stage should be considered to ventilation system in mechanical room.

ARWN080LAS4 / ARWN100LAS4  
 ARWN140LAS4 / ARWN200LAS4

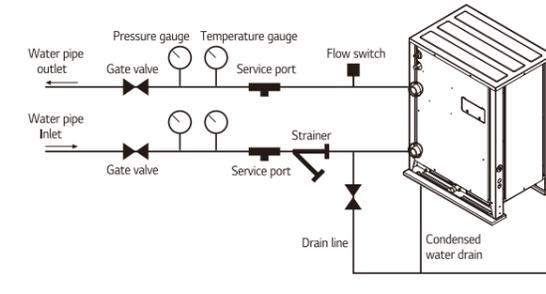
[Unit : mm]



Individual Installation



Water Piping Installation



Precaution of Installation

- Do not install the unit at the outdoors. (Installation of the unit outdoors could result in fire or electric shock.) Recommended ambient temperature of outdoor unit is between 0 ~ 40°C.
- Keep the water temperature between 10 ~ 45°C. Standard water supply temperature is 30°C for cooling and 20°C for heating.
- Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- Be careful of the **water purity control**. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product Data Book).
- The water pressure resistance of the water pipe system of this product is **1.98MPa**.
- Always install a **trap** so that the drained water does not back flush.
- Install a **pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
- Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
- Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- It is mandatory to install the **flow switch** to the water collection pipe system connecting to the outdoor unit. (Flow switch acts as the 1st protection device when the heat water is not supplied.)
- When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is **50%**.)
- To protect the water cooling type product, you must install a **strainer with 50 mesh** or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.
  - Heat water supply within the plate type heat exchanger is composed of multiple small paths.
  - If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
  - When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
  - As the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
  - As a result of the damage of the heat exchanger from the freezing, the refrigerant side and the heat water source side will be mixed to make the product unusable.

## Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application.



### Site Information

The industrial group Bouygues was established in France in 1952. It now maintains operations in 80 countries and employs more than 131,000 people. In 1988, after two years of construction, the new headquarters for Bouygues Construction was officially opened for business. Named Challenger, the complex became a technological showcase for late 20th century architecture.

### LG Solution

Bouygues decided to convert their headquarters into an eco-conscious building by significantly reducing its energy footprint. The LG MULTI V Water system was chosen as the ideal HVAC solution for this project. The system not only saves energy but also reduces water usage as it recycles water in order to regulate the temperature of the building. With LG's advanced technology, the building's water consumption was reduced by more than 70 percent.

## ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4



| HP                                         |                                 | 8                          | 10                               | 14                               |
|--------------------------------------------|---------------------------------|----------------------------|----------------------------------|----------------------------------|
| Model Name                                 | Combination Unit                | ARWN080LAS4                | ARWN100LAS4                      | ARWN140LAS4                      |
|                                            | Independent Unit                | ARWN080LAS4                | ARWN100LAS4                      | ARWN140LAS4                      |
| Capacity                                   | Cooling (Rated) kW              | 22.4                       | 28.0                             | 39.2                             |
|                                            | Heating (Rated) kW              | 25.2                       | 31.5                             | 44.1                             |
| Input                                      | Cooling (Rated) kW              | 3.86                       | 5.09                             | 7.84                             |
|                                            | Heating (Rated) kW              | 4.2                        | 5.34                             | 8.17                             |
| EER                                        |                                 | 5.80                       | 5.50                             | 5.00                             |
| COP                                        | Rated Capacity                  | 6.00                       | 5.90                             | 5.40                             |
| Exterior                                   | Color                           | Warm Gray / Morning Gray   | Warm Gray / Morning Gray         | Warm Gray / Morning Gray         |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030        | RAL 7044 / RAL 7030              | RAL 7044 / RAL 7030              |
| Heat Exchanger                             | Type                            | Stainless Steel Plate      | Stainless Steel Plate            | Stainless Steel Plate            |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>        | 45                               | 45                               |
|                                            | Head Loss                       | kPa                        | 10.7                             | 15.8                             |
|                                            | Rated Water Flow                | LPM                        | 77                               | 96                               |
| Compressor                                 | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll       | Hermetically Sealed Scroll       |
|                                            | Combination x No.               | (Inverter) x 1             | (Inverter) x 1                   | (Inverter) x 1                   |
|                                            | Motor Output x Number           | W x No.                    | 4,200 x 1                        | 4,200 x 1                        |
|                                            | Oil Type                        | FVC68D (PVE)               | FVC68D (PVE)                     | FVC68D (PVE)                     |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                  | Ø9.52 (3/8)                      | Ø9.52 (3/8)                      |
|                                            | Gas Pipe                        | mm (inch)                  | Ø22.2 (7/8)                      | Ø22.2 (7/8)                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)                   | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                   | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                   | 20A (PT 3/4) (External Thread)   | 20A (PT 3/4) (External Thread)   |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 1      | (755 x 997 x 500) x 1            | (755 x 997 x 500) x 1            |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 1    | (804 x 1,143 x 630) x 1          | (804 x 1,143 x 630) x 1          |
| Net Weight                                 | kg x No.                        | 127 x 1                    | 127 x 1                          | 127 x 1                          |
| Shipping Weight                            | kg x No.                        | 137 x 1                    | 137 x 1                          | 137 x 1                          |
| Sound Pressure Level                       | Cooling                         | dB(A)                      | 47                               | 50                               |
|                                            | Heating                         | dB(A)                      | 51                               | 53                               |
| Sound Power Level                          | Cooling                         | dB(A)                      | 59                               | 62                               |
|                                            | Heating                         | dB(A)                      | 63                               | 65                               |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C             | 1.0 - 1.5 x 2C                   | 1.0 - 1.5 x 2C                   |
| Refrigerant                                | Refrigerant Name                |                            | R410A                            | R410A                            |
|                                            | Precharged Amount in Factory    | kg                         | 5.8                              | 5.8                              |
|                                            | t-CO <sub>2</sub> eq            |                            | 12.108                           | 12.108                           |
|                                            | Control                         |                            | Electronic Expansion Valve       | Electronic Expansion Valve       |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50             | 3, 380-415, 50                   | 3, 380-415, 50                   |
| Number of Maximum Connectable Indoor Units |                                 | 13 (20)                    | 16 (25)                          | 23 (35)                          |

Note

- Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.
- Due to our policy of innovation some specifications may be changed without notification.
- Performances are based on the following conditions:
  - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
  - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
  - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
- Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWN200LAS4 / ARWN160LAS4  
ARWN180LAS4**



| HP                                         |                                 |                     | 20                               | 16                                                | 18                                                |
|--------------------------------------------|---------------------------------|---------------------|----------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWN200LAS4                      | ARWN160LAS4                                       | ARWN180LAS4                                       |
|                                            | Independent Unit                |                     | ARWN200LAS4                      | ARWN080LAS4<br>ARWN080LAS4                        | ARWN100LAS4<br>ARWN080LAS4                        |
| Capacity                                   | Cooling (Rated)                 | kW                  | 56.0                             | 44.8                                              | 50.4                                              |
|                                            | Heating (Rated)                 | kW                  | 63.0                             | 50.4                                              | 56.7                                              |
| Input                                      | Cooling (Rated)                 | kW                  | 11.20                            | 7.72                                              | 8.95                                              |
|                                            | Heating (Rated)                 | kW                  | 11.67                            | 8.40                                              | 9.54                                              |
| EER                                        |                                 |                     | 5.00                             | 5.80                                              | 5.63                                              |
| COP                                        | Rated Capacity                  |                     | 5.40                             | 6.00                                              | 5.94                                              |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray         | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030              | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate            | Stainless Steel Plate                             | Stainless Steel Plate                             |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                               | 45                                                | 45                                                |
|                                            | Head Loss                       | kPa                 | 30.1                             | 10.7 + 10.7                                       | 15.8 + 10.7                                       |
|                                            | Rated Water Flow                | LPM                 | 192                              | 77 + 77                                           | 96 + 77                                           |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll       | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        |
|                                            | Combination x No.               |                     | (Inverter) x 1                   | (Inverter) x 2                                    | (Inverter) x 2                                    |
|                                            | Motor Output x Number           | W x No.             | 5,300 x 1                        | 4,200 x 2                                         | 4,200 x 2                                         |
|                                            | Oil Type                        |                     | FVC68D (PVE)                     | FVC68D (PVE)                                      | FVC68D (PVE)                                      |
|                                            | Oil Charge                      | cc                  | 3,000                            | 5,600                                             | 5,600                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø12.7 (1/2)                      | Ø12.7 (1/2)                                       | Ø12.7 (1/2)                                       |
|                                            | Gas Pipe                        | mm (inch)           | Ø28.58 (1-1/8)                   | Ø28.58 (1-1/8)                                    | Ø28.58 (1-1/8)                                    |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)            | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)   | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 1            | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 1          | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           |
| Net Weight                                 | kg x No.                        |                     | 140 x 1                          | 127 x 2                                           | 127 x 2                                           |
| Shipping Weight                            | kg x No.                        |                     | 150 x 1                          | 137 x 2                                           | 137 x 2                                           |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 54                               | 50                                                | 52                                                |
|                                            | Heating                         | dB(A)               | 60                               | 54                                                | 55                                                |
| Sound Power Level                          | Cooling                         | dB(A)               | 66                               | 62                                                | 64                                                |
|                                            | Heating                         | dB(A)               | 72                               | 66                                                | 67                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                   | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    |
| Refrigerant                                | Refrigerant Name                |                     | R410A                            | R410A                                             | R410A                                             |
|                                            | Precharged Amount in Factory    | kg                  | 3.0                              | 11.6                                              | 11.6                                              |
|                                            | t-CO <sub>2</sub> eq            |                     | 6.263                            | 24.215                                            | 24.215                                            |
|                                            | Control                         |                     | Electronic Expansion Valve       | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        |                     | 3, 380-415, 50                   | 3, 380-415, 50                                    | 3, 380-415, 50                                    |
| Number of Maximum Connectable Indoor Units |                                 |                     | 32 (50)                          | 26 (40)                                           | 29 (45)                                           |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWN220LAS4 / ARWN240LAS4  
ARWN280LAS4**



| HP                                         |                                 |                     | 22                                                | 24                                                | 28                                                |
|--------------------------------------------|---------------------------------|---------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWN220LAS4                                       | ARWN240LAS4                                       | ARWN280LAS4                                       |
|                                            | Independent Unit                |                     | ARWN140LAS4<br>ARWN080LAS4                        | ARWN140LAS4<br>ARWN100LAS4                        | ARWN140LAS4<br>ARWN140LAS4                        |
| Capacity                                   | Cooling (Rated)                 | kW                  | 61.6                                              | 67.2                                              | 78.4                                              |
|                                            | Heating (Rated)                 | kW                  | 69.3                                              | 75.6                                              | 88.2                                              |
| Input                                      | Cooling (Rated)                 | kW                  | 11.70                                             | 12.93                                             | 15.68                                             |
|                                            | Heating (Rated)                 | kW                  | 12.37                                             | 13.51                                             | 16.34                                             |
| EER                                        |                                 |                     | 5.26                                              | 5.20                                              | 5.00                                              |
| COP                                        | Rated Capacity                  |                     | 5.60                                              | 5.60                                              | 5.40                                              |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate                             | Stainless Steel Plate                             | Stainless Steel Plate                             |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                                                | 45                                                | 45                                                |
|                                            | Head Loss                       | kPa                 | 28.6 + 10.7                                       | 28.6 + 15.8                                       | 28.6 + 28.6                                       |
|                                            | Rated Water Flow                | LPM                 | 135 + 77                                          | 135 + 96                                          | 135 + 135                                         |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        |
|                                            | Combination x No.               |                     | (Inverter) x 2                                    | (Inverter) x 2                                    | (Inverter) x 2                                    |
|                                            | Motor Output x Number           | W x No.             | 4,200 x 2                                         | 4,200 x 2                                         | 4,200 x 2                                         |
|                                            | Oil Type                        |                     | FVC68D (PVE)                                      | FVC68D (PVE)                                      | FVC68D (PVE)                                      |
|                                            | Oil Charge                      | cc                  | 5,600                                             | 5,600                                             | 5,600                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      |
|                                            | Gas Pipe                        | mm (inch)           | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           |
| Net Weight                                 | kg x No.                        |                     | 127 x 2                                           | 127 x 2                                           | 127 x 2                                           |
| Shipping Weight                            | kg x No.                        |                     | 137 x 2                                           | 137 x 2                                           | 137 x 2                                           |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 58                                                | 59                                                | 59                                                |
|                                            | Heating                         | dB(A)               | 58                                                | 58                                                | 58                                                |
| Sound Power Level                          | Cooling                         | dB(A)               | 70                                                | 71                                                | 72                                                |
|                                            | Heating                         | dB(A)               | 70                                                | 70                                                | 71                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    |
| Refrigerant                                | Refrigerant Name                |                     | R410A                                             | R410A                                             | R410A                                             |
|                                            | Precharged Amount in Factory    | kg                  | 11.6                                              | 11.6                                              | 11.6                                              |
|                                            | t-CO <sub>2</sub> eq            |                     | 24.215                                            | 24.215                                            | 24.215                                            |
|                                            | Control                         |                     | Electronic Expansion Valve                        | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        |                     | 3, 380-415, 50                                    | 3, 380-415, 50                                    | 3, 380-415, 50                                    |
| Number of Maximum Connectable Indoor Units |                                 |                     | 35 (44)                                           | 39 (48)                                           | 45 (56)                                           |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN300LAS4 / ARWN340LAS4  
ARWN400LAS4



| HP                                         |                                 | 30                         | 34                                                | 40                                                |                                                   |
|--------------------------------------------|---------------------------------|----------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWN300LAS4                | ARWN340LAS4                                       | ARWN400LAS4                                       |                                                   |
|                                            | Independent Unit                | ARWN200LAS4<br>ARWN100LAS4 | ARWN200LAS4<br>ARWN140LAS4                        | ARWN200LAS4<br>ARWN140LAS4                        |                                                   |
| Capacity                                   | Cooling (Rated) kW              | 84.0                       | 95.2                                              | 112.0                                             |                                                   |
|                                            | Heating (Rated) kW              | 94.5                       | 107.1                                             | 126.0                                             |                                                   |
| Input                                      | Cooling (Rated) kW              | 16.29                      | 19.04                                             | 22.40                                             |                                                   |
|                                            | Heating (Rated) kW              | 17.01                      | 19.84                                             | 23.34                                             |                                                   |
| EER                                        |                                 | 5.16                       | 5.00                                              | 5.00                                              |                                                   |
| COP                                        | Rated Capacity                  | 5.56                       | 5.40                                              | 5.40                                              |                                                   |
| Exterior                                   | Color                           | Warm Gray / Morning Gray   | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          |                                                   |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030        | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               |                                                   |
| Heat Exchanger                             | Type                            | Stainless Steel Plate      | Stainless Steel Plate                             | Stainless Steel Plate                             |                                                   |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>        | 45                                                | 45                                                |                                                   |
|                                            | Head Loss                       | kPa                        | 30.1 + 15.8                                       | 30.1 + 28.6                                       | 30.1 + 30.1                                       |
|                                            | Rated Water Flow                | LPM                        | 192 + 96                                          | 192 + 135                                         | 192 + 192                                         |
| Compressor                                 | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        |                                                   |
|                                            | Combination x No.               | (Inverter) x 2             | (Inverter) x 2                                    | (Inverter) x 2                                    |                                                   |
|                                            | Motor Output x Number           | W x No.                    | 5,300 x 1 + 4,200 x 1                             | 5,300 x 1 + 4,200 x 1                             | 5,300 x 2                                         |
|                                            | Oil Type                        | FVC68D (PVE)               | FVC68D (PVE)                                      | FVC68D (PVE)                                      |                                                   |
|                                            | Oil Charge                      | cc                         | 5,800                                             | 5,800                                             | 6,000                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                  | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      |
|                                            | Gas Pipe                        | mm (inch)                  | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     | Ø41.3 (1-5/8)                                     |
| Water Connecting Pipes                     | Inlet                           | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                   | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 2      | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             |                                                   |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 2    | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           |                                                   |
| Net Weight                                 | kg x No.                        | (140 x 1) + (127 x 1)      | (140 x 1) + (127 x 1)                             | 140 x 2                                           |                                                   |
| Shipping Weight                            | kg x No.                        | (150 x 1) + (137 x 1)      | (150 x 1) + (137 x 1)                             | 150 x 2                                           |                                                   |
| Sound Pressure Level                       | Cooling                         | dB(A)                      | 55                                                | 59                                                | 55                                                |
|                                            | Heating                         | dB(A)                      | 61                                                | 61                                                | 61                                                |
| Sound Power Level                          | Cooling                         | dB(A)                      | 67                                                | 72                                                | 68                                                |
|                                            | Heating                         | dB(A)                      | 73                                                | 74                                                | 74                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C             | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    |                                                   |
| Refrigerant                                | Refrigerant Name                | R410A                      | R410A                                             | R410A                                             |                                                   |
|                                            | Precharged Amount in Factory    | kg                         | 8.8                                               | 8.8                                               | 6.0                                               |
|                                            | t-CO <sub>2</sub> eq            |                            | 18.370                                            | 18.370                                            | 12.525                                            |
|                                            | Control                         |                            | Electronic Expansion Valve                        | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50             | 3, 380-415, 50                                    | 3, 380-415, 50                                    |                                                   |
| Number of Maximum Connectable Indoor Units |                                 | 49 (60)                    | 55 (64)                                           | 64                                                |                                                   |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN420LAS4 / ARWN440LAS4  
ARWN480LAS4



| HP                                         |                                 | 42                                        | 44                                                                 | 48                                                                 |                                                                    |
|--------------------------------------------|---------------------------------|-------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWN420LAS4                               | ARWN440LAS4                                                        | ARWN480LAS4                                                        |                                                                    |
|                                            | Independent Unit                | ARWN200LAS4<br>ARWN140LAS4<br>ARWN080LAS4 | ARWN200LAS4<br>ARWN140LAS4<br>ARWN100LAS4                          | ARWN200LAS4<br>ARWN140LAS4<br>ARWN140LAS4                          |                                                                    |
| Capacity                                   | Cooling (Rated) kW              | 117.6                                     | 123.2                                                              | 134.4                                                              |                                                                    |
|                                            | Heating (Rated) kW              | 132.3                                     | 138.6                                                              | 151.2                                                              |                                                                    |
| Input                                      | Cooling (Rated) kW              | 22.9                                      | 24.13                                                              | 26.88                                                              |                                                                    |
|                                            | Heating (Rated) kW              | 24.04                                     | 25.18                                                              | 28.01                                                              |                                                                    |
| EER                                        |                                 | 5.14                                      | 5.11                                                               | 5.00                                                               |                                                                    |
| COP                                        | Rated Capacity                  | 5.50                                      | 5.50                                                               | 5.40                                                               |                                                                    |
| Exterior                                   | Color                           | Warm Gray / Morning Gray                  | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           |                                                                    |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030                       | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                |                                                                    |
| Heat Exchanger                             | Type                            | Stainless Steel Plate                     | Stainless Steel Plate                                              | Stainless Steel Plate                                              |                                                                    |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>                       | 45                                                                 | 45                                                                 |                                                                    |
|                                            | Head Loss                       | kPa                                       | 30.1 + 28.6 + 10.7                                                 | 30.1 + 28.6 + 15.8                                                 | 30.1 + 28.6 + 28.6                                                 |
|                                            | Rated Water Flow                | LPM                                       | 192 + 135 + 77                                                     | 192 + 135 + 96                                                     | 192 + 135 + 135                                                    |
| Compressor                                 | Type                            | Hermetically Sealed Scroll                | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         |                                                                    |
|                                            | Combination x No.               | (Inverter) x 3                            | (Inverter) x 3                                                     | (Inverter) x 3                                                     |                                                                    |
|                                            | Motor Output x Number           | W x No.                                   | 5,300 x 1 + 4,200 x 2                                              | 5,300 x 1 + 4,200 x 2                                              | 5,300 x 1 + 4,200 x 2                                              |
|                                            | Oil Type                        | FVC68D (PVE)                              | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       |                                                                    |
|                                            | Oil Charge                      | cc                                        | 8,600                                                              | 8,600                                                              | 8,600                                                              |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                                 | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       |
|                                            | Gas Pipe                        | mm (inch)                                 | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)                                  | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                                  | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                                  | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 3                     | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              |                                                                    |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 3                   | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            |                                                                    |
| Net Weight                                 | kg x No.                        | (140 x 1) + (127 x 2)                     | (140 x 1) + (127 x 2)                                              | (140 x 1) + (127 x 2)                                              |                                                                    |
| Shipping Weight                            | kg x No.                        | (150 x 1) + (137 x 2)                     | (150 x 1) + (137 x 2)                                              | (150 x 1) + (137 x 2)                                              |                                                                    |
| Sound Pressure Level                       | Cooling                         | dB(A)                                     | 60                                                                 | 60                                                                 | 60                                                                 |
|                                            | Heating                         | dB(A)                                     | 62                                                                 | 62                                                                 | 62                                                                 |
| Sound Power Level                          | Cooling                         | dB(A)                                     | 72                                                                 | 72                                                                 | 74                                                                 |
|                                            | Heating                         | dB(A)                                     | 74                                                                 | 74                                                                 | 76                                                                 |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C                            | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     |                                                                    |
| Refrigerant                                | Refrigerant Name                | R410A                                     | R410A                                                              | R410A                                                              |                                                                    |
|                                            | Precharged Amount in Factory    | kg                                        | 14.6                                                               | 14.6                                                               | 14.6                                                               |
|                                            | t-CO <sub>2</sub> eq            |                                           | 30.478                                                             | 30.478                                                             | 30.478                                                             |
|                                            | Control                         |                                           | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50                            | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     |                                                                    |
| Number of Maximum Connectable Indoor Units |                                 | 64                                        | 64                                                                 | 64                                                                 |                                                                    |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWN500LAS4 / ARWN540LAS4  
ARWN600LAS4**



| HP                                         |                                 |                     | 50                                                                 | 54                                                                 | 60                                                                 |
|--------------------------------------------|---------------------------------|---------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWN500LAS4                                                        | ARWN540LAS4                                                        | ARWN600LAS4                                                        |
|                                            | Independent Unit                |                     | ARWN200LAS4<br>ARWN200LAS4<br>ARWN100LAS4                          | ARWN200LAS4<br>ARWN200LAS4<br>ARWN140LAS4                          | ARWN200LAS4<br>ARWN200LAS4<br>ARWN200LAS4                          |
| Capacity                                   | Cooling (Rated)                 | kW                  | 140.0                                                              | 151.2                                                              | 168.0                                                              |
|                                            | Heating (Rated)                 | kW                  | 157.5                                                              | 170.1                                                              | 189.0                                                              |
| Input                                      | Cooling (Rated)                 | kW                  | 27.49                                                              | 30.24                                                              | 33.60                                                              |
|                                            | Heating (Rated)                 | kW                  | 28.68                                                              | 31.51                                                              | 35.01                                                              |
| EER                                        |                                 |                     | 5.09                                                               | 5.00                                                               | 5.00                                                               |
| COP                                        | Rated Capacity                  |                     | 5.49                                                               | 5.40                                                               | 5.40                                                               |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate                                              | Stainless Steel Plate                                              | Stainless Steel Plate                                              |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                                                                 | 45                                                                 | 45                                                                 |
|                                            | Head Loss                       | kPa                 | 30.1 + 30.1 + 15.8                                                 | 30.1 + 28.6 + 28.6                                                 | 30.1 + 30.1 + 30.1                                                 |
|                                            | Rated Water Flow                | LPM                 | 192 + 192 + 96                                                     | 192 + 192 + 135                                                    | 192 + 192 + 192                                                    |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         |
|                                            | Combination x No.               |                     | (Inverter) x 3                                                     | (Inverter) x 3                                                     | (Inverter) x 3                                                     |
|                                            | Motor Output x Number           | W x No.             | 5,300 x 2 + 4,200 x 1                                              | 5,300 x 2 + 4,200 x 1                                              | 5,300 x 3                                                          |
|                                            | Oil Type                        |                     | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       |
|                                            | Oil Charge                      | cc                  | 8,800                                                              | 8,800                                                              | 9,000                                                              |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       |
|                                            | Gas Pipe                        | mm (inch)           | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            |
| Net Weight                                 | kg x No.                        |                     | (140 x 2) + (127 x 1)                                              | (140 x 2) + (127 x 1)                                              | 140 x 3                                                            |
| Shipping Weight                            | kg x No.                        |                     | (150 x 2) + (137 x 1)                                              | (150 x 2) + (137 x 1)                                              | 150 x 3                                                            |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 58                                                                 | 60                                                                 | 56                                                                 |
|                                            | Heating                         | dB(A)               | 63                                                                 | 62                                                                 | 62                                                                 |
| Sound Power Level                          | Cooling                         | dB(A)               | 70                                                                 | 74                                                                 | 70                                                                 |
|                                            | Heating                         | dB(A)               | 75                                                                 | 76                                                                 | 76                                                                 |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     |
| Refrigerant                                | Refrigerant Name                |                     | R410A                                                              | R410A                                                              | R410A                                                              |
|                                            | Precharged Amount in Factory    |                     | 11.8                                                               | 11.8                                                               | 9.0                                                                |
|                                            | t-CO <sub>2</sub> eq            |                     | 24.633                                                             | 24.633                                                             | 18.788                                                             |
|                                            | Control                         |                     | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         |
| Power Supply                               | Ø, V, Hz                        |                     | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     |
| Number of Maximum Connectable Indoor Units |                                 |                     | 64                                                                 | 64                                                                 | 64                                                                 |

- Note
- Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
  - Due to our policy of innovation some specifications may be changed without notification
  - Performances are based on the following conditions
    - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
    - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
    - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
  - This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
  - Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWN620LAS4 / ARWN640LAS4  
ARWN680LAS4**



| HP                                         |                                 |                     | 62                                                       | 64                                                       | 68                                                       |
|--------------------------------------------|---------------------------------|---------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWN620LAS4                                              | ARWN640LAS4                                              | ARWN680LAS4                                              |
|                                            | Independent Unit                |                     | ARWN200LAS4<br>ARWN200LAS4<br>ARWN140LAS4<br>ARWN080LAS4 | ARWN200LAS4<br>ARWN200LAS4<br>ARWN140LAS4<br>ARWN100LAS4 | ARWN200LAS4<br>ARWN200LAS4<br>ARWN140LAS4<br>ARWN140LAS4 |
| Capacity                                   | Cooling (Rated)                 | kW                  | 173.6                                                    | 179.2                                                    | 190.4                                                    |
|                                            | Heating (Rated)                 | kW                  | 195.3                                                    | 201.6                                                    | 214.2                                                    |
| Input                                      | Cooling (Rated)                 | kW                  | 34.10                                                    | 35.33                                                    | 38.08                                                    |
|                                            | Heating (Rated)                 | kW                  | 35.71                                                    | 36.85                                                    | 39.68                                                    |
| EER                                        |                                 |                     | 5.09                                                     | 5.07                                                     | 5.00                                                     |
| COP                                        | Rated Capacity                  |                     | 5.47                                                     | 5.47                                                     | 5.40                                                     |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate                                    | Stainless Steel Plate                                    | Stainless Steel Plate                                    |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                                                       | 45                                                       | 45                                                       |
|                                            | Head Loss                       | kPa                 | 30.1 + 30.1 + 28.6 + 10.7                                | 30.1 + 30.1 + 28.6 + 15.8                                | 30.1 + 30.1 + 28.6 + 28.6                                |
|                                            | Rated Water Flow                | LPM                 | 192 + 192 + 135 + 77                                     | 192 + 192 + 135 + 96                                     | 192 + 192 + 135 + 135                                    |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               |
|                                            | Combination x No.               |                     | (Inverter) x 4                                           | (Inverter) x 4                                           | (Inverter) x 4                                           |
|                                            | Motor Output x Number           | W x No.             | 5,300 x 2 + 4,200 x 2                                    | 5,300 x 2 + 4,200 x 2                                    | 5,300 x 2 + 4,200 x 2                                    |
|                                            | Oil Type                        |                     | FVC68D (PVE)                                             | FVC68D (PVE)                                             | FVC68D (PVE)                                             |
|                                            | Oil Charge                      | cc                  | 11,600                                                   | 11,600                                                   | 11,600                                                   |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              |
|                                            | Gas Pipe                        | mm (inch)           | Ø44.5 (1-3/4)                                            | Ø44.5 (1-3/4)                                            | Ø53.98 (2-1/8)                                           |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                            | Outlet                          | A (inch)            | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  |
| Net Weight                                 | kg x No.                        |                     | (140 x 2) + (127 x 2)                                    | (140 x 2) + (127 x 2)                                    | (140 x 2) + (127 x 2)                                    |
| Shipping Weight                            | kg x No.                        |                     | (150 x 2) + (137 x 2)                                    | (150 x 2) + (137 x 2)                                    | (150 x 2) + (137 x 2)                                    |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 61                                                       | 61                                                       | 61                                                       |
|                                            | Heating                         | dB(A)               | 64                                                       | 64                                                       | 63                                                       |
| Sound Power Level                          | Cooling                         | dB(A)               | 73                                                       | 73                                                       | 75                                                       |
|                                            | Heating                         | dB(A)               | 76                                                       | 76                                                       | 77                                                       |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           |
| Refrigerant                                | Refrigerant Name                |                     | R410A                                                    | R410A                                                    | R410A                                                    |
|                                            | Precharged Amount in Factory    |                     | 17.6                                                     | 17.6                                                     | 17.6                                                     |
|                                            | t-CO <sub>2</sub> eq            |                     | 36.740                                                   | 36.740                                                   | 36.740                                                   |
|                                            | Control                         |                     | Electronic Expansion Valve                               | Electronic Expansion Valve                               | Electronic Expansion Valve                               |
| Power Supply                               | Ø, V, Hz                        |                     | 3, 380-415, 50                                           | 3, 380-415, 50                                           | 3, 380-415, 50                                           |
| Number of Maximum Connectable Indoor Units |                                 |                     | 64                                                       | 64                                                       | 64                                                       |

- Note
- Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
  - Due to our policy of innovation some specifications may be changed without notification
  - Performances are based on the following conditions
    - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
    - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
    - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
  - This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
  - Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWN700LAS4 / ARWN740LAS4  
ARWN800LAS4**



| HP                                                       |                                                 | 70                                                       | 74                                                       | 80                                                       |
|----------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Model Name                                               | Combination Unit                                | ARWN700LAS4                                              | ARWN740LAS4                                              | ARWN800LAS4                                              |
|                                                          | Independent Unit                                | ARWN200LAS4<br>ARWN200LAS4<br>ARWN200LAS4<br>ARWN100LAS4 | ARWN200LAS4<br>ARWN200LAS4<br>ARWN200LAS4<br>ARWN140LAS4 | ARWN200LAS4<br>ARWN200LAS4<br>ARWN200LAS4<br>ARWN200LAS4 |
| Capacity                                                 | Cooling (Rated) kW                              | 196.0                                                    | 207.2                                                    | 224.0                                                    |
|                                                          | Heating (Rated) kW                              | 220.5                                                    | 233.1                                                    | 252.0                                                    |
| Input                                                    | Cooling (Rated) kW                              | 38.69                                                    | 41.44                                                    | 44.80                                                    |
|                                                          | Heating (Rated) kW                              | 40.35                                                    | 43.18                                                    | 46.68                                                    |
| EER                                                      |                                                 | 5.07                                                     | 5.00                                                     | 5.00                                                     |
| COP                                                      | Rated Capacity                                  | 5.46                                                     | 5.40                                                     | 5.40                                                     |
| Exterior                                                 | Color                                           | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 |
|                                                          | RAL Code (Classic)                              | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      |
| Heat Exchanger                                           | Type                                            | Stainless Steel Plate                                    | Stainless Steel Plate                                    | Stainless Steel Plate                                    |
|                                                          | Maximum Pressure Resistance kgf/cm <sup>2</sup> | 45                                                       | 45                                                       | 45                                                       |
|                                                          | Head Loss kPa                                   | 30.1 + 30.1 + 30.1 + 15.8                                | 30.1 + 30.1 + 30.1 + 28.6                                | 30.1 + 30.1 + 30.1 + 30.1                                |
|                                                          | Rated Water Flow LPM                            | 192 + 192 + 192 + 96                                     | 192 + 192 + 192 + 135                                    | 192 + 192 + 192 + 192                                    |
| Compressor                                               | Type                                            | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               |
|                                                          | Combination x No.                               | (Inverter) x 4                                           | (Inverter) x 4                                           | (Inverter) x 4                                           |
|                                                          | Motor Output x Number W x No.                   | 5,300 x 3 + 4,200 x 1                                    | 5,300 x 3 + 4,200 x 1                                    | 5,300 x 4                                                |
|                                                          | Oil Type                                        | FVC68D (PVE)                                             | FVC68D (PVE)                                             | FVC68D (PVE)                                             |
|                                                          | Oil Charge cc                                   | 11,800                                                   | 11,800                                                   | 12,000                                                   |
| Refrigerant Connecting Pipes                             | Liquid Pipe mm (inch)                           | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              |
|                                                          | Gas Pipe mm (inch)                              | Ø53.98 (2-1/8)                                           | Ø53.98 (2-1/8)                                           | Ø53.98 (2-1/8)                                           |
| Water Connecting Pipes                                   | Inlet A (inch)                                  | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                                          | Outlet A (inch)                                 | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                                          | Drain Outlet A (inch)                           | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           |
| Dimensions (W x H x D)                                   | mm x No.                                        | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    |
| Dimensions (W x H x D) - Shipping                        | mm x No.                                        | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  |
| Net Weight                                               | kg x No.                                        | (140 x 3) + (127 x 1)                                    | (140 x 3) + (127 x 1)                                    | 140 x 4                                                  |
| Shipping Weight                                          | kg x No.                                        | (150 x 3) + (137 x 1)                                    | (150 x 3) + (137 x 1)                                    | 150 x 4                                                  |
| Sound Pressure Level                                     | Cooling dB(A)                                   | 59                                                       | 61                                                       | 57                                                       |
|                                                          | Heating dB(A)                                   | 65                                                       | 63                                                       | 63                                                       |
| Sound Power Level                                        | Cooling dB(A)                                   | 71                                                       | 75                                                       | 71                                                       |
|                                                          | Heating dB(A)                                   | 77                                                       | 77                                                       | 77                                                       |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB)                 | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           |
| Refrigerant                                              | Refrigerant Name                                | R410A                                                    | R410A                                                    | R410A                                                    |
|                                                          | Precharged Amount in Factory kg                 | 14.8                                                     | 14.8                                                     | 12.0                                                     |
|                                                          | t-CO <sub>2</sub> eq                            | 30.895                                                   | 30.895                                                   | 25.050                                                   |
| Control                                                  |                                                 | Electronic Expansion Valve                               | Electronic Expansion Valve                               | Electronic Expansion Valve                               |
| Power Supply                                             | Ø, V, Hz                                        | 3, 380-415, 50                                           | 3, 380-415, 50                                           | 3, 380-415, 50                                           |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                                 | 64                                                       | 64                                                       | 64                                                       |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWB080LAS4 / ARWB100LAS4  
ARWB140LAS4**



| HP                                                       |                                                 | 8                                | 10                               | 14                               |
|----------------------------------------------------------|-------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Model Name                                               | Combination Unit                                | ARWB080LAS4                      | ARWB100LAS4                      | ARWB140LAS4                      |
|                                                          | Independent Unit                                | ARWB080LAS4                      | ARWB100LAS4                      | ARWB140LAS4                      |
| Capacity                                                 | Cooling (Rated) kW                              | 22.4                             | 28.0                             | 39.2                             |
|                                                          | Heating (Rated) kW                              | 25.2                             | 31.5                             | 44.1                             |
| Input                                                    | Cooling (Rated) kW                              | 3.86                             | 5.09                             | 7.84                             |
|                                                          | Heating (Rated) kW                              | 4.20                             | 5.34                             | 8.17                             |
| EER                                                      |                                                 | 5.80                             | 5.50                             | 5.00                             |
| COP                                                      | Rated Capacity                                  | 6.00                             | 5.90                             | 5.40                             |
| Exterior                                                 | Color                                           | Warm Gray / Morning Gray         | Warm Gray / Morning Gray         | Warm Gray / Morning Gray         |
|                                                          | RAL Code (Classic)                              | RAL 7044 / RAL 7030              | RAL 7044 / RAL 7030              | RAL 7044 / RAL 7030              |
| Heat Exchanger                                           | Type                                            | Stainless Steel Plate            | Stainless Steel Plate            | Stainless Steel Plate            |
|                                                          | Maximum Pressure Resistance kgf/cm <sup>2</sup> | 45                               | 45                               | 45                               |
|                                                          | Head Loss kPa                                   | 10.7                             | 15.8                             | 28.6                             |
|                                                          | Rated Water Flow LPM                            | 77                               | 96                               | 135                              |
| Compressor                                               | Type                                            | Hermetically Sealed Scroll       | Hermetically Sealed Scroll       | Hermetically Sealed Scroll       |
|                                                          | Combination x No.                               | (Inverter) x 1                   | (Inverter) x 1                   | (Inverter) x 1                   |
|                                                          | Motor Output x Number W x No.                   | 4,200 x 1                        | 4,200 x 1                        | 4,200 x 1                        |
|                                                          | Oil Type                                        | FVC68D (PVE)                     | FVC68D (PVE)                     | FVC68D (PVE)                     |
|                                                          | Oil Charge cc                                   | 2,800                            | 2,800                            | 2,800                            |
| Refrigerant Connecting Pipes                             | Liquid Pipe mm (inch)                           | Ø9.52 (3/8)                      | Ø9.52 (3/8)                      | Ø12.7 (1/2)                      |
|                                                          | Low Pressure Gas Pipe mm (inch)                 | Ø22.2 (7/8)                      | Ø22.2 (7/8)                      | Ø25.4 (1)                        |
|                                                          | High Pressure Gas Pipe mm (inch)                | Ø19.05 (3/4)                     | Ø19.05 (3/4)                     | Ø19.05 (3/4)                     |
| Water Connecting Pipes                                   | Inlet A (inch)                                  | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
|                                                          | Outlet A (inch)                                 | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
|                                                          | Drain Outlet A (inch)                           | 20A (PT 3/4) (External Thread)   | 20A (PT 3/4) (External Thread)   | 20A (PT 3/4) (External Thread)   |
| Dimensions (W x H x D)                                   | mm x No.                                        | (755 x 997 x 500) x 1            | (755 x 997 x 500) x 1            | (755 x 997 x 500) x 1            |
| Dimensions (W x H x D) - Shipping                        | mm x No.                                        | (804 x 1,143 x 630) x 1          | (804 x 1,143 x 630) x 1          | (804 x 1,143 x 630) x 1          |
| Net Weight                                               | kg x No.                                        | 127 x 1                          | 127 x 1                          | 127 x 1                          |
| Shipping Weight                                          | kg x No.                                        | 137 x 1                          | 137 x 1                          | 137 x 1                          |
| Sound Pressure Level                                     | Cooling dB(A)                                   | 47                               | 50                               | 58                               |
|                                                          | Heating dB(A)                                   | 51                               | 53                               | 57                               |
| Sound Power Level                                        | Cooling dB(A)                                   | 59                               | 62                               | 70                               |
|                                                          | Heating dB(A)                                   | 63                               | 65                               | 69                               |
| Communication Cable                                      | mm <sup>2</sup> x No. (VCTF-SB)                 | 1.0 - 1.5 x 2C                   | 1.0 - 1.5 x 2C                   | 1.0 - 1.5 x 2C                   |
| Refrigerant                                              | Refrigerant Name                                | R410A                            | R410A                            | R410A                            |
|                                                          | Precharged Amount in Factory kg                 | 5.8                              | 5.8                              | 5.8                              |
|                                                          | t-CO <sub>2</sub> eq                            | 12.108                           | 12.108                           | 12.108                           |
| Control                                                  |                                                 | Electronic Expansion Valve       | Electronic Expansion Valve       | Electronic Expansion Valve       |
| Power Supply                                             | Ø, V, Hz                                        | 3, 380-415, 50                   | 3, 380-415, 50                   | 3, 380-415, 50                   |
| Number of Maximum Connectable Indoor Units <sup>1)</sup> |                                                 | 13 (20)                          | 16 (25)                          | 23 (35)                          |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWB200LAS4 / ARWB160LAS4  
ARWB180LAS4**



| HP                                         |                                 | 20                         | 16                               | 18                                                |                                                   |
|--------------------------------------------|---------------------------------|----------------------------|----------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWB200LAS4                | ARWB160LAS4                      | ARWB180LAS4                                       |                                                   |
|                                            | Independent Unit                | ARWB200LAS4                | ARWB080LAS4<br>ARWB080LAS4       | ARWB100LAS4<br>ARWB080LAS4                        |                                                   |
| Capacity                                   | Cooling (Rated) kW              | 56.0                       | 44.8                             | 50.4                                              |                                                   |
|                                            | Heating (Rated) kW              | 63.0                       | 50.4                             | 56.7                                              |                                                   |
| Input                                      | Cooling (Rated) kW              | 11.20                      | 7.72                             | 8.95                                              |                                                   |
|                                            | Heating (Rated) kW              | 11.67                      | 8.40                             | 9.54                                              |                                                   |
| EER                                        |                                 | 5.00                       | 5.80                             | 5.63                                              |                                                   |
| COP                                        | Rated Capacity                  | 5.40                       | 6.00                             | 5.94                                              |                                                   |
| Exterior                                   | Color                           | Warm Gray / Morning Gray   | Warm Gray / Morning Gray         | Warm Gray / Morning Gray                          |                                                   |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030        | RAL 7044 / RAL 7030              | RAL 7044 / RAL 7030                               |                                                   |
| Heat Exchanger                             | Type                            | Stainless Steel Plate      | Stainless Steel Plate            | Stainless Steel Plate                             |                                                   |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>        | 45                               | 45                                                |                                                   |
|                                            | Head Loss                       | kPa                        | 30.1                             | 10.7 + 10.7                                       | 15.8 + 10.7                                       |
|                                            | Rated Water Flow                | LPM                        | 192                              | 77 + 77                                           | 96 + 77                                           |
| Compressor                                 | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll       | Hermetically Sealed Scroll                        |                                                   |
|                                            | Combination x No.               | (Inverter) x 1             | (Inverter) x 2                   | (Inverter) x 2                                    |                                                   |
|                                            | Motor Output x Number           | W x No.                    | 5,300 x 1                        | 4,200 x 2                                         | 4,200 x 2                                         |
|                                            | Oil Type                        | FVC68D(PVE)                | FVC68D(PVE)                      | FVC68D(PVE)                                       |                                                   |
|                                            | Oil Charge                      | cc                         | 3,000                            | 5,600                                             | 5,600                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                  | Ø12.7 (1/2)                      | Ø12.7 (1/2)                                       | Ø12.7 (1/2)                                       |
|                                            | Low Pressure Gas Pipe           | mm (inch)                  | Ø28.58 (1-1/8)                   | Ø28.58 (1-1/8)                                    | Ø28.58 (1-1/8)                                    |
|                                            | High Pressure Gas Pipe          | mm (inch)                  | Ø19.05 (3/4)                     | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)                   | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                   | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                   | 20A (PT 3/4) (External Thread)   | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 1      | (755 x 997 x 500) x 2            | (755 x 997 x 500) x 2                             |                                                   |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 1    | (804 x 1,143 x 630) x 2          | (804 x 1,143 x 630) x 2                           |                                                   |
| Net Weight                                 | kg x No.                        | 140 x 1                    | 127 x 2                          | 127 x 2                                           |                                                   |
| Shipping Weight                            | kg x No.                        | 150 x 1                    | 137 x 2                          | 137 x 2                                           |                                                   |
| Sound Pressure Level                       | Cooling                         | dB(A)                      | 54                               | 50                                                | 52                                                |
|                                            | Heating                         | dB(A)                      | 60                               | 54                                                | 55                                                |
| Sound Power Level                          | Cooling                         | dB(A)                      | 66                               | 62                                                | 64                                                |
|                                            | Heating                         | dB(A)                      | 72                               | 66                                                | 67                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C             | 1.0 - 1.5 x 2C                   | 1.0 - 1.5 x 2C                                    |                                                   |
| Refrigerant                                | Refrigerant Name                |                            | R410A                            | R410A                                             | R410A                                             |
|                                            | Precharged Amount in Factory    | kg                         | 3.0                              | 11.6                                              | 11.6                                              |
|                                            | t-CO <sub>2</sub> eq            |                            | 6.263                            | 24.215                                            | 24.215                                            |
|                                            | Control                         |                            | Electronic Expansion Valve       | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50             | 3, 380-415, 50                   | 3, 380-415, 50                                    |                                                   |
| Number of Maximum Connectable Indoor Units |                                 | 32(50)                     | 26(40)                           | 29(45)                                            |                                                   |

- Note
- Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
  - Due to our policy of innovation some specifications may be changed without notification
  - Performances are based on the following conditions
    - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
    - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
    - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
  - This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
  - Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWB220LAS4 / ARWB240LAS4  
ARWB280LAS4**



| HP                                         |                                 | 22                         | 24                                                | 28                                                |                                                   |
|--------------------------------------------|---------------------------------|----------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWB220LAS4                | ARWB240LAS4                                       | ARWB280LAS4                                       |                                                   |
|                                            | Independent Unit                | ARWB140LAS4<br>ARWB080LAS4 | ARWB140LAS4<br>ARWB100LAS4                        | ARWB140LAS4<br>ARWB140LAS4                        |                                                   |
| Capacity                                   | Cooling (Rated) kW              | 61.6                       | 67.2                                              | 78.4                                              |                                                   |
|                                            | Heating (Rated) kW              | 69.3                       | 75.6                                              | 88.2                                              |                                                   |
| Input                                      | Cooling (Rated) kW              | 11.70                      | 12.93                                             | 15.68                                             |                                                   |
|                                            | Heating (Rated) kW              | 12.37                      | 13.51                                             | 16.34                                             |                                                   |
| EER                                        |                                 | 5.26                       | 5.20                                              | 5.00                                              |                                                   |
| COP                                        | Rated Capacity                  | 5.60                       | 5.60                                              | 5.40                                              |                                                   |
| Exterior                                   | Color                           | Warm Gray / Morning Gray   | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          |                                                   |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030        | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               |                                                   |
| Heat Exchanger                             | Type                            | Stainless Steel Plate      | Stainless Steel Plate                             | Stainless Steel Plate                             |                                                   |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>        | 45                                                | 45                                                |                                                   |
|                                            | Head Loss                       | kPa                        | 28.6 + 10.7                                       | 28.6 + 15.8                                       | 28.6 + 28.6                                       |
|                                            | Rated Water Flow                | LPM                        | 135 + 77                                          | 135 + 96                                          | 135 + 135                                         |
| Compressor                                 | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        |                                                   |
|                                            | Combination x No.               | (Inverter) x 2             | (Inverter) x 2                                    | (Inverter) x 2                                    |                                                   |
|                                            | Motor Output x Number           | W x No.                    | 4,200 x 2                                         | 4,200 x 2                                         | 4,200 x 2                                         |
|                                            | Oil Type                        | FVC68D (PVE)               | FVC68D (PVE)                                      | FVC68D (PVE)                                      |                                                   |
|                                            | Oil Charge                      | cc                         | 5,600                                             | 5,600                                             | 5,600                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                  | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      |
|                                            | Low Pressure Gas Pipe           | mm (inch)                  | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     |
|                                            | High Pressure Gas Pipe          | mm (inch)                  | Ø28.58 (1-1/8)                                    | Ø28.58 (1-1/8)                                    | Ø28.58 (1-1/8)                                    |
| Water Connecting Pipes                     | Inlet                           | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                   | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 2      | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             |                                                   |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 2    | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           |                                                   |
| Net Weight                                 | kg x No.                        | 127 x 2                    | 127 x 2                                           | 127 x 2                                           |                                                   |
| Shipping Weight                            | kg x No.                        | 137 x 2                    | 137 x 2                                           | 137 x 2                                           |                                                   |
| Sound Pressure Level                       | Cooling                         | dB(A)                      | 58                                                | 59                                                | 59                                                |
|                                            | Heating                         | dB(A)                      | 58                                                | 58                                                | 58                                                |
| Sound Power Level                          | Cooling                         | dB(A)                      | 70                                                | 71                                                | 72                                                |
|                                            | Heating                         | dB(A)                      | 70                                                | 70                                                | 71                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C             | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    |                                                   |
| Refrigerant                                | Refrigerant Name                |                            | R410A                                             | R410A                                             | R410A                                             |
|                                            | Precharged Amount in Factory    | kg                         | 11.6                                              | 11.6                                              | 11.6                                              |
|                                            | t-CO <sub>2</sub> eq            |                            | 24.215                                            | 24.215                                            | 24.215                                            |
|                                            | Control                         |                            | Electronic Expansion Valve                        | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50             | 3, 380-415, 50                                    | 3, 380-415, 50                                    |                                                   |
| Number of Maximum Connectable Indoor Units |                                 | 35 (44)                    | 39 (48)                                           | 45 (56)                                           |                                                   |

- Note
- Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
  - Due to our policy of innovation some specifications may be changed without notification
  - Performances are based on the following conditions
    - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
    - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
    - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
  - This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
  - Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWB300LAS4 / ARWB340LAS4  
ARWB400LAS4**



| HP                                         |                                 | 30                         | 34                                                | 40                                                |                                                   |
|--------------------------------------------|---------------------------------|----------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWB300LAS4                | ARWB340LAS4                                       | ARWB400LAS4                                       |                                                   |
|                                            | Independent Unit                | ARWB200LAS4<br>ARWB100LAS4 | ARWB200LAS4<br>ARWB140LAS4                        | ARWB200LAS4<br>ARWB140LAS4                        |                                                   |
| Capacity                                   | Cooling (Rated) kW              | 84.0                       | 95.2                                              | 112.0                                             |                                                   |
|                                            | Heating (Rated) kW              | 94.5                       | 107.1                                             | 126.0                                             |                                                   |
| Input                                      | Cooling (Rated) kW              | 16.29                      | 19.04                                             | 22.40                                             |                                                   |
|                                            | Heating (Rated) kW              | 17.01                      | 19.84                                             | 23.34                                             |                                                   |
| EER                                        |                                 | 5.16                       | 5.00                                              | 5.00                                              |                                                   |
| COP                                        | Rated Capacity                  | 5.56                       | 5.40                                              | 5.40                                              |                                                   |
| Exterior                                   | Color                           | Warm Gray / Morning Gray   | Warm Gray / Morning Gray                          | Warm Gray / Morning Gray                          |                                                   |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030        | RAL 7044 / RAL 7030                               | RAL 7044 / RAL 7030                               |                                                   |
| Heat Exchanger                             | Type                            | Stainless Steel Plate      | Stainless Steel Plate                             | Stainless Steel Plate                             |                                                   |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>        | 45                                                | 45                                                |                                                   |
|                                            | Head Loss                       | kPa                        | 30.1 + 15.8                                       | 30.1 + 28.6                                       | 30.1 + 30.1                                       |
|                                            | Rated Water Flow                | LPM                        | 192 + 96                                          | 192 + 135                                         | 192 + 192                                         |
| Compressor                                 | Type                            | Hermetically Sealed Scroll | Hermetically Sealed Scroll                        | Hermetically Sealed Scroll                        |                                                   |
|                                            | Combination x No.               | (Inverter) x 2             | (Inverter) x 2                                    | (Inverter) x 2                                    |                                                   |
|                                            | Motor Output x Number           | W x No.                    | 5,300 x 1 + 4,200 x 1                             | 5,300 x 1 + 4,200 x 1                             | 5,300 x 2                                         |
|                                            | Oil Type                        | FVC68D (PVE)               | FVC68D (PVE)                                      | FVC68D (PVE)                                      |                                                   |
|                                            | Oil Charge                      | cc                         | 5,800                                             | 5,800                                             | 6,000                                             |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                  | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      | Ø19.05 (3/4)                                      |
|                                            | Low Pressure Gas Pipe           | mm (inch)                  | Ø34.9 (1-3/8)                                     | Ø34.9 (1-3/8)                                     | Ø41.3 (1-5/8)                                     |
|                                            | High Pressure Gas Pipe          | mm (inch)                  | Ø28.58 (1-1/8)                                    | Ø28.58 (1-1/8)                                    | Ø34.9 (1-3/8)                                     |
| Water Connecting Pipes                     | Inlet                           | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                   | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                   | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    | 20A (PT 3/4) (External Thread)                    |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 2      | (755 x 997 x 500) x 2                             | (755 x 997 x 500) x 2                             |                                                   |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 2    | (804 x 1,143 x 630) x 2                           | (804 x 1,143 x 630) x 2                           |                                                   |
| Net Weight                                 | kg x No.                        | (140 x 1) + (127 x 1)      | (140 x 1) + (127 x 1)                             | 140 x 2                                           |                                                   |
| Shipping Weight                            | kg x No.                        | (150 x 1) + (137 x 1)      | (150 x 1) + (137 x 1)                             | 150 x 2                                           |                                                   |
| Sound Pressure Level                       | Cooling                         | dB(A)                      | 55                                                | 59                                                | 55                                                |
|                                            | Heating                         | dB(A)                      | 61                                                | 61                                                | 61                                                |
| Sound Power Level                          | Cooling                         | dB(A)                      | 67                                                | 72                                                | 68                                                |
|                                            | Heating                         | dB(A)                      | 73                                                | 74                                                | 74                                                |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C             | 1.0 - 1.5 x 2C                                    | 1.0 - 1.5 x 2C                                    |                                                   |
| Refrigerant                                | Refrigerant Name                |                            | R410A                                             | R410A                                             | R410A                                             |
|                                            | Precharged Amount in Factory    | kg                         | 8.8                                               | 8.8                                               | 6.0                                               |
|                                            | t-CO <sub>2</sub> eq            |                            | 18.370                                            | 18.370                                            | 12.525                                            |
|                                            | Control                         |                            | Electronic Expansion Valve                        | Electronic Expansion Valve                        | Electronic Expansion Valve                        |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50             | 3, 380-415, 50                                    | 3, 380-415, 50                                    |                                                   |
| Number of Maximum Connectable Indoor Units |                                 | 49 (60)                    | 55 (64)                                           | 64                                                |                                                   |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

**ARWB420LAS4 / ARWB440LAS4  
ARWB480LAS4**



| HP                                         |                                 | 42                                        | 44                                                                 | 48                                                                 |                                                                    |
|--------------------------------------------|---------------------------------|-------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Model Name                                 | Combination Unit                | ARWB420LAS4                               | ARWB440LAS4                                                        | ARWB480LAS4                                                        |                                                                    |
|                                            | Independent Unit                | ARWB200LAS4<br>ARWB140LAS4<br>ARWB080LAS4 | ARWB200LAS4<br>ARWB140LAS4<br>ARWB100LAS4                          | ARWB200LAS4<br>ARWB140LAS4<br>ARWB140LAS4                          |                                                                    |
| Capacity                                   | Cooling (Rated) kW              | 117.6                                     | 123.2                                                              | 134.4                                                              |                                                                    |
|                                            | Heating (Rated) kW              | 132.3                                     | 138.6                                                              | 151.2                                                              |                                                                    |
| Input                                      | Cooling (Rated) kW              | 22.9                                      | 24.13                                                              | 26.88                                                              |                                                                    |
|                                            | Heating (Rated) kW              | 24.04                                     | 25.18                                                              | 28.01                                                              |                                                                    |
| EER                                        |                                 | 5.14                                      | 5.11                                                               | 5.00                                                               |                                                                    |
| COP                                        | Rated Capacity                  | 5.50                                      | 5.50                                                               | 5.40                                                               |                                                                    |
| Exterior                                   | Color                           | Warm Gray / Morning Gray                  | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           |                                                                    |
|                                            | RAL Code (Classic)              | RAL 7044 / RAL 7030                       | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                |                                                                    |
| Heat Exchanger                             | Type                            | Stainless Steel Plate                     | Stainless Steel Plate                                              | Stainless Steel Plate                                              |                                                                    |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup>                       | 45                                                                 | 45                                                                 |                                                                    |
|                                            | Head Loss                       | kPa                                       | 30.1 + 28.6 + 10.7                                                 | 30.1 + 28.6 + 15.8                                                 | 30.1 + 28.6 + 28.6                                                 |
|                                            | Rated Water Flow                | LPM                                       | 192 + 135 + 77                                                     | 192 + 135 + 96                                                     | 192 + 135 + 135                                                    |
| Compressor                                 | Type                            | Hermetically Sealed Scroll                | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         |                                                                    |
|                                            | Combination x No.               | (Inverter) x 3                            | (Inverter) x 3                                                     | (Inverter) x 3                                                     |                                                                    |
|                                            | Motor Output x Number           | W x No.                                   | 5,300 x 1 + 4,200 x 2                                              | 5,300 x 1 + 4,200 x 2                                              | 5,300 x 1 + 4,200 x 2                                              |
|                                            | Oil Type                        | FVC68D (PVE)                              | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       |                                                                    |
|                                            | Oil Charge                      | cc                                        | 8,600                                                              | 8,600                                                              | 8,600                                                              |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)                                 | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       |
|                                            | Low Pressure Gas Pipe           | mm (inch)                                 | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      |
|                                            | High Pressure Gas Pipe          | mm (inch)                                 | Ø34.9 (1-3/8)                                                      | Ø34.9 (1-3/8)                                                      | Ø34.9 (1-3/8)                                                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)                                  | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)                                  | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)                                  | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     |
| Dimensions (W x H x D)                     | mm x No.                        | (755 x 997 x 500) x 3                     | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              |                                                                    |
| Dimensions (W x H x D) - Shipping          | mm x No.                        | (804 x 1,143 x 630) x 3                   | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            |                                                                    |
| Net Weight                                 | kg x No.                        | (140 x 1) + (127 x 2)                     | (140 x 1) + (127 x 2)                                              | (140 x 1) + (127 x 2)                                              |                                                                    |
| Shipping Weight                            | kg x No.                        | (150 x 1) + (137 x 2)                     | (150 x 1) + (137 x 2)                                              | (150 x 1) + (137 x 2)                                              |                                                                    |
| Sound Pressure Level                       | Cooling                         | dB(A)                                     | 60                                                                 | 60                                                                 | 60                                                                 |
|                                            | Heating                         | dB(A)                                     | 62                                                                 | 62                                                                 | 62                                                                 |
| Sound Power Level                          | Cooling                         | dB(A)                                     | 72                                                                 | 72                                                                 | 74                                                                 |
|                                            | Heating                         | dB(A)                                     | 74                                                                 | 74                                                                 | 76                                                                 |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) | 1.0 - 1.5 x 2C                            | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     |                                                                    |
| Refrigerant                                | Refrigerant Name                |                                           | R410A                                                              | R410A                                                              | R410A                                                              |
|                                            | Precharged Amount in Factory    | kg                                        | 14.6                                                               | 14.6                                                               | 14.6                                                               |
|                                            | t-CO <sub>2</sub> eq            |                                           | 30.478                                                             | 30.478                                                             | 30.478                                                             |
|                                            | Control                         |                                           | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         |
| Power Supply                               | Ø, V, Hz                        | 3, 380-415, 50                            | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     |                                                                    |
| Number of Maximum Connectable Indoor Units |                                 | 64                                        | 64                                                                 | 64                                                                 |                                                                    |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB500LAS4 / ARWB540LAS4  
ARWB600LAS4



| HP                                         |                                 |                     | 50                                                                 | 54                                                                 | 60                                                                 |
|--------------------------------------------|---------------------------------|---------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWB500LAS4                                                        | ARWB540LAS4                                                        | ARWB600LAS4                                                        |
|                                            | Independent Unit                |                     | ARWB200LAS4<br>ARWB200LAS4<br>ARWB100LAS4                          | ARWB200LAS4<br>ARWB200LAS4<br>ARWB140LAS4                          | ARWB200LAS4<br>ARWB200LAS4<br>ARWB200LAS4                          |
| Capacity                                   | Cooling (Rated)                 | kW                  | 140.0                                                              | 151.2                                                              | 168.0                                                              |
|                                            | Heating (Rated)                 | kW                  | 157.5                                                              | 170.1                                                              | 189.0                                                              |
| Input                                      | Cooling (Rated)                 | kW                  | 27.49                                                              | 30.24                                                              | 33.60                                                              |
|                                            | Heating (Rated)                 | kW                  | 28.68                                                              | 31.51                                                              | 35.01                                                              |
| EER                                        |                                 |                     | 5.09                                                               | 5.00                                                               | 5.00                                                               |
| COP                                        | Rated Capacity                  |                     | 5.49                                                               | 5.40                                                               | 5.40                                                               |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           | Warm Gray / Morning Gray                                           |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                | RAL 7044 / RAL 7030                                                |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate                                              | Stainless Steel Plate                                              | Stainless Steel Plate                                              |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                                                                 | 45                                                                 | 45                                                                 |
|                                            | Head Loss                       | kPa                 | 30.1 + 30.1 + 15.8                                                 | 30.1 + 28.6 + 28.6                                                 | 30.1 + 30.1 + 30.1                                                 |
|                                            | Rated Water Flow                | LPM                 | 192 + 192 + 96                                                     | 192 + 192 + 135                                                    | 192 + 192 + 192                                                    |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         | Hermetically Sealed Scroll                                         |
|                                            | Combination x No.               |                     | (Inverter) x 3                                                     | (Inverter) x 3                                                     | (Inverter) x 3                                                     |
|                                            | Motor Output x Number           | W x No.             | 5,300 x 2 + 4,200 x 1                                              | 5,300 x 2 + 4,200 x 1                                              | 5,300 x 3                                                          |
|                                            | Oil Type                        |                     | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       | FVC68D (PVE)                                                       |
|                                            | Oil Charge                      | cc                  | 8,800                                                              | 8,800                                                              | 9,000                                                              |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       | Ø19.05 (3/4)                                                       |
|                                            | Low Pressure Gas Pipe           | mm (inch)           | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      | Ø41.3 (1-5/8)                                                      |
|                                            | High Pressure Gas Pipe          | mm (inch)           | Ø34.9 (1-3/8)                                                      | Ø34.9 (1-3/8)                                                      | Ø34.9 (1-3/8)                                                      |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Outlet                          | A (inch)            | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     | 20A (PT 3/4) (External Thread)                                     |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              | (755 x 997 x 500) x 3                                              |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            | (804 x 1,143 x 630) x 3                                            |
| Net Weight                                 | kg x No.                        |                     | (140 x 2) + (127 x 1)                                              | (140 x 2) + (127 x 1)                                              | 140 x 3                                                            |
| Shipping Weight                            | kg x No.                        |                     | (150 x 2) + (137 x 1)                                              | (150 x 2) + (137 x 1)                                              | 150 x 3                                                            |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 58                                                                 | 60                                                                 | 56                                                                 |
|                                            | Heating                         | dB(A)               | 63                                                                 | 62                                                                 | 62                                                                 |
| Sound Power Level                          | Cooling                         | dB(A)               | 70                                                                 | 74                                                                 | 70                                                                 |
|                                            | Heating                         | dB(A)               | 75                                                                 | 76                                                                 | 76                                                                 |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     | 1.0 - 1.5 x 2C                                                     |
| Refrigerant                                | Refrigerant Name                |                     | R410A                                                              | R410A                                                              | R410A                                                              |
|                                            | Precharged Amount in Factory    |                     | 11.8                                                               | 11.8                                                               | 9.0                                                                |
|                                            | t-CO <sub>2</sub> eq            |                     | 24.633                                                             | 24.633                                                             | 18.788                                                             |
| Power Supply                               | Ø, V, Hz                        |                     | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         | Electronic Expansion Valve                                         |
| Number of Maximum Connectable Indoor Units |                                 |                     | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     | 3, 380-415, 50                                                     |
|                                            |                                 |                     | 64                                                                 | 64                                                                 | 64                                                                 |

Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB620LAS4 / ARWB640LAS4  
ARWB680LAS4



| HP                                         |                                 |                     | 62                                                       | 64                                                       | 68                                                       |
|--------------------------------------------|---------------------------------|---------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Model Name                                 | Combination Unit                |                     | ARWB620LAS4                                              | ARWB640LAS4                                              | ARWB680LAS4                                              |
|                                            | Independent Unit                |                     | ARWB200LAS4<br>ARWB200LAS4<br>ARWB140LAS4<br>ARWB080LAS4 | ARWB200LAS4<br>ARWB200LAS4<br>ARWB140LAS4<br>ARWB100LAS4 | ARWB200LAS4<br>ARWB200LAS4<br>ARWB140LAS4<br>ARWB140LAS4 |
| Capacity                                   | Cooling (Rated)                 | kW                  | 173.6                                                    | 179.2                                                    | 190.4                                                    |
|                                            | Heating (Rated)                 | kW                  | 195.3                                                    | 201.6                                                    | 214.2                                                    |
| Input                                      | Cooling (Rated)                 | kW                  | 34.10                                                    | 35.33                                                    | 38.08                                                    |
|                                            | Heating (Rated)                 | kW                  | 35.71                                                    | 36.85                                                    | 39.68                                                    |
| EER                                        |                                 |                     | 5.09                                                     | 5.07                                                     | 5.00                                                     |
| COP                                        | Rated Capacity                  |                     | 5.47                                                     | 5.47                                                     | 5.40                                                     |
| Exterior                                   | Color                           |                     | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 | Warm Gray / Morning Gray                                 |
|                                            | RAL Code (Classic)              |                     | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      | RAL 7044 / RAL 7030                                      |
| Heat Exchanger                             | Type                            |                     | Stainless Steel Plate                                    | Stainless Steel Plate                                    | Stainless Steel Plate                                    |
|                                            | Maximum Pressure Resistance     | kgf/cm <sup>2</sup> | 45                                                       | 45                                                       | 45                                                       |
|                                            | Head Loss                       | kPa                 | 30.1 + 30.1 + 28.6 + 10.7                                | 30.1 + 30.1 + 28.6 + 15.8                                | 30.1 + 30.1 + 28.6 + 28.6                                |
|                                            | Rated Water Flow                | LPM                 | 192 + 192 + 135 + 77                                     | 192 + 192 + 135 + 96                                     | 192 + 192 + 135 + 135                                    |
| Compressor                                 | Type                            |                     | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               | Hermetically Sealed Scroll                               |
|                                            | Combination x No.               |                     | (Inverter) x 4                                           | (Inverter) x 4                                           | (Inverter) x 4                                           |
|                                            | Motor Output x Number           | W x No.             | 5,300 x 2 + 4,200 x 2                                    | 5,300 x 2 + 4,200 x 2                                    | 5,300 x 2 + 4,200 x 2                                    |
|                                            | Oil Type                        |                     | FVC68D (PVE)                                             | FVC68D (PVE)                                             | FVC68D (PVE)                                             |
|                                            | Oil Charge                      | cc                  | 11,600                                                   | 11,600                                                   | 11,600                                                   |
| Refrigerant Connecting Pipes               | Liquid Pipe                     | mm (inch)           | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              | Ø22.2 (7/8)                                              |
|                                            | Low Pressure Gas Pipe           | mm (inch)           | Ø44.5 (1-3/4)                                            | Ø44.5 (1-3/4)                                            | Ø53.98 (2-1/8)                                           |
|                                            | High Pressure Gas Pipe          | mm (inch)           | Ø41.3 (1-5/8)                                            | Ø41.3 (1-5/8)                                            | Ø44.5 (1-3/4)                                            |
| Water Connecting Pipes                     | Inlet                           | A (inch)            | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                            | Outlet                          | A (inch)            | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          | PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)          |
|                                            | Drain Outlet                    | A (inch)            | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           | 20A (PT 3/4) (External Thread)                           |
| Dimensions (W x H x D)                     | mm x No.                        |                     | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    | (755 x 997 x 500) x 4                                    |
| Dimensions (W x H x D) - Shipping          | mm x No.                        |                     | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  | (804 x 1,143 x 630) x 4                                  |
| Net Weight                                 | kg x No.                        |                     | (140 x 2) + (127 x 2)                                    | (140 x 2) + (127 x 2)                                    | (140 x 2) + (127 x 2)                                    |
| Shipping Weight                            | kg x No.                        |                     | (150 x 2) + (137 x 2)                                    | (150 x 2) + (137 x 2)                                    | (150 x 2) + (137 x 2)                                    |
| Sound Pressure Level                       | Cooling                         | dB(A)               | 61                                                       | 61                                                       | 61                                                       |
|                                            | Heating                         | dB(A)               | 64                                                       | 64                                                       | 63                                                       |
| Sound Power Level                          | Cooling                         | dB(A)               | 73                                                       | 73                                                       | 75                                                       |
|                                            | Heating                         | dB(A)               | 76                                                       | 76                                                       | 77                                                       |
| Communication Cable                        | mm <sup>2</sup> x No. (VCTF-SB) |                     | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           | 1.0 - 1.5 x 2C                                           |
| Refrigerant                                | Refrigerant Name                |                     | R410A                                                    | R410A                                                    | R410A                                                    |
|                                            | Precharged Amount in Factory    |                     | 17.6                                                     | 17.6                                                     | 17.6                                                     |
|                                            | t-CO <sub>2</sub> eq            |                     | 36.740                                                   | 36.740                                                   | 36.740                                                   |
| Power Supply                               | Control                         |                     | Electronic Expansion Valve                               | Electronic Expansion Valve                               | Electronic Expansion Valve                               |
| Number of Maximum Connectable Indoor Units | Ø, V, Hz                        |                     | 3, 380-415, 50                                           | 3, 380-415, 50                                           | 3, 380-415, 50                                           |
|                                            |                                 |                     | 64                                                       | 64                                                       | 64                                                       |

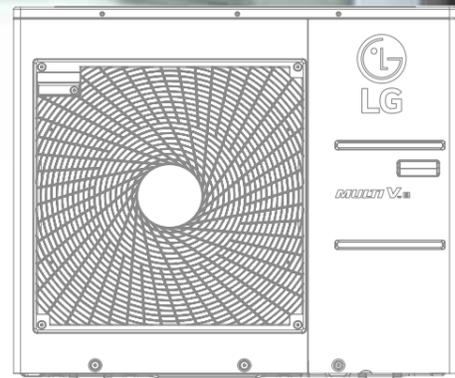
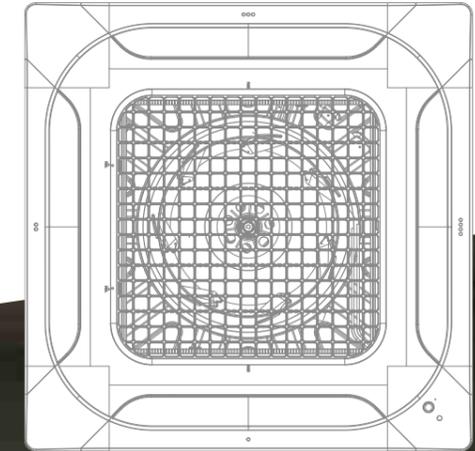
Note  
 1. Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% - 200%). The recommended ratio is 130%.  
 2. Due to our policy of innovation some specifications may be changed without notification.  
 3. Performances are based on the following conditions:  
 - Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)  
 - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)  
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)  
 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)



# 118 - 191

## INDOOR UNITS

WALL MOUNTED / CEILING MOUNTED CASSETTE / CEILING MOUNTED ROUND CASSETTE /  
CEILING CONCEALED DUCT / FRESH AIR INTAKE / CEILING & FLOOR CONVERTIBLE /  
CEILING SUSPENDED / CONSOLE & FLOOR STANDING / COMPATIBILITY / FEATURE FUNCTIONS





## Wi-Fi Control

Anytime, anywhere access to the unit with Android & iOS-based smartphones.

### ThinQ

Search "ThinQ" on Google market or the App Store to download the app.

### Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



### Easy Registration and Log-in

Follow the easy set-up steps that will activate ThinQ's user-friendly features.



### Simple operation for various functions



On / Off, Current Temp



Mode, Set Temp



Vane Control

### Straight forward Management



Energy Monitoring



Smart Diagnosis



Filter Management



Reservation

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

### Features & Benefits

- 6 Different discharge angles can be programmed via the remote controller.
- Easily detachable full surface cover helps to clean the air conditioner.
- Drain pipe can be easily hidden from sight.

### Key Applications

- Retail
- Hotel
- Restaurant
- Multi-family Residence
- Office

|                        | WALL MOUNTED           | ARTCOOL MIRROR | ARTCOOL GALLERY | STANDARD         |
|------------------------|------------------------|----------------|-----------------|------------------|
| Smart                  | Wi-Fi                  | ○              | ○               | ○                |
| Energy Efficiency      | Energy Display         | ○              | ○               | ○                |
| Fast Cooling & Heating | Jet Cool               | ○              | ○               | ○                |
|                        | Auto Swing (Up & Down) | ○              | ○               | ○                |
| Health                 | Ionizer                | ○              | -               | ○<br>-7.1kW Only |
|                        | Pre Filter             | ○              | ○               | ○                |
|                        | Auto Cleaning          | ○              | ○               | ○                |
| Comfort                | Sleep Mode             | ○              | ○               | ○                |
|                        | Timer (On / Off)       | ○              | ○               | ○                |
|                        | Timer (Weekly)         | ○              | ○               | ○                |
|                        | Two Thermistor Control | ○              | ○               | ○                |
|                        | Group Control          | ○              | ○               | ○                |

※ ○: Applied, -: Not applied

# Wi-Fi Control

Anytime, anywhere access to the unit with Android & iOS-based smartphones.

## ThinQ

Search "ThinQ" on Google market or the App Store to download the app.

Access your air conditioner anytime and from anywhere with a Wi-Fi equipped device and LG's exclusive control app, ThinQ.



## Wi-Fi Connectivity

Each user can set and save temperature and fan speed preferences in the ThinQ app. If a household has more than one indoor unit, separate temperature settings can be set for each.

## Multiple Devices



※ Can be controlled by multiple users, but not simultaneously.

## Multi-Control



※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

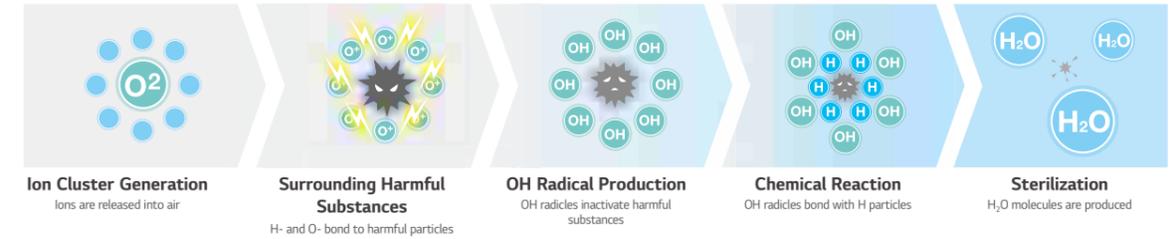
# Ionizer<sup>PLUS</sup>

The powerful Ionizer protects you from bad odors and Escherichia coli and Staphylococcus in the surface with over 3 million ions to reduce to make a safer, and cleaner environment.

※ Specifications may vary for each model.  
※ Depending on the experimental conditions.

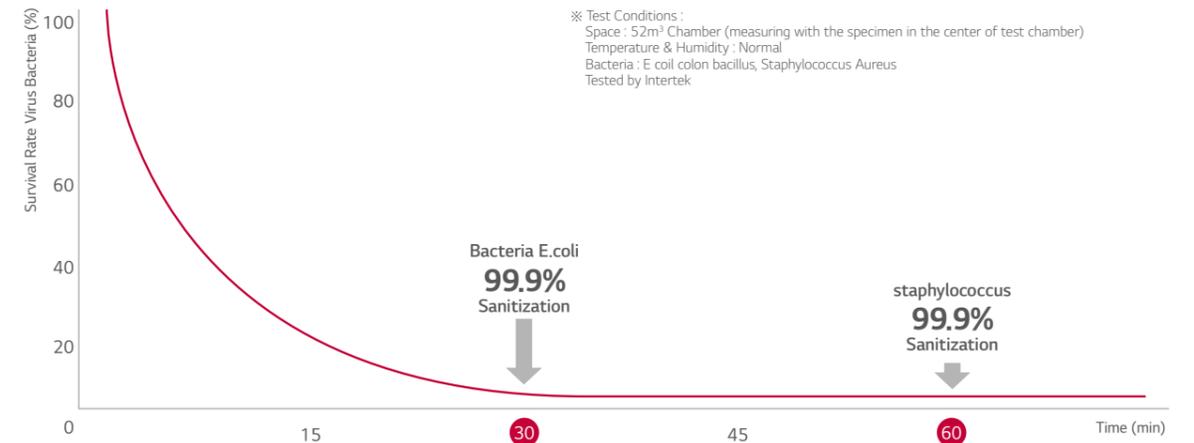
## Reduction and Deodorization (Utilizes Over 3 Million Ions)

Ionizer+ reduces E.coli and Staphylococcus in the surface with over 3 million ions.



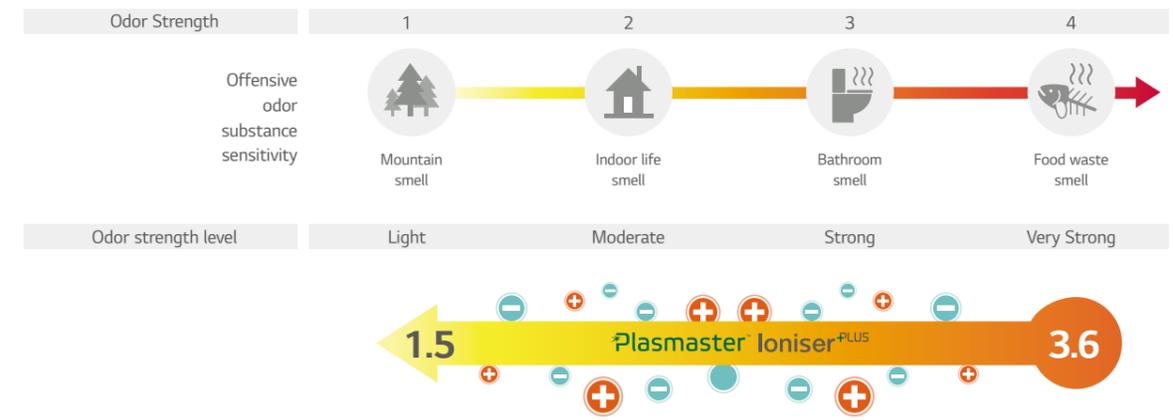
## Reduction Performance Evaluations

Reduce Bacteria E.coli over 99.9% in 30 min. and staphylococcus over 99.6% in 60min.



## 2.1 odor strength decrease in 60 minutes

An odor of measured as 2 European odor units (ouE/m<sup>3</sup>) or less indicates that the level of odor falls within permissible limits.



Odor strength reduce 3.6 → 1.5 / The Odor floating in the room as well as curtain and clothes.

※ Test conditions : Space: 8m<sup>3</sup> Chamber  
Temperature & Humidity : Normal  
Tested by Intertek

## Auto Cleaning

The unit has a self-cleaning function that dries the heat exchanger before cleaning the interior.

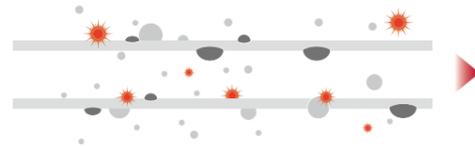
### Pain Point

The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger. These germs can spread when the heat exchanger is wet.

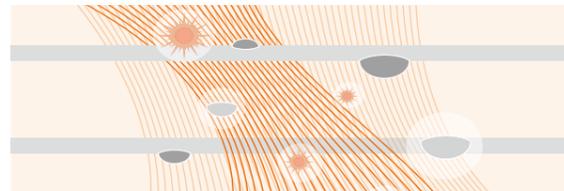


### Cleans Filter with Regular Airflow

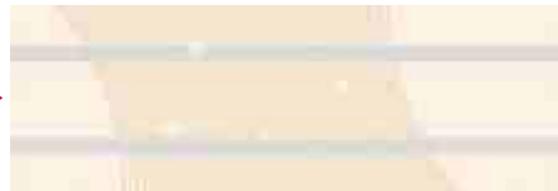
The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger.



By dehumidifying, (Some models are by dehumidifying and ionizing), the auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.



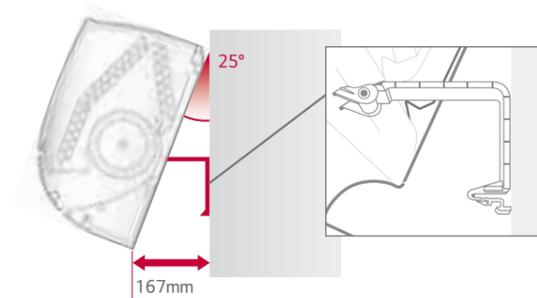
The indoor environment remains odorless with the advanced deodorizing function.



By preventing pollution of the heat exchanger caused by various germs and bacteria, performance and lifespan of the air conditioner can be increased by 10 years.

## Installation Support Clip

A support clip creates adequate space between the wall and the unit for easier installation.



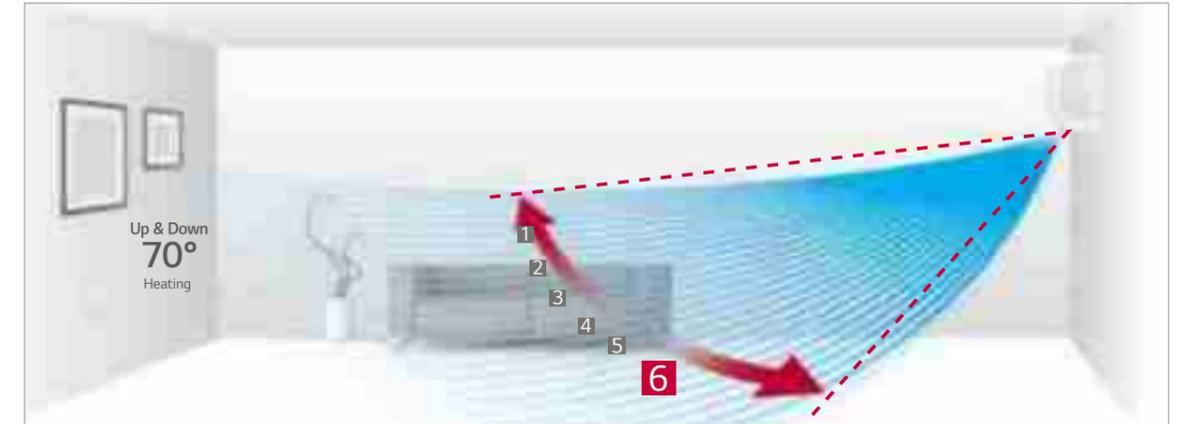
## Auto Swing

Cool air extends to the entire room regardless of where the unit is situated.

※ Specifications may vary for each model.

### 6-Step Vane Control up to 70°

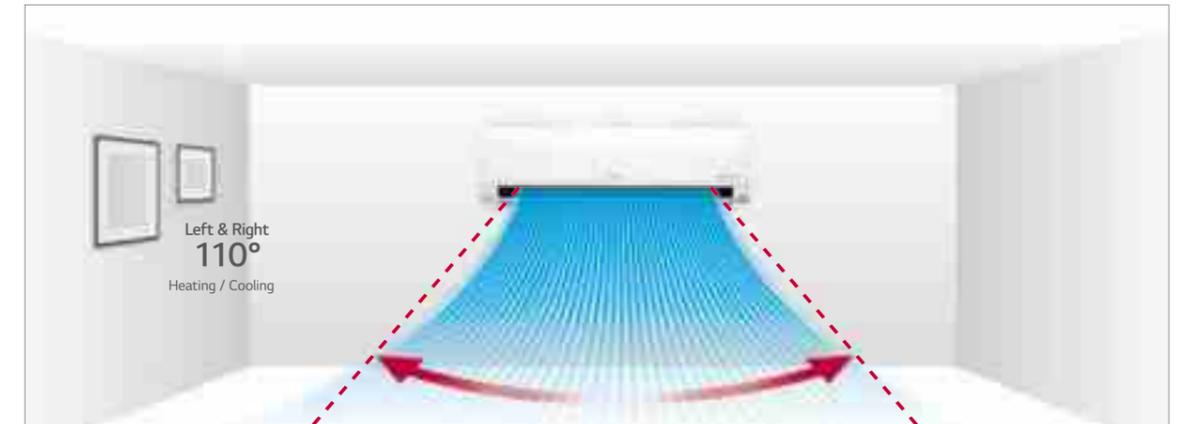
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



※ Angle can be different from each model and working mode.

### Control up to 110°

Louver can be adjusted manually to extend left and right swing to 110 degrees.



※ Angle can be different from each model and working mode.

### Easy and Simple Control

Airflow direction can be changed by ThinQ Wi-Fi app.

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.



Up / Down Swing

## Jet Cool

LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.

※ Specifications may vary for each model.  
 ※ Depending on the experimental conditions.

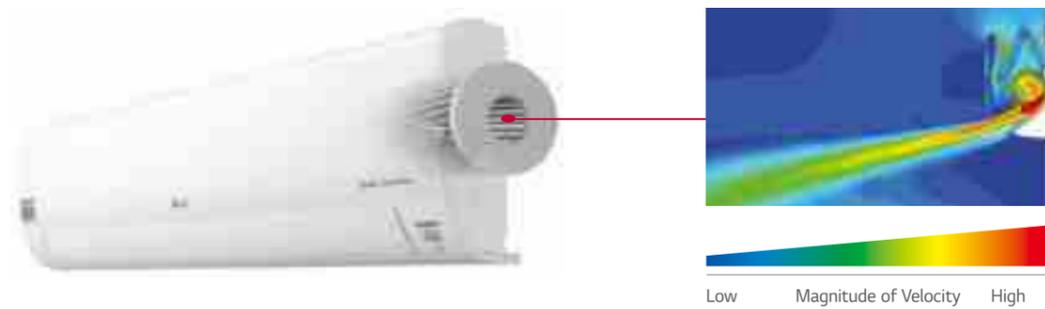
### One Click "Jet Mode"

Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



### More Powerful Performance

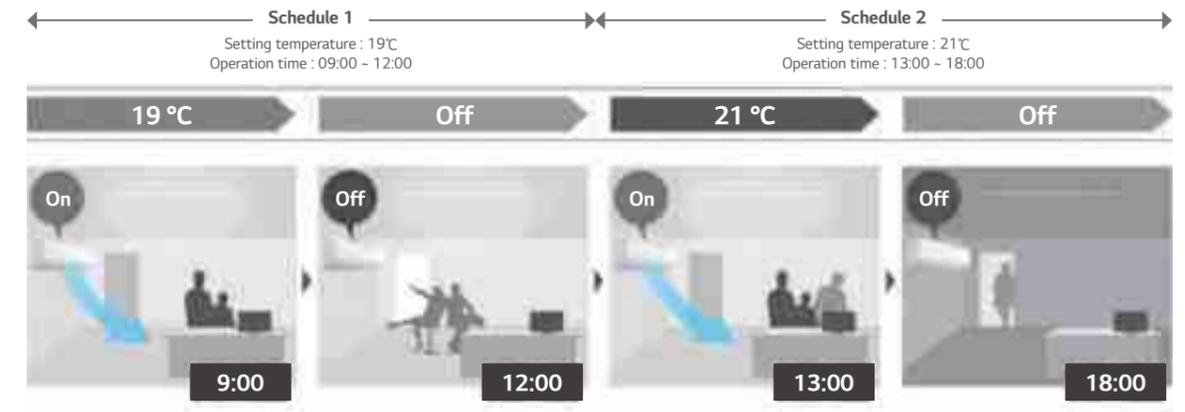
By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of air flow is increased to 13 CMM.



## Scheduled Operation

You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user.

※ This function is for wired remote controller only.  
 ※ Wired remote controller is need to be separately purchased.



## Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



## Group Control

Group control by remote controller (PREMTB100 /PREMTBB10) has more functions than previous model.



ARNU05GSJR4 / ARNU07GSJR4  
ARNU09GSJR4 / ARNU12GSJR4  
ARNU15GSJR4



| MODEL                             |                            | UNIT      | ARNU05GSJR4           | ARNU07GSJR4           | ARNU09GSJR4           | ARNU12GSJR4           | ARNU15GSJR4           |
|-----------------------------------|----------------------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Cooling Capacity                  |                            | kW        | 1.6                   | 2.2                   | 2.8                   | 3.6                   | 4.5                   |
| Heating Capacity                  |                            | kW        | 1.8                   | 2.5                   | 3.2                   | 4.0                   | 5.0                   |
| Power Input (H / M / L) Nominal   |                            | W         | 11 / 10 / 9           | 12 / 11 / 9           | 13 / 12 / 9           | 15 / 13 / 11          | 23 / 18 / 11          |
| Exterior Color                    |                            |           | Mirror (Black)        |
| RAL Code                          |                            |           | RAL 9005              |
| Dimensions (W x H x D)            | Body                       | mm        | 837 x 308 x 192       |
|                                   | Shipping                   | mm        | 892 x 381 x 249       |
| Fan                               |                            |           |                       |                       |                       |                       |                       |
| Type                              |                            |           | Cross Flow Fan        |
| Motor Output x Number             |                            | W x No.   | 30 x 1                |
| Air Flow Rate (H / M / L)         |                            | m³/min    | 6.8 / 6.5 / 5.9       | 7.2 / 6.8 / 5.9       | 7.8 / 7.2 / 5.9       | 8.5 / 7.8 / 6.8       | 10.5 / 9.5 / 6.8      |
| Motor Type                        |                            |           | BLDC                  | BLDC                  | BLDC                  | BLDC                  | BLDC                  |
| Air Filter                        |                            |           | Pre Filter            |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø6.35 (1/4)           |
|                                   | Gas Side                   | mm (inch) | Ø12.7 (1/2)           |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8)             |
| Weight                            | Body                       | kg        | 9.2                   | 9.2                   | 9.2                   | 9.2                   | 9.2                   |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 30 / 29 / 28          | 32 / 30 / 28          | 34 / 32 / 28          | 37 / 34 / 30          | 42 / 39 / 32          |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 45 / 43 / 42          | 46 / 45 / 42          | 48 / 46 / 42          | 51 / 48 / 45          | 55 / 52 / 44          |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C        |

Note :  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU05GSJR4 | ARNU07GSJR4 | ARNU09GSJR4                                                                            | ARNU12GSJR4 | ARNU15GSJR4 |
|-----------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             | -                                                                                      |             |             |
| Cassette Cover                          |             |             | -                                                                                      |             |             |
| Refrigerant Leakage Detector            |             |             | PRLDNV50                                                                               |             |             |
| EEV Kit                                 |             |             | PRGK024A0                                                                              |             |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             | ○                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             | -                                                                                      |             |             |
| Zone Controller                         |             |             | -                                                                                      |             |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             | ○                                                                                      |             |             |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

ARNU18GSKR4 / ARNU24GSKR4



| MODEL                             |                            | UNIT      | ARNU18GSKR4           | ARNU24GSKR4           |
|-----------------------------------|----------------------------|-----------|-----------------------|-----------------------|
| Cooling Capacity                  |                            | kW        | 5.6                   | 7.1                   |
| Heating Capacity                  |                            | kW        | 6.3                   | 7.5                   |
| Power Input (H / M / L) Nominal   |                            | W         | 32 / 26 / 16          | 39 / 26 / 16          |
| Exterior Color                    |                            |           | Mirror (Black)        | Mirror (Black)        |
| RAL Code                          |                            |           | RAL 9005              | RAL 9005              |
| Dimensions (W x H x D)            | Body                       | mm        | 998 x 345 x 212       | 998 x 345 x 212       |
|                                   | Shipping                   | mm        | 1,063 x 420 x 274     | 1,063 x 420 x 274     |
| Fan                               |                            |           |                       |                       |
| Type                              |                            |           | Cross Flow Fan        | Cross Flow Fan        |
| Motor Output x Number             |                            | W x No.   | 58 x 1                | 58 x 1                |
| Air Flow Rate (H / M / L)         |                            | m³/min    | 14.0 / 12.0 / 10.5    | 14.0 / 12.0 / 10.5    |
| Motor Type                        |                            |           | BLDC                  | BLDC                  |
| Air Filter                        |                            |           | Pre Filter            | Pre Filter            |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø6.35 (1/4)           | Ø9.52 (3/8)           |
|                                   | Gas Side                   | mm (inch) | Ø12.7 (1/2)           | Ø15.88 (5/8)          |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8)             | Ø16 (5/8)             |
| Weight                            | Body                       | kg        | 13.4                  | 13.4                  |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 43 / 39 / 34          | 46 / 41 / 34          |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 59 / 56 / 52          | 63 / 58 / 52          |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C        | 1.0 - 1.5 x 2C        |

Note :  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU18GSKR4 | ARNU24GSKR4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | -                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNV50                                                                               |
| EEV Kit                                 |             | PRGK024A0                                                                              |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | ○                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | -                                                                                      |
| Zone Controller                         |             | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | ○                                                                                      |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

ARNU07GSF14 / ARNU09GSF14  
ARNU12GSF14



| MODEL                             | UNIT                       | ARNU07GSF14           | ARNU09GSF14           | ARNU12GSF14           |                 |
|-----------------------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------|
| Cooling Capacity                  | kW                         | 2.2                   | 2.8                   | 3.6                   |                 |
| Heating Capacity                  | kW                         | 2.5                   | 3.2                   | 4.0                   |                 |
| Power Input (H / M / L)           | Nominal W                  | 28 / 16 / 10          | 28 / 16 / 10          | 32 / 20 / 12          |                 |
| Dimensions (W x H x D)            | Body mm                    | 600 x 600 x 146       | 600 x 600 x 146       | 600 x 600 x 146       |                 |
|                                   | Shipping mm                | 685 x 670 x 215       | 685 x 670 x 215       | 685 x 670 x 215       |                 |
| Fan                               | Type                       | Turbo Fan             | Turbo Fan             | Turbo Fan             |                 |
|                                   | Motor Output x Number      | W x No.               | 30 x 1                | 30 x 1                |                 |
|                                   | Air Flow Rate (H / M / L)  | m³/min                | 8.1 / 6.3 / 4.2       | 8.1 / 6.3 / 4.2       | 9.3 / 7.7 / 6.0 |
|                                   | Motor Type                 |                       | BLDC                  | BLDC                  |                 |
| Air Filter                        |                            | Pre Filter            | Pre Filter            | Pre Filter            |                 |
| Pipe Connections                  | Liquid Side                | mm (inch)             | Ø6.35 (1/4)           | Ø6.35 (1/4)           |                 |
|                                   | Gas Side                   | mm (inch)             | Ø12.7 (1/2)           | Ø12.7 (1/2)           |                 |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)             | Ø12.2 (15/32)         | Ø12.2 (15/32)         | Ø12.2 (15/32)   |
| Weight                            | Body kg                    | 15.4                  | 15.4                  | 15.4                  |                 |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 38 / 32 / 27          | 38 / 32 / 27          | 44 / 38 / 32          |                 |
| Sound Power Levels (H / M / L)    | dB(A)                      | 48 / 46 / 41          | 48 / 46 / 41          | 54 / 48 / 42          |                 |
| Power Supply                      | Ø, V, Hz                   | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |                 |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C        | 1.0 - 1.5 x 2C        | 1.0 - 1.5 x 2C        |                 |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU07GSF14 | ARNU09GSF14                                                                            | ARNU12GSF14 |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             | -                                                                                      |             |
| Cassette Cover                          |             | -                                                                                      |             |
| Refrigerant Leakage Detector            |             | PRLDNV50                                                                               |             |
| EEV Kit                                 |             | PRGK024A0                                                                              |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |             |
| Robot Cleaner                           |             | -                                                                                      |             |
| Pre Filter (Washable)                   |             | ○                                                                                      |             |
| Ion Generator                           |             | -                                                                                      |             |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |             |
| Ventilation Kit                         |             | -                                                                                      |             |
| IR Receiver                             |             | -                                                                                      |             |
| Zone Controller                         |             | -                                                                                      |             |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                |             | ○                                                                                      |             |
| Wi-Fi                                   |             | PWFMD200 <sup>1)</sup>                                                                 |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table  
 1) External installation only

ARNU05GSJ\*4 / ARNU07GSJ\*4 / ARNU09GSJ\*4  
ARNU12GSJ\*4 / ARNU15GSJ\*4



| MODEL                             | UNIT                       | ARNU05GSJ*4           | ARNU07GSJ*4           | ARNU09GSJ*4           | ARNU12GSJ*4           | ARNU15GSJ*4           |                  |
|-----------------------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| Cooling Capacity                  | kW                         | 1.6                   | 2.2                   | 2.8                   | 3.6                   | 4.5                   |                  |
| Heating Capacity                  | kW                         | 1.8                   | 2.5                   | 3.2                   | 4.0                   | 5.0                   |                  |
| Power Input (H / M / L)           | Nominal W                  | 11 / 10 / 9           | 12 / 11 / 9           | 13 / 12 / 9           | 15 / 13 / 11          | 23 / 18 / 11          |                  |
| Exterior Color                    |                            | White                 | White                 | White                 | White                 | White                 |                  |
| RAL Code                          |                            | RAL 9016              |                  |
| Dimensions (W x H x D)            | Body mm                    | 818 x 316 x 189       |                  |
|                                   | Shipping mm                | 892 x 381 x 249       |                  |
| Fan                               | Type                       | Cross Flow Fan        |                  |
|                                   | Motor Output x Number      | W x No.               | 30 x 1                | 30 x 1                | 30 x 1                | 30 x 1                |                  |
|                                   | Air Flow Rate (H / M / L)  | m³/min                | 6.8 / 6.5 / 5.9       | 7.2 / 6.8 / 5.9       | 7.8 / 7.2 / 5.9       | 8.5 / 7.8 / 6.8       | 10.5 / 9.5 / 6.8 |
|                                   | Motor Type                 |                       | BLDC                  | BLDC                  | BLDC                  | BLDC                  |                  |
| Air Filter                        |                            | Pre Filter            |                  |
| Pipe Connections                  | Liquid Side                | mm (inch)             | Ø6.35 (1/4)           | Ø6.35 (1/4)           | Ø6.35 (1/4)           | Ø6.35 (1/4)           |                  |
|                                   | Gas Side                   | mm (inch)             | Ø12.7 (1/2)           | Ø12.7 (1/2)           | Ø12.7 (1/2)           | Ø12.7 (1/2)           |                  |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)             | Ø16 (5/8)             | Ø16 (5/8)             | Ø16 (5/8)             | Ø16 (5/8)             |                  |
| Weight                            | Body kg                    | 8.4                   | 8.4                   | 8.4                   | 8.4                   | 8.4                   |                  |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 30 / 29 / 28          | 32 / 30 / 28          | 34 / 32 / 28          | 37 / 34 / 30          | 42 / 39 / 32          |                  |
| Sound Power Levels (H / M / L)    | dB(A)                      | 45 / 43 / 42          | 46 / 45 / 42          | 48 / 46 / 42          | 51 / 48 / 45          | 55 / 52 / 45          |                  |
| Power Supply                      | Ø, V, Hz                   | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |                  |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C        |                  |

\* : N or C can be applied which has little bit different shape of panel.  
 Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU05GSJ*4 | ARNU07GSJ*4 | ARNU09GSJ*4                                                                            | ARNU12GSJ*4 | ARNU15GSJ*4 |
|-----------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             | -                                                                                      |             |             |
| Cassette Cover                          |             |             | -                                                                                      |             |             |
| Refrigerant Leakage Detector            |             |             | PRLDNV50                                                                               |             |             |
| EEV Kit                                 |             |             | PRGK024A0                                                                              |             |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             | -                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             | -                                                                                      |             |             |
| Zone Controller                         |             |             | -                                                                                      |             |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             | ○                                                                                      |             |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU18GSK\*4 / ARNU24GSK\*4



| MODEL                             |                            | UNIT      | ARNU18GSK*4           | ARNU24GSK*4           |
|-----------------------------------|----------------------------|-----------|-----------------------|-----------------------|
| Cooling Capacity                  |                            | kW        | 5.6                   | 7.1                   |
| Heating Capacity                  |                            | kW        | 6.3                   | 7.5                   |
| Power Input (H / M / L) Nominal   |                            | W         | 32 / 26 / 16          | 39 / 26 / 16          |
| Exterior Color                    |                            |           | White                 | White                 |
| RAL Code                          |                            |           | RAL 9016              | RAL 9016              |
| Dimensions (W x H x D)            | Body                       | mm        | 975 x 354 x 209       | 975 x 354 x 209       |
|                                   | Shipping                   | mm        | 1,063 x 420 x 274     | 1,063 x 420 x 274     |
| Fan                               |                            |           |                       |                       |
|                                   | Type                       |           | Cross Flow Fan        | Cross Flow Fan        |
|                                   | Motor Output x Number      | W x No.   | 58 x 1                | 58 x 1                |
|                                   | Air Flow Rate (H / M / L)  | m³/min    | 14.0 / 12.0 / 10.5    | 15.2 / 12.7 / 10.5    |
|                                   | Motor Type                 |           | BLDC                  | BLDC                  |
| Air Filter                        |                            |           | Pre Filter            | Pre Filter            |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø6.35 (1/4)           | Ø9.52 (3/8)           |
|                                   | Gas Side                   | mm (inch) | Ø12.7 (1/2)           | Ø15.88 (5/8)          |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8)             | Ø16 (5/8)             |
| Weight                            | Body                       | kg        | 12.2                  | 12.2                  |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 43 / 39 / 34          | 46 / 41 / 34          |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 59 / 56 / 52          | 63 / 56 / 52          |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C        | 1.0 - 1.5 x 2C        |

\* : N or C can be applied which has little bit different shape of panel

Note :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU18GSK*4 | ARNU24GSK*4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              | -           | -                                                                                      |
| Cassette Cover                          | -           | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNV50                                                                               |
| EEV Kit                                 |             | PRGK024A0                                                                              |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           | -           | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | ○                                                                                      |
| CO <sub>2</sub> Sensor                  | -           | -                                                                                      |
| Ventilation Kit                         | -           | -                                                                                      |
| IR Receiver                             | -           | -                                                                                      |
| Zone Controller                         | -           | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | ○                                                                                      |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

ARNU30GSVA4 / ARNU36GSVA4



| MODEL                             |                            | UNIT      | ARNU30GSVA4           | ARNU36GSVA4           |
|-----------------------------------|----------------------------|-----------|-----------------------|-----------------------|
| Cooling Capacity                  |                            | kW        | 8.8                   | 10.4                  |
| Heating Capacity                  |                            | kW        | 9.4                   | 10.8                  |
| Power Input (H / M / L) Nominal   |                            | W         | 54 / 43 / 31          | 85 / 51 / 36          |
| Exterior Color                    |                            |           | White                 | White                 |
| RAL Code                          |                            |           | RAL 9016              | RAL 9016              |
| Dimensions (W x H x D)            | Body                       | mm        | 1,190 x 346 x 265     | 1,190 x 346 x 265     |
|                                   | Shipping                   | mm        | 1,265 x 432 x 335     | 1,265 x 432 x 335     |
| Fan                               |                            |           |                       |                       |
|                                   | Type                       |           | Cross Flow Fan        | Cross Flow Fan        |
|                                   | Motor Output x Number      | W x No.   | 113 x 1               | 113 x 1               |
|                                   | Air Flow Rate (H / M / L)  | m³/min    | 23.0 / 20.0 / 17.0    | 26.0 / 23.0 / 19.0    |
|                                   | Motor Type                 |           | BLDC                  | BLDC                  |
| Air Filter                        |                            |           | Pre Filter            | Pre Filter            |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø9.52 (3/8)           | Ø9.52 (3/8)           |
|                                   | Gas Side                   | mm (inch) | Ø15.88 (5/8)          | Ø15.88 (5/8)          |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8)             | Ø16 (5/8)             |
| Weight                            | Body                       | kg        | 16.6                  | 16.6                  |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 49 / 44 / 42          | 52 / 47 / 43          |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 60 / 60 / 56          | 63 / 60 / 58          |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C        | 1.0 - 1.5 x 2C        |

Note :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU30GSVA4 | ARNU36GSVA4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              | -           | -                                                                                      |
| Cassette Cover                          | -           | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNV50                                                                               |
| EEV Kit                                 |             | -                                                                                      |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           | -           | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  | -           | -                                                                                      |
| Ventilation Kit                         | -           | -                                                                                      |
| IR Receiver                             | -           | -                                                                                      |
| Zone Controller                         | -           | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200 <sup>1)</sup>                                                                 |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table  
1) External installation only

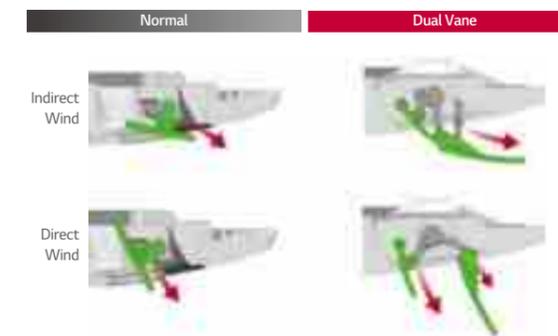


## 4 Way Air Flow with New Design

New Excellent Technology (NET) certifies new 4 way dual vane design that promotes comfortable and convenient airflow.



### \*New types wind

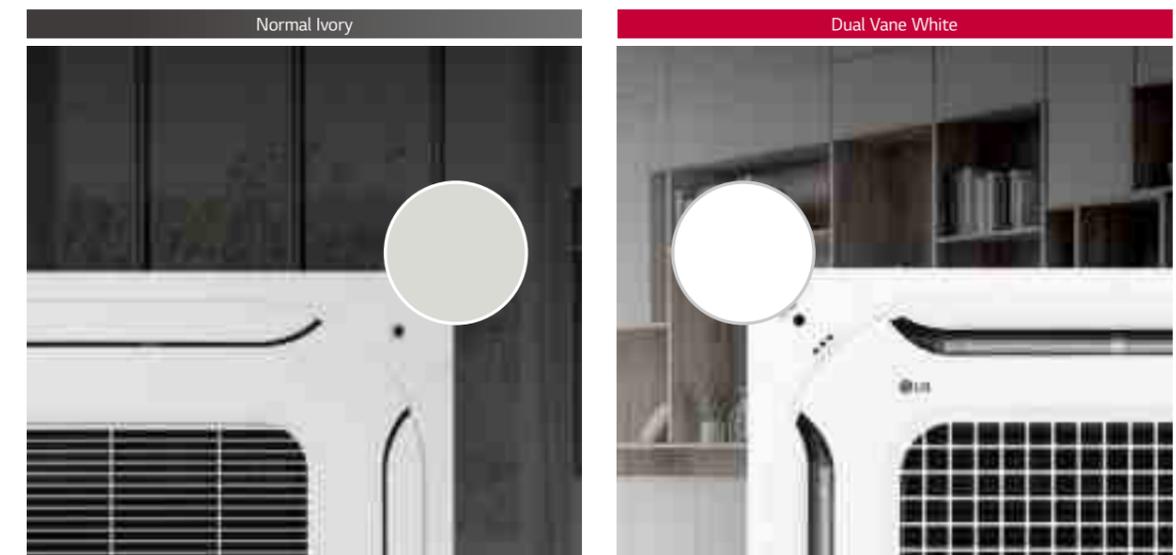


### \*6 Airflows mode



## Brighter Color

Color enhancement allows cassette to blend in to most interior ceiling spaces.



### Features & Benefits

- New dual vane 4 way cassette allows comfortable air flow
- Full 3D Turbo fan decreases air resistance, providing high air flow and low sound levels.

### Key Applications

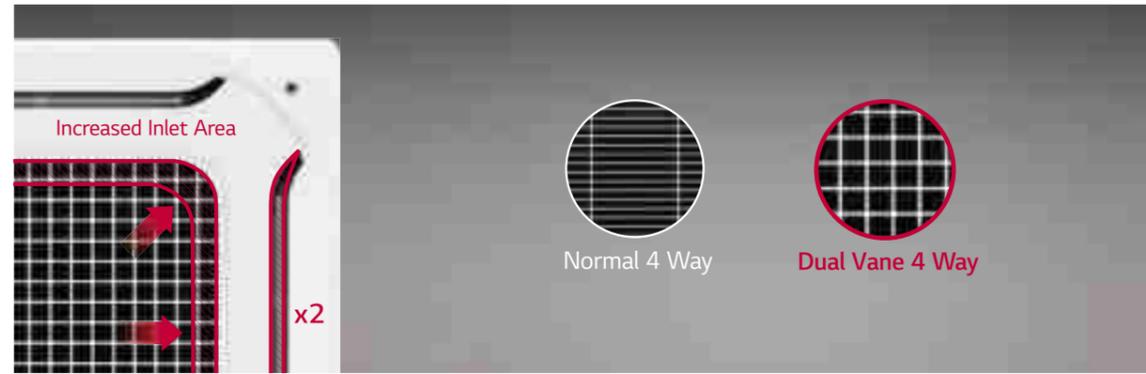
- Retail
- School
- Office
- Hotel
- Dormitory
- Restaurant

| CASSETTE          |                        | 4 WAY | 2 WAY | 1 WAY |
|-------------------|------------------------|-------|-------|-------|
| Smart             | Wi-Fi                  | ○     | ○     | ○     |
| Energy Efficiency | Human Detect Sensor    | ○     | -     | -     |
|                   | Drain Pump             | ○     | ○     | ○     |
| Comfort           | Sleep Mode             | ○     | ○     | ○     |
|                   | Timer (On / Off)       | ○     | ○     | ○     |
|                   | Timer (Weekly)         | ○     | ○     | ○     |
|                   | Two Thermistor Control | ○     | ○     | ○     |
|                   | Group Control          | ○     | ○     | ○     |

※ ○: Applied, -: Not applied

## Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



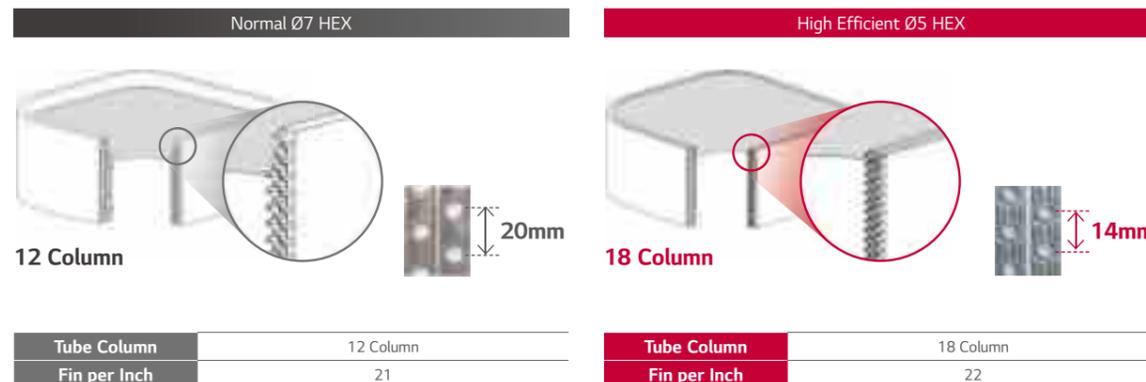
## Full 3D Turbo Fan

Full 3D Turbo fan decreases air resistance, so it creates high efficiency and reduces noise level.



## High Efficiency Heat Exchanger (HEX)

Ø5 High Density Heat Exchanger increases cooling / heating efficiency by 10%.



## Ceiling to Floor Temperature Sensing

With a special sensor that senses both ceiling and floor temperature, dual vane 4 way cassette provides comfort air.



## Human Detection Air Flow

Human detection provides users with direct or indirect air flow preferences.

### Indirect comfort

Provides air flow that blows away from user for comfort.



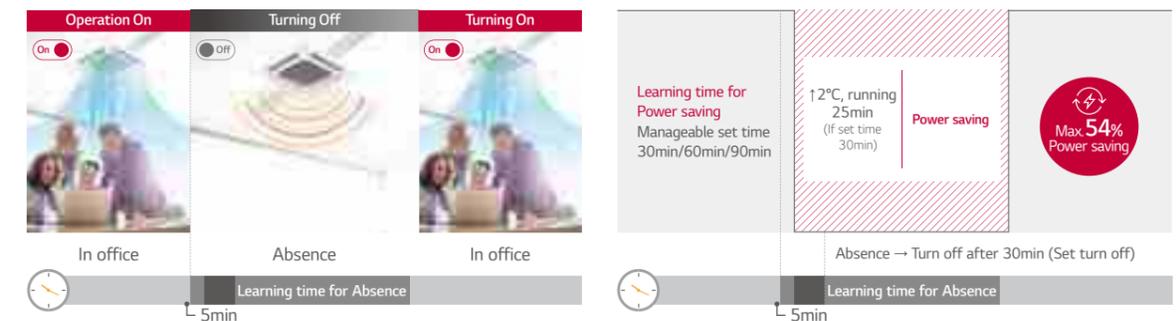
### Direct cooling

Provides air flow that blows directly onto user for cooling.



## Human Detection for Optimized Efficiency

Indoor unit senses human presence to switch on or off for maximum power savings of 54%.



※ Smart Dual Vane Indoor Unit '19 Line up.  
 ※ Data Based on actual test of LG, single product 2 hours measurement result. (Cooling 26 °C, strong wind)

## High-performance Air Cleaning

Air cleaning function provides fresh, filtered air.



## Convenient & Powerful 5-Step Air Purification

Easy-to-manage Air Purification system with one-touch Air Purification filter.

### Air Purification kit



### Cycle Management

| Pre-filter | PM1.0 Filter        | Deodorization Filter       |
|------------|---------------------|----------------------------|
| Washable   | 6 months / Washable | 6 months / Dry in sunlight |

## Air Quality Level Display

Wi-Fi functionality for anytime, anywhere indoor unit control and air quality level display.

| ① IDU LED                                                   | ② Remote controller                              | ③ Mobile                                                          |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|
| Real-time indoor air quality level displayed on indoor unit | Air quality level displayed on remote controller | Anytime, anywhere access to check & control air status via mobile |
|                                                             |                                                  |                                                                   |

## Direct Wind

Wind can reach up to 5m with plenty air volume. (@ 0.5ms)



## ThinQ Connectivity

Grille automatically detaches and re-attaches with 4 touch points for enhanced stability & convenient filter management.



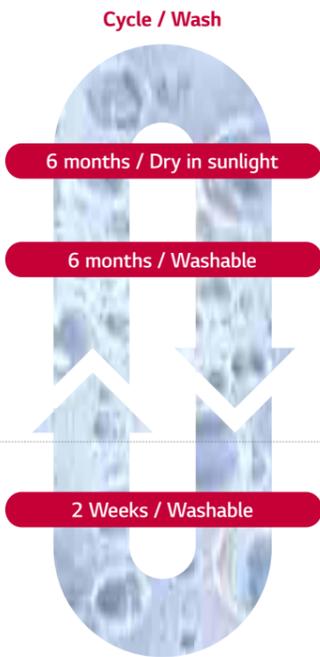
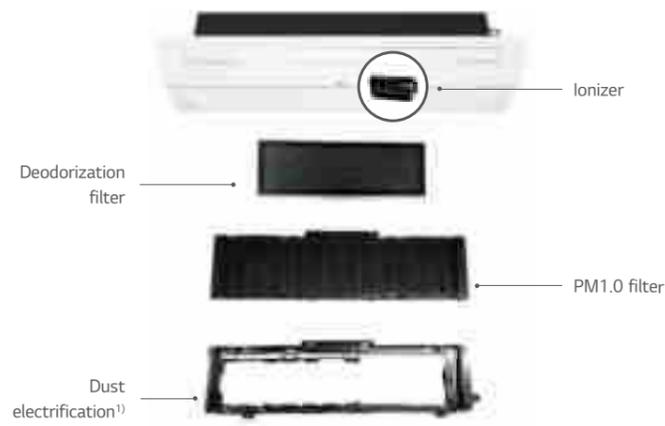
- ① Monitoring Air status : Easy to check indoor air status
  - Ultra Fine / Extra Fine / Fine Dust
  - Day / Week / Month / Yearly
- ② Mobile Remote Control : Remote control by using mobile phone
  - Control Mode / Temperature / Air flow etc.
- ③ Display Power Consumption : Check power consumption of A/C
  - Check energy display
  - Set target energy consumption level

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

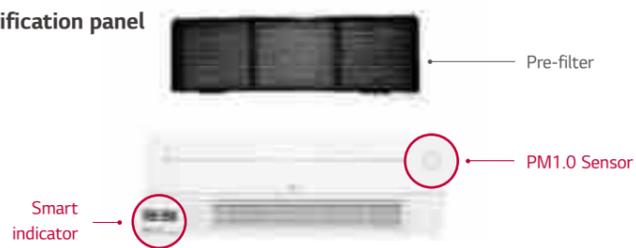
## Easy Filter Cleaning for Air Purification

Air Purification Kit filters do NOT need replacement and can be used semi-permanently. Also, thanks to easy maintenance, users can use air purification conveniently without any worries about filter's cleanliness.

### Air Purification kit



### Air Purification panel



1) It increases the electrostatic force of particle to improve collection efficiency  
 ※ Normally HEPA filter type must be replaced regularly. It means that it costs expensive for maintenance.

## Direct & Indirect Wind

Provides users with direct or indirect air flow preferences.

### Comfort indirect wind

Without touching the skin directly, a large space is comfortable!

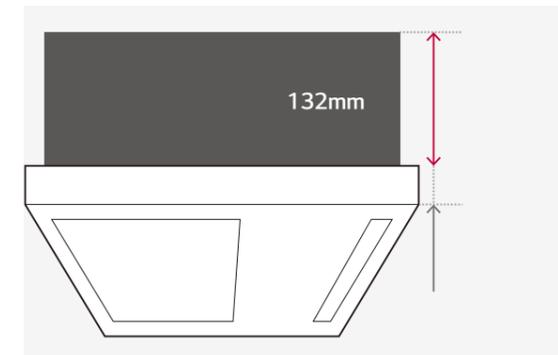


Cooler on a hot day.



## Minimized Height (1 Way)

With a height of 132mm, the LG 1 Way cassette is the ideal solution for limited-space installations.



### Size Comparison

|                | A Company | B company | LG  |
|----------------|-----------|-----------|-----|
| 1 Way Cassette | 215       | 230       | 132 |

(Unit : mm)

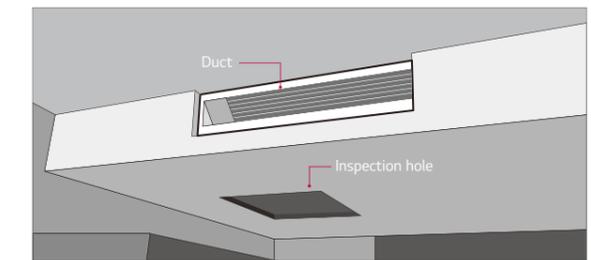
## Flexible Installation (1 Way)

1 Way cassette doesn't require the inspection access hole, so that simple installation is possible.

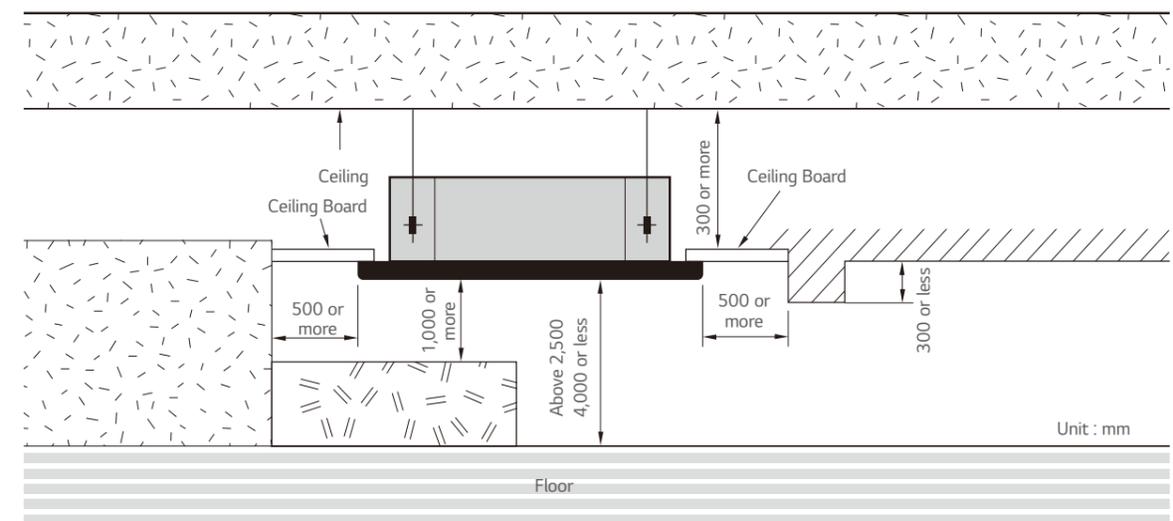
### 1 Way cassette



### Duct



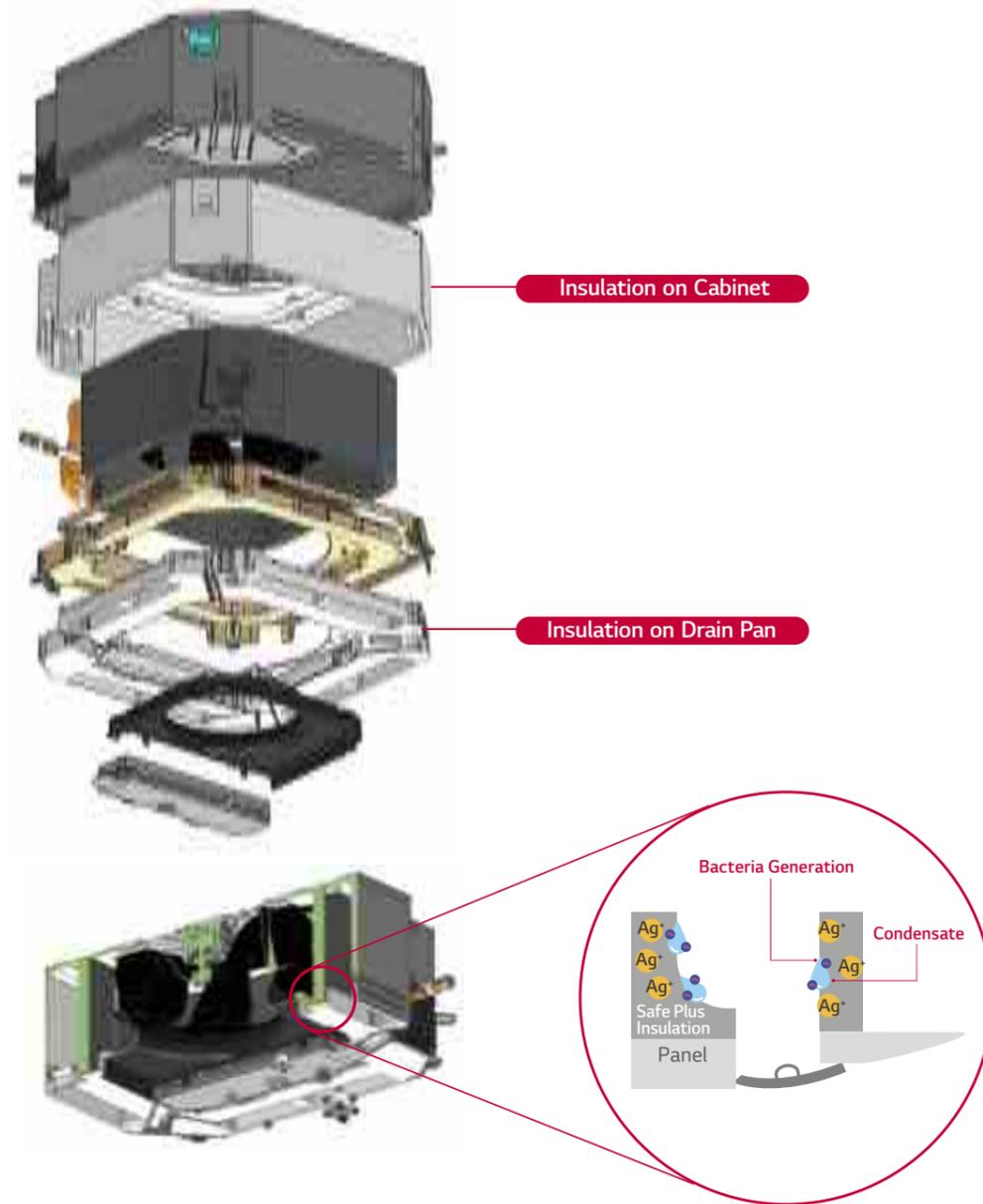
## Installation Standard (1 Way)



# Safe Plus Insulation

## Why LG Safe Plus Insulation?

Safe Plus Insulation is an antimicrobial treatment that is applied to LG MULTI V Indoor unit internal insulation components to resistance bacterial growth, and provides cleaner and fresher airflow to customer.



## What's the hygiene inside of your air conditioner?



Example of EPS Pollution case.

Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, What's the hygiene inside the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

Antimicrobial treatment on **\*EPS (Cabinet, Drain Pan, Air Guide, Insulator, Supporter)** for Air Conditioners is the first applied technology in the world, and only LG has.

## EPS for Resistant to Bacterial Growth applied product



ARNU24GTBB4 / ARNU28GTBB4  
ARNU30GTBB4



| MODEL                            |                            | UNIT                    | ARNU24GTBB4          | ARNU28GTBB4          | ARNU30GTBB4          |
|----------------------------------|----------------------------|-------------------------|----------------------|----------------------|----------------------|
| Cooling Capacity                 |                            | kW                      | 7.1                  | 8.2                  | 9.0                  |
| Heating Capacity                 |                            | kW                      | 8.0                  | 9.2                  | 10.0                 |
| Power Input (H / M / L)          | Nominal                    | W                       | 32 / 27 / 20         | 37 / 30 / 22         | 48 / 36 / 25         |
|                                  | Body                       | mm                      | 840 x 204 x 840      | 840 x 204 x 840      | 840 x 204 x 840      |
| Dimensions (W x H x D)           | Shipping                   | mm                      | 922 x 276 x 917      | 922 x 276 x 917      | 922 x 276 x 917      |
|                                  | Type                       |                         | Full 3D Turbo Fan    | Full 3D Turbo Fan    | Full 3D Turbo Fan    |
| Fan                              | Motor Output x Number      | W                       | 51 x 1               | 51 x 1               | 51 x 1               |
|                                  | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min     | 18 / 17 / 15         | 19 / 17 / 15         | 21 / 19 / 16         |
|                                  | Motor Type                 |                         | BLDC                 | BLDC                 | BLDC                 |
|                                  | Air Filter                 |                         | Pre Filter           | Pre Filter           | Pre Filter           |
| Pipe Connections                 | Liquid Side                | mm (inch)               | Ø9.52 (3/8)          | Ø9.52 (3/8)          | Ø9.52 (3/8)          |
|                                  | Gas Side                   | mm (inch)               | Ø15.88 (5/8)         | Ø15.88 (5/8)         | Ø15.88 (5/8)         |
|                                  | Drain Pipe (Internal Dia.) | mm (inch)               | Ø25 (1)              | Ø25 (1)              | Ø25 (1)              |
| Weight                           | Body                       | kg                      | 21                   | 21                   | 21                   |
| Sound Pressure Level (H / M / L) |                            | dB(A)                   | 39 / 37 / 35         | 40 / 38 / 35         | 43 / 40 / 36         |
| Sound Power Level (H / M / L)    |                            | dB(A)                   | 46 / 44 / 42         | 50 / 46 / 43         | 53 / 50 / 45         |
| Power Supply                     |                            | Ø, V, Hz                | 1, 220-240, 50       | 1, 220-240, 50       | 1, 220-240, 50       |
| Communication Cable (VCTF-SB)    |                            | mm <sup>2</sup> x cores | 1.0 - 1.5 x 2        | 1.0 - 1.5 x 2        | 1.0 - 1.5 x 2        |
|                                  | Model Name                 |                         | PT-AAGW0<br>PT-AFGW0 | PT-AAGW0<br>PT-AFGW0 | PT-AAGW0<br>PT-AFGW0 |
| Decoration Panel (Accessory)     | Exterior Color             |                         | White                | White                | White                |
|                                  | RAL Code                   |                         | RAL 9003             | RAL 9003             | RAL 9003             |
|                                  | Net Dimensions (W x H x D) | mm                      | 950 x 35 x 950       | 950 x 35 x 950       | 950 x 35 x 950       |
|                                  | Net Weight                 | kg                      | 7.1 / 7.5            | 7.1 / 7.5            | 7.1 / 7.5            |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU24GTBB4 | ARNU28GTBB4                                                                               | ARNU30GTBB4 |
|-----------------------------------------|-------------|-------------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             | ○                                                                                         |             |
| Cassette Cover                          |             | PTDCM                                                                                     |             |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                                  |             |
| EEV Kit                                 |             | -                                                                                         |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                                 |             |
| Robot Cleaner                           |             | -                                                                                         |             |
| Pre Filter (Washable)                   |             | ○                                                                                         |             |
| Ion Generator                           |             | -                                                                                         |             |
| CO <sub>2</sub> Sensor                  |             | -                                                                                         |             |
| Ventilation Kit                         |             | -                                                                                         |             |
| IR Receiver                             |             | -                                                                                         |             |
| Zone Controller                         |             | -                                                                                         |             |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320,<br>PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 Point)                |             | ○                                                                                         |             |
| Wi-Fi                                   |             | PWFMD200                                                                                  |             |
| Human Detection Sensor                  |             | PTVSA00                                                                                   |             |
| Floor Temperature Sensor                |             | ○ (only with PT-AFGW0)                                                                    |             |
| Air Purification Kit                    |             | PTAFMPO (PT-AFGW0 panel required)                                                         |             |
| Elevation Grille                        |             | -                                                                                         |             |

ARNU36GTAB4 / ARNU42GTAB4  
ARNU48GTAB4



| MODEL                            |                            | UNIT                    | ARNU36GTAB4          | ARNU42GTAB4          | ARNU48GTAB4          |
|----------------------------------|----------------------------|-------------------------|----------------------|----------------------|----------------------|
| Cooling Capacity                 |                            | kW                      | 10.6                 | 12.3                 | 14.1                 |
| Heating Capacity                 |                            | kW                      | 11.9                 | 13.8                 | 15.9                 |
| Power Input (H / M / L)          | Nominal                    | W                       | 69 / 49 / 37         | 97 / 69 / 49         | 110 / 76 / 61        |
|                                  | Body                       | mm                      | 840 x 288 x 840      | 840 x 288 x 840      | 840 x 288 x 840      |
| Dimensions (W x H x D)           | Shipping                   | mm                      | 922 x 360 x 917      | 922 x 360 x 917      | 922 x 360 x 917      |
|                                  | Type                       |                         | Full 3D Turbo Fan    | Full 3D Turbo Fan    | Full 3D Turbo Fan    |
| Fan                              | Motor Output x Number      | W                       | 135 x 1              | 135 x 1              | 135 x 1              |
|                                  | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min     | 29 / 26 / 22         | 33 / 29 / 26         | 34 / 30 / 28         |
|                                  | Motor Type                 |                         | BLDC                 | BLDC                 | BLDC                 |
|                                  | Air Filter                 |                         | Pre Filter           | Pre Filter           | Pre Filter           |
| Pipe Connections                 | Liquid Side                | mm (inch)               | Ø9.52 (3/8)          | Ø9.52 (3/8)          | Ø9.52 (3/8)          |
|                                  | Gas Side                   | mm (inch)               | Ø15.88 (5/8)         | Ø15.88 (5/8)         | Ø15.88 (5/8)         |
|                                  | Drain Pipe (Internal Dia.) | mm (inch)               | Ø25 (1)              | Ø25 (1)              | Ø25 (1)              |
| Weight                           | Body                       | kg                      | 26                   | 26                   | 26                   |
| Sound Pressure Level (H / M / L) |                            | dB(A)                   | 43 / 40 / 37         | 47 / 43 / 40         | 48 / 44 / 42         |
| Sound Power Level (H / M / L)    |                            | dB(A)                   | 54 / 51 / 47         | 56 / 53 / 49         | 58 / 54 / 53         |
| Power Supply                     |                            | Ø, V, Hz                | 1, 220-240, 50       | 1, 220-240, 50       | 1, 220-240, 50       |
| Communication Cable (VCTF-SB)    |                            | mm <sup>2</sup> x cores | 1.0 - 1.5 x 2        | 1.0 - 1.5 x 2        | 1.0 - 1.5 x 2        |
|                                  | Model Name                 |                         | PT-AAGW0<br>PT-AFGW0 | PT-AAGW0<br>PT-AFGW0 | PT-AAGW0<br>PT-AFGW0 |
| Decoration Panel (Accessory)     | Exterior Color             |                         | White                | White                | White                |
|                                  | RAL Code                   |                         | RAL 9003             | RAL 9003             | RAL 9003             |
|                                  | Net Dimensions (W x H x D) | mm                      | 950 x 35 x 950       | 950 x 35 x 950       | 950 x 35 x 950       |
|                                  | Net Weight                 | kg                      | 7.1 / 7.5            | 7.1 / 7.5            | 7.1 / 7.5            |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU36GTAB4 | ARNU42GTAB4                                                                               | ARNU48GTAB4 |
|-----------------------------------------|-------------|-------------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             | ○                                                                                         |             |
| Cassette Cover                          |             | PTDCM                                                                                     |             |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                                  |             |
| EEV Kit                                 |             | -                                                                                         |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                                 |             |
| Robot Cleaner                           |             | -                                                                                         |             |
| Pre Filter (Washable)                   |             | ○                                                                                         |             |
| Ion Generator                           |             | -                                                                                         |             |
| CO <sub>2</sub> Sensor                  |             | -                                                                                         |             |
| Ventilation Kit                         |             | -                                                                                         |             |
| IR Receiver                             |             | -                                                                                         |             |
| Zone Controller                         |             | -                                                                                         |             |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320,<br>PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 Point)                |             | ○                                                                                         |             |
| Wi-Fi                                   |             | PWFMD200                                                                                  |             |
| Human Detection Sensor                  |             | PTVSA00                                                                                   |             |
| Floor Temperature Sensor                |             | ○ (only with PT-AFGW0)                                                                    |             |
| Air Purification Kit                    |             | PTAFMPO (PT-AFGW0 panel required)                                                         |             |
| Elevation Grille                        |             | -                                                                                         |             |

High sensible

ARNU05GTAA4 / ARNU07GTAA4 / ARNU09GTAA4  
ARNU12GTAA4 / ARNU15GTAA4 / ARNU18GTAA4



| MODEL                            | UNIT                       | ARNU05GTAA4    | ARNU07GTAA4       | ARNU09GTAA4       | ARNU12GTAA4       | ARNU15GTAA4       | ARNU18GTAA4       |                |
|----------------------------------|----------------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Cooling Capacity                 | kW                         | 1.6            | 2.2               | 2.8               | 3.6               | 4.5               | 5.6               |                |
| Heating Capacity                 | kW                         | 1.8            | 2.5               | 3.2               | 4.0               | 5.0               | 6.3               |                |
| Power Input (H / M / L)          | Nominal                    | W              | 20 / 15 / 11      | 23 / 16 / 11      | 25 / 18 / 11      | 26 / 19 / 13      | 29 / 20 / 15      |                |
| Dimensions (W x H x D)           | Body                       | mm             | 840 x 288 x 840   |                |
|                                  | Shipping                   | mm             | 922 x 360 x 917   |                |
| Fan                              | Type                       |                | Full 3D Turbo Fan |                |
|                                  | Motor Output x Number      | W              | 166 x 1           |                |
|                                  | Running Current            | A              | 0.21              | 0.23              | 0.25              | 0.25              | 0.27              |                |
|                                  | Air Flow Rate (H / M / L)  | m³/min         | 18 / 15 / 13      | 19 / 16 / 13      | 19 / 16 / 13      | 20 / 17 / 15      | 20 / 17 / 15      | 21 / 19 / 16   |
|                                  | Motor Type                 |                | BLDC              | BLDC              | BLDC              | BLDC              | BLDC              | BLDC           |
| Air Filter                       |                            | Pre Filter     | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter        |                |
| Pipe Connections                 | Liquid Side                | mm (inch)      | Ø9.52 (3/8)       |                |
|                                  | Gas Side                   | mm (inch)      | Ø15.88 (5/8)      |                |
|                                  | Drain Pipe (Internal Dia.) | mm (inch)      | Ø25 (1)           |                |
| Weight                           | kg                         | 26             | 27                | 27                | 27                | 27                | 27                |                |
| Sound Pressure Level (H / M / L) | dB(A)                      | 32 / 29 / 26   | 32 / 30 / 26      | 33 / 30 / 26      | 34 / 31 / 27      | 34 / 32 / 29      | 35 / 32 / 30      |                |
| Sound Power Level (H / M / L)    | dB(A)                      | 40 / 37 / 36   | 41 / 38 / 36      | 42 / 39 / 36      | 42 / 40 / 37      | 43 / 40 / 38      | 44 / 41 / 38      |                |
| Power Supply                     | Ø, V, Hz                   | 1, 220-240, 50 | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    |                |
| Communication Cable (VCTF-SB)    | mm² x cores                | 1.0 - 1.5 x 2  | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     |                |
| Decoration Panel (Accessory)     | Model Name                 |                | PT-AAGW0          | PT-AAGW0          | PT-AAGW0          | PT-AAGW0          | PT-AAGW0          |                |
|                                  | Exterior Color             |                | White             | White             | White             | White             | White             |                |
|                                  | RAL Code                   |                | RAL 9003          |                |
|                                  | Net Dimensions (W x H x D) | mm             | 950 x 35 x 950    | 950 x 35 x 950 |
|                                  | Net Weight                 | kg             | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5      |

Note:  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU05GTAA4 | ARNU07GTAA4 | ARNU09GTAA4 | ARNU12GTAA4                                                                            | ARNU15GTAA4 | ARNU18GTAA4 |
|-----------------------------------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             |             | ○                                                                                      |             |             |
| Cassette Cover                          |             |             |             | PTDCM                                                                                  |             |             |
| Refrigerant Leakage Detector            |             |             |             | PRLDNV50                                                                               |             |             |
| EEV Kit                                 |             |             |             | -                                                                                      |             |             |
| Multi-tenant Power Module               |             |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             |             | -                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             |             | -                                                                                      |             |             |
| Zone Controller                         |             |             |             | -                                                                                      |             |             |
| Dry Contact (with additional accessory) |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 Point)                |             |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             |             | PWFMDD200                                                                              |             |             |
| Human Detection Sensor                  |             |             |             | PTVSA00                                                                                |             |             |
| Floor Temperature Sensor                |             |             |             | ○ (only with PT-AFGW0)                                                                 |             |             |
| Air Purification Kit                    |             |             |             | PTAFMPO (PT-AFGW0 panel required)                                                      |             |             |
| Elevation Grille                        |             |             |             | -                                                                                      |             |             |

High sensible

ARNU24GTAA4 / ARNU28GTAA4 / ARNU36GTAA4  
ARNU42GTAA4 / ARNU48GTAA4



| MODEL                            | UNIT                       | ARNU24GTAA4    | ARNU28GTAA4       | ARNU36GTAA4       | ARNU42GTAA4       | ARNU48GTAA4       |                |
|----------------------------------|----------------------------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Cooling Capacity                 | kW                         | 7.1            | 8.2               | 10.6              | 12.3              | 14.1              |                |
| Heating Capacity                 | kW                         | 8.0            | 9.2               | 11.9              | 13.8              | 15.9              |                |
| Power Input (H / M / L)          | Nominal                    | W              | 40 / 31 / 25      | 46 / 35 / 26      | 65 / 43 / 31      | 86 / 65 / 43      |                |
| Dimensions (W x H x D)           | Body                       | mm             | 840 x 288 x 840   |                |
|                                  | Shipping                   | mm             | 922 x 360 x 917   |                |
| Fan                              | Type                       |                | Full 3D Turbo Fan |                |
|                                  | Motor Output x Number      | W              | 166 x 1           | 166 x 1           | 166 x 1           | 166 x 1           |                |
|                                  | Running Current            | A              | 0.38              | 0.46              | 0.60              | 0.80              |                |
|                                  | Air Flow Rate (H / M / L)  | m³/min         | 23 / 21 / 19      | 24 / 22 / 20      | 28 / 24 / 21      | 31 / 28 / 24      | 33 / 28 / 26   |
|                                  | Motor Type                 |                | BLDC              | BLDC              | BLDC              | BLDC              | BLDC           |
| Air Filter                       |                            | Pre Filter     | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter        |                |
| Pipe Connections                 | Liquid Side                | mm (inch)      | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |                |
|                                  | Gas Side                   | mm (inch)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      |                |
|                                  | Drain Pipe (Internal Dia.) | mm (inch)      | Ø25 (1)           | Ø25 (1)           | Ø25 (1)           | Ø25 (1)           |                |
| Weight                           | kg                         | 27             | 27                | 27                | 27                | 27                |                |
| Sound Pressure Level (H / M / L) | dB(A)                      | 39 / 36 / 33   | 40 / 37 / 34      | 42 / 39 / 35      | 46 / 42 / 39      | 47 / 43 / 41      |                |
| Sound Power Level (H / M / L)    | dB(A)                      | 47 / 45 / 42   | 48 / 46 / 42      | 51 / 48 / 44      | 54 / 51 / 48      | 56 / 52 / 50      |                |
| Power Supply                     | Ø, V, Hz                   | 1, 220-240, 50 | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    |                |
| Communication Cable (VCTF-SB)    | mm² x cores                | 1.0 - 1.5 x 2  | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     | 1.0 - 1.5 x 2     |                |
| Decoration Panel (Accessory)     | Model Name                 |                | PT-AAGW0          | PT-AAGW0          | PT-AAGW0          | PT-AAGW0          |                |
|                                  | Exterior Color             |                | White             | White             | White             | White             |                |
|                                  | RAL Code                   |                | RAL 9003          | RAL 9003          | RAL 9003          | RAL 9003          |                |
|                                  | Net Dimensions (W x H x D) | mm             | 950 x 35 x 950    | 950 x 35 x 950 |
|                                  | Net Weight                 | kg             | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5         | 7.1 / 7.5      |

Note:  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU24GTAA4 | ARNU28GTAA4 | ARNU36GTAA4 | ARNU42GTAA4                                                                            | ARNU48GTAA4 |
|-----------------------------------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             |             |             | ○                                                                                      |             |
| Cassette Cover                          |             |             |             | PTDCM                                                                                  |             |
| Refrigerant Leakage Detector            |             |             |             | PRLDNV50                                                                               |             |
| EEV Kit                                 |             |             |             | -                                                                                      |             |
| Multi-tenant Power Module               |             |             |             | PINPMB001                                                                              |             |
| Robot Cleaner                           |             |             |             | -                                                                                      |             |
| Pre Filter (Washable)                   |             |             |             | ○                                                                                      |             |
| Ion Generator                           |             |             |             | -                                                                                      |             |
| CO <sub>2</sub> Sensor                  |             |             |             | -                                                                                      |             |
| Ventilation Kit                         |             |             |             | -                                                                                      |             |
| IR Receiver                             |             |             |             | -                                                                                      |             |
| Zone Controller                         |             |             |             | -                                                                                      |             |
| Dry Contact (with additional accessory) |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 Point)                |             |             |             | ○                                                                                      |             |
| Wi-Fi                                   |             |             |             | PWFMDD200                                                                              |             |
| Human Detection Sensor                  |             |             |             | PTVSA00                                                                                |             |
| Floor Temperature Sensor                |             |             |             | ○ (only with PT-AFGW0)                                                                 |             |
| Air Purification Kit                    |             |             |             | PTAFMPO (PT-AFGW0 panel required)                                                      |             |
| Elevation Grille                        |             |             |             | -                                                                                      |             |

**ARNU05GTRB4 / ARNU07GTRB4  
ARNU09GTRB4 / ARNU12GTRB4**



| MODEL                             | UNIT                       | ARNU05GTRB4                                           | ARNU07GTRB4                                        | ARNU09GTRB4                                        | ARNU12GTRB4                                        |
|-----------------------------------|----------------------------|-------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Cooling Capacity                  | kW                         | 1.6                                                   | 2.2                                                | 2.8                                                | 3.6                                                |
| Heating Capacity                  | kW                         | 1.8                                                   | 2.5                                                | 3.2                                                | 4.0                                                |
| Power Input (H / M / L)           | Nominal W                  | 13 / 12 / 11                                          | 13 / 12 / 11                                       | 14 / 13 / 12                                       | 17 / 15 / 13                                       |
| Dimensions (W x H x D)            | Body                       | 570 x 214 x 570                                       | 570 x 214 x 570                                    | 570 x 214 x 570                                    | 570 x 214 x 570                                    |
|                                   | Shipping                   | 667 x 285 x 646                                       | 667 x 285 x 646                                    | 667 x 285 x 646                                    | 667 x 285 x 646                                    |
| Fan                               | Type                       | Turbo Fan                                             | Turbo Fan                                          | Turbo Fan                                          | Turbo Fan                                          |
|                                   | Motor Output x Number      | W 43 x 1                                              | 43 x 1                                             | 43 x 1                                             | 43 x 1                                             |
|                                   | Air Flow Rate (H / M / L)  | m³/min 7.5 / 7.0 / 6.6                                | 7.5 / 7.0 / 6.6                                    | 8.0 / 7.5 / 7.1                                    | 8.7 / 8.0 / 7.0                                    |
|                                   | Motor Type                 | BLDC                                                  | BLDC                                               | BLDC                                               | BLDC                                               |
| Air Filter                        |                            | Pre Filter                                            | Pre Filter                                         | Pre Filter                                         | Pre Filter                                         |
| Pipe Connections                  | Liquid Side                | mm (inch) Ø6.35 (1/4)                                 | Ø6.35 (1/4)                                        | Ø6.35 (1/4)                                        | Ø6.35 (1/4)                                        |
|                                   | Gas Side                   | mm (inch) Ø12.7 (1/2)                                 | Ø12.7 (1/2)                                        | Ø12.7 (1/2)                                        | Ø12.7 (1/2)                                        |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) Ø25 (1)                                     | Ø25 (1)                                            | Ø25 (1)                                            | Ø25 (1)                                            |
| Weight                            | Body                       | kg 12.6                                               | 12.6                                               | 13.7                                               | 13.7                                               |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 29 / 27 / 26                                          | 29 / 27 / 26                                       | 30 / 29 / 27                                       | 32 / 30 / 27                                       |
| Sound Power Levels (H / M / L)    | dB(A)                      | 47 / 46 / 45                                          | 47 / 46 / 45                                       | 48 / 46 / 45                                       | 51 / 48 / 45                                       |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50                                        | 1, 220-240, 50                                     | 1, 220-240, 50                                     | 1, 220-240, 50                                     |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C                                        | 1.0 - 1.5 x 2C                                     | 1.0 - 1.5 x 2C                                     | 1.0 - 1.5 x 2C                                     |
| Decoration Panel (Accessory)      | Model Name                 | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                        | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                     | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                     | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                     |
|                                   | Exterior Color             | Morning Fog<br>Morning Fog<br>White                   | Morning Fog<br>Morning Fog<br>White                | Morning Fog<br>Morning Fog<br>White                | Morning Fog<br>Morning Fog<br>White                |
|                                   | RAL Code                   | RAL 9001<br>RAL 9001<br>RAL 9003                      | RAL 9001<br>RAL 9001<br>RAL 9003                   | RAL 9001<br>RAL 9001<br>RAL 9003                   | RAL 9001<br>RAL 9001<br>RAL 9003                   |
|                                   | Net Dimensions (W x H x D) | mm 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 | 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 | 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 | 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 |
|                                   | Net Weight                 | kg 3.2 / 3.0 / 2.9                                    | 3.2 / 3.0 / 2.9                                    | 3.2 / 3.0 / 2.9                                    | 3.2 / 3.0 / 2.9                                    |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

**Accessories**

| CHASSIS                                 | ARNU05GTRB4 | ARNU07GTRB4 | ARNU09GTRB4                                                                               | ARNU12GTRB4 |
|-----------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             |             | ○                                                                                         |             |
| Cassette Cover                          |             |             | PTDCQ                                                                                     |             |
| Refrigerant Leakage Detector            |             |             | PRLDNVSO                                                                                  |             |
| EEV Kit                                 |             |             | PRGK024A0 (-4.5kW)                                                                        |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                                 |             |
| Robot Cleaner                           |             |             | -                                                                                         |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                         |             |
| Ion Generator                           |             |             | -                                                                                         |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                         |             |
| Ventilation Kit                         |             |             | PTVK430                                                                                   |             |
| IR Receiver                             |             |             | -                                                                                         |             |
| Zone Controller                         |             |             | -                                                                                         |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320,<br>PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                |             |             | ○                                                                                         |             |
| Wi-Fi                                   |             |             | PWFMD200                                                                                  |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

**ARNU15GTQB4 / ARNU18GTQB4  
ARNU21GTQB4**



| MODEL                             | UNIT                       | ARNU15GTQB4                                           | ARNU18GTQB4                                        | ARNU21GTQB4                                        |
|-----------------------------------|----------------------------|-------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Cooling Capacity                  | kW                         | 4.5                                                   | 5.6                                                | 6.0                                                |
| Heating Capacity                  | kW                         | 5.0                                                   | 6.3                                                | 6.8                                                |
| Power Input (H / M / L)           | Nominal W                  | 24 / 21 / 18                                          | 25 / 22 / 19                                       | 28 / 23 / 20                                       |
| Dimensions (W x H x D)            | Body                       | 570 x 256 x 570                                       | 570 x 256 x 570                                    | 570 x 256 x 570                                    |
|                                   | Shipping                   | 667 x 327 x 646                                       | 667 x 327 x 646                                    | 667 x 327 x 646                                    |
| Fan                               | Type                       | Turbo Fan                                             | Turbo Fan                                          | Turbo Fan                                          |
|                                   | Motor Output x Number      | W 43 x 1                                              | 43 x 1                                             | 43 x 1                                             |
|                                   | Air Flow Rate (H / M / L)  | m³/min 11.0 / 10.0 / 9.3                              | 11.2 / 11.0 / 10.0                                 | 12.0 / 11.1 / 9.4                                  |
|                                   | Motor Type                 | BLDC                                                  | BLDC                                               | BLDC                                               |
| Air Filter                        |                            | Pre Filter                                            | Pre Filter                                         | Pre Filter                                         |
| Pipe Connections                  | Liquid Side                | mm (inch) Ø6.35 (1/4)                                 | Ø6.35 (1/4)                                        | Ø9.52 (3/8)                                        |
|                                   | Gas Side                   | mm (inch) Ø12.7 (1/2)                                 | Ø12.7 (1/2)                                        | Ø15.88 (5/8)                                       |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) Ø25 (1)                                     | Ø25 (1)                                            | Ø25 (1)                                            |
| Weight                            | Body                       | kg 15.0                                               | 15.0                                               | 15.0                                               |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 36 / 34 / 32                                          | 37 / 35 / 34                                       | 40 / 38 / 34                                       |
| Sound Power Levels (H / M / L)    | dB(A)                      | 52 / 50 / 46                                          | 52 / 50 / 46                                       | 54 / 52 / 46                                       |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50                                        | 1, 220-240, 50                                     | 1, 220-240, 50                                     |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C                                        | 1.0 - 1.5 x 2C                                     | 1.0 - 1.5 x 2C                                     |
| Decoration Panel (Accessory)      | Model Name                 | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                        | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                     | PT-UQC<br>PT-QCHW0<br>PT-QAGW0                     |
|                                   | Exterior Color             | Morning Fog<br>Morning Fog<br>White                   | Morning Fog<br>Morning Fog<br>White                | Morning Fog<br>Morning Fog<br>White                |
|                                   | RAL Code                   | RAL 9001<br>RAL 9001<br>RAL 9003                      | RAL 9001<br>RAL 9001<br>RAL 9003                   | RAL 9001<br>RAL 9001<br>RAL 9003                   |
|                                   | Net Dimensions (W x H x D) | mm 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 | 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 | 700 x 22 x 700<br>620 x 34 x 620<br>620 x 35 x 620 |
|                                   | Net Weight                 | kg 3.2 / 3.0 / 2.9                                    | 3.2 / 3.0 / 2.9                                    | 3.2 / 3.0 / 2.9                                    |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

**Accessories**

| CHASSIS                                 | ARNU15GTQB4 | ARNU18GTQB4 | ARNU21GTQB4                                                                               |
|-----------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------|
| Drain Pump                              |             |             | ○                                                                                         |
| Cassette Cover                          |             |             | PTDCQ                                                                                     |
| Refrigerant Leakage Detector            |             |             | PRLDNVSO                                                                                  |
| EEV Kit                                 |             |             | PRGK024A0 (-4.5kW)                                                                        |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                                 |
| Robot Cleaner                           |             |             | -                                                                                         |
| Pre Filter (Washable)                   |             |             | ○                                                                                         |
| Ion Generator                           |             |             | -                                                                                         |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                         |
| Ventilation Kit                         |             |             | PTVK430                                                                                   |
| IR Receiver                             |             |             | -                                                                                         |
| Zone Controller                         |             |             | -                                                                                         |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320,<br>PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             |             | ○                                                                                         |
| Wi-Fi                                   |             |             | PWFMD200                                                                                  |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU09GTSC4 / ARNU12GTSC4



| MODEL                             |                            | UNIT                | ARNU09GTSC4       | ARNU12GTSC4       |
|-----------------------------------|----------------------------|---------------------|-------------------|-------------------|
| Cooling Capacity                  |                            | kW                  | 2.8               | 3.6               |
| Heating Capacity                  |                            | kW                  | 3.2               | 4.0               |
| Power Input (H / M / L)           | Nominal                    | W                   | 16 / 14 / 11      | 18 / 14 / 11      |
|                                   |                            |                     |                   |                   |
| Dimensions (W x H x D)            | Body                       | mm                  | 830 x 225 x 600   | 830 x 225 x 600   |
|                                   | Shipping                   | mm                  | 1,055 x 290 x 682 | 1,055 x 290 x 682 |
| Fan                               | Type                       |                     | Turbo Fan         | Turbo Fan         |
|                                   | Motor Output x Number      | W x No.             | 37 x 1            | 37 x 1            |
|                                   | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min | 10.8 / 9.8 / 9.1  | 11.1 / 10.3 / 9.1 |
|                                   | Motor Type                 |                     | BLDC              | BLDC              |
| Air Filter                        |                            |                     | Pre Filter        | Pre Filter        |
| Pipe Connections                  | Liquid Side                | mm (inch)           | Ø6.35 (1/4)       | Ø6.35 (1/4)       |
|                                   | Gas Side                   | mm (inch)           | Ø12.7 (1/2)       | Ø12.7 (1/2)       |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)           | Ø25 (1)           | Ø25 (1)           |
| Weight                            | Body                       | kg                  | 18.1              | 18.1              |
| Sound Pressure Levels (H / M / L) |                            | dB(A)               | 33 / 31 / 29      | 34 / 32 / 29      |
| Sound Power Levels (H / M / L)    |                            | dB(A)               | 44 / 41 / 40      | 44 / 42 / 40      |
| Power Supply                      |                            | Ø, V, Hz            | 1, 220-240, 50    | 1, 220-240, 50    |
| Communication Cable               |                            | mm <sup>2</sup>     | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    |
| Decoration Panel (Accessory)      | Model Name                 |                     | PT-USC            | PT-USC            |
|                                   | Exterior Color             |                     | Morning Fog       | Morning Fog       |
|                                   | RAL Code                   |                     | RAL 9001          | RAL 9001          |
|                                   | Net Dimensions (W x H x D) | mm                  | 1,100 x 28 x 690  | 1,100 x 28 x 690  |
|                                   | Net Weight                 | kg                  | 4.7               | 4.7               |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU09GTSC4 | ARNU12GTSC4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | ○                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |
| EEV Kit                                 |             | PRGK024A0 (-5.6kW)                                                                     |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | -                                                                                      |
| Zone Controller                         |             | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU18GTSC4 / ARNU24GTSC4



| MODEL                             |                            | UNIT                | ARNU18GTSC4       | ARNU24GTSC4        |
|-----------------------------------|----------------------------|---------------------|-------------------|--------------------|
| Cooling Capacity                  |                            | kW                  | 5.6               | 7.1                |
| Heating Capacity                  |                            | kW                  | 6.3               | 8.0                |
| Power Input (H / M / L)           | Nominal                    | W                   | 19 / 16 / 14      | 31 / 22 / 14       |
|                                   |                            |                     |                   |                    |
| Dimensions (W x H x D)            | Body                       | mm                  | 830 x 225 x 600   | 830 x 225 x 600    |
|                                   | Shipping                   | mm                  | 1,055 x 290 x 682 | 1,055 x 290 x 682  |
| Fan                               | Type                       |                     | Turbo Fan         | Turbo Fan          |
|                                   | Motor Output x Number      | W x No.             | 37 x 1            | 37 x 1             |
|                                   | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min | 11.8 / 10.8 / 9.8 | 14.5 / 12.4 / 10.3 |
|                                   | Motor Type                 |                     | BLDC              | BLDC               |
| Air Filter                        |                            |                     | Pre Filter        | Pre Filter         |
| Pipe Connections                  | Liquid Side                | mm (inch)           | Ø6.35 (1/4)       | Ø9.52 (3/8)        |
|                                   | Gas Side                   | mm (inch)           | Ø12.7 (1/2)       | Ø15.88 (5/8)       |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)           | Ø25 (1)           | Ø25 (1)            |
| Weight                            | Body                       | kg                  | 18.1              | 18.1               |
| Sound Pressure Levels (H / M / L) |                            | dB(A)               | 35 / 33 / 31      | 40 / 37 / 33       |
| Sound Power Levels (H / M / L)    |                            | dB(A)               | 45 / 44 / 41      | 51 / 48 / 42       |
| Power Supply                      |                            | Ø, V, Hz            | 1, 220-240, 50    | 1, 220-240, 50     |
| Communication Cable               |                            | mm <sup>2</sup>     | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C     |
| Decoration Panel (Accessory)      | Model Name                 |                     | PT-USC            | PT-USC             |
|                                   | Exterior Color             |                     | Morning Fog       | Morning Fog        |
|                                   | RAL Code                   |                     | RAL 9001          | RAL 9001           |
|                                   | Net Dimensions (W x H x D) | mm                  | 1,100 x 28 x 690  | 1,100 x 28 x 690   |
|                                   | Net Weight                 | kg                  | 4.7               | 4.7                |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| Chassis                                 | ARNU18GTSC4 | ARNU24GTSC4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | ○                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |
| EEV Kit                                 |             | PRGK024A0 (-5.6kW)                                                                     |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | -                                                                                      |
| Zone Controller                         |             | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU07GTUB4 / ARNU09GTUB4  
ARNU12GTUB4



| MODEL                             |                            | UNIT      | ARNU07GTUB4                  | ARNU09GTUB4                  | ARNU12GTUB4                  |
|-----------------------------------|----------------------------|-----------|------------------------------|------------------------------|------------------------------|
| Cooling Capacity                  |                            | kW        | 2.2                          | 2.8                          | 3.6                          |
| Heating Capacity                  |                            | kW        | 2.5                          | 3.2                          | 4.0                          |
| Power Input (H / M / L)           | Nominal                    | W         | 20 / 18 / 16                 | 22 / 20 / 18                 | 24 / 22 / 20                 |
|                                   | Body                       | mm        | 860 x 132 x 450              | 860 x 132 x 450              | 860 x 132 x 450              |
| Dimensions (W x H x D)            | Shipping                   | mm        | 1,129 x 259 x 538            | 1,129 x 259 x 538            | 1,129 x 259 x 538            |
|                                   | Type                       |           | Cross Flow Fan               | Cross Flow Fan               | Cross Flow Fan               |
| Fan                               | Motor Output x Number      | W x No.   | 30 x 1                       | 30 x 1                       | 30 x 1                       |
|                                   | Air Flow Rate (H / M / L)  | m³/min    | 8.2 / 7.3 / 6.4              | 9.2 / 8.6 / 8.2              | 10.0 / 9.2 / 8.2             |
|                                   | Motor Type                 |           | BLDC                         | BLDC                         | BLDC                         |
| Air Filter                        |                            |           | Pre Filter                   | Pre Filter                   | Pre Filter                   |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø6.35 (1/4)                  | Ø6.35 (1/4)                  | Ø6.35 (1/4)                  |
|                                   | Gas Side                   | mm (inch) | Ø12.7 (1/2)                  | Ø12.7 (1/2)                  | Ø12.7 (1/2)                  |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1)                      | Ø25 (1)                      | Ø25 (1)                      |
| Weight                            | Body                       | kg        | 12.2                         | 12.2                         | 12.2                         |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 32 / 29 / 25                 | 35 / 34 / 32                 | 38 / 35 / 32                 |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 47 / 44 / 41                 | 51 / 49 / 47                 | 52 / 51 / 47                 |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-240, 50               | 1, 220-240, 50               | 1, 220-240, 50               |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C               | 1.0 - 1.5 x 2C               | 1.0 - 1.5 x 2C               |
| Decoration Panel (Accessory)      | Model Name                 |           | PT-UAHGO, PT-UAHWO, PT-UPHGO | PT-UAHGO, PT-UAHWO, PT-UPHGO | PT-UAHGO, PT-UAHWO, PT-UPHGO |
|                                   | Exterior Color             |           | Noble White                  | Noble White                  | Noble White                  |
|                                   | RAL Code                   |           | RAL 9003                     | RAL 9003                     | RAL 9003                     |
|                                   | Net Dimensions (W x H x D) | mm        | 1,160 x 34 x 500             | 1,160 x 34 x 500             | 1,160 x 34 x 500             |
|                                   |                            | mm        | 1,100 x 34 x 500             | 1,100 x 34 x 500             | 1,100 x 34 x 500             |
|                                   | Net Weight                 |           | kg                           | 3.9 / 3.3 / 4.1              | 3.9 / 3.3 / 4.1              |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU07GTUB4 | ARNU09GTUB4                                                                            | ARNU12GTUB4 |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             | ○                                                                                      |             |
| Cassette Cover                          |             | -                                                                                      |             |
| Refrigerant Leakage Detector            |             | PRLDNVS0                                                                               |             |
| EEV Kit                                 |             | PRGK024A0                                                                              |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |             |
| Robot Cleaner                           |             | -                                                                                      |             |
| Pre Filter (Washable)                   |             | ○                                                                                      |             |
| Ion Generator                           |             | -                                                                                      |             |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |             |
| Ventilation Kit                         |             | -                                                                                      |             |
| IR Receiver                             |             | -                                                                                      |             |
| Zone Controller                         |             | -                                                                                      |             |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                |             | ○                                                                                      |             |
| Air Cleaning Kit                        |             | PTAHTPO                                                                                |             |
| Wi-Fi                                   |             | PWFMDD200                                                                              |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU18GTTB4 / ARNU24GTTB4



| MODEL                             |                            | UNIT      | ARNU18GTTB4                  | ARNU24GTTB4                  |
|-----------------------------------|----------------------------|-----------|------------------------------|------------------------------|
| Cooling Capacity                  |                            | kW        | 5.6                          | 7.1                          |
| Heating Capacity                  |                            | kW        | 6.3                          | 7.1                          |
| Power Input (H / M / L)           | Nominal                    | W         | 38 / 28 / 24                 | 51 / 33 / 26                 |
|                                   | Body                       | mm        | 1,180 x 132 x 450            | 1,180 x 132 x 450            |
| Dimensions (W x H x D)            | Shipping                   | mm        | 1,499 x 259 x 538            | 1,499 x 259 x 538            |
|                                   | Type                       |           | Cross Flow Fan               | Cross Flow Fan               |
| Fan                               | Motor Output x Number      | W x No.   | 30 x 1                       | 30 x 1                       |
|                                   | Air Flow Rate (H / M / L)  | m³/min    | 13.3 / 12.1 / 10.9           | 14.6 / 13.3 / 11.5           |
|                                   | Motor Type                 |           | BLDC                         | BLDC                         |
| Air Filter                        |                            |           | Pre Filter                   | Pre Filter                   |
| Pipe Connections                  | Liquid Side                | mm (inch) | Ø6.35 (1/4)                  | Ø9.52 (3/8)                  |
|                                   | Gas Side                   | mm (inch) | Ø12.7 (1/2)                  | Ø15.88 (5/8)                 |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1)                      | Ø25 (1)                      |
| Weight                            | Body                       | kg        | 15.6                         | 15.6                         |
| Sound Pressure Levels (H / M / L) |                            | dB(A)     | 40 / 37 / 35                 | 43 / 40 / 36                 |
| Sound Power Levels (H / M / L)    |                            | dB(A)     | 55 / 51 / 47                 | 58 / 53 / 49                 |
| Power Supply                      |                            | Ø, V, Hz  | 1, 220-240, 50               | 1, 220-240, 50               |
| Transmission Cable                |                            | mm²       | 1.0 - 1.5 x 2C               | 1.0 - 1.5 x 2C               |
| Decoration Panel (Accessory)      | Model Name                 |           | PT-TAHGO, PT-TAHWO, PT-TPHGO | PT-TAHGO, PT-TAHWO, PT-TPHGO |
|                                   | Exterior Color             |           | Noble White                  | Noble White                  |
|                                   | RAL Code                   |           | RAL 9003                     | RAL 9003                     |
|                                   | Net Dimensions (W x H x D) | mm        | 1,480 x 34 x 500             | 1,480 x 34 x 500             |
|                                   |                            | mm        | 1,420 x 34 x 500             | 1,420 x 34 x 500             |
|                                   | Net Weight                 |           | kg                           | 4.8 / 4.5 / 4.9              |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

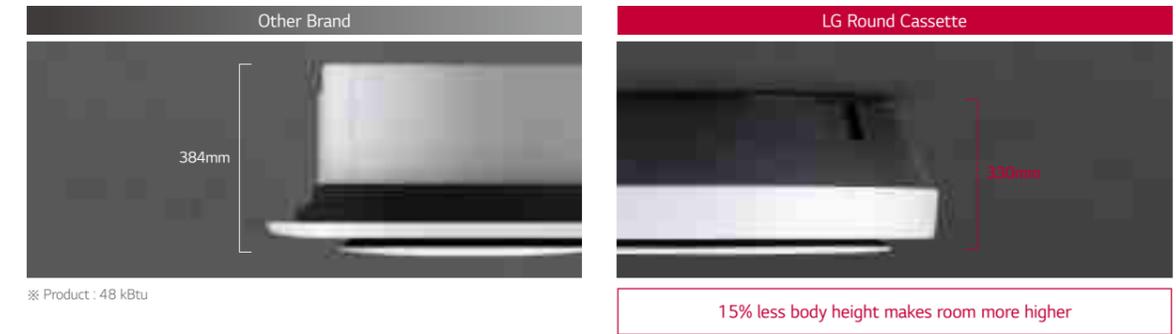
| CHASSIS                                 | ARNU18GTTB4 | ARNU24GTTB4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | ○                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNVS0                                                                               |
| EEV Kit                                 |             | -                                                                                      |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | -                                                                                      |
| Zone Controller                         |             | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Air Cleaning Kit                        |             | PTAHTPO                                                                                |
| Wi-Fi                                   |             | PWFMDD200                                                                              |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table



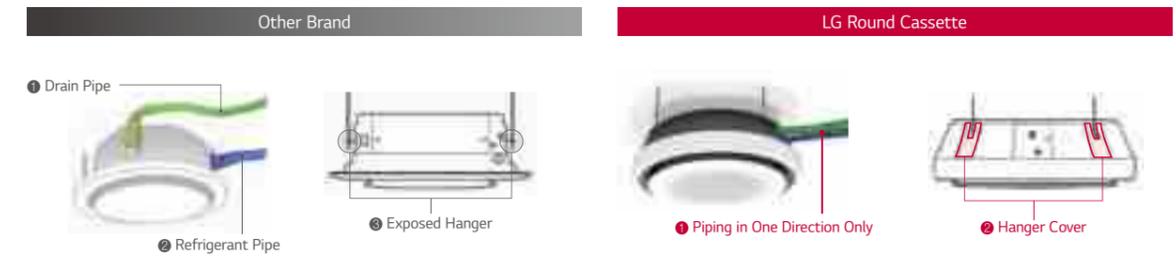
## Slim and Compact Design

Reduce the height of the body by 15%, save space and maximize the openness of the interior space.



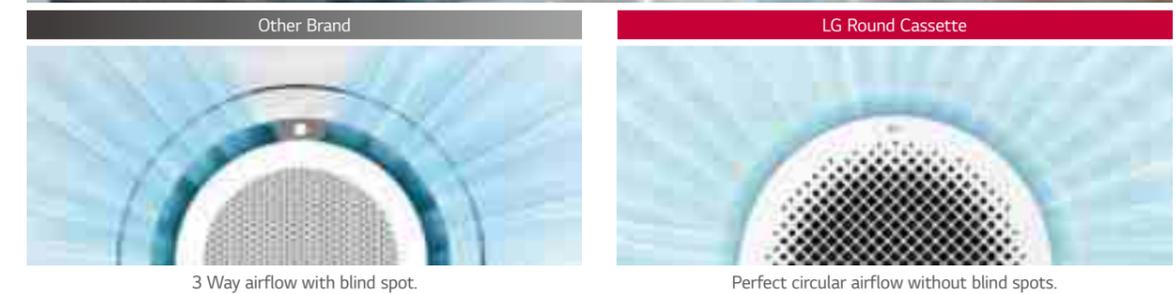
## Minimal Exposure Design

Pipes are brought together in one place to minimize exposure. Hanger covers hide installations to add a clean look.



## Perfect Round Air Flow

Perfect round flow without blind spots.



### Features & Benefits

- Luxury round design can make a luxurious space with a round design considering side view.
- Perfect round air flow without blind spots.

### Key Applications

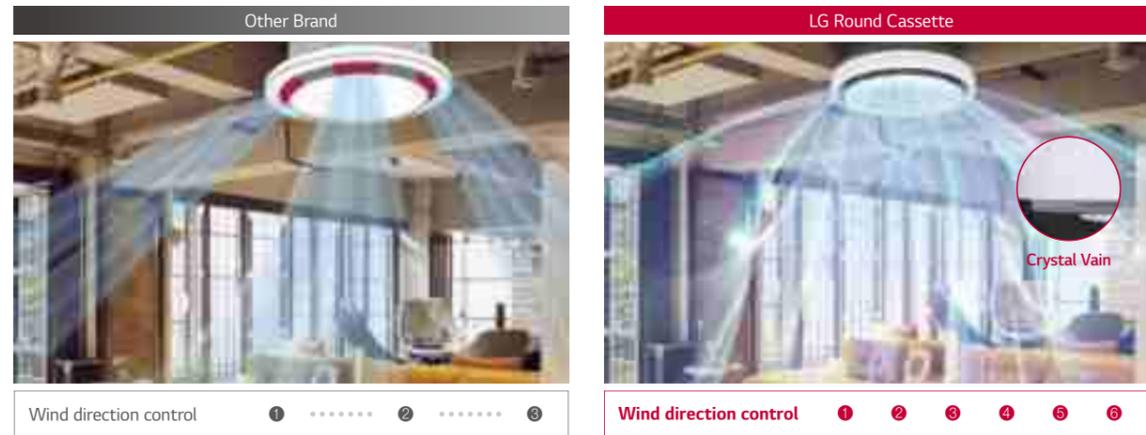
- Retail
- Office
- Restaurant
- Hotel

|                   | CASSETTE               | ROUND |
|-------------------|------------------------|-------|
| Smart             | Wi-Fi                  | ○     |
| Energy Efficiency | Human Detect Sensor    | -     |
| Comfort           | Drain Pump             | ○     |
|                   | Sleep Mode             | ○     |
|                   | Timer (On / Off)       | ○     |
|                   | Timer (Weekly)         | ○     |
|                   | Two Thermistor Control | ○     |
|                   | Group Control          | ○     |

※ ○: Applied, -: Not applied

## Visible Air Flow

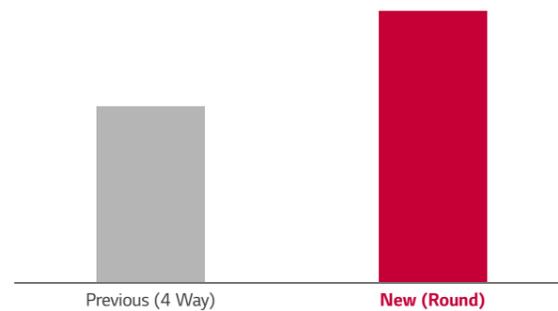
With crystal vein for 6-step precision control, you can send cool / heated air wherever you want.



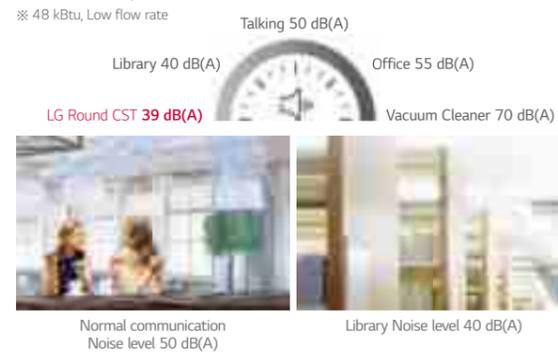
## Powerful and Quiet Air Flow

3D fan increases airflow by 5% and noise reduction technology makes a quieter, more comfortable space.

Full 3D Fan, Air flow rate 5% ↑



Full 3D Fan, Low noise



## 30% Faster in Cooling

Larger airflow rate, cooling rate is faster than 30%.



※ Based on test results from LG chamber; this image is designed to help customers understand. Experimental environment: height 3.2m, 48 kbtu, cooling mode, high flow rate, horizontal air flow direction

## ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



| MODEL                            | UNIT                                | ARNU24GTYA4         | ARNU36GTYA4         | ARNU48GTYA4         |
|----------------------------------|-------------------------------------|---------------------|---------------------|---------------------|
| Cooling Capacity                 | kW                                  | 7.1                 | 10.6                | 14.1                |
| Heating Capacity                 | kW                                  | 8.0                 | 11.9                | 15.9                |
| Power Input (H / M / L)          | Nominal W                           | 44 / 36 / 29        | 63 / 47 / 36        | 98 / 70 / 44        |
| Dimensions (W x H x D)           | Body mm                             | 1,050 x 330 x 1,050 | 1,050 x 330 x 1,050 | 1,050 x 330 x 1,050 |
|                                  | Shipping mm                         | 1,137 x 395 x 1,132 | 1,137 x 395 x 1,132 | 1,137 x 395 x 1,132 |
| Fan                              | Type                                | 3D Turbo Fan        | 3D Turbo Fan        | 3D Turbo Fan        |
|                                  | Motor Output x Number W             | 157 x 1             | 157 x 1             | 157 x 1             |
|                                  | Air Flow Rate (H / M / L) m3/min    | 22 / 21 / 19        | 27 / 24 / 21        | 32 / 28 / 23        |
|                                  | Motor Type                          | BLDC                | BLDC                | BLDC                |
| Air Filter                       |                                     | Long life           | Long life           | Long life           |
| Pipe Connections                 | Liquid Side mm (inch)               | Ø9.52 (3/8)         | Ø9.52 (3/8)         | Ø9.52 (3/8)         |
|                                  | Gas Side mm (inch)                  | Ø15.88 (5/8)        | Ø15.88 (5/8)        | Ø15.88 (5/8)        |
|                                  | Drain Pipe(Internal Dia.) mm (inch) | Ø25 (1)             | Ø25 (1)             | Ø25 (1)             |
| Weight                           | kg                                  | 30                  | 30                  | 30                  |
| Sound Pressure Level (H / M / L) | dB(A)                               | 39 / 37 / 34        | 43 / 39 / 37        | 47 / 44 / 39        |
| Sound Power Level (H / M / L)    | dB(A)                               | 48 / 46 / 43        | 52 / 48 / 46        | 56 / 53 / 48        |
| Power Supply                     | Ø, V, Hz                            | 1, 220-240, 50      | 1, 220-240, 50      | 1, 220-240, 50      |
| Communication Cable (VCTF-SB)    | mm <sup>2</sup> x cores             | 1.0 - 1.5 x 2C      | 1.0 - 1.5 x 2C      | 1.0 - 1.5 x 2C      |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

## Accessories

| CHASSIS                                 | ARNU24GTYA4 | ARNU36GTYA4                                                                            | ARNU48GTYA4 |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             | ○                                                                                      |             |
| Cassette Cover                          |             | -                                                                                      |             |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |             |
| EEV Kit                                 |             | -                                                                                      |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |             |
| Robot Cleaner                           |             | -                                                                                      |             |
| Pre Filter (Washable)                   |             | ○                                                                                      |             |
| Ion Generator                           |             | -                                                                                      |             |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |             |
| Ventilation Kit                         |             | -                                                                                      |             |
| IR Receiver                             |             | -                                                                                      |             |
| Zone Controller                         |             | -                                                                                      |             |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 Point)                |             | ○                                                                                      |             |
| Wi-Fi                                   |             | PWFMDD200                                                                              |             |
| Human Detection Sensor                  |             | -                                                                                      |             |
| Floor Temperature Sensor                |             | -                                                                                      |             |
| Air Cleaning Kit                        |             | -                                                                                      |             |
| Elevation Grille                        |             | -                                                                                      |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table



**Features & Benefits**

- Easy and flexible duct adjusts air volume with External Static Pressure (ESP) control function.
- Minimalist visibility (Hidden within ceiling) to blend seamlessly into any interior

**Key Applications**

- Office
- Retail
- Hotel
- Residential building

|                   | DUCT                   | HIGH | MIDDLE | LOW |
|-------------------|------------------------|------|--------|-----|
| Smart             | Wi-Fi                  | ○    | ○      | ○   |
| Energy Efficiency | E.S.P Control          | ○    | ○      | ○   |
|                   | Drain Pump             | ○    | ○      | ○   |
|                   | Timer (On / Off)       | ○    | ○      | ○   |
| Comfort           | Timer (Weekly)         | ○    | ○      | ○   |
|                   | Two Thermistor Control | ○    | ○      | ○   |
|                   | Group Control          | ○    | ○      | ○   |

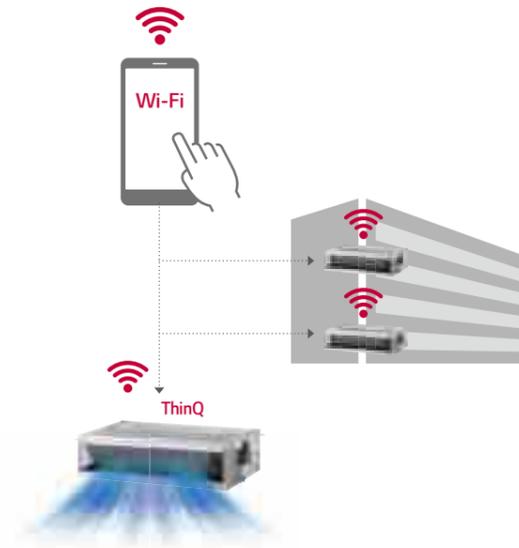
※ ○: Applied, -: Not applied

**Wi-Fi Control**

Anytime, anywhere access to the unit with Android & iOS-based smartphones.

**ThinQ**

Search "ThinQ" on Google market or the App Store to download the app.



**Easy Registration and Log-in**

Follow the easy set-up steps that will activate ThinQ's user-friendly features.



**Simple operation for various functions**



On / Off, Current Temp



Mode, Set Temp

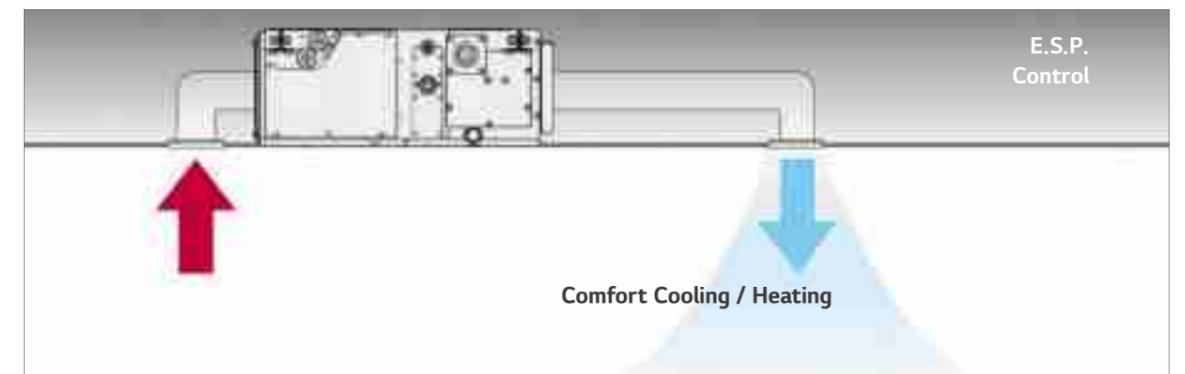
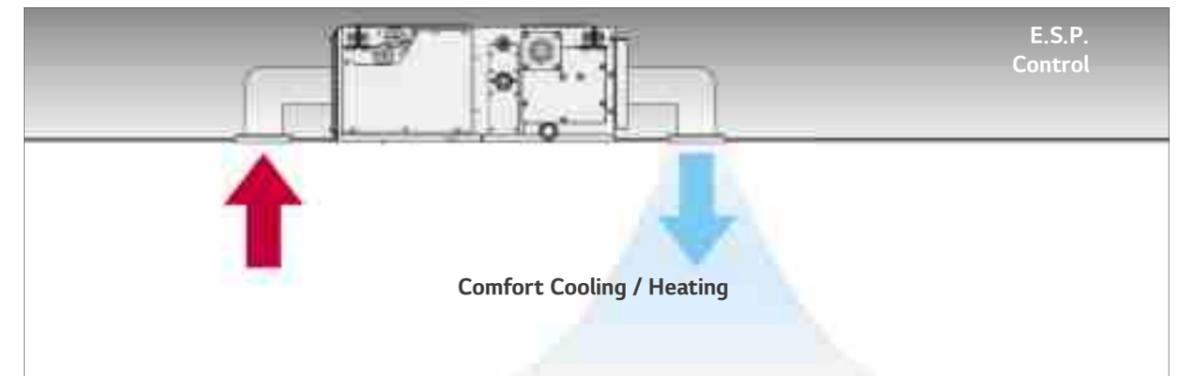


Zone Control

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

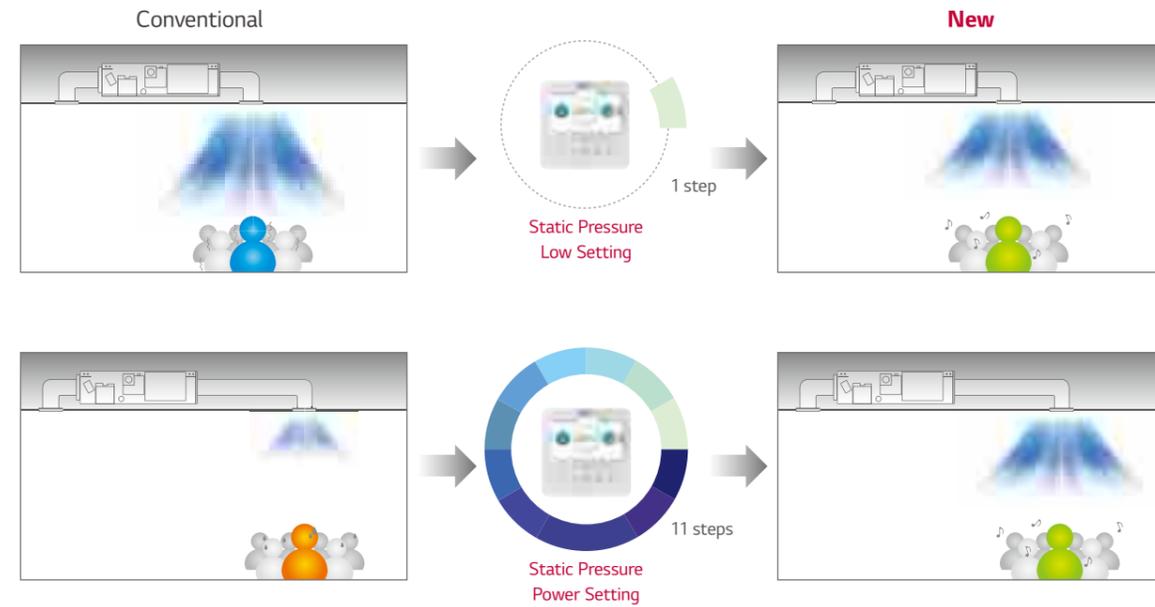
**External Static Pressure (ESP) Control**

User has easy access to air volume selection via remote controller using the ESP control function. The BLDC motor can control fan speed and air volume. No additional accessories are necessary to control air flow.



## Static Pressure 11- Step Control

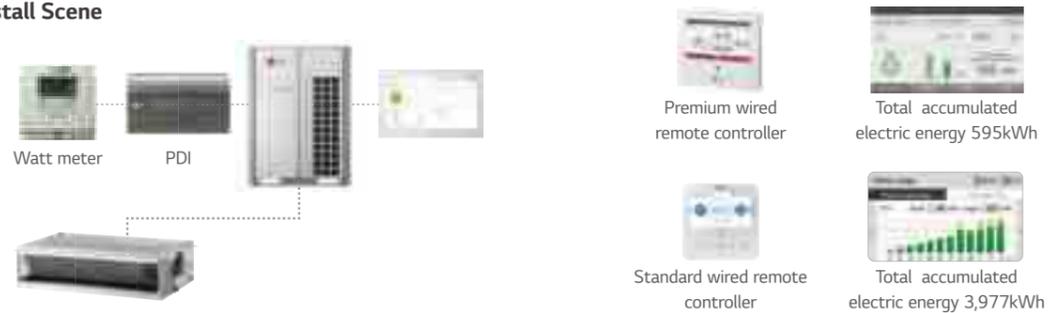
Depending on the installation environment, LG's ceiling concealed duct controls the static pressure with 11 steps to provide maximized comfort to any environment.



## Energy Monitoring

Accumulated electric energy of the indoor unit can be identified with wired remote control, as well as with the central controller. This function is an advantage for energy management.

### Install Scene



### Apply for multistory building

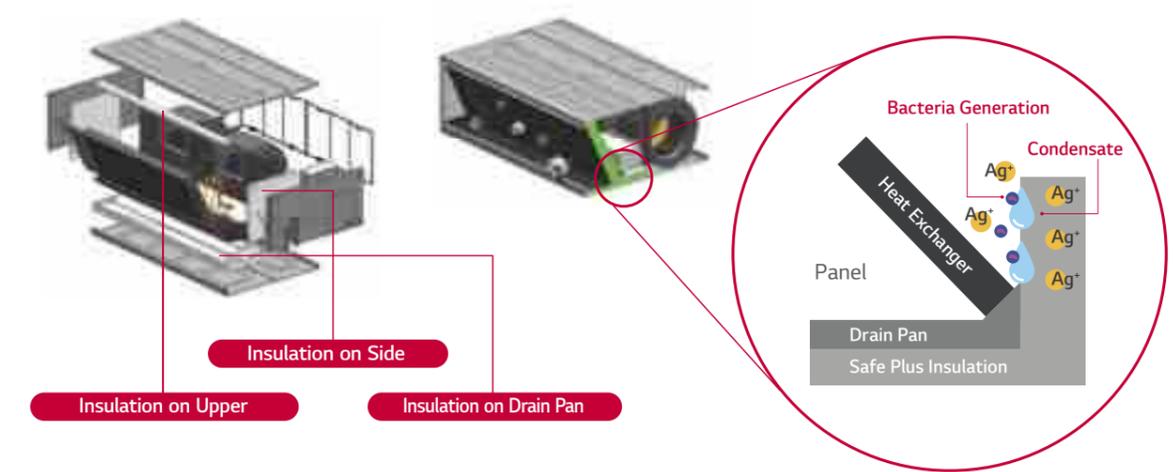


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are connected with power wire. Only total accumulated electric energy is displayed in standard wired remote controller. In premium wired remote controller, that are displayed into week / month / year.

## Safe Plus Insulation

### Why LG Safe Plus Insulation?

Safe Plus Insulation is an antimicrobial treatment that is applied to LG MULTI V Indoor unit internal insulation components to resistance bacterial growth, and provides cleaner and fresher airflow to customer.



### What's the hygiene inside of your air conditioner?

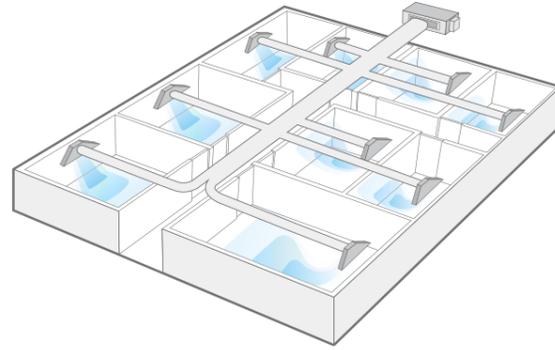


Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, What's the hygiene inside the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

Antimicrobial treatment on \*EPS (Cabinet, Drain Pan, Air Guide, Insulator, Supporter) for Air Conditioners is the first applied technology in the world, and only LG has.

## Multiple Room Operation

Using a spiral duct (Embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



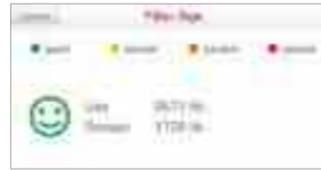
## Filter Alert

The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.

### Remain Time Until Indoor Filter Cleaning + Alarm



Remain time until indoor filter cleaning 2,400hr.

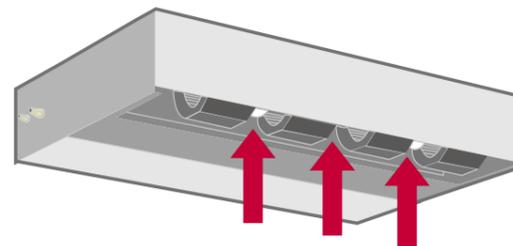
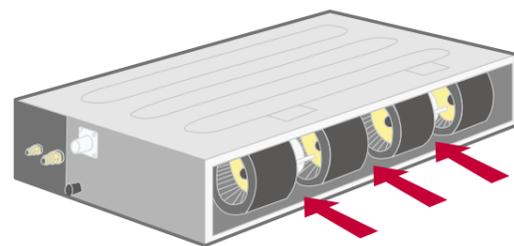
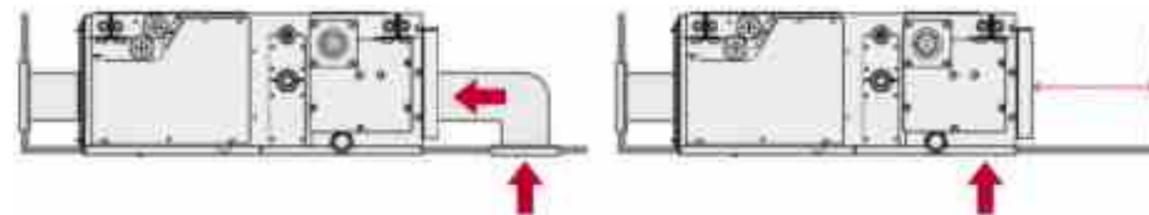


Remain time until indoor filter cleaning 1,729hr.

## Flexible Installation (Low Static Duct Slim Only)

The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.

### Air intake at the rear or bottom



## Minimized Height (For Mid Static Duct)

Mid Static Ducts provide ideal solution for installation in limited space.



## Two Thermistors Control

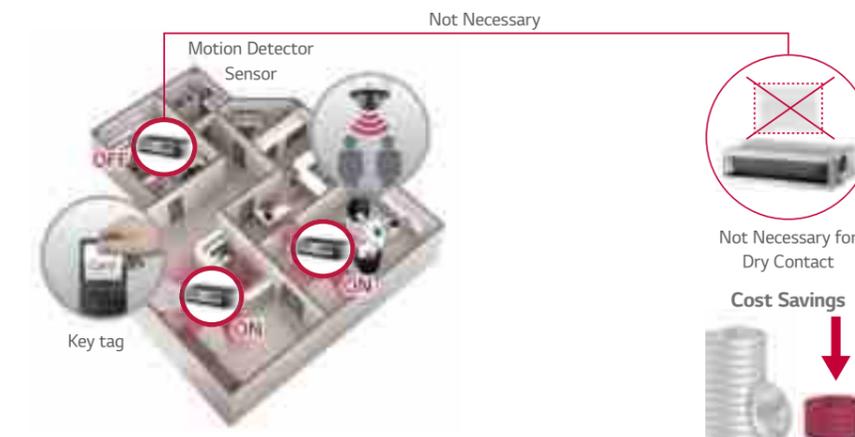
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



## 1 Point External Input (On / Off Control)

Indoor unit can be controlled by external devices without dry contact, so customer can save cost of installation.

### Connection between an indoor unit and external devices directly



※ In case of needing more functions beside on / off control, a dry contact is required to be installed.

ARNU07GM1A4 / ARNU09GM1A4  
ARNU12GM1A4 / ARNU15GM1A4  
ARNU18GM1A4 / ARNU24GM1A4



| MODEL                             | UNIT                                      | ARNU07GM1A4 | ARNU09GM1A4       | ARNU12GM1A4       | ARNU15GM1A4       | ARNU18GM1A4       | ARNU24GM1A4        |                    |
|-----------------------------------|-------------------------------------------|-------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cooling Capacity                  | kW                                        | 2.2         | 2.8               | 3.6               | 4.5               | 5.6               | 7.1                |                    |
| Heating Capacity                  | kW                                        | 2.5         | 3.2               | 4.0               | 5.0               | 6.3               | 8.0                |                    |
| Power Input (H / M / L)           | Nominal                                   | W           | 39 / 30 / 25      | 40 / 32 / 26      | 46 / 38 / 31      | 67 / 53 / 46      | 85 / 63 / 55       | 91 / 74 / 58       |
|                                   | Body                                      | mm          | 900 x 270 x 700    | 900 x 270 x 700    |
| Dimensions (W x H x D)            | Shipping                                  | mm          | 1,100 x 338 x 773  | 1,100 x 338 x 773  |
|                                   | Type                                      |             | Sirocco Fan        | Sirocco Fan        |
| Fan                               | Motor Output x Number                     | W x No.     | 136 x 1            | 136 x 1            |
|                                   | Air Flow Rate (H / M / L)                 | m³/min      | 9.0 / 7.5 / 6.0   | 9.5 / 7.5 / 6.0   | 11.0 / 9.0 / 7.0  | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
|                                   | External Static Pressure (High Mode)      | mmAq (Pa)   | 6 (59)            | 6 (59)            | 6 (59)            | 6 (59)            | 6 (59)             | 6 (59)             |
|                                   | Air Flow Rate (H / M / L) (Standard Mode) | m³/min      | 9.0 / 7.5 / 6.0   | 9.5 / 7.5 / 6.0   | 11.0 / 9.0 / 7.0  | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
|                                   | External Static Pressure (Standard Mode)  | mmAq (Pa)   | 2.5 (25)          | 2.5 (25)          | 2.5 (25)          | 2.5 (25)          | 2.5 (25)           | 2.5 (25)           |
|                                   | Motor Type                                |             | BLDC              | BLDC              | BLDC              | BLDC              | BLDC               | BLDC               |
|                                   | Air Filter                                |             | Pre Filter         | Pre Filter         |
| Pipe Connections                  | Liquid Side                               | mm (inch)   | Ø6.35 (1/4)        | Ø9.52 (3/8)        |
|                                   | Gas Side                                  | mm (inch)   | Ø12.7 (1/2)        | Ø15.88 (5/8)       |
|                                   | Drain Pipe (Internal Dia.)                | mm (inch)   | 25 (1)            | 25 (1)            | Ø25 (1)           | Ø25 (1)           | Ø25 (1)            | Ø25 (1)            |
| Weight                            | Body                                      | kg          | 25.0              | 25.0              | 25.0              | 25.0              | 25.0               | 25.9               |
| Sound Pressure Levels (H / M / L) |                                           | dB(A)       | 26 / 24 / 23      | 27 / 25 / 23      | 27 / 25 / 23      | 30 / 27 / 23      | 31 / 28 / 25       | 32 / 29 / 26       |
| Sound Power Levels (H / M / L)    |                                           | dB(A)       | 55 / 54 / 51      | 55 / 54 / 52      | 56 / 54 / 52      | 59 / 57 / 55      | 59 / 57 / 55       | 59 / 58 / 56       |
| Power Supply                      | Ø, V, Hz                                  |             | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50     | 1, 220-240, 50     |
| Transmission Cable                | mm²                                       |             | 1.0 - 1.5 x 2C     | 1.0 - 1.5 x 2C     |

Note:  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU07GM1A4 | ARNU09GM1A4 | ARNU12GM1A4 | ARNU15GM1A4                                                                            | ARNU18GM1A4 | ARNU24GM1A4 |
|-----------------------------------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             |             | ○                                                                                      |             |             |
| Cassette Cover                          |             |             |             | -                                                                                      |             |             |
| Refrigerant Leakage Detector            |             |             |             | PRLDNVS0                                                                               |             |             |
| EEV Kit                                 |             |             |             | PRGK024A0 (-5.6kW)                                                                     |             |             |
| Multi-tenant Power Module               |             |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             |             | -                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             |             | PWLRVN000                                                                              |             |             |
| Zone Controller                         |             |             |             | ABZCA                                                                                  |             |             |
| Dry Contact (with additional accessory) |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             |             | PWFMD200                                                                               |             |             |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

ARNU28GM2A4 / ARNU36GM2A4  
ARNU42GM2A4 / ARNU48GM3A4  
ARNU54GM3A4



| MODEL                             | UNIT                                      | ARNU28GM2A4 | ARNU36GM2A4        | ARNU42GM2A4        | ARNU48GM3A4        | ARNU54GM3A4        |                    |
|-----------------------------------|-------------------------------------------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Cooling Capacity                  | kW                                        | 8.2         | 10.6               | 12.3               | 14.1               | 15.8               |                    |
| Heating Capacity                  | kW                                        | 9.2         | 11.9               | 13.8               | 15.9               | 18.0               |                    |
| Power Input (H / M / L)           | Nominal                                   | W           | 123 / 81 / 57      | 184 / 123 / 81     | 231 / 162 / 111    | 172 / 105 / 65     | 260 / 215 / 172    |
|                                   | Body                                      | mm          | 1,250 x 270 x 700  | 1,250 x 270 x 700  | 1,250 x 270 x 700  | 1,250 x 360 x 700  | 1,250 x 360 x 700  |
| Dimensions (W x H x D)            | Shipping                                  | mm          | 1,450 x 338 x 773  | 1,450 x 338 x 773  | 1,450 x 338 x 773  | 1,450 x 428 x 773  | 1,450 x 428 x 773  |
|                                   | Type                                      |             | Sirocco Fan        |
| Fan                               | Motor Output x Number                     | W x No.     | 350 x 1            | 350 x 1            | 350 x 1            | 400 x 1            | 400 x 1            |
|                                   | Air Flow Rate (H / M / L)                 | m³/min      | 28.0 / 24.0 / 21.0 | 32.0 / 28.0 / 24.0 | 38.0 / 33.0 / 28.0 | 40.0 / 34.0 / 28.0 | 50.0 / 45.0 / 40.0 |
|                                   | External Static Pressure (High Mode)      | mmAq (Pa)   | 6 (59)             | 6 (59)             | 6 (59)             | 6 (59)             | 6 (59)             |
|                                   | Air Flow Rate (H / M / L) (Standard Mode) | m³/min      | 28.0 / 24.0 / 21.0 | 32.0 / 28.0 / 24.0 | 38.0 / 33.0 / 28.0 | 40.0 / 34.0 / 28.0 | 50.0 / 45.0 / 40.0 |
|                                   | External Static Pressure (Standard Mode)  | mmAq (Pa)   | 5 (49)             | 5 (49)             | 5 (49)             | 5 (49)             | 5 (49)             |
|                                   | Motor Type                                |             | BLDC               | BLDC               | BLDC               | BLDC               | BLDC               |
|                                   | Air Filter                                |             | Pre Filter         |
| Pipe Connections                  | Liquid Side                               | mm (inch)   | Ø9.52 (3/8)        |
|                                   | Gas Side                                  | mm (inch)   | Ø15.88 (5/8)       | Ø15.88 (5/8)       | Ø15.88 (5/8)       | Ø15.88 (5/8)       | Ø19.05 (3/4)       |
|                                   | Drain Pipe (Internal Dia.)                | mm (inch)   | Ø25 (1)            |
| Weight                            | Body                                      | kg          | 36.0               | 36.0               | 37.2               | 42.2               | 42.2               |
| Sound Pressure Levels (H / M / L) |                                           | dB(A)       | 38 / 36 / 35       | 40 / 38 / 36       | 42 / 41 / 39       | 41 / 38 / 37       | 42 / 41 / 40       |
| Sound Power Levels (H / M / L)    |                                           | dB(A)       | 59 / 57 / 55       | 60 / 59 / 57       | 62 / 61 / 60       | 63 / 60 / 59       | 65 / 64 / 62       |
| Power Supply                      | Ø, V, Hz                                  |             | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     |
| Transmission Cable                | mm²                                       |             | 1.0 - 1.5 x 2C     |

Note:  
1. Performance tested under EN14511  
2. Capacities are based on the following conditions  
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU28GM2A4 | ARNU36GM2A4 | ARNU42GM2A4 | ARNU48GM3A4 | ARNU54GM3A4                                                                            |
|-----------------------------------------|-------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             |             |             |             | ○                                                                                      |
| Cassette Cover                          |             |             |             |             | -                                                                                      |
| Refrigerant Leakage Detector            |             |             |             |             | PRLDNVS0                                                                               |
| EEV Kit                                 |             |             |             |             | -                                                                                      |
| Multi-tenant Power Module               |             |             |             |             | PINPMB001                                                                              |
| Robot Cleaner                           |             |             |             |             | -                                                                                      |
| Pre Filter (Washable)                   |             |             |             |             | ○                                                                                      |
| Ion Generator                           |             |             |             |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             |             |             |             | -                                                                                      |
| Ventilation Kit                         |             |             |             |             | -                                                                                      |
| IR Receiver                             |             |             |             |             | PWLRVN000                                                                              |
| Zone Controller                         |             |             |             |             | ABZCA                                                                                  |
| Dry Contact (with additional accessory) |             |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             |             |             |             | ○                                                                                      |
| Wi-Fi                                   |             |             |             |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

ARNU76GB8A4 / ARNU96GB8A4



| MODEL                             | UNIT                                              | ARNU76GB8A4       | ARNU96GB8A4        |
|-----------------------------------|---------------------------------------------------|-------------------|--------------------|
| Cooling Capacity                  | kW                                                | 22.4              | 28.0               |
| Heating Capacity                  | kW                                                | 25.2              | 31.5               |
| Power Input (H / M / L)           | Nominal W                                         | 765 / 500 / 500   | 800 / 750 / 750    |
| Dimensions (W x H x D)            | Body                                              | 1,562 x 460 x 688 | 1,562 x 460 x 688  |
|                                   | Shipping                                          | 1,806 x 537 x 825 | 1,806 x 537 x 825  |
| Fan                               | Type                                              | Sirocco Fan       | Sirocco Fan        |
|                                   | Motor Output x Number                             | W x No.           | 375 x 2            |
|                                   | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min            | 60.0 / 50.0 / 50.0 |
|                                   | External Static Pressure (High Mode)              | mmAq (Pa)         | 22 (216)           |
|                                   | Air Flow Rate (H / M / L) (Standard Mode)         | m³/min            | 64.0 / 50.0 / 50.0 |
|                                   | External Static Pressure (Standard Mode)          | mmAq (Pa)         | 15 (147)           |
|                                   | Motor Type                                        |                   | BLDC               |
| Air Filter                        |                                                   | Pre Filter        | Pre Filter         |
| Pipe Connections                  | Liquid Side                                       | mm (inch)         | Ø9.52 (3/8)        |
|                                   | Gas Side                                          | mm (inch)         | Ø19.05 (3/4)       |
|                                   | Drain Pipe (Internal Dia.)                        | mm (inch)         | Ø25 (1)            |
| Weight                            | Body kg                                           | 87.0              | 87.0               |
| Sound Pressure Levels (H / M / L) | dB(A)                                             | 45 / 41 / 40      | 47 / 42 / 41       |
| Sound Power Levels (H / M / L)    | dB(A)                                             | 67 / 62 / 60      | 68 / 64 / 62       |
| Power Supply                      | Ø, V, Hz                                          | 1, 220-240, 50    | 1, 220-240, 50     |
| Transmission Cable                | mm²                                               | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C     |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU76GB8A4 | ARNU96GB8A4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | ○                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNVS0                                                                               |
| EEV Kit                                 |             | ○                                                                                      |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | PWLRVN000                                                                              |
| Zone Controller                         |             | ABZCA                                                                                  |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU05GL4G4 / ARNU07GL4G4  
 ARNU09GL4G4 / ARNU12GL5G4



| MODEL                             | UNIT                                              | ARNU05GL4G4           | ARNU07GL4G4           | ARNU09GL4G4           | ARNU12GL5G4           |
|-----------------------------------|---------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Cooling Capacity                  | kW                                                | 1.8                   | 2.2                   | 2.8                   | 3.6                   |
| Heating Capacity                  | kW                                                | 2.2                   | 2.5                   | 3.2                   | 4                     |
| Power Input (H / M / L)           | Nominal W                                         | 15 / 13 / 11          | 28 / 24 / 21          | 28 / 24 / 21          | 43 / 38 / 35          |
| Dimensions (W x H x D)            | Body                                              | 700 x 190 x 460       | 700 x 190 x 460       | 700 x 190 x 460       | 900 x 190 x 460       |
|                                   | Shipping                                          | 925 x 255 x 561       | 925 x 255 x 561       | 925 x 255 x 561       | 1,125 x 255 x 561     |
| Fan                               | Type                                              | Sirocco Fan           | Sirocco Fan           | Sirocco Fan           | Sirocco Fan           |
|                                   | Motor Output x Number                             | W x No.               | 19 x 1                | 19 x 1                | 19 x 1                |
|                                   | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min                | 7.0 / 6.5 / 5.5       | 7.5 / 6.5 / 5.5       | 9.0 / 7.0 / 5.5       |
|                                   | External Static Pressure (High Mode)              | mmAq (Pa)             | 1 (10)                | 1 (10)                | 1 (10)                |
|                                   | Air Flow Rate (H / M / L) (Standard Mode)         | m³/min                | 7.0 / 6.5 / 5.5       | 7.5 / 6.5 / 5.5       | 9.0 / 7.0 / 5.5       |
|                                   | External Static Pressure (Standard Mode)          | mmAq (Pa)             | 0 (0)                 | 0 (0)                 | 0 (0)                 |
|                                   | Motor Type                                        |                       | BLDC                  | BLDC                  | BLDC                  |
| Air Filter                        |                                                   | Pre Filter            | Pre Filter            | Pre Filter            | Pre Filter            |
| Pipe Connections                  | Liquid Side                                       | mm (inch)             | 6.35 (1/4)            | 6.35 (1/4)            | 6.35 (1/4)            |
|                                   | Gas Side                                          | mm (inch)             | 12.7 (1/2)            | 12.7 (1/2)            | 12.7 (1/2)            |
|                                   | Drain Pipe (Internal Dia.)                        | mm (inch)             | Ø25.4 (1)             | Ø25.4 (1)             | Ø25.4 (1)             |
| Weight                            | Body kg                                           | 14.6                  | 14.6                  | 14.6                  | 20                    |
| Sound Pressure Levels (H / M / L) | dB(A)                                             | 25 / 24 / 22          | 26 / 24 / 22          | 28 / 25 / 22          | 29 / 27 / 25          |
| Sound Power Levels (H / M / L)    | dB(A)                                             | 32.5 / 31.4 / 29.6    | 34 / 31.4 / 29.6      | 36.1 / 32.5 / 29.6    | 35.1 / 32.7 / 30.7    |
| Power Supply                      | Ø, V, Hz                                          | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Transmission Cable                | mm²                                               | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU05GL4G4 | ARNU07GL4G4 | ARNU09GL4G4 | ARNU12GL5G4                                                                            |
|-----------------------------------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             |             |             | ○                                                                                      |
| Cassette Cover                          |             |             |             | -                                                                                      |
| Refrigerant Leakage Detector            |             |             |             | PRLDNVS0                                                                               |
| EEV Kit                                 |             |             |             | PRGK024A0 (ARNU**GL4G4 Only)                                                           |
| Multi-tenant Power Module               |             |             |             | PINPMB001                                                                              |
| Robot Cleaner                           |             |             |             | -                                                                                      |
| Pre Filter (Washable)                   |             |             |             | ○                                                                                      |
| Ion Generator                           |             |             |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             |             |             | -                                                                                      |
| Ventilation Kit                         |             |             |             | -                                                                                      |
| IR Receiver                             |             |             |             | PWLRVN000                                                                              |
| Zone Controller                         |             |             |             | -                                                                                      |
| Dry Contact (with additional accessory) |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             |             |             | ○                                                                                      |
| Wi-Fi                                   |             |             |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU15GL5G4 / ARNU18GL5G4  
ARNU21GL6G4 / ARNU24GL6G4



| MODEL                             | UNIT                                              | ARNU15GL5G4           | ARNU18GL5G4           | ARNU21GL6G4           | ARNU24GL6G4           |                    |
|-----------------------------------|---------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| Cooling Capacity                  | kW                                                | 4.5                   | 5.6                   | 6.3                   | 7.1                   |                    |
| Heating Capacity                  | kW                                                | 5                     | 6.3                   | 7.1                   | 8                     |                    |
| Power Input (H / M / L)           | Nominal W                                         | 54 / 45 / 38          | 57 / 39 / 30          | 65 / 50 / 42          | 81 / 59 / 43          |                    |
| Dimensions (W x H x D)            | Body                                              | 900 x 190 x 460       | 900 x 190 x 460       | 1,100 x 190 x 460     | 1,100 x 190 x 460     |                    |
|                                   | Shipping                                          | 1,125 x 255 x 561     | 1,125 x 255 x 561     | 1,325 x 255 x 561     | 1,325 x 255 x 561     |                    |
| Fan                               | Type                                              | Sirocco Fan           | Sirocco Fan           | Sirocco Fan           | Sirocco Fan           |                    |
|                                   | Motor Output x Number                             | W x No.               | 19 x 1+5x 1           | 19 x 1+5x 1           | 19 x 2                | 19 x 2             |
|                                   | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min                | 12.5 / 10.0 / 8.5     | 15.0 / 12.5 / 10.0    | 17.5 / 14.0 / 12.0    | 20.0 / 16.0 / 12.0 |
|                                   | External Static Pressure (High Mode)              | mmAq (Pa)             | 1 (10)                | 1 (10)                | 1 (10)                | 1 (10)             |
|                                   | Air Flow Rate (H / M / L) (Standard Mode)         | m³/min                | 12.5 / 10.0 / 8.5     | 15.0 / 12.5 / 10.0    | 17.5 / 14.0 / 12.0    | 20.0 / 16.0 / 12.0 |
|                                   | External Static Pressure (Standard Mode)          | mmAq (Pa)             | 0 (0)                 | 0 (0)                 | 0 (0)                 | 0 (0)              |
|                                   | Motor Type                                        |                       | BLDC                  | BLDC                  | BLDC                  | BLDC               |
|                                   | Air Filter                                        |                       | Pre Filter            | Pre Filter            | Pre Filter            | Pre Filter         |
| Pipe Connections                  | Liquid Side                                       | mm (inch)             | 6.35 (1/4)            | 6.35 (1/4)            | 9.52 (3/8)            | 9.52 (3/8)         |
|                                   | Gas Side                                          | mm (inch)             | 12.7 (1/2)            | 12.7 (1/2)            | 15.88 (5/8)           | 15.88 (5/8)        |
|                                   | Drain Pipe (Internal Dia.)                        | mm (inch)             | Ø25.4 (1)             | Ø25.4 (1)             | Ø25.4 (1)             | Ø25.4 (1)          |
| Weight                            | Body kg                                           | 20                    | 20                    | 22                    | 22                    |                    |
| Sound Pressure Levels (H / M / L) | dB(A)                                             | 32 / 29 / 27          | 35 / 32 / 29          | 35 / 30 / 29          | 36 / 33 / 29          |                    |
| Sound Power Levels (H / M / L)    | dB(A)                                             | 38.4 / 35.1 / 32.7    | 42.1 / 38.4 / 35.1    | 42.5 / 38.3 / 36.0    | 45.0 / 40.7 / 36.0    |                    |
| Power Supply                      | Ø, V, Hz                                          | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |                    |
| Transmission Cable                | mm²                                               | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          | 1.0-1.5 x 2C          |                    |

Note :  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU15GL5G4 | ARNU18GL5G4 | ARNU21GL6G4                                                                            | ARNU24GL6G4 |
|-----------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              |             |             | ○                                                                                      |             |
| Cassette Cover                          |             |             | -                                                                                      |             |
| Refrigerant Leakage Detector            |             |             | PRLDNVSO                                                                               |             |
| EEV Kit                                 |             |             | -                                                                                      |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                              |             |
| Robot Cleaner                           |             |             | -                                                                                      |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                      |             |
| Ion Generator                           |             |             | -                                                                                      |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                      |             |
| Ventilation Kit                         |             |             | -                                                                                      |             |
| IR Receiver                             |             |             | PWLRVN000                                                                              |             |
| Zone Controller                         |             |             | -                                                                                      |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                |             |             | ○                                                                                      |             |
| Wi-Fi                                   |             |             | PWFMDD200                                                                              |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU07GM2A4 / ARNU09GM2A4  
ARNU12GM2A4 / ARNU15GM2A4  
ARNU18GM3A4



| MODEL                             | UNIT                                                       | ARNU07GM2A4    | ARNU09GM2A4       | ARNU12GM2A4       | ARNU15GM2A4       | ARNU18GM3A4       |
|-----------------------------------|------------------------------------------------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Cooling Capacity                  | kW                                                         | 2.2            | 2.8               | 3.6               | 4.5               | 5.6               |
| Heating Capacity                  | kW                                                         | 2.5            | 3.2               | 4.0               | 5.0               | 6.3               |
| Power Input (H / M / L)           | W                                                          | 32 / 29 / 27   | 32 / 29 / 27      | 33 / 30 / 28      | 33 / 30 / 28      | 97 / 70 / 51      |
| Dimensions (W x H x D)            | Body                                                       | mm             | 1,250 x 270 x 700 | 1,250 x 270 x 700 | 1,250 x 270 x 700 | 1,250 x 360 x 700 |
|                                   | Type                                                       |                | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       |
| Fan                               | Motor Output x Number                                      | W x No.        | 350 x 1           | 350 x 1           | 350 x 1           | 500 x 1           |
|                                   | Air Flow Rate (H / M / L) (High static Mode - factory set) | m³/min         | 13.3 / 9.4 / 6.8  | 13.3 / 9.4 / 6.8  | 14.8 / 10.2 / 7.4 | 14.8 / 10.2 / 7.4 |
|                                   | External Static Pressure                                   | mmAq (Pa)      | 6 (59)            | 6 (59)            | 6 (59)            | 6 (59)            |
|                                   | Air Flow Rate (H / M / L) (Standard Mode)                  | m³/min         | 13.3 / 9.4 / 6.8  | 13.3 / 9.4 / 6.8  | 14.8 / 10.2 / 7.4 | 14.8 / 10.2 / 7.4 |
|                                   | External Static Pressure                                   | mmAq (Pa)      | 5 (49)            | 5 (49)            | 5 (49)            | 5 (49)            |
|                                   | Motor type                                                 |                | BLDC              | BLDC              | BLDC              | BLDC              |
| Air Filter                        |                                                            | -              | -                 | -                 | -                 | -                 |
| Pipe Connections                  | Liquid Side                                                | mm (inch)      | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                                   | Gas Side                                                   | mm (inch)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
|                                   | Drain Pipe (Internal Dia.)                                 | mm (inch)      | 25 (1)            | 25 (1)            | 25 (1)            | 25 (1)            |
| Net Weight                        | kg                                                         | 36             | 36                | 36                | 36                | 44                |
| Sound Pressure Levels (H / M / L) | dB(A)                                                      | 33 / 33 / 32   | 33 / 33 / 32      | 34 / 33 / 32      | 34 / 33 / 32      | 38 / 36 / 34      |
| Sound Power Levels (H / M / L)    | dB(A)                                                      | 52 / 52 / 52   | 52 / 52 / 52      | 53 / 52 / 52      | 53 / 52 / 52      | 52 / 51 / 50      |
| Power Supply                      | Ø, V, Hz                                                   | 1, 220-240, 50 | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    |
| Transmission Cable                | mm²                                                        | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    |

Note :  
 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.  
 5. Sound levels are measured at 50Pa External Static Pressure condition.  
 6. \* : Air flow rate could be different in accordance with External Static Pressure and setting value.

Accessories

| CHASSIS                                 | ARNU07GM2A4 | ARNU09GM2A4 | ARNU12GM2A4                                                                            | ARNU15GM2A4 | ARNU18GM3A4 |
|-----------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             | ○                                                                                      |             |             |
| Cassette Cover                          |             |             | -                                                                                      |             |             |
| Refrigerant Leakage Detector            |             |             | PRLDNVSO                                                                               |             |             |
| EEV Kit                                 |             |             | -                                                                                      |             |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             | -                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             | PWLRVN000                                                                              |             |             |
| Zone Controller                         |             |             | ABZCA                                                                                  |             |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             | PWFMDD200                                                                              |             |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

ARNU24GM3A4 / ARNU28GM3A4  
 ARNU36GB8A4 / ARNU42GB8A4  
 ARNU48GB8A4



| MODEL                             | UNIT                                                       | ARNU24GM3A4    | ARNU28GM3A4        | ARNU36GB8A4        | ARNU42GB8A4        | ARNU48GB8A4        |                    |
|-----------------------------------|------------------------------------------------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Cooling Capacity                  | kW                                                         | 7.1            | 8.2                | 10.6               | 12.3               | 14.1               |                    |
| Heating Capacity                  | kW                                                         | 8.0            | 9.2                | 11.9               | 13.8               | 15.9               |                    |
| Power Input (H / M / L)           | W                                                          | 109 / 83 / 60  | 109 / 83 / 60      | 420 / 403 / 478    | 528 / 497 / 465    | 538 / 505 / 482    |                    |
| Dimensions (W x H x D)            | Body                                                       | mm             | 1,250 x 360 x 700  | 1,250 x 360 x 700  | 1,562 x 460 x 688  | 1,562 x 460 x 688  |                    |
|                                   | Type                                                       |                | Sirocco Fan        | Sirocco Fan        | Sirocco Fan        | Sirocco Fan        |                    |
| Fan                               | Motor Output x Number                                      | W x No.        | 500 x 1            | 500 x 1            | 375 x 2            | 375 x 2            |                    |
|                                   | Air Flow Rate (H / M / L) (High static Mode - factory set) | m³/min         | 35.5 / 30.6 / 26.2 | 35.5 / 30.6 / 26.2 | 49.0 / 37.3 / 30.2 | 54.2 / 41.3 / 31.8 | 57.2 / 43.0 / 34.0 |
|                                   | External Static Pressure                                   | mmAq (Pa)      | 6 (59)             | 6 (59)             | 18 (176)           | 18 (176)           | 18 (176)           |
|                                   | Air Flow Rate (H / M / L) (Standard Mode)                  | m³/min         | 35.5 / 30.6 / 26.2 | 35.5 / 30.6 / 26.2 | 53.7 / 49.5 / 43.9 | 55.6 / 50.6 / 45.0 | 58.0 / 52.3 / 47.3 |
|                                   | External Static Pressure                                   | mmAq (Pa)      | 5 (49)             | 5 (49)             | 9 (88)             | 9 (88)             | 9 (88)             |
|                                   | Motor type                                                 |                | BLDC               | BLDC               | BLDC               | BLDC               | BLDC               |
| Air Filter                        | Liquid Side                                                | mm (inch)      | Ø9.52 (3/8)        | Ø9.52 (3/8)        | Ø9.52 (3/8)        | Ø9.52 (3/8)        |                    |
|                                   | Gas Side                                                   | mm (inch)      | Ø15.88 (5/8)       | Ø15.88 (5/8)       | Ø19.05 (3/4)       | Ø19.05 (3/4)       |                    |
|                                   | Drain Pipe (Internal Dia.)                                 | mm (inch)      | 25 (1)             | 25 (1)             | 25 (1)             | 25 (1)             |                    |
| Net Weight                        | kg                                                         | 42.2           | 42.2               | 87                 | 87                 | 87                 |                    |
| Sound Pressure Levels (H / M / L) | dB(A)                                                      | 39 / 37 / 35   | 39 / 37 / 35       | 46 / 45 / 42       | 47 / 46 / 43       | 47 / 46 / 44       |                    |
| Sound Power Levels (H / M / L)    | dB(A)                                                      | 53 / 52 / 51   | 53 / 52 / 51       | 65 / 64 / 62       | 66 / 65 / 63       | 66 / 65 / 64       |                    |
| Power Supply                      | Ø, V, Hz                                                   | 1, 220-240, 50 | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     |                    |
| Transmission Cable                | mm²                                                        | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C     | 1.0 - 1.5 x 2C     | 1.0 - 1.5 x 2C     | 1.0 - 1.5 x 2C     |                    |

- Note:
- Due to our policy of innovation some specifications may be changed without notification.
  - Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
  - Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
    - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
    - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
    - Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.
  - Sound levels are measured at 50Pa External Static Pressure condition.
  - \* : Air flow rate could be different in accordance with External Static Pressure and setting value.

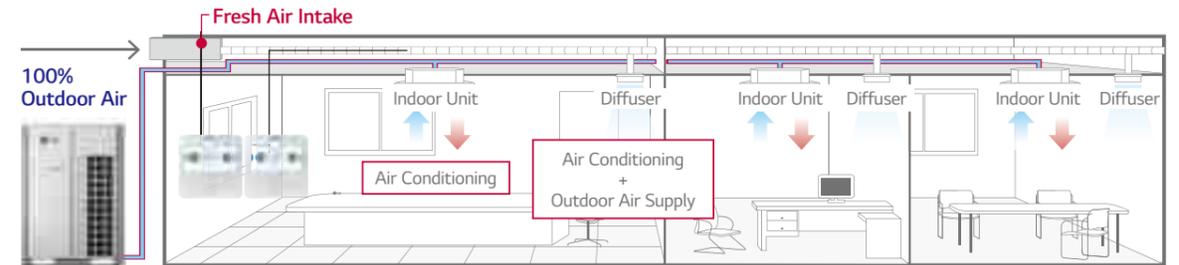
Accessories

| CHASSIS                                 | ARNU24GM3A4 | ARNU28GM3A4 | ARNU36GB8A4                                                                            | ARNU42GB8A4 | ARNU48GB8A4 |
|-----------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|
| Drain Pump                              |             |             | ○                                                                                      |             |             |
| Cassette Cover                          |             |             | -                                                                                      |             |             |
| Refrigerant Leakage Detector            |             |             | PRLDNVS0                                                                               |             |             |
| EEV Kit                                 |             |             | -                                                                                      |             |             |
| Multi-tenant Power Module               |             |             | PINPMB001                                                                              |             |             |
| Robot Cleaner                           |             |             | -                                                                                      |             |             |
| Pre Filter (Washable)                   |             |             | ○                                                                                      |             |             |
| Ion Generator                           |             |             | -                                                                                      |             |             |
| CO <sub>2</sub> Sensor                  |             |             | -                                                                                      |             |             |
| Ventilation Kit                         |             |             | -                                                                                      |             |             |
| IR Receiver                             |             |             | PWLRVN000                                                                              |             |             |
| Zone Controller                         |             |             | ABZCA                                                                                  |             |             |
| Dry Contact (with additional accessory) |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             |             | ○                                                                                      |             |             |
| Wi-Fi                                   |             |             | PWFMD200                                                                               |             |             |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table

Fresh Outdoor Air Supply

The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as and simultaneously cools and heats the air inside. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated air from outside. This allows the indoor space to have consistent positive air pressure blocking cold air.

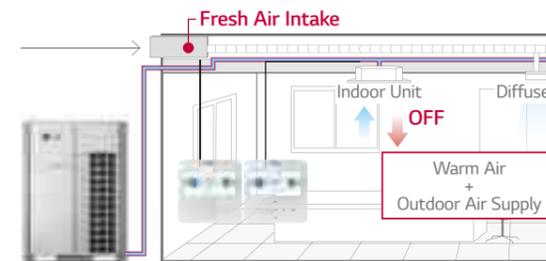


MULTI V 5 Outdoor unit

Economic Operation

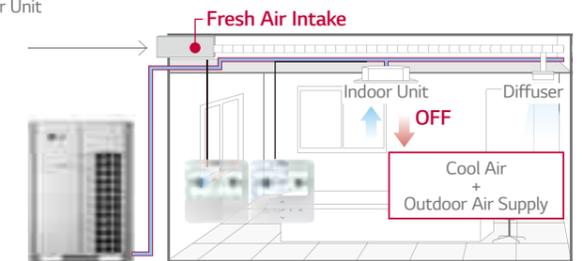
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



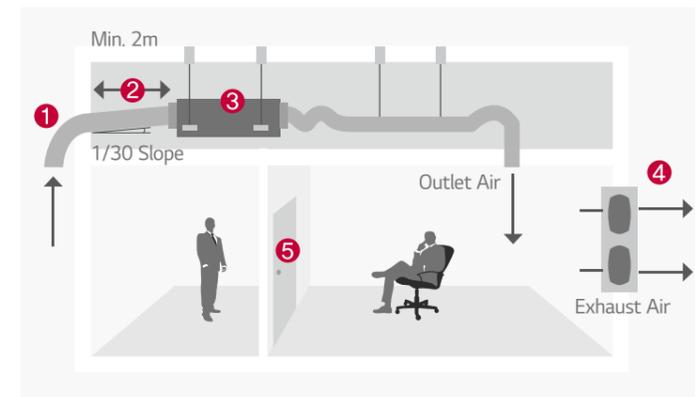
MULTI V 5 Outdoor unit

Autumn Season



MULTI V 5 Outdoor unit

Installation Scene



- 1 Inlet Hood
- 2 Intake Air Duct
- 3 Fresh Air Intake Unit
- 4 Exhaust Fan
- 5 Door

ARNU76GB8Z4 / ARNU96GB8Z4



| MODEL                             | UNIT                                              | ARNU76GB8Z4       | ARNU96GB8Z4        |
|-----------------------------------|---------------------------------------------------|-------------------|--------------------|
| Cooling Capacity                  | kW                                                | 22.4              | 28.0               |
| Heating Capacity                  | kW                                                | 21.4              | 26.7               |
| Power Input (H / M / L)           | Nominal W                                         | 230 / 200 / 200   | 360 / 230 / 230    |
| Dimensions (W x H x D)            | Body                                              | 1,562 x 460 x 688 | 1,562 x 460 x 688  |
|                                   | Shipping                                          | 1,806 x 537 x 825 | 1,806 x 537 x 825  |
| Fan                               | Type                                              | Sirocco Fan       | Sirocco Fan        |
|                                   | Motor Output x Number                             | W x No.           | 375 x 1            |
|                                   | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min            | 23.7 / 13.2 / 13.2 |
|                                   | External Static Pressure                          | mmAq (Pa)         | 22 (216)           |
|                                   | Motor Type                                        |                   | BLDC               |
| Air Filter                        |                                                   | Long Life Filter  | Long Life Filter   |
| Pipe Connections                  | Liquid Side                                       | mm (inch)         | Ø9.52 (3/8)        |
|                                   | Gas Side                                          | mm (inch)         | Ø19.05 (3/4)       |
|                                   | Drain Pipe (Internal Dia.)                        | mm (inch)         | Ø25 (1)            |
| Weight                            | Body                                              | kg                | 73.0               |
| Sound Pressure Levels (H / M / L) |                                                   | dB(A)             | 45 / 43 / 43       |
| Sound Power Levels (H / M / L)    |                                                   | dB(A)             | 70 / 67 / 67       |
| Power Supply                      | Ø, V, Hz                                          |                   | 1, 220-240, 50     |
| Transmission Cable                | mm²                                               |                   | 1.0 - 1.5 x 2C     |

Note : 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

**CAUTION**

1. Operation range (Cooling : 5°C ~ 43°C, Heating : -5°C ~ 43°C) 2. Installation of exhaust fan is recommended for a sealed room. 3. Indoor Unit Connection

| NO | CONNECTION CONDITION                                               | COMBINATION                                                                                                                                                                                                                                |
|----|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Fresh air intake units only are connected with outdoor units       | 1) The total capacity of fresh air intake unit should be 50 ~ 100% of outdoor unit.<br>2) The max quantity of fresh air intake is 4 units.                                                                                                 |
| 2  | Mixture connection with general indoor unit and fresh intake units | 1) The total capacity of indoor units (Standard Indoor Unit + Fresh Air Intake Unit) should be 50 ~ 100% of outdoor unit.<br>2) The total capacity of fresh air intake unit should be less than 30% of the total capacity of indoor units. |

Accessories

| CHASSIS                                 | ARNU76GB8Z4 | ARNU96GB8Z4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             | ○                                                                                      |
| Cassette Cover                          |             | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNV50                                                                               |
| EEV Kit                                 |             | -                                                                                      |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Robot Cleaner                           |             | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      |
| Ventilation Kit                         |             | -                                                                                      |
| IR Receiver                             |             | PWLRVN000                                                                              |
| Zone Controller                         |             | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not applied  
 Option : Refer to model name in table



**Features & Benefits**

- Modern design with V-shape and black vane
- Powerful air speed and volume can reach up to 15m

**Key Applications**

- Retail
- Restaurant
- Shop

|                        | CEILINGS               | CEILING & FLOOR CONVERTIBLE | CEILING SUSPENDED |
|------------------------|------------------------|-----------------------------|-------------------|
| Smart                  | Wi-Fi                  | ○                           | ○                 |
| Fast Cooling & Heating | Jet Cool               | ○                           | ○                 |
|                        | Sleep mode             | ○                           | ○                 |
| Comfort                | Timer (On / Off)       | ○                           | ○                 |
|                        | Timer (Weekly)         | ○                           | ○                 |
|                        | Two thermistor control | ○                           | ○                 |
|                        | Group control          | ○                           | ○                 |

※ ○: Applied, -: Not applied

**Wi-Fi Control**

Access your air conditioner anytime and from anywhere.

**ThinQ**

Search "ThinQ" on Google market or the App Store to download the app.



**Easy Registration and Log-in**

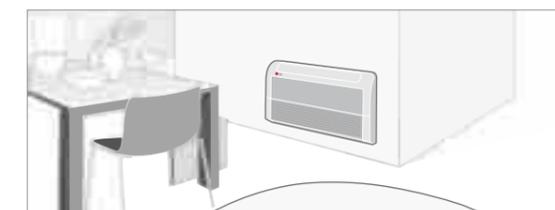
Follow the easy set-up steps that will activate ThinQ's impressive feature.



※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

**Flexible**

The ceiling and floor models can be installed either on the ceiling or on the floor.



**Filter Change Alarm**

The filter change alarm informs you when the unit has been operating for 2,400 hours.

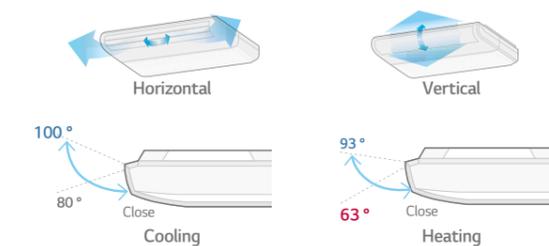


One Touch Filter

Filter Change Alarm

**Air Flow Direction Control**

Vertical air flow direction can be adjusted using remote controller, and horizontal air flow direction can be adjusted manually.



## Differentiated Design

Modern elegance design with V-shape and black vane is appropriate for any commercial space. It received iF Design Award.



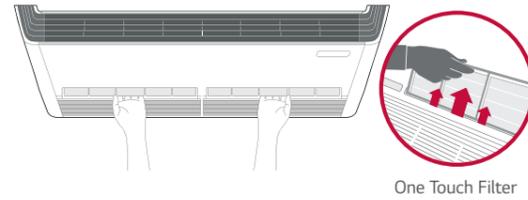
## Powerful Cooling & Heating

High ceiling mode provides powerful cooling and heating up to 4.2m in height from floor, 15m away from ceiling.



## One Touch & 2 Piece Filter

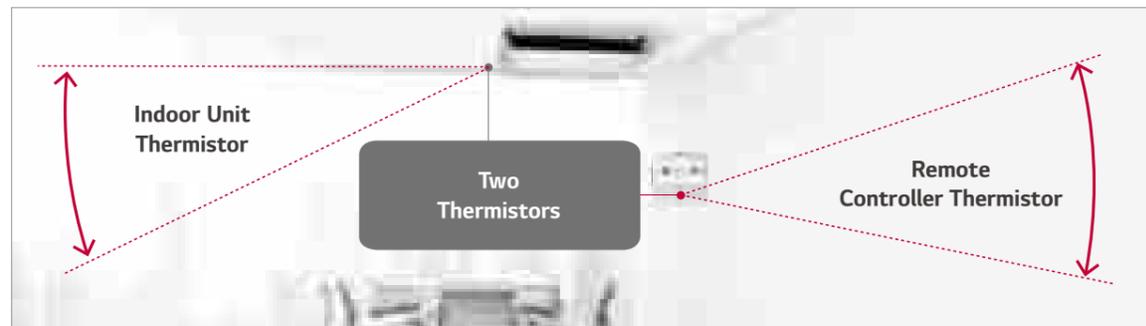
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

## Two Thermistors Control

Users can purchase a wired remote controller that includes a second thermistor, allowing for temperature checks from multiple locations.



Lined area for notes.

ARNU09GVEA4 / ARNU12GVEA4



| MODEL                                    | UNIT                                          | ARNU09GVEA4     | ARNU12GVEA4     |
|------------------------------------------|-----------------------------------------------|-----------------|-----------------|
| Cooling Capacity                         | kW                                            | 2.8             | 3.6             |
| Heating Capacity                         | kW                                            | 3.2             | 4.0             |
| <b>Power Input (H / M / L)</b>           | Nominal W                                     | 19 / 15 / 11    | 28 / 19 / 15    |
| Exterior Color                           |                                               | Morning Fog     | Morning Fog     |
| RAL Code                                 |                                               | RAL 9001        | RAL 9001        |
| <b>Dimensions (W x H x D)</b>            | Body mm                                       | 900 x 490 x 200 | 900 x 490 x 200 |
|                                          | Shipping mm                                   | 975 x 562 x 279 | 975 x 562 x 279 |
| <b>Fan</b>                               | Type                                          | Cross Flow Fan  | Cross Flow Fan  |
|                                          | Motor Output x Number W x No.                 | 27 x 1          | 27 x 1          |
|                                          | Air Flow Rate (H / M / L) m <sup>3</sup> /min | 7.6 / 6.9 / 6.2 | 9.2 / 7.6 / 6.9 |
|                                          | cfm                                           | 268 / 244 / 219 | 325 / 268 / 244 |
|                                          | Motor Type                                    | BLDC            | BLDC            |
| <b>Air Filter</b>                        |                                               | Pre Filter      | Pre Filter      |
| <b>Pipe Connections</b>                  | Liquid Side mm (inch)                         | Ø6.35 (1/4)     | Ø6.35 (1/4)     |
|                                          | Gas Side mm (inch)                            | Ø12.7 (1/2)     | Ø12.7 (1/2)     |
|                                          | Drain Pipe (Internal Dia.) mm (inch)          | Ø16 (5/8)       | Ø16 (5/8)       |
| <b>Weight</b>                            | Body kg                                       | 13.3            | 13.3            |
| <b>Sound Pressure Levels (H / M / L)</b> | dB(A)                                         | 36 / 32 / 28    | 38 / 36 / 30    |
| <b>Sound Power Levels (H / M / L)</b>    | dB(A)                                         | 55 / 51 / 45    | 56 / 55 / 49    |
| <b>Power Supply</b>                      | Ø, V, Hz                                      | 1, 220-240, 50  | 1, 220-240, 50  |
| <b>Transmission Cable</b>                | mm <sup>2</sup> x cores                       | 1.0 - 1.5 x 2C  | 1.0 - 1.5 x 2C  |

Note : 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU09GVEA4 | ARNU12GVEA4                                                                            |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              | -           | -                                                                                      |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |
| EEV Kit                                 |             | PRGK024A0                                                                              |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |
| Plasma Kit                              | -           | -                                                                                      |
| Robot Cleaner                           | -           | -                                                                                      |
| Pre Filter (Washable)                   |             | ○                                                                                      |
| Ion Generator                           | -           | -                                                                                      |
| CO <sub>2</sub> Sensor                  | -           | -                                                                                      |
| Ventilation Kit                         | -           | -                                                                                      |
| IR Receiver                             | -           | -                                                                                      |
| Zone Controller                         | -           | -                                                                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             | ○                                                                                      |
| Wi-Fi                                   |             | PWFMD200 <sup>1)</sup>                                                                 |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table

ARNU18GV1A4 / ARNU24GV1A4  
 ARNU36GV2A4 / ARNU48GV2A4



| MODEL                                    | UNIT                                          | ARNU18GV1A4        | ARNU24GV1A4        | ARNU36GV2A4        | ARNU48GV2A4        |
|------------------------------------------|-----------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Cooling Capacity                         | kW                                            | 5.6                | 7.1                | 10.6               | 14.1               |
| Heating Capacity                         | kW                                            | 6.3                | 8.0                | 11.9               | 15.9               |
| <b>Power Input (H / M / L)</b>           | Nominal W                                     | 23 / 20 / 17       | 25 / 21 / 17       | 84 / 77 / 66       | 91 / 79 / 66       |
| Exterior Color                           |                                               | Morning Fog        | Morning Fog        | Morning Fog        | Morning Fog        |
| RAL Code                                 |                                               | RAL 9001           | RAL 9001           | RAL 9001           | RAL 9001           |
| <b>Dimensions (W x H x D)</b>            | Body mm                                       | 1,200 x 235 x 690  | 1,200 x 235 x 690  | 1,600 x 235 x 690  | 1,600 x 235 x 690  |
|                                          | Shipping mm                                   | 1,315 x 320 x 772  | 1,315 x 320 x 772  | 1,715 x 320 x 772  | 1,715 x 320 x 772  |
| <b>Fan</b>                               | Type                                          | Cross Flow Fan     | Cross Flow Fan     | Cross Flow Fan     | Cross Flow Fan     |
|                                          | Motor Output x Number W x No.                 | 85.9 x 1           | 85.9 x 1           | 125 x 1            | 125 x 1            |
|                                          | Air Flow Rate (H / M / L) m <sup>3</sup> /min | 13.5 / 12.5 / 12.0 | 14.0 / 13.0 / 12.0 | 27.0 / 24.0 / 20.0 | 29.0 / 24.0 / 20.0 |
|                                          | Motor Type                                    | BLDC               | BLDC               | BLDC               | BLDC               |
| <b>Air Filter</b>                        |                                               | Pre Filter         | Pre Filter         | Pre Filter         | Pre Filter         |
| <b>Pipe Connections</b>                  | Liquid Side mm (inch)                         | Ø6.35 (1/4)        | Ø9.52 (3/8)        | Ø9.52 (3/8)        | Ø9.52 (3/8)        |
|                                          | Gas Side mm (inch)                            | Ø12.7 (1/2)        | Ø15.88 (5/8)       | Ø15.88 (5/8)       | Ø15.88 (5/8)       |
|                                          | Drain Pipe (Internal Dia.) mm (inch)          | Ø16 (5/8)          | Ø16 (5/8)          | Ø16 (5/8)          | Ø16 (5/8)          |
| <b>Weight</b>                            | Body kg                                       | 29.0               | 29.0               | 37.0               | 37.0               |
| <b>Sound Pressure Levels (H / M / L)</b> | dB(A)                                         | 36 / 34 / 33       | 37 / 35 / 33       | 45 / 44 / 40.5     | 47 / 44 / 40.5     |
| <b>Sound Power Levels (H / M / L)</b>    | dB(A)                                         | 61 / 59 / 56       | 62 / 59 / 56       | 68 / 66 / 64       | 68 / 67 / 66       |
| <b>Power Supply</b>                      | Ø, V, Hz                                      | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     | 1, 220-240, 50     |
| <b>Transmission Cable</b>                | mm <sup>2</sup> x cores                       | 1.0 - 1.5 x 2C     |

Note : 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU18GV1A4 | ARNU24GV1A4 | ARNU36GV2A4 | ARNU48GV2A4                                                                            |
|-----------------------------------------|-------------|-------------|-------------|----------------------------------------------------------------------------------------|
| Drain Pump                              |             |             |             | -                                                                                      |
| Cassette Cover                          |             |             |             | -                                                                                      |
| Refrigerant Leakage Detector            |             |             |             | PRLDNVSO                                                                               |
| EEV Kit                                 |             |             |             | -                                                                                      |
| Multi-tenant Power Module               |             |             |             | PINPMB001                                                                              |
| Robot Cleaner                           |             |             |             | -                                                                                      |
| Pre Filter (Washable)                   |             |             |             | ○                                                                                      |
| Ion Generator                           |             |             |             | -                                                                                      |
| CO <sub>2</sub> Sensor                  |             |             |             | -                                                                                      |
| Ventilation Kit                         |             |             |             | -                                                                                      |
| IR Receiver                             |             |             |             | -                                                                                      |
| Zone Controller                         |             |             |             | -                                                                                      |
| Dry Contact (with additional accessory) |             |             |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point)                |             |             |             | ○                                                                                      |
| Wi-Fi                                   |             |             |             | PWFMD200                                                                               |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table



**Features & Benefits**

- 6 way flexible piping
- Cold draft window protection
- Condensation protection

**Key Applications**

- Residential building
- Historical building
- Hotel

|                        | FLOOR STANDING         | CONSOLE | FLOOR STANDING |
|------------------------|------------------------|---------|----------------|
| Smart                  | Wi-Fi                  | ○       | ○              |
| Energy Efficiency      | Jet Cool               | -       | ○              |
| Health                 | Ionizer                | ○       | -              |
| Fast Cooling & Heating | Jet Cool               | ○       | -              |
|                        | Sleep Mode             | ○       | ○              |
|                        | Timer (On / Off)       | ○       | ○              |
|                        | Timer (Weekly)         | ○       | ○              |
| Comfort                | Two Thermistor Control | ○       | ○              |
|                        | Group Control          | ○       | ○              |

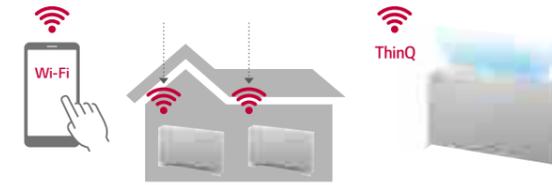
※ ○: Applied, -: Not applied

**Wi-Fi Control**

Access your air conditioner anytime and from anywhere.

**ThinQ**

Search "ThinQ" on Google market or the App Store to download the app.

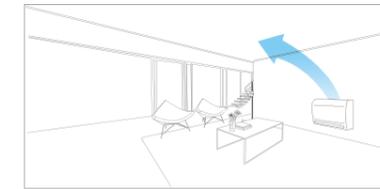


※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

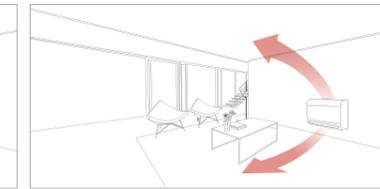
**Air Flow Direction Change**

During the cooling operation, the vane adjusts upwards to direct the air flow towards the ceiling. When heating, the vane directs the warm air downwards to balance the room temperature especially for floor.

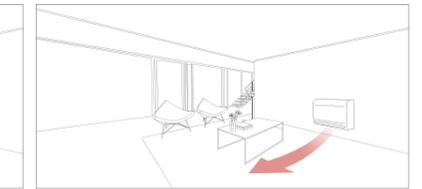
**Cooling**



**Heating (Normal)**



**Heating (Option)**



**Cold Draft Protection**

The console protects cold draft from windows to provide comfortable environment.

**Without Console**

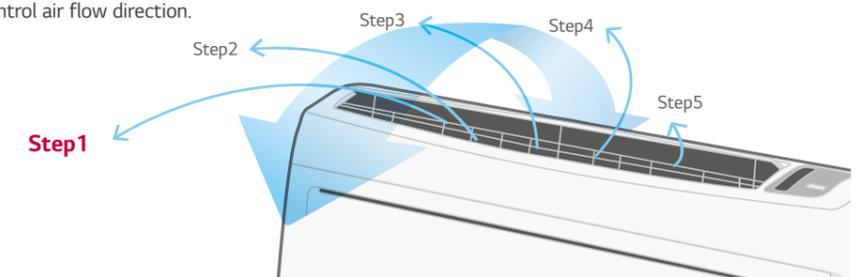


**With Console**



**5-Step Vane Control**

There are 5 different stages to control air flow direction.





ARNU07GQAA4 / ARNU09GQAA4



| MODEL                             | UNIT                       | ARNU07GQAA4            | ARNU09GQAA4     |
|-----------------------------------|----------------------------|------------------------|-----------------|
| Cooling Capacity                  | kW                         | 2.2                    | 2.8             |
| Heating Capacity                  | kW                         | 2.5                    | 3.2             |
| Power Input (H / M / L)           | Nominal W                  | 15 / 12 / 10           | 15 / 12 / 10    |
| Exterior Color                    |                            | Morning Fog            | Morning Fog     |
| RAL Code                          |                            | RAL 9001               | RAL 9001        |
| Dimensions (W x H x D)            | Body                       | 700 x 600 x 210        | 700 x 600 x 210 |
|                                   | Shipping                   | 775 x 662 x 284        | 775 x 662 x 284 |
| Fan                               | Type                       | Turbo fan              | Turbo fan       |
|                                   | Motor Output x Number      | W x No. 48 x 1         | 48 x 1          |
|                                   | Air Flow Rate (H / M / L)  | m³/min 6.7 / 5.9 / 4.8 | 6.7 / 5.9 / 4.8 |
|                                   | Motor Type                 | BLDC                   | BLDC            |
| Air Filter                        |                            | Pre Filter             | Pre Filter      |
| Pipe Connections                  | Liquid Side                | mm (inch) Ø6.35 (1/4)  | Ø6.35 (1/4)     |
|                                   | Gas Side                   | mm (inch) Ø12.7 (1/2)  | Ø12.7 (1/2)     |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) Ø12 (15/32)  | Ø12 (15/32)     |
| Weight                            | Body                       | kg 14.0                | 14.0            |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 37 / 34 / 28           | 37 / 34 / 28    |
| Sound Power Levels (H / M / L)    | dB(A)                      | 53 / 50 / 44           | 53 / 50 / 44    |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50         | 1, 220-240, 50  |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C         | 1.0 - 1.5 x 2C  |

Note:  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU07GQAA4                                                                            | ARNU09GQAA4 |
|-----------------------------------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              | -                                                                                      | -           |
| Cassette Cover                          | -                                                                                      | -           |
| Refrigerant Leakage Detector            | PRLDNV50                                                                               |             |
| EEV Kit                                 | PRGK024A0                                                                              |             |
| Multi-tenant Power Module               | PINPMB001                                                                              |             |
| Robot Cleaner                           | -                                                                                      | -           |
| Pre Filter (Washable)                   | ○                                                                                      |             |
| Ion Generator                           | ○                                                                                      |             |
| CO <sub>2</sub> Sensor                  | -                                                                                      | -           |
| Ventilation Kit                         | -                                                                                      | -           |
| IR Receiver                             | -                                                                                      | -           |
| Zone Controller                         | -                                                                                      | -           |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                | ○                                                                                      |             |
| Wi-Fi                                   | PWFMD200                                                                               |             |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table

ARNU12GQAA4 / ARNU15GQAA4



| MODEL                             | UNIT                       | ARNU12GQAA4            | ARNU15GQAA4     |
|-----------------------------------|----------------------------|------------------------|-----------------|
| Cooling Capacity                  | kW                         | 3.6                    | 4.5             |
| Heating Capacity                  | kW                         | 4.0                    | 5.0             |
| Power Input (H / M / L)           | Nominal W                  | 18 / 15 / 13           | 24 / 19 / 17    |
| Exterior Color                    |                            | Morning Fog            | Morning Fog     |
| RAL Code                          |                            | RAL 9001               | RAL 9001        |
| Dimensions (W x H x D)            | Body                       | 700 x 600 x 210        | 700 x 600 x 210 |
|                                   | Shipping                   | 775 x 662 x 284        | 775 x 662 x 284 |
| Fan                               | Type                       | Turbo fan              | Turbo fan       |
|                                   | Motor Output x Number      | W x No. 48 x 1         | 48 x 1          |
|                                   | Air Flow Rate (H / M / L)  | m³/min 7.5 / 5.9 / 4.8 | 8.7 / 6.7 / 5.9 |
|                                   | Motor Type                 | BLDC                   | BLDC            |
| Air Filter                        |                            | Pre Filter             | Pre Filter      |
| Pipe Connections                  | Liquid Side                | mm (inch) Ø6.35 (1/4)  | Ø6.35 (1/4)     |
|                                   | Gas Side                   | mm (inch) Ø12.7 (1/2)  | Ø12.7 (1/2)     |
|                                   | Drain Pipe (Internal Dia.) | mm (inch) Ø12 (15/32)  | Ø12 (15/32)     |
| Weight                            | Body                       | kg 14.0                | 14.0            |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 39 / 34 / 28           | 42 / 37 / 31    |
| Sound Power Levels (H / M / L)    | dB(A)                      | 56 / 50 / 44           | 58 / 53 / 50    |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50         | 1, 220-240, 50  |
| Transmission Cable                | mm²                        | 1.0 - 1.5 x 2C         | 1.0 - 1.5 x 2C  |

Note:  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| CHASSIS                                 | ARNU12GQAA4                                                                            | ARNU15GQAA4 |
|-----------------------------------------|----------------------------------------------------------------------------------------|-------------|
| Drain Pump                              | -                                                                                      | -           |
| Cassette Cover                          | -                                                                                      | -           |
| Refrigerant Leakage Detector            | PRLDNV50                                                                               |             |
| EEV Kit                                 | PRGK024A0                                                                              |             |
| Multi-tenant Power Module               | PINPMB001                                                                              |             |
| Robot Cleaner                           | -                                                                                      | -           |
| Pre Filter (Washable)                   | ○                                                                                      |             |
| Ion Generator                           | ○                                                                                      |             |
| CO <sub>2</sub> Sensor                  | -                                                                                      | -           |
| Ventilation Kit                         | -                                                                                      | -           |
| IR Receiver                             | -                                                                                      | -           |
| Zone Controller                         | -                                                                                      | -           |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |
| External Input (1 point)                | ○                                                                                      |             |
| Wi-Fi                                   | PWFMD200                                                                               |             |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table

**ARNU07GCEA4 / ARNU09GCEA4  
ARNU12GCEA4 / ARNU15GCEA4  
ARNU18GCEA4 / ARNU24GCEA4**



※ A : Floor Standing with case

| MODEL                             | UNIT                       | ARNU07GCEA4         | ARNU09GCEA4       | ARNU12GCEA4       | ARNU15GCEA4       | ARNU18GCEA4       | ARNU24GCEA4        |                    |
|-----------------------------------|----------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cooling Capacity                  | kW                         | 2.2                 | 2.8               | 3.6               | 4.5               | 5.6               | 7.1                |                    |
| Heating Capacity                  | kW                         | 2.5                 | 3.2               | 4.0               | 5.0               | 6.3               | 8.0                |                    |
| Power Input (H / M / L)           | Nominal W                  | 24 / 17 / 14        | 30 / 24 / 17      | 36 / 30 / 24      | 44 / 35 / 28      | 54 / 41 / 29      | 84 / 54 / 41       |                    |
| Exterior Color                    |                            | Morning Fog         | Morning Fog       | Morning Fog       | Morning Fog       | Morning Fog       | Morning Fog        |                    |
| RAL Code                          |                            | RAL 9001            | RAL 9001          | RAL 9001          | RAL 9001          | RAL 9001          | RAL 9001           |                    |
| Dimensions (W x H x D)            | Body mm                    | 1,067 x 635 x 203   | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,345 x 635 x 203 | 1,345 x 635 x 203  |                    |
|                                   | Shipping mm                | 1,154 x 705 x 289   | 1,154 x 705 x 289 | 1,154 x 705 x 289 | 1,154 x 705 x 289 | 1,432 x 705 x 289 | 1,432 x 705 x 289  |                    |
| Fan                               | Type                       | Sirocco Fan         | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       | Sirocco Fan        |                    |
|                                   | Motor Output x Number      | W x No.             | 19 x 1, 5 x 1     | 19 x 2             |                    |
|                                   | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min | 8.5 / 7.5 / 6.5   | 9.5 / 8.5 / 7.5   | 10.5 / 9.5 / 8.5  | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
|                                   | Motor Type                 |                     | BLDC              | BLDC              | BLDC              | BLDC              | BLDC               | BLDC               |
| Air Filter                        |                            | Pre Filter          | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter         |                    |
| Pipe Connections                  | Liquid Side                | mm (inch)           | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø9.52 (3/8)        |                    |
|                                   | Gas Side                   | mm (inch)           | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø15.88 (5/8)       |                    |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)           | Ø12 (15/32)        |                    |
| Weight                            | Body kg                    | 27.0                | 27.0              | 27.0              | 27.0              | 34.0              | 34.0               |                    |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 35 / 33 / 31        | 36 / 34 / 32      | 37 / 35 / 33      | 38 / 37 / 35      | 40 / 37 / 34      | 43 / 40 / 37       |                    |
| Sound Power Levels (H / M / L)    | dB(A)                      | 52 / 47 / 43        | 54 / 51 / 47      | 54 / 51 / 50      | 55 / 54 / 51      | 57 / 54 / 50      | 61 / 57 / 54       |                    |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50      | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50     |                    |
| Transmission Cable                | mm <sup>2</sup>            | 1.0 - 1.5 x 2C      | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C     |                    |

Note:  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

**Accessories**

| CHASSIS                                 | ARNU07GCEA4 | ARNU09GCEA4                                                                            | ARNU12GCEA4 | ARNU15GCEA4 | ARNU18GCEA4 | ARNU24GCEA4 |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
| Drain Pump                              |             | -                                                                                      | -           | -           | -           | -           |
| Cassette Cover                          |             | -                                                                                      | -           | -           | -           | -           |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |             |             | PRLDNVSO    |             |
| EEV Kit                                 |             | PRGK024A0                                                                              |             |             |             |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |             |             | PINPMB001   |             |
| Robot Cleaner                           |             | -                                                                                      | -           | -           | -           | -           |
| Pre Filter (Washable)                   |             | ○                                                                                      |             |             | ○           |             |
| Ion Generator                           |             | -                                                                                      | -           | -           | -           | -           |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      | -           | -           | -           | -           |
| Ventilation Kit                         |             | -                                                                                      | -           | -           | -           | -           |
| IR Receiver                             |             | PWLRVN000                                                                              |             |             | PWLRVN000   |             |
| Zone Controller                         |             | -                                                                                      | -           | -           | -           | -           |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |             |             |
| External Input (1 point)                |             | ○                                                                                      |             |             | ○           |             |
| Wi-Fi                                   |             | PWFMD200                                                                               |             |             | PWFMD200    |             |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table

**ARNU07GCEU4 / ARNU09GCEU4  
ARNU12GCEU4 / ARNU15GCEU4  
ARNU18GCEU4 / ARNU24GCEU4**



※ U : Floor Standing without case

| MODEL                             | UNIT                       | ARNU07GCEU4         | ARNU09GCEU4       | ARNU12GCEU4       | ARNU15GCEU4       | ARNU18GCEU4       | ARNU24GCEU4        |                    |
|-----------------------------------|----------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cooling Capacity                  | kW                         | 2.2                 | 2.8               | 3.6               | 4.5               | 5.6               | 7.1                |                    |
| Heating Capacity                  | kW                         | 2.5                 | 3.2               | 4.0               | 5.0               | 6.3               | 8.0                |                    |
| Power Input (H / M / L)           | Nominal W                  | 24 / 17 / 14        | 30 / 24 / 17      | 36 / 30 / 24      | 44 / 35 / 28      | 54 / 41 / 29      | 84 / 54 / 41       |                    |
| Dimensions (W x H x D)            | Body mm                    | 978 x 639 x 190     | 978 x 639 x 190   | 978 x 639 x 190   | 978 x 639 x 190   | 1,256 x 639 x 190 | 1,256 x 639 x 190  |                    |
|                                   | Shipping mm                | 1,055 x 702 x 260   | 1,055 x 702 x 260 | 1,055 x 702 x 260 | 1,055 x 702 x 260 | 1,333 x 702 x 260 | 1,333 x 702 x 260  |                    |
| Fan                               | Type                       | Sirocco Fan         | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       | Sirocco Fan       | Sirocco Fan        |                    |
|                                   | Motor Output x Number      | W x No.             | 19 x 1, 5 x 1     | 19 x 2             |                    |
|                                   | Air Flow Rate (H / M / L)  | m <sup>3</sup> /min | 8.5 / 7.5 / 6.5   | 9.5 / 8.5 / 7.5   | 10.5 / 9.5 / 8.5  | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
|                                   | Motor Type                 |                     | BLDC              | BLDC              | BLDC              | BLDC              | BLDC               | BLDC               |
| Air Filter                        |                            | Pre Filter          | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter        | Pre Filter         |                    |
| Pipe Connections                  | Liquid Side                | mm (inch)           | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø9.52 (3/8)        |                    |
|                                   | Gas Side                   | mm (inch)           | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø12.7 (1/2)       | Ø15.88 (5/8)       |                    |
|                                   | Drain Pipe (Internal Dia.) | mm (inch)           | Ø12 (15/32)        |                    |
| Weight                            | Body kg                    | 20.0                | 20.0              | 20.0              | 20.0              | 26.0              | 26.0               |                    |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 35 / 33 / 31        | 36 / 34 / 32      | 37 / 35 / 33      | 38 / 37 / 35      | 40 / 37 / 34      | 43 / 40 / 37       |                    |
| Sound Power Levels (H / M / L)    | dB(A)                      | 52 / 47 / 43        | 54 / 51 / 47      | 54 / 51 / 50      | 55 / 54 / 51      | 57 / 54 / 50      | 61 / 57 / 54       |                    |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50      | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50    | 1, 220-240, 50     |                    |
| Transmission Cable                | mm <sup>2</sup>            | 1.0 - 1.5 x 2C      | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C     |                    |

Note:  
 1. Performance tested under EN14511  
 2. Capacities are based on the following conditions  
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero  
 3. Due to our policy of innovation, some specifications may be changed without notification

**Accessories**

| CHASSIS                                 | ARNU07GCEU4 | ARNU09GCEU4                                                                            | ARNU12GCEU4 | ARNU15GCEU4 | ARNU18GCEU4 | ARNU24GCEU4 |
|-----------------------------------------|-------------|----------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
| Drain Pump                              |             | -                                                                                      | -           | -           | -           | -           |
| Cassette Cover                          |             | -                                                                                      | -           | -           | -           | -           |
| Refrigerant Leakage Detector            |             | PRLDNVSO                                                                               |             |             | PRLDNVSO    |             |
| EEV Kit                                 |             | PRGK024A0                                                                              |             |             |             |             |
| Multi-tenant Power Module               |             | PINPMB001                                                                              |             |             | PINPMB001   |             |
| Robot Cleaner                           |             | -                                                                                      | -           | -           | -           | -           |
| Pre Filter (Washable)                   |             | ○                                                                                      |             |             | ○           |             |
| Ion Generator                           |             | -                                                                                      | -           | -           | -           | -           |
| CO <sub>2</sub> Sensor                  |             | -                                                                                      | -           | -           | -           | -           |
| Ventilation Kit                         |             | -                                                                                      | -           | -           | -           | -           |
| IR Receiver                             |             | PWLRVN000                                                                              |             |             | PWLRVN000   |             |
| Zone Controller                         |             | -                                                                                      | -           | -           | -           | -           |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) |             |             |             |             |
| External Input (1 point)                |             | ○                                                                                      |             |             | ○           |             |
| Wi-Fi                                   |             | PWFMD200                                                                               |             |             | PWFMD200    |             |

※ ○ : Applied, - : Not Applied  
 Option: Refer to model name in table

| NO. | NEW FUNCTION NAME (4 <sup>TH</sup> GENERATION INDOOR)                  | FUNCTION DESCRIPTION                                                                                                                                               | REQUIRED CONTROLLER     |                        | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                        |                                                                                                                                                                    | WIRED REMOTE CONTROLLER | CENTRALIZED CONTROLLER |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1   | Energy Monitoring (Accumulated Electric Energy Check)                  | Monitoring accumulated power consumption by Wired Remote Controller                                                                                                | ○                       | ○                      | * Necessary to install the PDI (Power Distribution Indicator) and central controller<br>* Combined with Multi V Water S outdoor unit, this function is not available.                                                                                                                                                                                                                                                                        |
|     |                                                                        | Monitoring accumulated power consumption by Central Control Device / PDI                                                                                           | -                       | ○                      | * Necessary to install the PDI (Power Distribution Indicator)<br>* To make a report, central controller must be installed                                                                                                                                                                                                                                                                                                                    |
| 2   | 2 Set Point                                                            | 1) 2 set point control by Indoor and central controller<br>2) Synchronization function with remote control (Synchronization Setting and Monitoring)                | ○                       | ○                      | * Wired remote controller and central controller must be installed<br>* Combined with Multi V Water S outdoor unit, this function is not available.                                                                                                                                                                                                                                                                                          |
| 3   | Occupied / Unoccupied Scheduling Function (Sub Func. Enable)           | 1) Synchronization according to occupied / unoccupied by Indoor and Central control<br>2) Synchronization icon with remote controller (Synchronization Monitoring) | ○                       | ○                      | * Centralized control is able to when you combine only 4th generation indoor units (Use together with 2nd generation and 4th generation indoors, only wired remote controller is able to set this function as existing way)<br>* Wired remote controller or central controller must be installed (Function can be activated using just one control device.)<br>* Combined with Multi V Water S outdoor unit, this function is not available. |
| 4   | Group Control                                                          | Group Control can use Additional function                                                                                                                          | ○                       | ○                      | * Check more details in PDB (Product Data Book)<br>* Central controller can create and control group.                                                                                                                                                                                                                                                                                                                                        |
| 5   | Test Run (Heating)                                                     | Test run mode can be operated in cooling mode and heating mode for easy service                                                                                    | ○                       | -                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6   | Model Information Monitoring                                           | Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller                                                                     | ○                       | -                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7   | Indoor unit address checking                                           | Wired remote controller can check indoor unit address information                                                                                                  | ○                       | -                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 8   | Refrigerant Leakage Detection                                          | Function error sign display when refrigerant leakage occurred                                                                                                      | ○                       | ○                      | * Central controller has been installed, CH230 error code can be recognized (Old / New Same)<br>* Without Central Controller, it is able to recognize with wired remote controller (CH230)<br>* Combined with Multi V Water S outdoor unit, this function is not available.<br>* Accessory PRLDNVSO must be separately ordered                                                                                                               |
| 9   | Thermo On / Off range Setting (Cooling)                                | User can set cooling thermo on/off range with wired remote controller for prevention overcooling                                                                   | ○                       | -                      | * Thermo On / Off temperature setting (3 step)                                                                                                                                                                                                                                                                                                                                                                                               |
| 10  | Thermo On / Off range Setting (Heating)                                | User can set heating thermo on/off range with wired remote controller for prevention overheating. (4 Step)                                                         | ○                       | -                      | * Thermo On / Off temperature setting (4 step)                                                                                                                                                                                                                                                                                                                                                                                               |
| 11  | Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type) | Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment   | ○                       | -                      | * Only applied in Ceiling Concealed Duct                                                                                                                                                                                                                                                                                                                                                                                                     |
| 12  | 1 point External Input (On / Off control)                              | Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th generation indoors)                                      | ○                       | -                      | * Simple On/Off control by Dry Contact at Indoor<br>[Example of Contact port by product type]<br>* 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required)<br>* 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit / Console / FAU / Floor Standing (with case / without case) : CN-EXT Port                                                                                        |
| 13  | Filter Sign (Remaining Time)                                           | The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.                                           | ○                       | ○                      | * The alarm activates on the central controller, but the remaining time is not displayed.                                                                                                                                                                                                                                                                                                                                                    |
| 14  | Auto restart function Disable / Enable                                 | After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off                                               | ○                       | -                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 15  | Indoor Humidity display                                                | Monitoring indoor humidity Wired Remote Controller                                                                                                                 | ○                       | ○                      | * Available only with Multi V 5                                                                                                                                                                                                                                                                                                                                                                                                              |
| 16  | Comfort Cooling setting                                                | set the outdoor unit comfort cooling operation value                                                                                                               | ○                       | ○                      | * Available only with Multi V 5                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17  | Smart Load Control setting                                             | Change the outdoor unit's Smart Load Control stage value.                                                                                                          | ○                       | ○                      | * Available only with Multi V 5                                                                                                                                                                                                                                                                                                                                                                                                              |
| 18  | ODU Refrigerant Noise Reduction setting                                | set the outdoor unit's refrigerant noise reduction function                                                                                                        | ○                       | ○                      | * Available only with Multi V 5                                                                                                                                                                                                                                                                                                                                                                                                              |
| 19  | Low noise mode time setting                                            | set the start and end time of the outdoor unit's low noise mode operation                                                                                          | ○                       | ○                      | * Available only with Multi V 5                                                                                                                                                                                                                                                                                                                                                                                                              |

Note : 1) No.1, 2, 3, 8 : Functions are available to use together with 4<sup>th</sup> generation Indoor units only. If used together 2<sup>nd</sup> generation indoor unit and 4<sup>th</sup> generation indoor unit functions will not be activate. Combined with MULTI V Water S outdoor unit this function is not available.  
2) No. 4, 5, 6, 7, 9, 10, 11, 12, 13, 14 : If used together 2<sup>nd</sup> generation indoor unit and 4<sup>th</sup> generation indoor unit these functions will be activate only in 4th generation indoor unit.  
3) 2<sup>nd</sup> generation indoor unit : Ceiling & Floor Convertible Unit, Ceiling Suspended Unit, HYDRO KIT (Low Temp. / High Temp.), ERV DX (with Humidifier, without Humidifier), AHU Communication Kit

| WIRED REMOTE CONTROLLER                   |                                      |                                     |                                   |                         | CENTRALIZED CONTROLLER |                         |                        |                   |                          |
|-------------------------------------------|--------------------------------------|-------------------------------------|-----------------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------|--------------------------|
| PREMIUM (PREMTA000 PREMTA000A PREMTA000B) | STANDARD III (PREMTB100) (PREMTB110) | STANDARD II (PREMTB001) (PREMTB001) | SIMPLE                            |                         | AC EZ (PQCSZ250S0)     | AC EZ TOUCH (PACEZA000) | AC SMART 5 (PACSSA000) | ACP 5 (PACP5A000) | AC MANAGER 5 (PACMSA000) |
|                                           |                                      |                                     | SIMPLE FOR HOTEL (PQRCHCA0Q / QW) | SIMPLE (PQRCVCL0Q / QW) |                        |                         |                        |                   |                          |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | ○                       | ○                      | ○                 | ○                        |
| -                                         | -                                    | -                                   | -                                 | -                       | -                      | ○                       | ○                      | ○                 | ○                        |
| ○                                         | ○                                    | -                                   | -                                 | -                       | -                      | ○                       | ○                      | ○                 | ○                        |
| ○                                         | ○                                    | -                                   | -                                 | -                       | -                      | -                       | ○                      | ○                 | ○                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | ○                      | ○                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | ○                                 | ○                       | -                      | -                       | -                      | -                 | -                        |
| ○ (4 step)                                | ○ (4 step)                           | ○ (3 step)                          | ○ (3 step)                        | ○ (3 step)              | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | ○                                 | ○                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | -                      | -                 | -                        |
| ○                                         | ○                                    | ○                                   | -                                 | -                       | -                      | -                       | ○                      | ○                 | -                        |
| ○                                         | ○                                    | -                                   | -                                 | -                       | -                      | -                       | ○                      | ○                 | -                        |
| ○                                         | ○                                    | -                                   | -                                 | -                       | -                      | -                       | ○                      | ○                 | -                        |
| ○                                         | ○                                    | -                                   | -                                 | -                       | -                      | ○                       | ○                      | ○                 | -                        |

※ ○ : Applied, - : Not applied

| Controller                      |                                         | Premium                               | Standard III | Standard II | Simple    | Simple for Hotel | Wireless                | Dry Contact             |                    |                                 |                                   |                                         |
|---------------------------------|-----------------------------------------|---------------------------------------|--------------|-------------|-----------|------------------|-------------------------|-------------------------|--------------------|---------------------------------|-----------------------------------|-----------------------------------------|
|                                 |                                         | PREMTA000<br>PREMTA000A<br>PREMTA000B | PREMTB100    | PREMTB100   | PREMTB001 | PREMTB001        | PQRCVCL0Q<br>PQRCVCL0QW | PQRCHCA0Q<br>PQRCHCA0QW | PWLSSB21H<br>(H/P) | Simple Dry Contact<br>PDRYCB000 | 2 points Dry Contact<br>PDRYCB400 | Dry Contact for Thermostat<br>PDRYCB320 |
| Ceiling Mounted Cassette        | 4 Way                                   | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 | 2 Way / 1 Way                           | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 | Round CST                               | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 | High Sensible                           | ○                                     | ○            | ○           | ○         | ○                | △                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| Ceiling Concealed Duct          | High / Mid Statics                      | ○                                     | ○            | ○           | ○         | ○                | △                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 | Low Statics                             | ○                                     | ○            | ○           | ○         | ○                | △                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| FAU (Fresh Air intake)          |                                         | ○                                     | ○            | ○           | ○         | ○                | △                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| Convertible & Ceiling Suspended |                                         | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| MULTIV                          | Console                                 | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 | Floor Standing                          | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 |                                         | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| Wall Mounted                    |                                         | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
|                                 |                                         | ○                                     | ○            | ○           | ○         | ○                | ○                       | ○                       | ○                  | ○                               | ○                                 | ○                                       |
| HYDRO KIT <sup>1)</sup>         |                                         | -                                     | -            | -           | -         | -                | -                       | ○                       | -                  | ○                               | -                                 | -                                       |
| Ventilation                     | Energy Recovery Ventilator              | ○                                     | ○            | ○           | -         | -                | -                       | ○                       | -                  | -                               | -                                 | ○                                       |
|                                 | Energy Recovery Ventilator with DX coil | ○                                     | ○            | ○           | -         | -                | -                       | ○                       | -                  | -                               | -                                 | ○                                       |
| AHU Communication Kit           |                                         | ○                                     | ○            | ○           | -         | -                | △                       | -                       | -                  | -                               | -                                 | -                                       |

※ ○ : Compatible, △ : Need wired remote controller / IR receiver, - : Not compatible  
1) It has a separate remote controller

| Controller Name                                               | Wired Remote Controller               |                        |                        |                         |                         | Wireless Remote Controller | Wi-Fi Modem  |
|---------------------------------------------------------------|---------------------------------------|------------------------|------------------------|-------------------------|-------------------------|----------------------------|--------------|
|                                                               | Premium                               | Standard III           | Standard II            | Simple                  | Simple (Hotel)          |                            |              |
| Model Name                                                    | PREMTA000<br>PREMTA000A<br>PREMTA000B | PREMTB100<br>PREMTB100 | PREMTB001<br>PREMTB001 | PQRCVCL0Q<br>PQRCVCL0QW | PQRCHCA0Q<br>PQRCHCA0QW | PWLSSB21H<br>(H/P)         | PWFMD200     |
| On / Off                                                      | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | ○            |
| Fan Speed Control                                             | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | ○            |
| Temperature Setting                                           | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | ○            |
| Mode Change                                                   | ○                                     | ○                      | ○                      | ○                       | -                       | ○                          | ○            |
| Auto Swing                                                    | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | ○            |
| <b>Basic</b>                                                  |                                       |                        |                        |                         |                         |                            |              |
| Vane Control (Louver Angle)                                   | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | ○            |
| E.S.P (External Static Pressure)                              | ○                                     | ○                      | ○                      | ○                       | ○                       | -                          | -            |
| Electric Failure Compensation                                 | ○                                     | ○                      | ○                      | ○                       | ○                       | -                          | ○            |
| Indoor Temperature Display                                    | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | -            |
| ALL Button Lock (Child Lock)                                  | ○                                     | ○                      | ○                      | ○                       | ○                       | -                          | -            |
| Schedule / Timer                                              | Weekly - Yearly                       | Weekly - Yearly        | Weekly                 | -                       | -                       | Sleep / On / Off           | Weekly       |
| Additional Mode Setting <sup>1)</sup>                         | ○                                     | ○                      | ○                      | -                       | -                       | -                          | -            |
| Time Display                                                  | ○                                     | ○                      | ○                      | -                       | -                       | ○                          | -            |
| Humid. Display                                                | ○                                     | ○                      | -                      | -                       | -                       | -                          | -            |
| Advanced Lock (mode, set point, set point range, on/off Lock) | Advanced Lock                         | Advanced Lock          | -                      | -                       | -                       | -                          | -            |
| <b>Advanced</b>                                               |                                       |                        |                        |                         |                         |                            |              |
| Filter Sign                                                   | ○                                     | ○                      | ○                      | -                       | -                       | -                          | -            |
| Energy Management <sup>2)</sup>                               | ○                                     | ○                      | ○                      | -                       | -                       | -                          | -            |
| Dual Set Point                                                | ○                                     | ○                      | -                      | -                       | -                       | -                          | -            |
| Human Detection                                               | -                                     | ○                      | -                      | -                       | -                       | -                          | -            |
| Temp, Humidity Compensation                                   | ○                                     | ○                      | -                      | -                       | -                       | -                          | -            |
| Wi-Fi AP mode setting                                         | ○                                     | ○                      | ○                      | ○                       | ○                       | ○                          | -            |
| Operation Status LED                                          | ○                                     | ○                      | ○                      | ○                       | ○                       | -                          | -            |
| Wireless Remote Controller Receiver                           | ○ <sup>3)</sup>                       | -                      | ○ <sup>3)</sup>        | ○ <sup>3)</sup>         | ○ <sup>3)</sup>         | -                          | -            |
| <b>ETC</b>                                                    |                                       |                        |                        |                         |                         |                            |              |
| Display                                                       | 5 inch Color                          | 4.3 inch Color         | 4.3 inch mono          | 2.6 inch mono           | 2.6 inch mono           | 2 inch mono                | -            |
| Size (W x H x D, mm)                                          | 137 x 121 x 16.5                      | 120 x 120 x 16         | 120 x 121 x 16         | 70 x 121 x 16           | 70 x 121 x 16           | 51 x 153 x 26              | 48 x 68 x 14 |
| Black Control for Screen Saver                                | ○                                     | ○                      | -                      | -                       | -                       | -                          | -            |

※ ○ : Applied, - : Not Applied  
1) It might not be indicated or operated at the partial product  
2) Centralized control (PACEZA000 / PACSSA000 / PACPSA000 / PLNWK000) and PDI (PQNU1S40 / PPWRDB000) should be installed for this function  
3) For ceiling type duct  
Note  
- Indoor unit should have functions requested by the controller  
- If you need more detail, please refer to the manual of product. (<http://partner.lge.com>: Home > DocLibrary > Manual)

192 - 201

# HOT WATER SOLUTION

HYDRO KIT



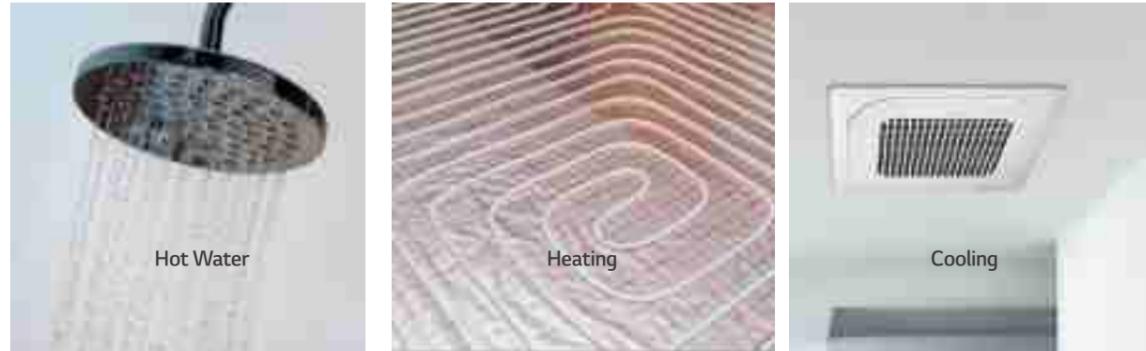
# HYDRO KIT

## Features & Benefits

- Lower operation cost compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V heat recovery system.

## Key Applications

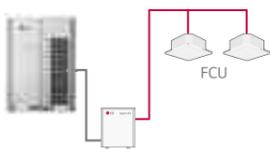
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiator. Where cold water is needed such as Fan coil unit and chilled beam.



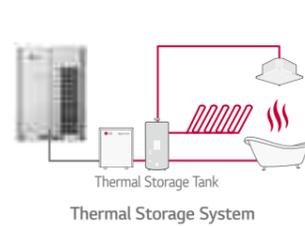
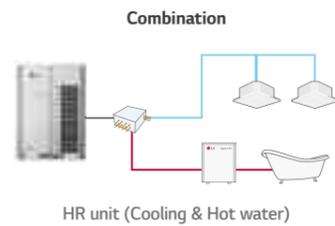
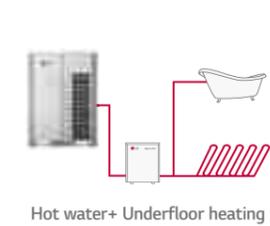
Radiant Heating / Cooling



Fan Coil Unit Heating / Cooling

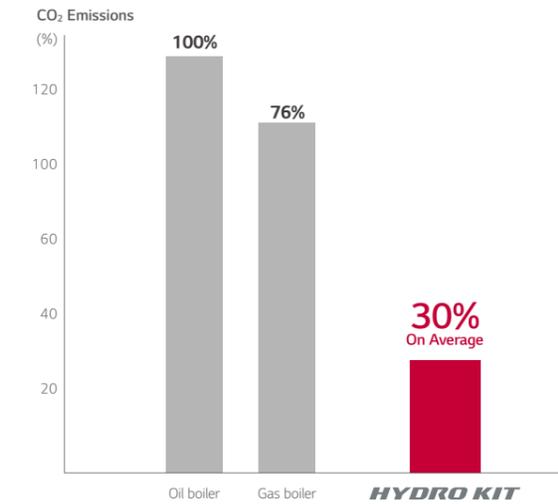


Hot Water / Cold Water



## Eco-conscious Solution

Green energy solution through the reduction of CO<sub>2</sub> emissions.



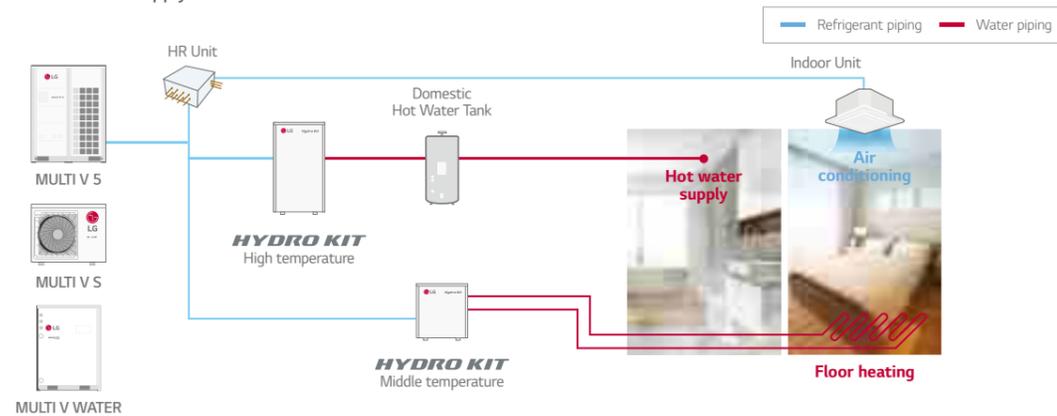
## Space Saving

Wall mounted hydro kit with Multi V S outdoor is suitable for residential application with its compact size and design.



## Total Solution

Total solution provided with heat pump, air conditioning (Cooling by refrigerant and cold water / heating by refrigerant hot water) and domestic hot water supply.



### Compatible with compact R32 Multi V S

Product Volume (m<sup>3</sup>)



CONVENIENCE

CONVENIENCE

EFFICIENCY

HOT WATER SOLUTION  
HYDRO KIT

# Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

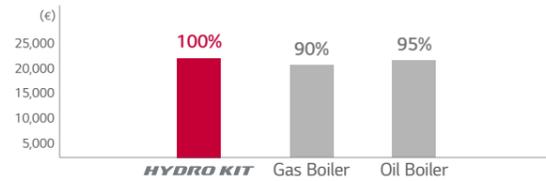
## 1st Proposal MULTI V 5 HYDRO KIT

- (Air Conditioning + Hot Water Supply + Floor Heating)
- 2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler (Hot Water Supply + Floor Heating)
- 3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler (Hot Water Supply + Floor Heating)

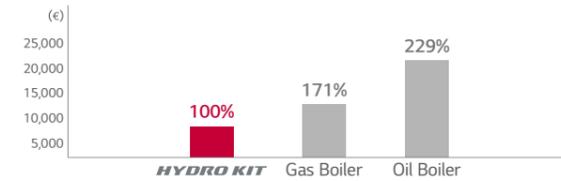
## Analysis Conditions

- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost : Average Cost in EU
- Oil Cost : Average Cost in EU

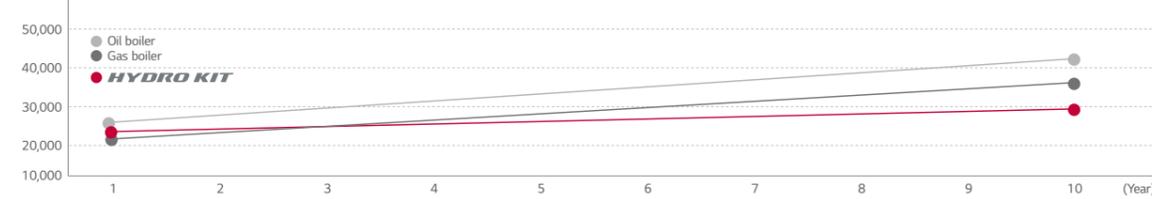
### Initial Costs



### Annual Operating Costs



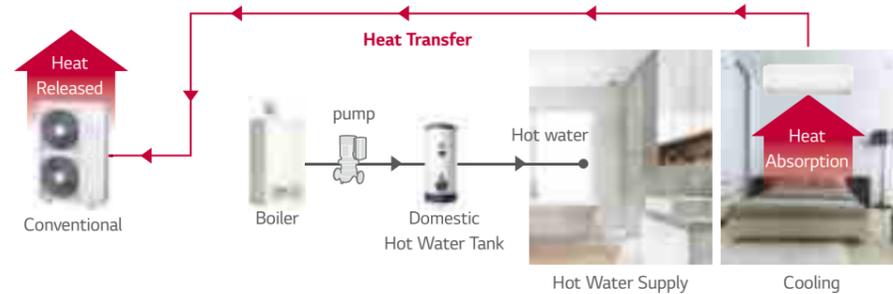
### LCC



# Energy Savings through Heat Recovery

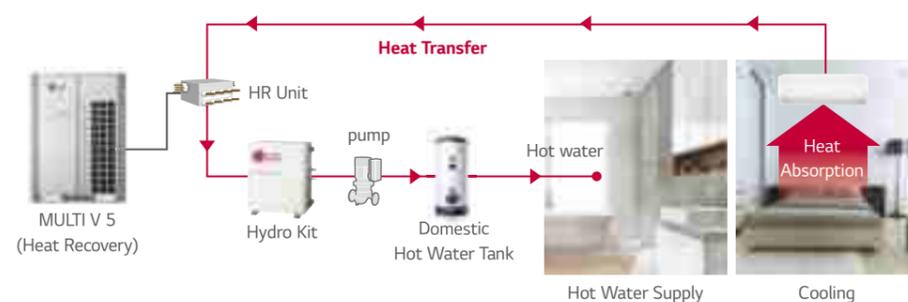
## Conventional

Absorbed heat is released to outdoor air.

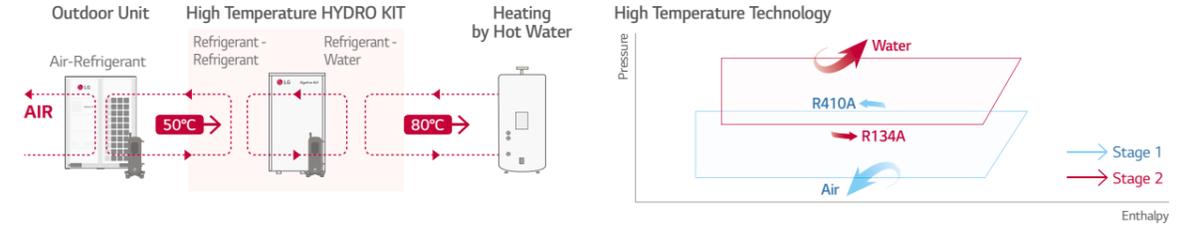


## HYDRO KIT

Absorbed heat from indoor space is used for making hot water.



# High Temperature HYDRO KIT Cycle Diagram



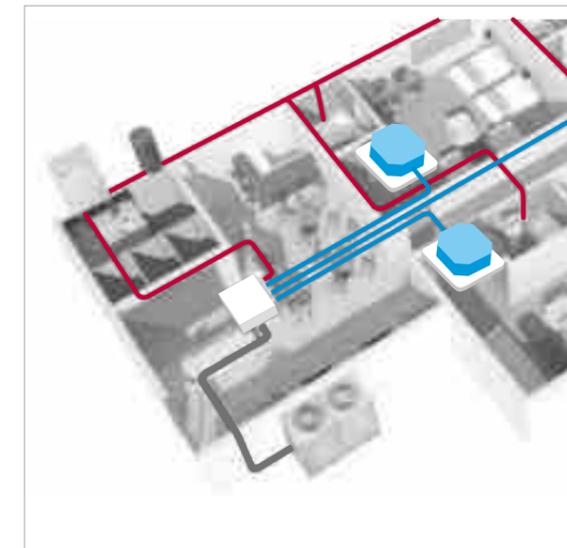
# Various Applications

Applicable to a variety of facilities including hospitals, residences and resorts that need heating and domestic hot water supply.



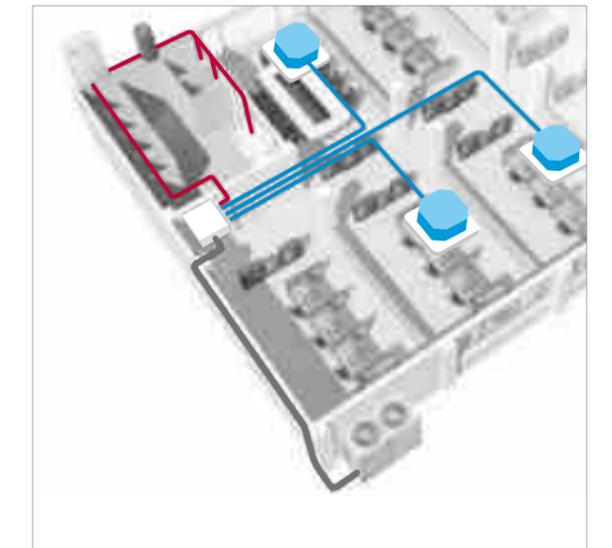
# Hotel Application

Simultaneous cooling and heating operation during summer to produce hot water by using heat energy recovered from indoor cooling process.



# Office Application

The energy recovered from office cooling can be used to generate hot water for use in the offices.





| MODEL                              |                           | UNIT              | ARNH18GK1A4                           | ARNH24GK1A4                           | ARNH30GK1A4                           |
|------------------------------------|---------------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power Supply                       |                           | V, Ø, Hz          | 220-230-240, 1, 50/60                 | 220-230-240, 1, 50/60                 | 220-230-240, 1, 50/60                 |
| Capacity (Rated)                   | Cooling                   | kW                | 5.6                                   | 7.1                                   | 9.0                                   |
|                                    |                           | kcal/h            | 4,800                                 | 6,100                                 | 7,700                                 |
|                                    |                           | Btu/h             | 19,100                                | 24,200                                | 30,700                                |
|                                    | Heating                   | kW                | 5.6                                   | 7.1                                   | 9.0                                   |
|                                    |                           | kcal/h            | 4,800                                 | 6,100                                 | 7,700                                 |
|                                    |                           | Btu/h             | 19,100                                | 24,200                                | 30,700                                |
| Input (Rated)                      | Cooling                   | W                 | 75                                    | 75                                    | 75                                    |
|                                    | Heating                   | W                 | 75                                    | 75                                    | 75                                    |
| Running Current (220 - 230 - 240V) |                           | Cooling / Heating | A                                     | 0.70 - 0.67 - 0.64                    | 0.70 - 0.67 - 0.64                    |
| Casing                             | Material                  | -                 | Painted Steel Plate                   | Painted Steel Plate                   | Painted Steel Plate                   |
|                                    | RAL (Classic)             | -                 | RAL 9003                              | RAL 9003                              | RAL 9003                              |
| Dimensions                         | Net(W x H x D)            | mm                | 490 x 850 x 315                       | 490 x 850 x 315                       | 490 x 850 x 315                       |
|                                    | Shipping(W x H x D)       | mm                | 1,082 x 563 x 375                     | 1,082 x 563 x 375                     | 1,082 x 563 x 375                     |
| Weight                             | Net                       | kg                | 42.0                                  | 42.0                                  | 42.0                                  |
|                                    | Shipping                  | kg                | 47.0                                  | 42.0                                  | 42.0                                  |
| Heat Exchanger                     | Refrigerant to Water      | Type              | -                                     | Brazed Plate HEX                      | Brazed Plate HEX                      |
|                                    |                           | Quantity          | EA                                    | 1                                     | 1                                     |
|                                    |                           | Number of Plate   | EA                                    | 54                                    | 54                                    |
|                                    |                           | Water Volume      | ℓ                                     | 0.7                                   | 0.7                                   |
|                                    |                           | Rated Water Flow  | ℓ/min                                 | 15.8                                  | 20.1                                  |
| Head Loss                          |                           | m                 | 0.22                                  | 0.30                                  | 0.40                                  |
| Water Pump                         | Type                      | -                 | Canned type for hot water circulation | Canned type for hot water circulation | Canned type for hot water circulation |
|                                    | Model                     | -                 | GRUNDFOS UPM3K 20-75 CHBL             | GRUNDFOS UPM3K 20-75 CHBL             | GRUNDFOS UPM3K 20-75 CHBL             |
|                                    | Motor Type                | -                 | AC Motor                              | AC Motor                              | AC Motor                              |
|                                    | Steps of Pump Performance | -                 | Variable capacity 10% to 100%         | Variable capacity 10% to 100%         | Variable capacity 10% to 100%         |
|                                    | Power input               | Min. - Max.       | W                                     | 3 - 60                                | 3 - 60                                |
| Expansion Vessel                   | Volume                    | Max.              | ℓ                                     | 8.0                                   | 8.0                                   |
|                                    | Water pressure            | Max.              | bar                                   | 3.0                                   | 3.0                                   |
|                                    | Water pressure            | Pre-charged       | bar                                   | 1.0                                   | 1.0                                   |
| Strainer                           | Mesh size                 | -                 | 28 mesh                               | 28 mesh                               | 28 mesh                               |
|                                    | Material                  | -                 | Stainless Steel                       | Stainless Steel                       | Stainless Steel                       |
| Relief valve                       | Pressure Limit            | Upper Limit       | bar                                   | 3.0                                   | 3.0                                   |



| MODEL                                       |                                        | UNIT                       | ARNH18GK1A4                                        | ARNH24GK1A4                                        | ARNH30GK1A4                                        |
|---------------------------------------------|----------------------------------------|----------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Backup Heater                               | Type                                   | -                          | Sheath                                             | Sheath                                             | Sheath                                             |
|                                             | Number of Heating Coil                 | EA                         | 2                                                  | 2                                                  | 2                                                  |
|                                             | Capacity Combination                   | kW                         | 3.0 + 3.0                                          | 3.0 + 3.0                                          | 3.0 + 3.0                                          |
|                                             | Operation                              | -                          | Automatic                                          | Automatic                                          | Automatic                                          |
|                                             | Heating Steps                          | Step                       | 2                                                  | 2                                                  | 2                                                  |
|                                             | Power Supply                           | V, Ø, Hz                   | 220-240, 1, 50                                     | 220-240, 1, 50                                     | 220-240, 1, 50                                     |
|                                             | FLA                                    | A                          | 31.0                                               | 31.0                                               | 31.0                                               |
|                                             | Power Cable (H07RN-F) (Included Earth) | mm <sup>2</sup> x cores    | 4.0 x 3C                                           | 4.0 x 3C                                           | 4.0 x 3C                                           |
| Flow Sensor                                 | Type                                   | -                          | Vortex                                             | Vortex                                             | Vortex                                             |
|                                             | Model                                  | -                          | SIKA VVX20                                         | SIKA VVX20                                         | SIKA VVX20                                         |
|                                             | Measuring Range                        | Min. - Max.                | ℓ/min                                              | 5 - 80                                             | 5 - 80                                             |
|                                             |                                        | Flow (Trigger Point)       | Min.                                               | ℓ/min                                              | 7.0                                                |
| Temperature Control                         |                                        | -                          | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Water Tank Temperature Sensor               | Type(Sensor Holder)                    | -                          | Male PT 1/2 inch                                   | Male PT 1/2 inch                                   | Male PT 1/2 inch                                   |
|                                             | Length                                 | m                          | 12                                                 | 12                                                 | 12                                                 |
| Sound Absorbing Thermal Insulation Material |                                        | -                          | Foamed polystyrene                                 | Foamed polystyrene                                 | Foamed polystyrene                                 |
| Safety Device                               |                                        | -                          | Fuse                                               | Fuse                                               | Fuse                                               |
| Piping Connections                          | Water Side                             | Inlet                      | -                                                  | Male PT 1 inch                                     | Male PT 1 inch                                     |
|                                             |                                        | Outlet                     | -                                                  | Male PT 1 inch                                     | Male PT 1 inch                                     |
|                                             | Refrigerant Side                       | Liquid                     | mm(inch)                                           | Ø 9.52 (3/8)                                       | Ø 9.52 (3/8)                                       |
|                                             |                                        | Gas                        | mm(inch)                                           | Ø 15.88 (5/8)                                      | Ø 15.88 (5/8)                                      |
| Power Cable Supply Cable (H07RN-F)          |                                        | mm <sup>2</sup> x cores    | 2.5 x 3C                                           | 2.5 x 3C                                           | 2.5 x 3C                                           |
| Communication Cable (VCTF-SB)               |                                        | mm <sup>2</sup> x cores    | 1.0-1.5 x 2C                                       | 1.0-1.5 x 2C                                       | 1.0-1.5 x 2C                                       |
| Refrigerant                                 | Refrigerant to Water                   | Type                       | -                                                  | R32                                                | R32                                                |
|                                             |                                        | Precharged Amount          | kg (lbs)                                           | -                                                  | -                                                  |
|                                             |                                        | Additional Charging Amount | kg (each)                                          | 0.43                                               | 0.43                                               |
|                                             |                                        | Control                    | -                                                  | EEV                                                | EEV                                                |
| Sound Pressure Level                        | Cooling / Heating                      | Rated                      | dB(A)                                              | 35                                                 | 35                                                 |
| Sound Power Level                           | Cooling / Heating                      | Rated                      | dB(A)                                              | 44                                                 | 44                                                 |

## ARNH04GK2A4 / ARNH10GK2A4



| MODEL                             | UNIT                       | ARNH04GK2A4     | ARNH10GK2A4     |
|-----------------------------------|----------------------------|-----------------|-----------------|
| Cooling Capacity                  | kW                         | 12.3            | 28.0            |
| Heating Capacity                  | kW                         | 13.8            | 31.5            |
| Power Input Nominal <sup>1)</sup> | W                          | 10              | 10              |
| Exterior Color                    |                            | Morning Gray    | Morning Gray    |
| RAL Code                          |                            | RAL 7030        | RAL 7030        |
| Dimensions (W x H x D)            | Body                       | 520 x 631 x 330 | 520 x 631 x 330 |
|                                   | Shipping                   | 677 x 687 x 418 | 677 x 687 x 418 |
| Pipe Connections                  | Liquid Side                | Ø9.52 (3/8)     | Ø9.52 (3/8)     |
|                                   | Gas Side                   | Ø15.88 (5/8)    | Ø22.2 (7/8)     |
|                                   | Drain Pipe (Internal Dia.) | A (inch)        | 25A (Male PT 1) |
| Water Pipe Connections            | Inlet                      | A (inch)        | 25A (Male PT 1) |
|                                   | Outlet                     | A (inch)        | 25A (Male PT 1) |
| Weight                            | Body                       | 29.2            | 33.7            |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 26              | 26              |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50  | 1, 220-240, 50  |
| Communication Cable               | mm <sup>2</sup> x No.      | 1.0 - 1.5 x 2C  | 1.0 - 1.5 x 2C  |

1) Nominal : Performance tested under EN14511

Note :

1. Capacities are based on the following conditions :

- Cooling : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)

- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)

2. Piping Length : Interconnected Pipe Length = 7.5m

3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.

4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to Hydro Kit.

5. MULTI V Water S cannot be connected to Hydro Kit.

6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.

## Accessories

| CHASSIS                                 | ARNH04GK2A4 | ARNH10GK2A4                            |
|-----------------------------------------|-------------|----------------------------------------|
| Drain Pump                              |             | -                                      |
| Cassette Cover                          |             | -                                      |
| Refrigerant Leakage Detector            |             | PRLDNVSO                               |
| EEV Kit                                 |             | -                                      |
| Multi-tenant Power Module               |             | ○                                      |
| Robot Cleaner                           |             | -                                      |
| Pre Filter (Washable)                   |             | -                                      |
| Ion Generator                           |             | -                                      |
| CO <sub>2</sub> Sensor                  |             | -                                      |
| Ventilation Kit                         |             | -                                      |
| IR Receiver                             |             | -                                      |
| Zone Controller                         |             | -                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320 |
| External Input (1 point)                |             | ○                                      |
| Wi-Fi                                   |             | PWFMD200                               |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

## ARNH04GK3A4 / ARNH08GK3A4



| MODEL                             | UNIT                       | ARNH04GK3A4       | ARNH08GK3A4       |
|-----------------------------------|----------------------------|-------------------|-------------------|
| Heating Capacity                  | kW                         | 13.8              | 25.2              |
| Power Input Nominal <sup>1)</sup> | W                          | 2,300             | 5,000             |
| Exterior Color                    |                            | Morning Gray      | Morning Gray      |
| RAL Code                          |                            | RAL 7030          | RAL 7030          |
| Dimensions (W x H x D)            | Body                       | 520 x 1,080 x 330 | 520 x 1,080 x 330 |
|                                   | Shipping                   | 682 x 1,168 x 423 | 682 x 1,168 x 423 |
| Pipe Connections                  | Liquid Side                | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                                   | Gas Side                   | Ø15.88 (5/8)      | Ø19.05 (3/4)      |
|                                   | Drain Pipe (Internal Dia.) | A (inch)          | 25A (Male PT 1)   |
| Water Pipe Connections            | Inlet                      | A (inch)          | 25A (Male PT 1)   |
|                                   | Outlet                     | A (inch)          | 25A (Male PT 1)   |
| Weight                            | Body                       | 87.0              | 91.0              |
| Sound Pressure Levels (H / M / L) | dB(A)                      | 43                | 46                |
| Power Supply                      | Ø, V, Hz                   | 1, 220-240, 50    | 1, 220-240, 50    |
| Communication Cable               | mm <sup>2</sup> x No.      | 1.0 - 1.5 x 2C    | 1.0 - 1.5 x 2C    |

1) Nominal : Performance tested under EN14511

Note :

1. Capacities are based on the following conditions :

- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)

2. Piping Length : Interconnected Pipe Length = 7.5m

3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.

4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to Hydro Kit.

5. MULTI V Water S cannot be connected to Hydro Kit.

## Accessories

| CHASSIS                                 | ARNH04GK3A4 | ARNH08GK3A4                            |
|-----------------------------------------|-------------|----------------------------------------|
| Drain Pump                              |             | -                                      |
| Cassette Cover                          |             | -                                      |
| Refrigerant Leakage Detector            |             | PRLDNVSO                               |
| EEV Kit                                 |             | -                                      |
| Multi-tenant Power Module               |             | ○                                      |
| Robot Cleaner                           |             | -                                      |
| Pre Filter (Washable)                   |             | -                                      |
| Ion Generator                           |             | -                                      |
| CO <sub>2</sub> Sensor                  |             | -                                      |
| Ventilation Kit                         |             | -                                      |
| IR Receiver                             |             | -                                      |
| Zone Controller                         |             | -                                      |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB320 |
| External Input (1 point)                |             | ○                                      |
| Wi-Fi                                   |             | PWFMD200                               |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

202-213

# VENTILATION SOLUTIONS

ERV / ERV WITH DX COIL

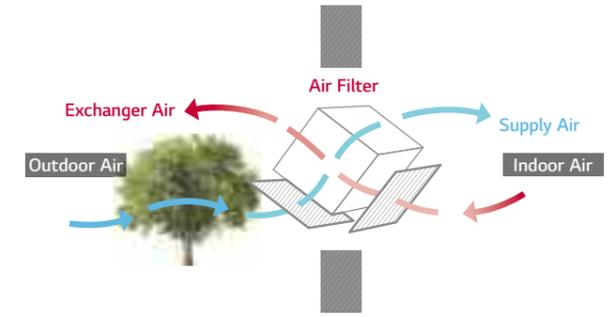
For more LG Commercial  
Air Solutions information,  
please visit our  
Youtube channel  
through QR code.





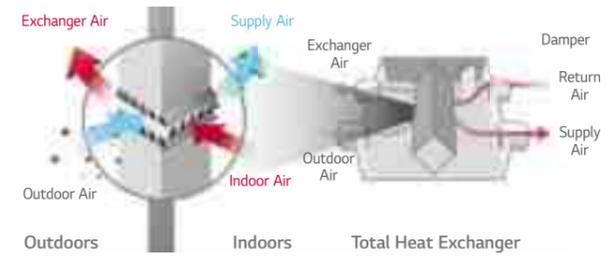
## High Efficiency Heat Exchanger

Efficiency and comfort is ensured through the high-efficiency energy recovery central core which recovers energy from outgoing indoor air and transfers it to the fresh incoming air without mixing the air stream.



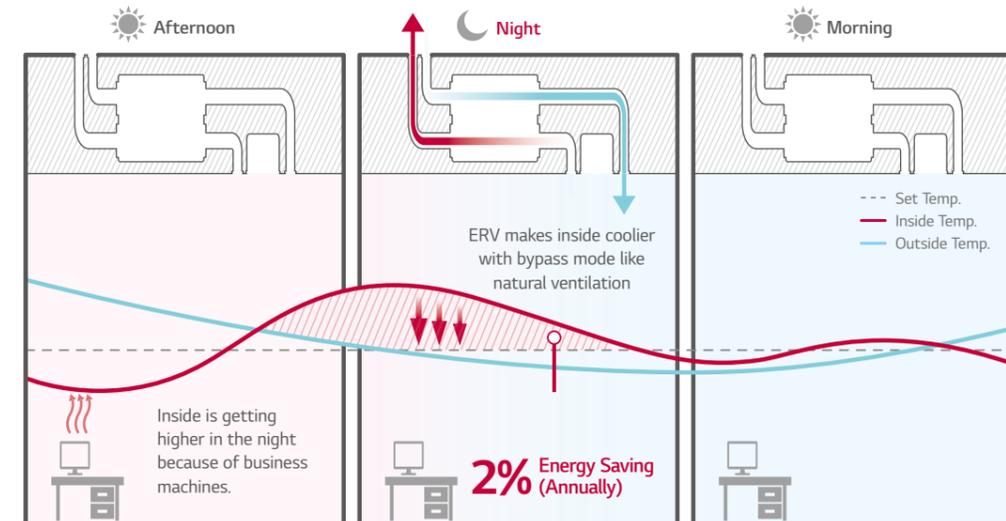
## Cross Flow System

The exhaust system uses a high static sirocco fan to remove stale indoor air. Supply and exhaust air flows are completely separated in the heat exchanger, allowing the LG ERV to filter out particles before supplying outdoor air to ensure indoor air is fresh and healthy.



## Night Time Free Cooling

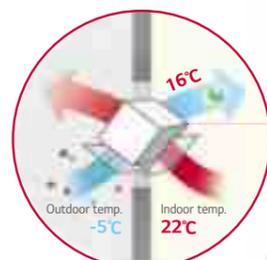
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



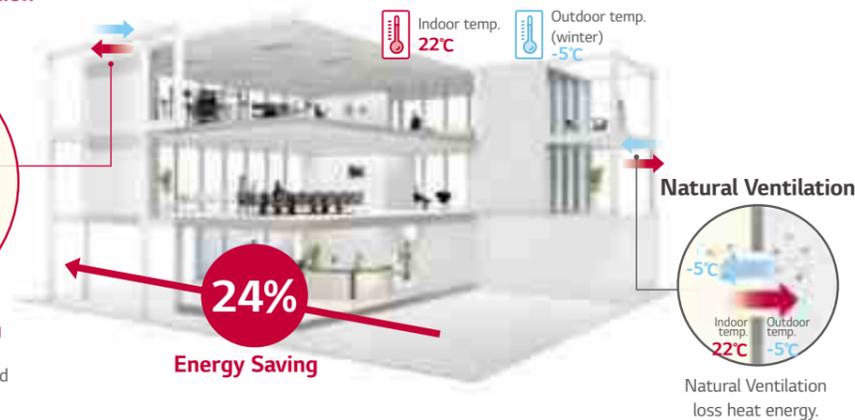
※ This function is operated with 'Night Time Free Cooling' on remote controller (with MULTI V only)  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition  
 - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination  
 - Other conditions are subject to BREEAM.

## Necessity of ERV

### Energy Recovery Ventilation (ERV)



**Comfort air + Energy Saving**  
 Compare to natural ventilation  
 Heat exchanger collects wasted energy while ventilating.

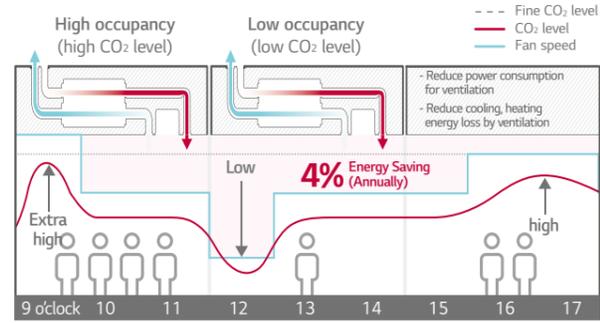


**24%**  
**Energy Saving**

Natural Ventilation  
 loss heat energy.

## CO<sub>2</sub> Auto Operation

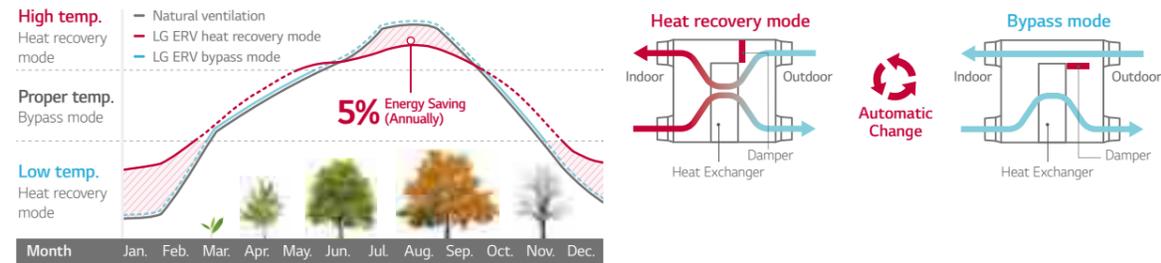
LG ERV reduces energy loss with auto fan speed control following CO<sub>2</sub> level.



※ This function is operated with 'Night Time Free Cooling' on remote controller (with MULTI V only)  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1,000 CMH) + MULTI V 4 (1.2HP) Unit Combination  
 - Other conditions are subject to BREEAM

## Seasonal Auto Operation

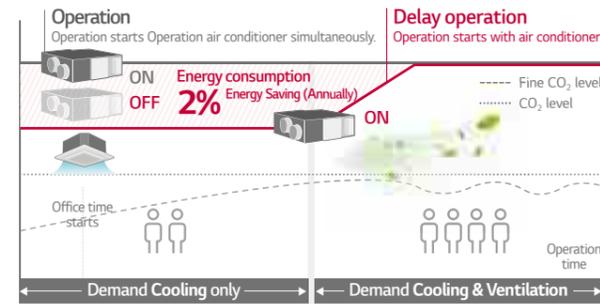
LG ERV senses outdoor temperature and operates automatically following weather conditions.



※ This function is operated with 'Auto' mode by wired remote control.  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1,000 CMH) + MULTI V 4 (1.2HP) Unit Combination  
 - Other conditions are subject to BREEAM

## Delay Operation

When the air conditioner and ERV are switched on simultaneously, delay operation can reduce unnecessary heating and cooling energy loss by slowing down automatic ERV operation.



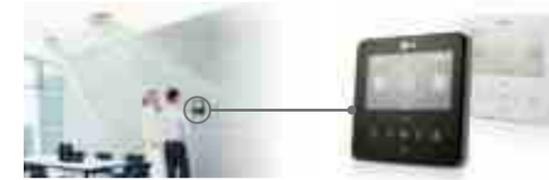
※ This function is operated with 'Night Time Free Cooling' on remote controller (with MULTI V only)  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1,000 CMH) + MULTI V 4 (1.2HP) Unit Combination  
 - Other conditions are subject to BREEAM

## CO<sub>2</sub> Level Monitoring

CO<sub>2</sub> sensor senses CO<sub>2</sub> level in the room. Users can monitor CO<sub>2</sub> level on new wired remote controller, and ERV controls the fan speed automatically following the level.

### CO<sub>2</sub> Level Visualization

CO<sub>2</sub> sensor senses indoor CO<sub>2</sub> level and displays it on new wired remote controller.



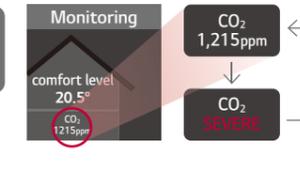
### Main display

If the CO<sub>2</sub> level is above 900ppm in the room, the red mark is on.



### Further information

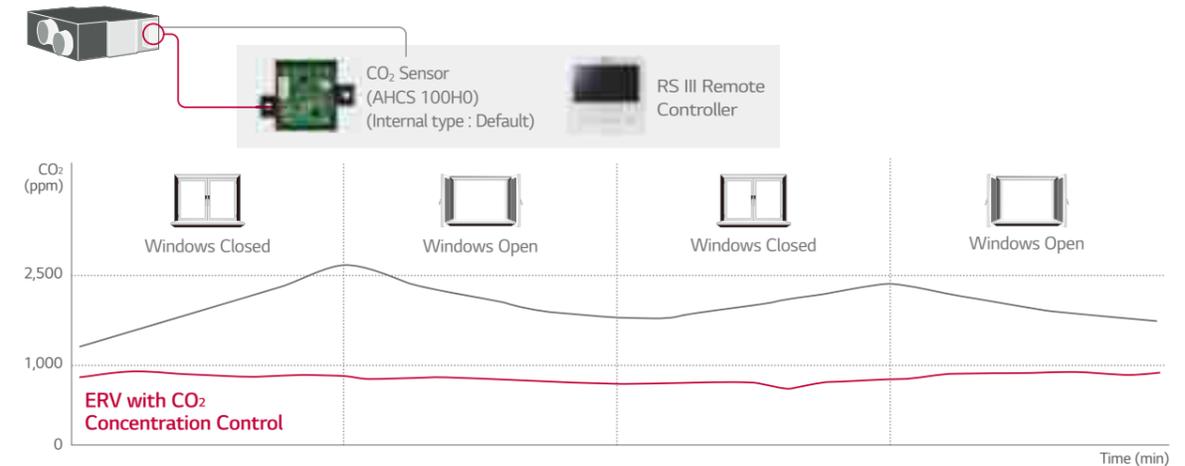
CO<sub>2</sub> level and room condition are displayed continuously.



※ The remote controller screen image may change.  
 ※ Applicable to only Standard III, Premium remote controller.

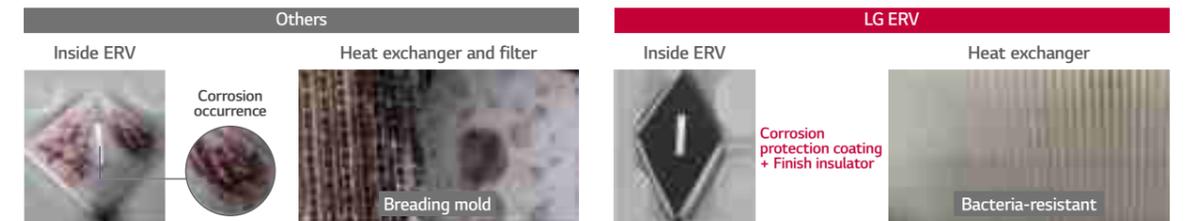
## CO<sub>2</sub> Concentration Control

Using CO<sub>2</sub> sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO<sub>2</sub> concentration.



## High Durability

There is no moving part within the heat exchanger and therefore it has higher durability and reliability. The heat exchanger is made of special thin paper membranes which are bacteria-resistant to prevent harmful bacteria growth, and flame-retardant treated for fire safety.



## Easy Control

Wired remote controller is easy for usage.



### Easy

- Navigation buttons, easy to use.
- Easy installation setting

### Display

- Indoor CO<sub>2</sub> level
- Alarm for filter change / remaining time to change filters

### Convenient

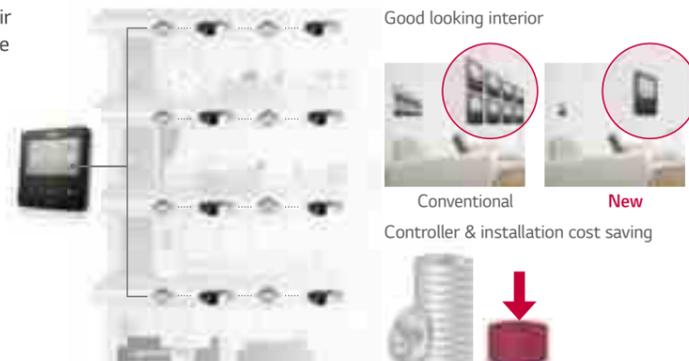
- Flexible display
- Dual display with air conditioner
- Zoom selected directory to increase legibility

## Group Control

1 wired remote controller up to 16 ERV (Including air conditioner). It is convenient for large common space such as lobby.

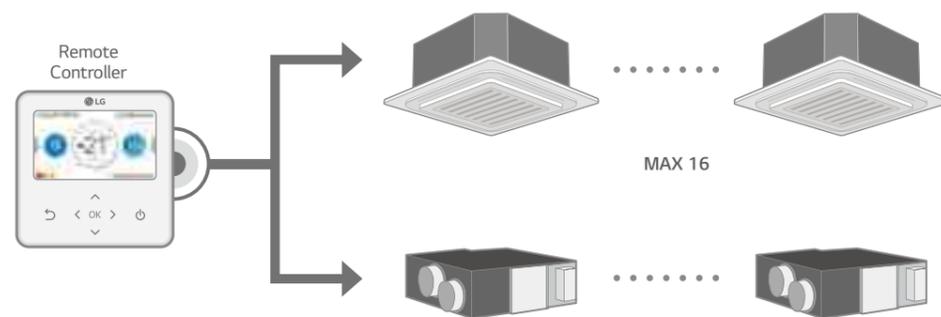
### Several units combination

16 units group control is available with 1 remote controller.



## Interlocking with Air Conditioning System

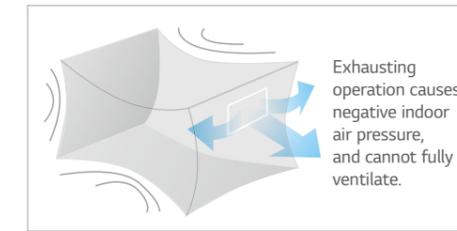
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



## Fast Ventilation Mode

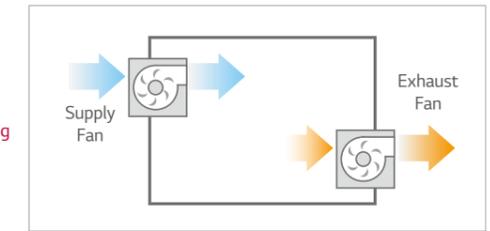
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

### Only Exhausting



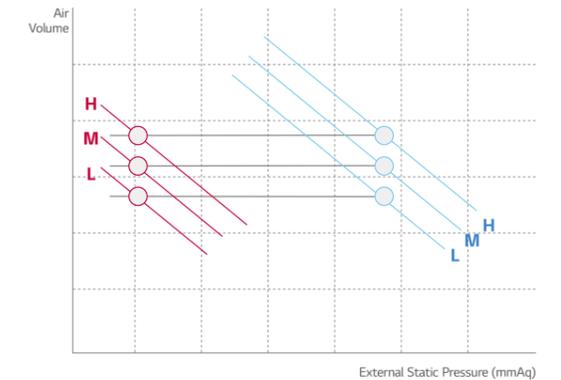
Exhausting and Supplying Simultaneously

### Fast Ventilation Mode



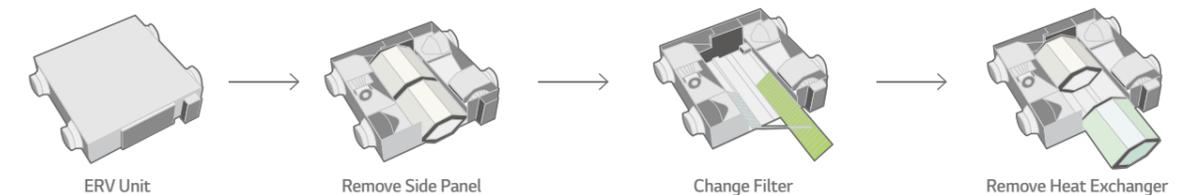
## External Static Pressure Control

The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



## Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.



LZ-H025GBA4 / LZ-H035GBA5  
LZ-H050GBA5



| MODEL                  |                                 | UNIT                   | LZ-H025GBA4               | LZ-H035GBA5        | LZ-H050GBA5        |
|------------------------|---------------------------------|------------------------|---------------------------|--------------------|--------------------|
| Dimensions (W x H x D) | Body                            | mm                     | 988 x 273 x 1,014         |                    |                    |
|                        | Weight                          | kg                     | 44                        |                    |                    |
| Power Supply           |                                 | Ø, V, Hz               | 1, 220-240, 50            |                    |                    |
| Normal Air flow        |                                 | m³/h                   | 250                       | 350                | 500                |
| ERV Mode               | Operating Step                  |                        | Super-high / High / Low   |                    |                    |
|                        | Current                         | SH / H / L A           | 0.70 / 0.60 / 0.42        | 1.05 / 0.90 / 0.50 | 1.65 / 1.56 / 0.80 |
|                        | Power Input                     | SH / H / L W           | 97 / 87 / 52              | 150 / 125 / 60     | 247 / 230 / 95     |
|                        | Air Flow                        | SH / H / L m³/h        | 250 / 250 / 150           | 350 / 350 / 210    | 500 / 500 / 320    |
|                        | External Static Pressure        | SH / H / L Pa          | 100 / 70 / 50             | 150 / 100 / 50     | 150 / 100 / 50     |
|                        | Temperature Exchange Efficiency | SH / H / L %           | 80 / 80 / 83              | 80 / 80 / 82       | 79 / 79 / 82       |
|                        | Enthalpy Exchange Efficiency    | Heating (SH / H / L) % | 70 / 70 / 72              | 75 / 75 / 80       | 75 / 75 / 78       |
|                        |                                 | Cooling (SH / H / L) % | 66 / 66 / 68              | 71 / 71 / 75       | 68 / 68 / 75       |
|                        | Energy Label                    | A+ to G Scale          | A                         | B                  | B                  |
|                        | Sound Pressure Level            | SH / H / L dB(A)       | 29 / 28 / 24              | 35 / 32 / 26       | 37 / 36 / 28       |
|                        | Sound Power Level               | SH / H / L dB(A)       | 50                        | 53 / 50 / 42       | 57 / 56 / 46       |
| Bypass Mode            | Operating Step                  |                        | Super-high / High / Low   |                    |                    |
|                        | Current                         | SH / H / L A           | 0.70 / 0.60 / 0.42        | 1.05 / 0.90 / 0.50 | 1.65 / 1.56 / 0.80 |
|                        | Power Input                     | SH / H / L W           | 97 / 87 / 52              | 150 / 125 / 60     | 247 / 230 / 95     |
|                        | Air Flow                        | SH / H / L m³/h        | 250 / 250 / 150           | 350 / 350 / 210    | 500 / 500 / 320    |
|                        | External Static Pressure        | SH / H / L Pa          | 100 / 70 / 50             | 150 / 100 / 50     | 150 / 100 / 50     |
|                        | Sound Pressure Level            | SH / H / L dB(A)       | 29 / 29 / 25              | 35 / 33 / 26       | 37 / 37 / 28       |
| Duct Work              | Qty                             | EA                     | 4                         |                    |                    |
|                        | Size (Ø)                        | mm                     | Ø200                      |                    |                    |
| Supply Air Fan         | Qty                             | EA                     | 1                         |                    |                    |
|                        | Type                            |                        | Direct-Drive Sirocco      |                    |                    |
| Exhaust Air Fan        | Qty                             | EA                     | 1                         |                    |                    |
|                        | Type                            |                        | Direct-Drive Sirocco      |                    |                    |
| Filters                | Qty                             | EA                     | 2                         |                    |                    |
|                        | Type                            |                        | Cleanable fibrous fleeces |                    |                    |
|                        | Size (W x H x D)                | mm                     | 855 x 10 x 166            |                    |                    |

- Note :
- ERV mode : Total Heat Recovery Ventilation mode
  - Refer to dimensional drawings.
  - Noise level :
    - The operating conditions are assumed to be standard
    - Sound measured at 1.5m below the center the body.
    - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
    - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
  - Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
  - Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
  - Temperature Exchange efficiency is tested at heating condition.

Accessories

| CHASSIS                                 | LZ-H025GBA4 | LZ-H035GBA5                                     | LZ-H050GBA5 |
|-----------------------------------------|-------------|-------------------------------------------------|-------------|
| Drain Pump                              |             | -                                               | -           |
| Cassette Cover                          |             | -                                               | -           |
| Refrigerant Leakage Detector            |             | -                                               | -           |
| EEV Kit                                 |             | -                                               | -           |
| Multi-tenant Power Module               |             | -                                               | -           |
| Robot Cleaner                           |             | -                                               | -           |
| Pre Filter (Washable)                   |             | -                                               | -           |
| Ion Generator                           |             | -                                               | -           |
| CO <sub>2</sub> Sensor                  |             | ○                                               | -           |
| Ventilation Kit                         |             | -                                               | -           |
| IR Receiver                             |             | -                                               | -           |
| Zone Controller                         |             | -                                               | -           |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) |             |
| External Input (1 point)                |             | -                                               | -           |
| Wi-Fi                                   |             | -                                               | -           |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

LZ-H080GBA5 / LZ-H100GBA5  
LZ-H150GBA5 / LZ-H200GBA5



| MODEL                    |                                 | UNIT                   | LZ-H080GBA5               | LZ-H100GBA5             | LZ-H150GBA5               | LZ-H200GBA5             |
|--------------------------|---------------------------------|------------------------|---------------------------|-------------------------|---------------------------|-------------------------|
| Dimensions (W x H x D)   | Body                            | mm                     | 1,101 x 405 x 1,230       |                         | 1,353 x 815 x 1,230       |                         |
|                          | Weight                          | kg                     | 63                        |                         | 130                       |                         |
| Power Supply             |                                 | Ø, V, Hz               | 1, 220-240, 50            |                         |                           |                         |
| Normal Air flow          |                                 | m³/h                   | 800                       | 1,000                   | 1,500                     | 2,000                   |
| ERV Mode                 | Operating Step                  |                        | Super-high / High / Low   |                         | Super-high / High / Low   |                         |
|                          | Current                         | SH / H / L A           | 2.13 / 1.75 / 1.00        | 2.92 / 2.38 / 1.40      | 4.26 / 3.50 / 2.00        | 5.92 / 4.76 / 2.80      |
|                          | Power Input                     | SH / H / L W           | 328 / 266 / 144           | 463 / 370 / 208         | 660 / 530 / 290           | 926 / 740 / 420         |
|                          | Air Flow                        | SH / H / L m³/h        | 800 / 800 / 660           | 1,000 / 1,000 / 800     | 1,500 / 1,500 / 1,200     | 2,000 / 2,000 / 1,600   |
|                          | External Static Pressure        | SH / H / L Pa          | 160 / 100 / 50            | 160 / 100 / 50          | 160 / 100 / 50            | 160 / 100 / 50          |
|                          | Temperature Exchange Efficiency | SH / H / L %           | 82 / 82 / 83              | 80 / 80 / 81            | 82 / 82 / 83              | 80 / 80 / 81            |
|                          | Enthalpy Exchange Efficiency    | Heating (SH / H / L) % | 73 / 73 / 76              | 71 / 71 / 73            | 73 / 73 / 76              | 71 / 71 / 73            |
|                          |                                 | Cooling (SH / H / L) % | 66 / 66 / 70              | 64 / 64 / 67            | 66 / 66 / 70              | 64 / 64 / 67            |
|                          | Sound Pressure Level            | SH / H / L dB(A)       | 40 / 36 / 32              | 40 / 37 / 33            | 43 / 39 / 35              | 43 / 40 / 36            |
|                          | Sound Power Level               | SH / H / L dB(A)       | 56 / 53 / 47              | 59 / 56 / 52            | 59 / 56 / 50              | 62 / 59 / 55            |
|                          | Bypass Mode                     | Operating Step         |                           | Super-high / High / Low |                           | Super-high / High / Low |
| Current                  |                                 | SH / H / L A           | 2.13 / 1.75 / 1.00        | 2.92 / 2.38 / 1.40      | 4.26 / 3.50 / 2.00        | 5.92 / 4.76 / 2.80      |
| Power Input              |                                 | SH / H / L W           | 328 / 266 / 144           | 463 / 370 / 208         | 660 / 530 / 290           | 926 / 740 / 420         |
| Air Flow                 |                                 | SH / H / L m³/h        | 800 / 800 / 660           | 1,000 / 1,000 / 800     | 1,500 / 1,500 / 1,200     | 2,000 / 2,000 / 1,600   |
| External Static Pressure |                                 | SH / H / L Pa          | 160 / 100 / 50            | 160 / 100 / 50          | 160 / 100 / 50            | 160 / 100 / 50          |
| Sound Pressure Level     |                                 | SH / H / L dB(A)       | 41 / 37 / 33              | 41 / 38 / 34            | 44 / 40 / 36              | 44 / 41 / 37            |
| Duct Work                | Qty                             | EA                     | 4                         |                         | 4 + 2                     |                         |
|                          | Size (Ø)                        | mm                     | Ø250                      |                         | Ø250 + Ø350               |                         |
| Supply Air Fan           | Qty                             | EA                     | 1                         |                         | 2                         |                         |
|                          | Type                            |                        | Direct-Drive Sirocco      |                         | Direct-Drive Sirocco      |                         |
| Exhaust Air Fan          | Qty                             | EA                     | 1                         |                         | 2                         |                         |
|                          | Type                            |                        | Direct-Drive Sirocco      |                         | Direct-Drive Sirocco      |                         |
| Filters                  | Qty                             | EA                     | 2                         |                         | 4                         |                         |
|                          | Type                            |                        | Cleanable fibrous fleeces |                         | Cleanable fibrous fleeces |                         |
|                          | Size (W x H x D)                | mm                     | 1,148 x 6 x 245           |                         | 1,148 x 6 x 245           |                         |

- Note :
- ERV mode : Total Heat Recovery Ventilation mode
  - Refer to dimensional drawings.
  - Noise level :
    - The operating conditions are assumed to be standard
    - Sound measured at 1.5m below the center the body.
    - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
    - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
  - Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
  - Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
  - Temperature Exchange efficiency is tested at heating condition.

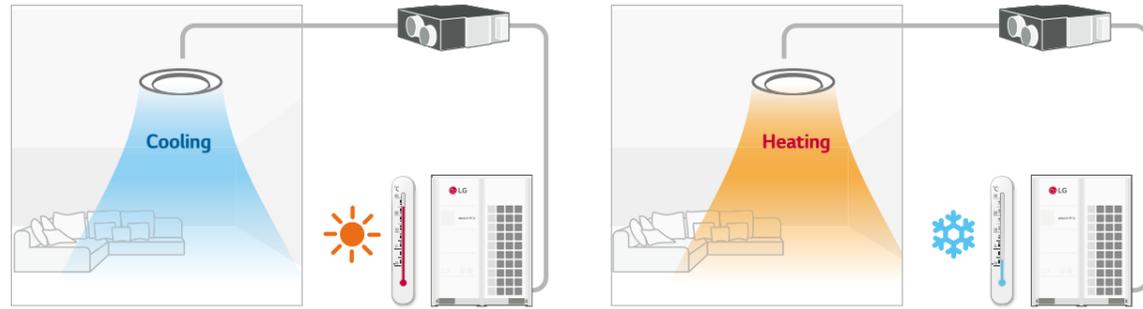
Accessories

| CHASSIS                                 | LZ-H080GBA5 | LZ-H100GBA5                                     | LZ-H150GBA5 | LZ-H200GBA5 |
|-----------------------------------------|-------------|-------------------------------------------------|-------------|-------------|
| Drain Pump                              |             | -                                               | -           | -           |
| Cassette Cover                          |             | -                                               | -           | -           |
| Refrigerant Leakage Detector            |             | -                                               | -           | -           |
| EEV Kit                                 |             | -                                               | -           | -           |
| Multi-tenant Power Module               |             | -                                               | -           | -           |
| Robot Cleaner                           |             | -                                               | -           | -           |
| Pre Filter (Washable)                   |             | -                                               | -           | -           |
| Ion Generator                           |             | -                                               | -           | -           |
| CO <sub>2</sub> Sensor                  |             |                                                 | ○           | -           |
| Ventilation Kit                         |             | -                                               | -           | -           |
| IR Receiver                             |             | -                                               | -           | -           |
| Zone Controller                         |             | -                                               | -           | -           |
| Dry Contact (with additional accessory) |             | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) |             |             |
| External Input (1 point)                |             | -                                               | -           | -           |
| Wi-Fi                                   |             | -                                               | -           | -           |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

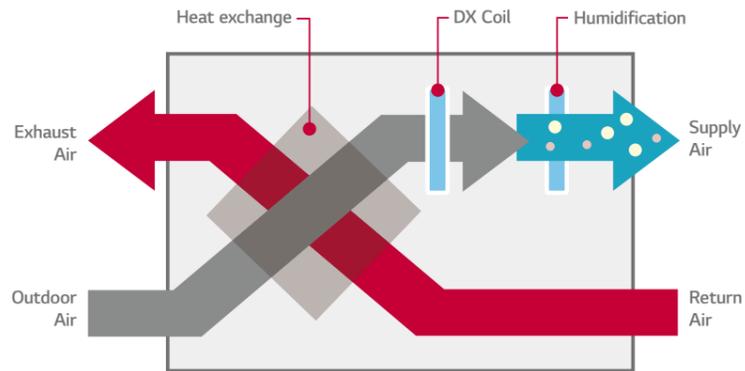
## Providing Cool & Warm Fresh Air

During the summer, ERV DX can transform outdoor warm air into cool air for indoors, and it can prevent cold draft during the winter by supplying warm air.



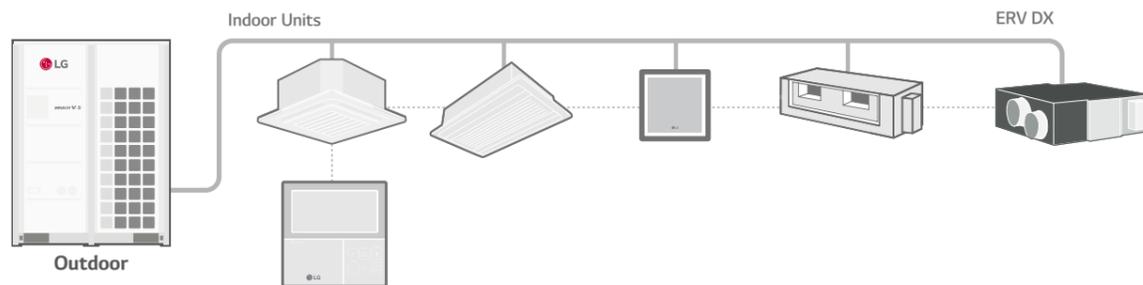
## Total Air Conditioning Solution

LG ERV DX can be used as a Total Air Conditioning Solution. It can control condition of incoming air with the DX coil and humidifier for making comfortable indoor air. In the summer, LG ERV DX provides air conditioning by cooling and dehumidifying incoming air. During winter, warm air is provided by heating and humidifying incoming air.



## Interlocking with MULTI V

LG ERV DX can be interlocked with MULTI V. It can be controlled individually by a wired remote controller connected to MULTI V indoor units.



LZ-H050GXH4 / LZ-H080GXH4  
LZ-H100GXH4 / LZ-H050GXN4  
LZ-H080GXN4 / LZ-H100GXN4



| MODEL                           |                                       | LZ-H050GXH4                                                        | LZ-H080GXH4              | LZ-H100GXH4        | LZ-H050GXN4                                                        | LZ-H080GXN4         | LZ-H100GXN4        |                     |
|---------------------------------|---------------------------------------|--------------------------------------------------------------------|--------------------------|--------------------|--------------------------------------------------------------------|---------------------|--------------------|---------------------|
| Fresh Air                       | Cooling                               | kW                                                                 | 4.93                     | 7.46               | 9.12                                                               | 4.93                | 7.46               | 9.12                |
| Conditioning Load               | Heating                               | kW                                                                 | 6.73                     | 9.80               | 11.72                                                              | 6.73                | 9.80               | 11.72               |
| Temperature Exchange Efficiency | SH / H / L                            | %                                                                  | 86 / 86 / 87             | 80 / 80 / 81       | 76 / 76 / 78                                                       | 86 / 86 / 87        | 80 / 80 / 81       | 76 / 76 / 78        |
| Enthalpy Exchange Efficiency    | Cooling (SH / H / L)                  | %                                                                  | 61 / 61 / 63             | 50 / 50 / 53       | 45 / 45 / 50                                                       | 61 / 61 / 63        | 50 / 50 / 53       | 45 / 45 / 50        |
|                                 | Heating (SH / H / L)                  | %                                                                  | 76 / 76 / 77             | 67 / 67 / 69       | 64 / 64 / 66                                                       | 76 / 76 / 77        | 67 / 67 / 69       | 64 / 64 / 66        |
| Operation Range                 | Outdoor air Temperature               | °C                                                                 | -15 - 45                 | -15 - 45           | -15 - 45                                                           | -15 - 45            | -15 - 45           | -15 - 45            |
| Air Flow Rate                   | Heat Exchange Mode (SH / H / L)       | CMH                                                                | 500 / 500 / 440          | 800 / 800 / 640    | 1,000 / 1,000 / 820                                                | 500 / 500 / 440     | 800 / 800 / 640    | 1,000 / 1,000 / 820 |
|                                 | Bypass Mode (SH / H / L)              | CMH                                                                | 500 / 500 / 440          | 800 / 800 / 640    | 1,000 / 1,000 / 820                                                | 500 / 500 / 440     | 800 / 800 / 640    | 1,000 / 1,000 / 820 |
| Fan                             | External Static Pressure (SH / H / L) | Pa                                                                 | 160 / 120 / 100          | 140 / 90 / 70      | 110 / 70 / 60                                                      | 180 / 150 / 110     | 170 / 120 / 80     | 150 / 100 / 70      |
|                                 | System                                |                                                                    | Natural Evaporating Type |                    |                                                                    | -                   |                    |                     |
| Humidifier                      | Amount                                | kg/h                                                               | 2.70                     | 4.00               | 5.40                                                               | -                   |                    |                     |
|                                 | Pressure Feed Water                   | Mpa                                                                | 0.02 - 0.49              |                    |                                                                    | -                   |                    |                     |
| Sound Pressure                  | Heat Exchange Mode (SH / H / L)       | dB(A)                                                              | 38 / 36 / 33             | 39 / 37 / 34       | 40 / 38 / 35                                                       | 39 / 37 / 35        | 41 / 38 / 36       | 41 / 39 / 36        |
|                                 | Bypass Mode (SH / H / L)              | dB(A)                                                              | 39 / 37 / 34             | 40 / 38 / 35       | 40 / 38 / 35                                                       | 39 / 37 / 35        | 41 / 38 / 36       | 41 / 39 / 36        |
| Refrigerant                     |                                       | R410A                                                              |                          |                    |                                                                    |                     |                    |                     |
| Power Supply                    |                                       | Ø, V, Hz                                                           |                          |                    |                                                                    |                     |                    | 1, 220-240, 50, 60  |
| Power Input (Nominal)           | Heat Exchange Mode (SH / H / L)       | kW                                                                 | 0.25 / 0.20 / 0.15       | 0.42 / 0.35 / 0.25 | 0.48 / 0.42 / 0.27                                                 | 0.25 / 0.20 / 0.15  | 0.42 / 0.35 / 0.25 | 0.48 / 0.42 / 0.27  |
|                                 | Bypass Mode (SH / H / L)              | kW                                                                 | 0.25 / 0.20 / 0.15       | 0.42 / 0.35 / 0.25 | 0.48 / 0.42 / 0.27                                                 | 0.25 / 0.20 / 0.15  | 0.42 / 0.35 / 0.25 | 0.48 / 0.42 / 0.27  |
| Nominal Running Current (RLA)   | Heat Exchange Mode (SH / H / L)       | A                                                                  | 1.5 / 1.3 / 1.0          | 2.5 / 2.0 / 1.5    | 3.6 / 3.2 / 2.3                                                    | 1.5 / 1.3 / 1.0     | 2.5 / 2.0 / 1.5    | 3.6 / 3.2 / 2.3     |
|                                 | Bypass Mode (SH / H / L)              | A                                                                  | 1.5 / 1.3 / 1.0          | 2.5 / 2.0 / 1.5    | 3.6 / 3.2 / 2.3                                                    | 1.5 / 1.3 / 1.0     | 2.5 / 2.0 / 1.5    | 3.6 / 3.2 / 2.3     |
| Heat Exchange System            |                                       | Air to air cross flow total heat (Sensible + Latent heat) exchange |                          |                    | Air to air cross flow total heat (Sensible + Latent heat) exchange |                     |                    |                     |
| Heat Exchange Element           |                                       | Specially processed non-flammable paper                            |                          |                    | Specially processed non-flammable paper                            |                     |                    |                     |
| Air Filter                      |                                       | Multidirectional fibrous fleeces                                   |                          |                    | Multidirectional fibrous fleeces                                   |                     |                    |                     |
| Dimensions                      | W x H x D                             | mm                                                                 | 1,667 x 365 x 1,140      |                    |                                                                    | 1,667 x 365 x 1,140 |                    |                     |
| Net Weight                      |                                       | kg                                                                 | 105                      |                    |                                                                    | 98                  |                    |                     |
|                                 | Liquid                                | mm                                                                 | Ø6.35                    |                    |                                                                    | Ø6.35               |                    |                     |
| Piping Connection               | Gas                                   | mm                                                                 | Ø12.7                    |                    |                                                                    | Ø12.7               |                    |                     |
|                                 | Water                                 | mm                                                                 | Ø6.35                    |                    |                                                                    | -                   |                    |                     |
| Connection Duct Diameter        | Drain Pipe (Internal Dia.)            | mm (inch)                                                          | Ø25 (1)                  |                    |                                                                    | Ø25 (1)             |                    |                     |
|                                 |                                       | mm                                                                 | Ø250                     |                    |                                                                    | Ø250                |                    |                     |

Note:

- Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
- Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
- Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- Cooling and heating capacities are based on the following conditions : Fan is based on High and Super-high.
- The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber.
- The specifications, designs and information here are subject to change without notice.

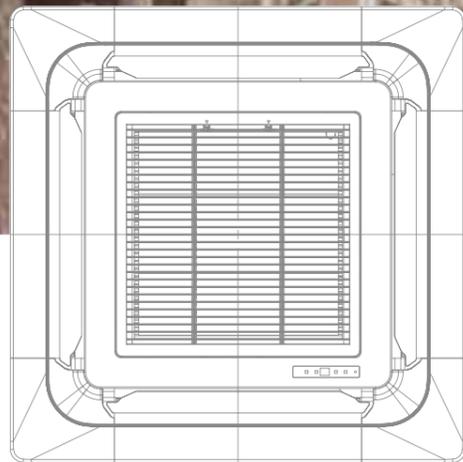
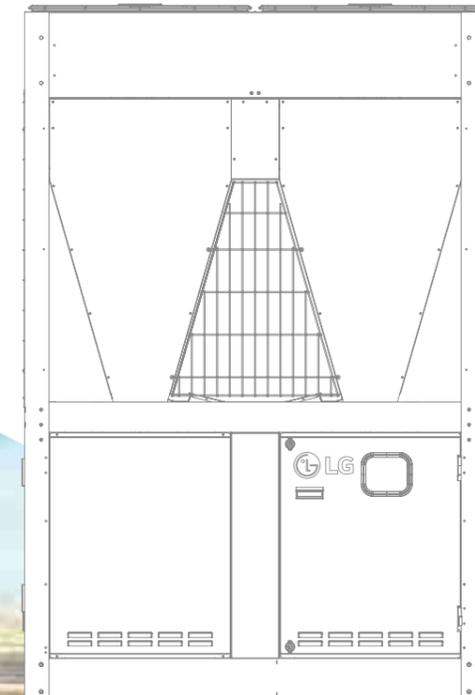
### Accessories

| CHASSIS                                 | LZ-H050GXH4 | LZ-H080GXH4 | LZ-H100GXH4 | LZ-H050GXN4                                     | LZ-H080GXN4 | LZ-H100GXN4 |
|-----------------------------------------|-------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Drain Pump                              | -           | -           | -           | -                                               | -           | -           |
| Cassette Cover                          | -           | -           | -           | -                                               | -           | -           |
| Refrigerant Leakage Detector            | -           | -           | -           | PRLDNV50                                        | -           | -           |
| EEV Kit                                 | -           | -           | -           | -                                               | -           | -           |
| Multi-tenant Power Module               | -           | -           | -           | -                                               | -           | -           |
| Robot Cleaner                           | -           | -           | -           | -                                               | -           | -           |
| Pre Filter (Washable)                   | -           | -           | -           | -                                               | -           | -           |
| Ion Generator                           | -           | -           | -           | -                                               | -           | -           |
| CO <sub>2</sub> Sensor                  | -           | -           | -           | AHCS100HO                                       | -           | -           |
| Ventilation Kit                         | -           | -           | -           | -                                               | -           | -           |
| IR Receiver                             | -           | -           | -           | -                                               | -           | -           |
| Zone Controller                         | -           | -           | -           | -                                               | -           | -           |
| Dry Contact (with additional accessory) | -           | -           | -           | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) | -           | -           |
| External Input (1 point)                | -           | -           | -           | ○                                               | -           | -           |
| Wi-Fi                                   | -           | -           | -           | -                                               | -           | -           |

※ ○ : Applied, - : Not applied  
Option : Refer to model name in table

# 214 - 243 CHILLER

INVERTER SCROLL CHILLER / FCU



## INVERTER SCROLL CHILLER

| Capacity (kW)                                            |                                                                 | 65   | 74 | 114 | 130   | 148 | 171 | 195   | 222 |
|----------------------------------------------------------|-----------------------------------------------------------------|------|----|-----|-------|-----|-----|-------|-----|
| Capacity (Kw)                                            | Cooling                                                         | 65   | 74 | 114 | 130   | 148 | 171 | 195   | 222 |
|                                                          | Heating                                                         | 70.3 | 82 | 120 | 140.6 | 164 | 180 | 210.9 | 246 |
| Range of Unit Control                                    | Up to 1,110 kW (5 CHILLERS) by AC Smart Controller              |      |    |     |       |     |     |       |     |
|                                                          | Up to 1,110 kW (5 CHILLERS) by HMI Touch controller             |      |    |     |       |     |     |       |     |
|                                                          | Up to 2,220 kW (10 CHILLERS) by ACP (Advanced Control Platform) |      |    |     |       |     |     |       |     |
| *Central controller ACP, AC Smart controller are option. |                                                                 |      |    |     |       |     |     |       |     |

## FCU

|                          |                       | (kW)*<br>(kBtu/h) | 1.8<br>6k       | 2.7<br>9k | 3.2<br>11k         | 4.1<br>14k      | 6<br>20k | 7.2<br>24k      | 9<br>30k | 10.5<br>36k | 13<br>44k |
|--------------------------|-----------------------|-------------------|-----------------|-----------|--------------------|-----------------|----------|-----------------|----------|-------------|-----------|
| Ceiling Mounted Cassette | 4 Way Cassette        |                   | ●               | ●         | ●                  | ●               | ●        | ●               | ●        | ●           | ●         |
|                          | Body Size (W×H×D, mm) |                   | 570 × 214 × 570 |           | 570 × 256 × 570    | 840 × 204 × 840 |          | 840 × 246 × 840 |          |             |           |
|                          | Front Panel           |                   | PT-UQC          |           | PT-QCHW0 (U-Style) |                 | PT-UMC   |                 |          |             |           |

|                      |                       | (kW)*<br>(kBtu/h) | 1.5<br>4k       | 1.8<br>6k | 2.5<br>9k       | 3.2<br>11k | 3.9<br>13k        | 5.5<br>17k | 6.6<br>22k |
|----------------------|-----------------------|-------------------|-----------------|-----------|-----------------|------------|-------------------|------------|------------|
| Ceiling Mounted Duct | Low ESP Duct          |                   | ●               | ●         | ●               | ●          | ●                 | ●          | ●          |
|                      | Body Size (W×H×D, mm) |                   | 700 × 190 × 700 |           | 900 × 190 × 700 |            | 1,100 × 190 × 700 |            |            |

※ All lineups are for 2 pipes type only.  
\* Based on Cooling Capacity. Cooling Capacity testing condition : Inlet/Outlet Water Temperature 7°C / 12°C, Indoor Air Temperature 27°CDB / 19°CWB

## ACCESSORIES & PARTS FOR WATER PIPES CONNECTION

| Remote Controller                                                         | Dry Contact                       | ETC.                                       | Not Offered by LG and to be Purchased Separately                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------|
|                                                                           |                                   |                                            | Parts for Water Pipes Connection                                           | Installation Parts                                        |
| <br>Premium<br>PREMTA000(A/B)                                             | <br>PDRYCB000<br>(Simple)         | <br>Remote Temperature Sensor<br>PQRSTA0   | <br>Rubber Packing<br>(4EA, OD23 × ID15 × t3.2)                            | <br>Ball Valve<br>(2EA, FPT 3/4", 20A)                    |
| <br>Standard III <sup>1)</sup><br>PREMTB100 (White)<br>PREMTBB10 (Black)  | <br>PDRYCB400<br>(2 points)       | <br>Wi-Fi Modem<br>PWFMD200                | <br>Flexible Pipe<br>(2EA, FPF 3/4", 350mm/500mm<br>Ordered Specification) | <br>Nipple<br>(2EA, MPT 3/4", MPF 3/4")                   |
| <br>Standard II<br>PREMTB001 (White)<br>PREMTBB01 (Black)                 | <br>PDRYCB320<br>(for Thermostat) | <br>Multi-tenant Power Module<br>PINPMB001 | <br>Nipple<br>(2EA, MPT 3/4", MPF 3/4")                                    | <br>Strainer<br>(1EA, FPF 3/4", #30)                      |
| <br>Simple<br>PQRCVCLQ(W)<br>PQRCHCA0Q(W) (for Hotel)                     |                                   | <br>Group Control Wire<br>PZCWRC3          | <br>2Way Valve<br>(On/Off, 2-wires or 3wires)                              | <br>Water Pipe<br>(2EA, 20A, Copper or<br>Stainless Tube) |
| <br>Wireless Remote Controller<br>PWLSSB21H/C<br>(Heat Pump/Cooling Only) |                                   | <br>2-Remo. Control Wire<br>PZCWRC2        | <br>Valve insulation Material<br>(1EA)                                     |                                                           |
|                                                                           |                                   | <br>Extension Wire<br>PZCWRC1              |                                                                            |                                                           |
|                                                                           |                                   | <br>Drain Hose <sup>3)</sup><br>(1EA, 5m)  |                                                                            |                                                           |

1) It could not be operated some functions.  
2) The dry contact for Modbus is built-in to the FCU as default.  
3) Included with installation parts



## ULTIMATE INVERTER COMPRESSOR

As the core technology of the air conditioning system, the Ultimate Inverter Compressor of MULTI V 5 boasts its ultimate efficiency and durability, designed based on the unique technology and innovation of LG HVAC.

### All Inverter

Provide high efficiency with low vibration and low noise

### Six By-pass Valves

Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 by-pass valves

### 01. Vapor Injection

Wide operating range via two-stage compression

### 02. Enhanced Bearing with PEEK Material

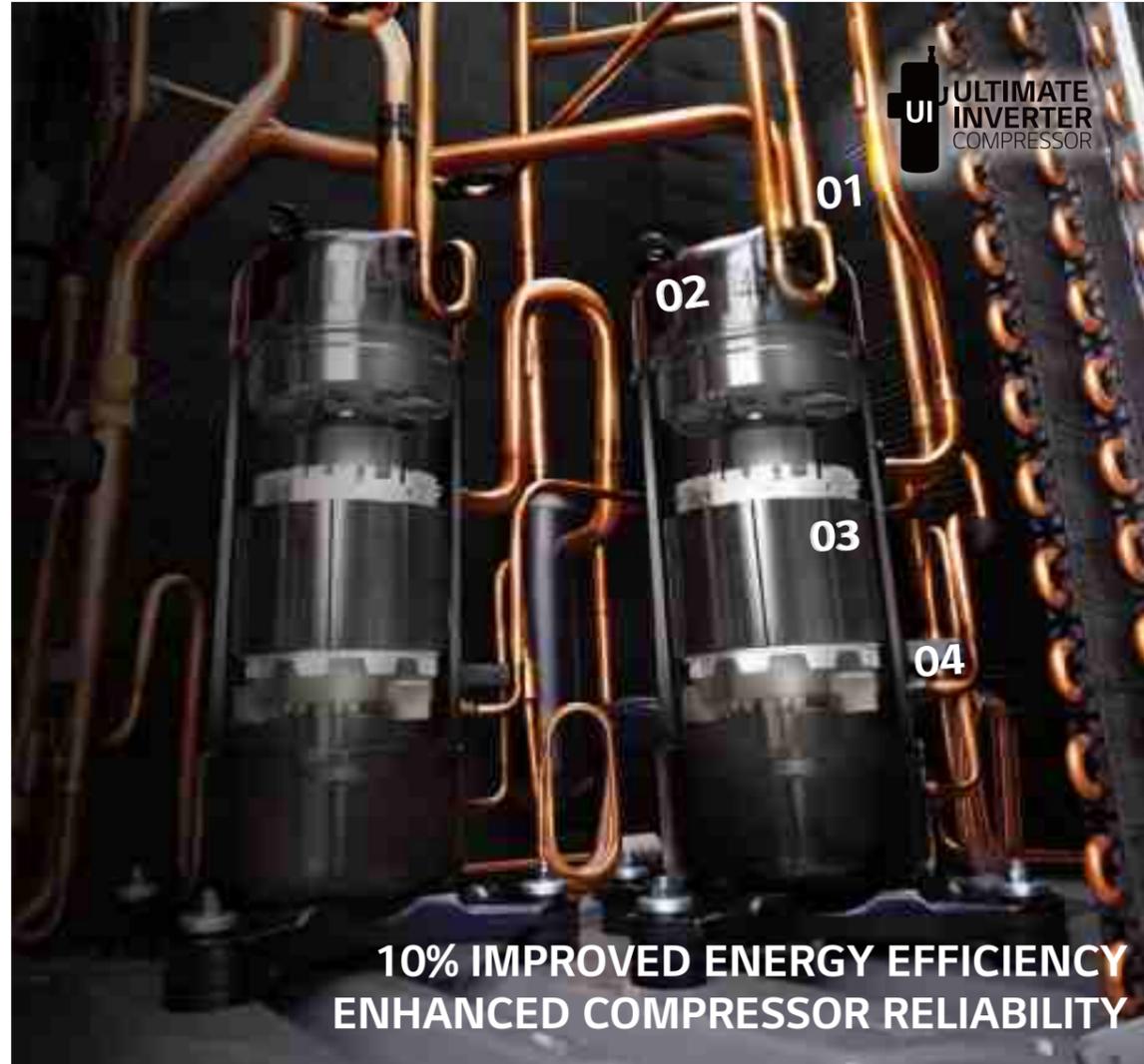
Newly invented system motivated by PEEK (Polyetheretherketone) bearing used for aero engine to increase operation range and durability

### 03. Wide Operation Range from 30 to 130 Hz

Improved part load efficiency at all operation ranges

### 04. HiPOR™ (High Pressure Oil Return)

Resolve compressor efficiency loss caused by oil return



## Smart Farm



## Small Industry (Process Water)



## Hotel / Office

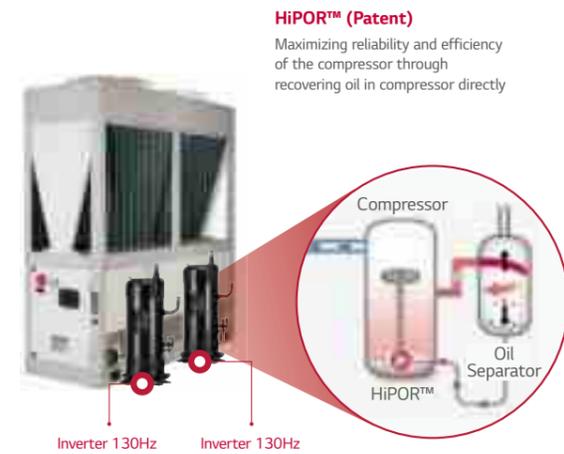


# All Inverter Scroll Compressor

All inverter scroll compressor with HiPOR™ (Patent) is applied to improve full load and part load energy efficiency.

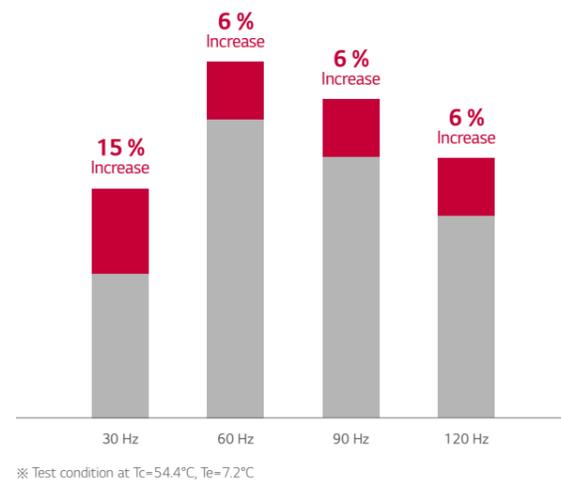
## All Inverter System

Wide operation frequency range 30 - 130Hz



## Compressor Efficiency

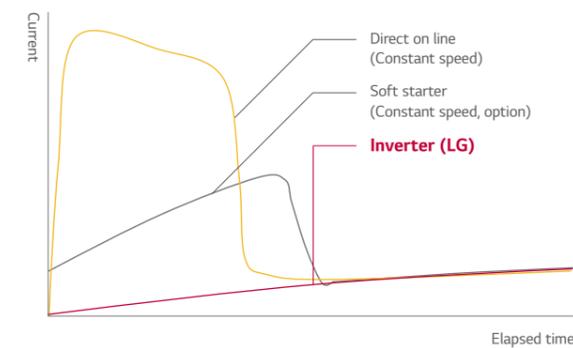
Compressor efficiency by Hz is increased through HiPOR™ application



# App. Inverter Comp. vs Constant Speed Comp.

Inverter compressor is more stable and efficient solution than Constant speed compressor.

## Comparison of starting type



| Compressor     | Starting type  | Starting current (Is / FLA*, %) |
|----------------|----------------|---------------------------------|
| Constant speed | Direct on line | About 650 %                     |
|                | Soft starter   | 200 - 350 %                     |
| Inverter (LG)  | Inverter       | No inrush current               |

\* FLA : Full load ampere

## Inverter's feature & benefits

### When starting

Reduce starting torque below full load torque

➔ **Mechanical wear↓**

Decrease starting current under FLA

➔ **Circuit breaker capacity↓**

### When operating

Low electric loss due to high value of the power factor\*\*

➔ **Energy efficient**

Low power input in part load

➔ **High SEER**

Continuously adjust compressor output according to the load (Compressor 15-125Hz)

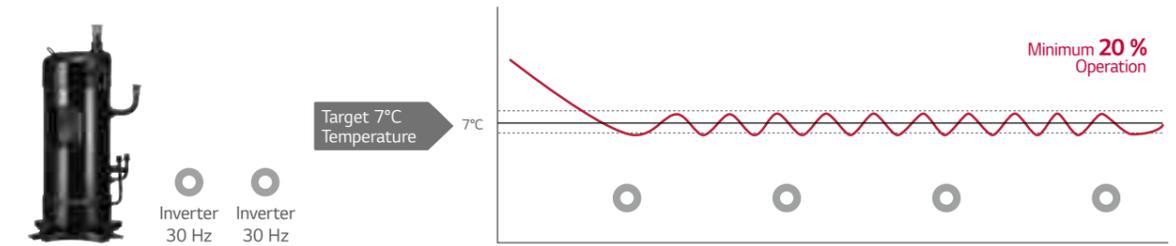
➔ **Save energy**

\*\* Power factor : Ratio between active power(kW) and total power(kVA)

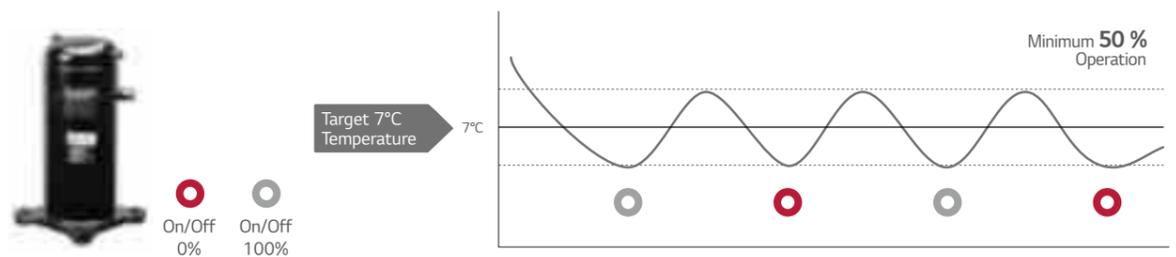
# Lower Load Operation

20% part load operation and minimized water outlet temperature haunting with Inverter scroll compressor.

## LG Inverter Scroll Compressor



## Normal On/Off Multi Compressor System

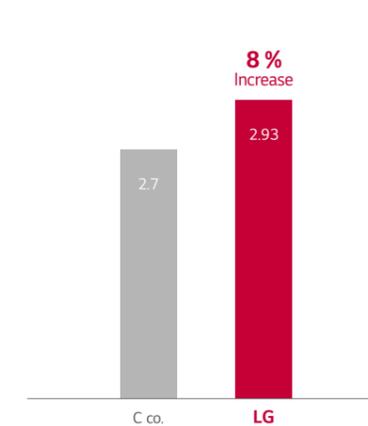


# High Energy Efficiency

All inverter scroll compressors with Multi V technologies improve energy efficiency.

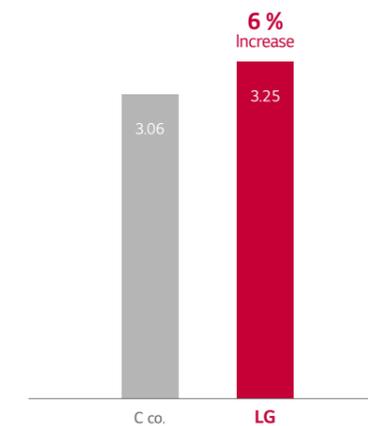
## Cooling Performance

EER

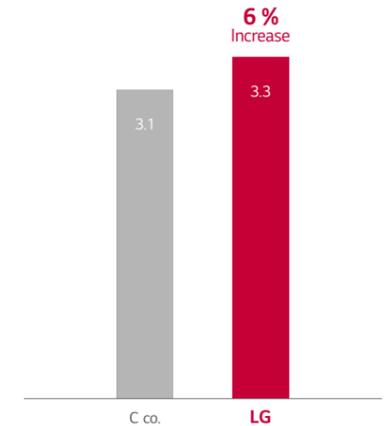


## Heating Performance

COP



SCOP

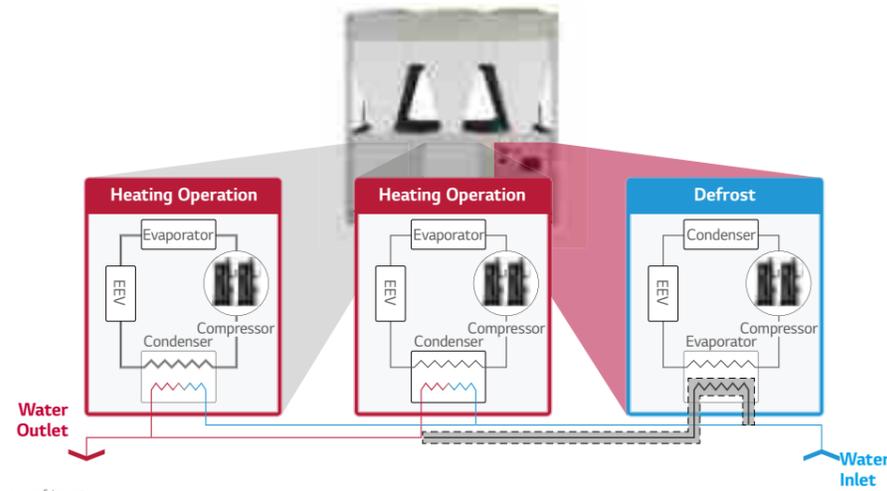


※ 65 kW Heat pump model comparison

## Continuous Heating Operation

Continuous heating minimizes the decrease of water outlet temperature during defrosting for multi circuit model.

Multi cycle can defrost each cycle individually to supply hot water continuously multi cycle.



\* Applied up to 6 scroll compressors per refrigerator

## Back Up Operation

If one compressor or one cycle needs to be repaired, backup operation helps the whole system to operate continuously.

### All Inverter System



### Cycle back up



## Corrosion Resistance (Black Fin)

'Black Fin' heat exchanger is highly corrosion resistant, designed to perform in corrosive environments such as contaminated and humid condition.

### Black Fin

- Longer lifespan, lower operational costs
- Strengthened corrosion resistant coating

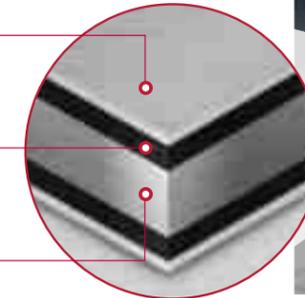
#### Hydrophilic Coating

The hydrophilic coating minimizes moisture build up on the fin.

#### Corrosion Resistant Black Coating

The black coating provides strong protection from corrosion.

#### Aluminum Fin



## Black Box Function

Quick service can be done because operation data can be saved for 180 seconds before system failure.

### Without Black Box Function

Check many failure causes and error codes in person

### With Black Box Function

Search for the failure cause conveniently using recorded data



## Compact Size

Compact size reduces concern about installation and service space.



## Low Noise Level

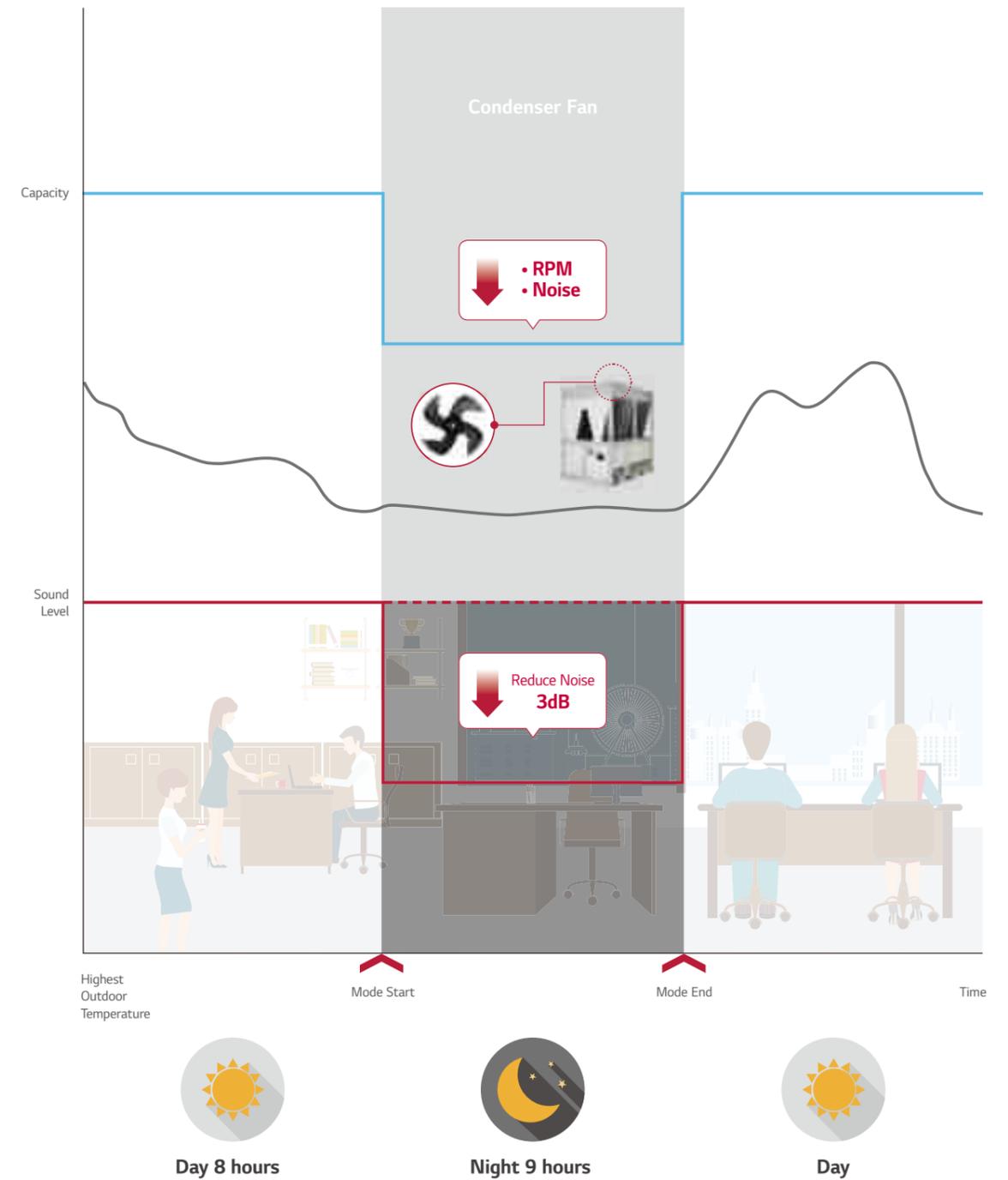
Lower noise can reduce noise pollution and provide a quieter environment.

### Noise Comparison



## Silent Operation Function (Cooling Mode)

Silent operation function can reduce noise levels at night time by adjusting the fan RPM.



ACHH020LBAB / ACHH023LBAB  
ACHH033LBAB / ACHH040LBAB



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Heat pump model

| INVERTER SCROLL CHILLER |                                                  |                     | ACHH020LBAB              | ACHH023LBAB              | ACHH033LBAB              | ACHH040LBAB              |
|-------------------------|--------------------------------------------------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                         |                                                  |                     | H/P                      | H/P                      | H/P                      | H/P                      |
| Power                   | Phase/Lines/V                                    |                     | 3,4,380-415              | 3,4,380-415              | 3,4,380-415              | 3,4,380-415              |
| Capacity                | Cooling                                          | kW                  | 65                       | 74                       | 114                      | 130                      |
|                         |                                                  | RT                  | 18.5                     | 21                       | 32.4                     | 37                       |
|                         | Heating                                          | kW                  | 70.3                     | 82                       | 120                      | 140.6                    |
|                         |                                                  | RT                  | 20                       | 23                       | 34                       | 40                       |
| Input Power             | Cooling                                          | kW                  | 22.2                     | 27.4                     | 36.8                     | 44.4                     |
|                         | Heating                                          | kW                  | 21.6                     | 27.3                     | 35.3                     | 43.3                     |
| Max operating Current   | A                                                |                     | 39                       | 48                       | 72                       | 78                       |
| Efficiency              | Cooling                                          | W/W                 | 2.93                     | 2.70                     | 3.10                     | 2.93                     |
|                         | Heating                                          | W/W                 | 3.25                     | 3.00                     | 3.40                     | 3.25                     |
| SEER                    | W/W                                              |                     | 4.40                     | 4.20                     | 4.50                     | 4.40                     |
| SCOP                    | W/W                                              |                     | 3.30                     | 3.30                     | 3.30                     | 3.30                     |
| Sound Pressure          | dB(A)                                            |                     | 67                       | 68                       | 68                       | 68                       |
| Sound power             | Cooling                                          | dB(A)               | 86                       | 87                       | 87                       | 90                       |
|                         | Heating                                          | dB(A)               | 86                       | 87                       | 88                       | 90                       |
| Compressor              | Type                                             | -                   | Scroll                   | Scroll                   | Scroll                   | Scroll                   |
|                         | No. of Compressor                                | EA                  | 2                        | 2                        | 4                        | 4                        |
|                         | Oil Type                                         | -                   | PVE                      | PVE                      | PVE                      | PVE                      |
|                         | Oil charge                                       | cc                  | 1,400 x 2                | 1,400 x 2                | 1,400 x 4                | 1,400 x 4                |
|                         | Sump Heater                                      | W                   | 60 x 2                   | 60 x 2                   | 60 x 4                   | 60 x 4                   |
|                         | Type                                             | -                   | R410A                    | R410A                    | R410A                    | R410A                    |
|                         | Amount of Charged                                | Kg                  | 7.0 kg x 2               | 7.0 kg x 2               | 7.0 kg x 4               | 7.0 kg x 4               |
| Evaporator              | Type                                             | -                   | plate                    | plate                    | plate                    | plate                    |
|                         | Pressure drop                                    | kPa                 | 21.5                     | 28.7                     | 18.7                     | 21.5                     |
|                         | Operating maximum pressure (Refrigerant / Water) | kg/cm <sup>2</sup>  | 42/10                    | 42/10                    | 42/10                    | 42/10                    |
|                         | Standard Flow (Cooling/Heating)                  | LPM                 | 186/200                  | 211/235                  | 327/345                  | 372/400                  |
|                         | Inlet/Outlet diameter (Water pipe)               | mm                  | 50A/50A                  | 50A/50A                  | 65A/65A                  | 65A/65A                  |
| Fan motor               | Type                                             | -                   | BLDC                     | BLDC                     | BLDC                     | BLDC                     |
|                         | No. of Fan                                       | EA                  | 2                        | 2                        | 4                        | 4                        |
|                         | No. of Vanes                                     | EA                  | 4                        | 4                        | 4                        | 4                        |
|                         | Air Flow Rate                                    | CMM                 | 210 x 2 @1,000 rpm       | 210 x 2 @1,000 rpm       | 210 x 4 @1,000 rpm       | 210 x 4 @1,000 rpm       |
|                         | Motor power                                      | W                   | 900 x 2                  | 900 x 2                  | 900 x 4                  | 900 x 4                  |
| Expansion unit          | -                                                | EEV                 | EEV                      | EEV                      | EEV                      |                          |
| Weight                  | kg                                               |                     | 520                      | 520                      | 970                      | 970                      |
|                         | mm                                               | W                   | 765                      | 765                      | 1,528                    | 1,528                    |
| Dimension               | H                                                | mm                  | 2,293                    | 2,293                    | 2,293                    | 2,293                    |
|                         | D                                                | mm                  | 2,154                    | 2,154                    | 2,154                    | 2,154                    |
|                         | Footprint                                        | m <sup>2</sup> / RT | 0.089                    | 0.078                    | 0.102                    | 0.089                    |
| Protection Devices      | High/Low Pressure                                | -                   | •                        | •                        | •                        | •                        |
|                         | Anti Frost                                       | -                   | •                        | •                        | •                        | •                        |
| Remote Control          | -                                                | Modbus              | Modbus                   | Modbus                   | Modbus                   |                          |
| Power                   | Power Line                                       | mm <sup>2</sup>     | 25.0mm <sup>2</sup> x 5C | 25.0mm <sup>2</sup> x 5C | 50.0mm <sup>2</sup> x 5C | 50.0mm <sup>2</sup> x 5C |
| Outlet Temperature      | Cooling                                          | °C                  | 5-20                     | 5-20                     | 5-20                     | 5-20                     |
|                         | Heating                                          | °C                  | 30-55                    | 30-55                    | 30-55                    | 30-55                    |
| Ambient Temperature     | Cooling                                          | °C                  | -15-48                   | -15-48                   | -15-48                   | -15-48                   |
|                         | Heating                                          | °C                  | -30-35                   | -30-35                   | -30-35                   | -30-35                   |
| Earth Leakage Breaker   | A                                                |                     | 75                       | 75                       | 125                      | 125                      |

- Notes :
- Due to our policy of innovation some specifications may be changed without prior notification.
  - Capacities and Inputs are based on the following conditions  
Cooling : Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C  
Heating : Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured ISO 9614:2009 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.

ACHH045LBAB / ACHH050LBAB  
ACHH060LBAB / ACHH067LBAB



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Heat pump model

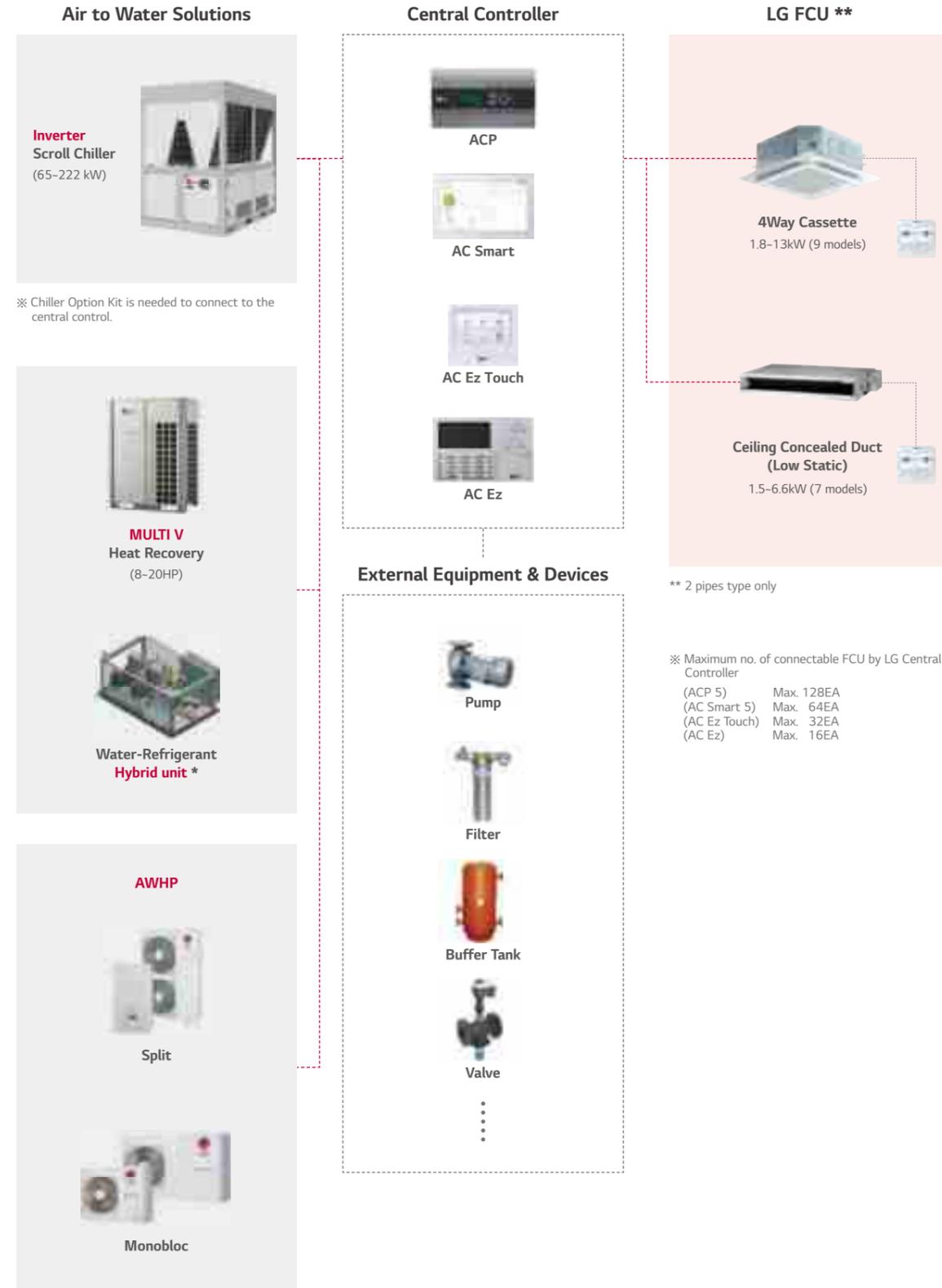
| INVERTER SCROLL CHILLER |                                                  |                     | ACHH045LBAB              | ACHH050LBAB              | ACHH060LBAB              | ACHH067LBAB              |
|-------------------------|--------------------------------------------------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                         |                                                  |                     | H/P                      | H/P                      | H/P                      | H/P                      |
| Power                   | Phase/Lines/V                                    |                     | 3,4,380-415              | 3,4,380-415              | 3,4,380-415              | 3,4,380-415              |
| Capacity                | Cooling                                          | kW                  | 148                      | 171                      | 195                      | 222                      |
|                         |                                                  | RT                  | 42.1                     | 48.6                     | 55.4                     | 63.1                     |
|                         | Heating                                          | kW                  | 164                      | 180                      | 210.9                    | 246                      |
|                         |                                                  | RT                  | 47                       | 51                       | 60                       | 70                       |
| Input Power             | Cooling                                          | kW                  | 54.8                     | 55.2                     | 66.6                     | 82.2                     |
|                         | Heating                                          | kW                  | 54.7                     | 52.9                     | 64.9                     | 82                       |
| Max operating Current   | A                                                |                     | 96                       | 108                      | 117                      | 144                      |
| Efficiency              | Cooling                                          | W/W                 | 2.70                     | 3.10                     | 2.93                     | 2.70                     |
|                         | Heating                                          | W/W                 | 3.00                     | 3.40                     | 3.25                     | 3.00                     |
| SEER                    | W/W                                              |                     | 4.20                     | 4.50                     | 4.40                     | 4.20                     |
| SCOP                    | W/W                                              |                     | 3.30                     | 3.30                     | 3.30                     | 3.30                     |
| Sound Pressure          | dB(A)                                            |                     | 68                       | 68                       | 68                       | 68                       |
| Sound power             | Cooling                                          | dB(A)               | 91                       | 88                       | 91                       | 92                       |
|                         | Heating                                          | dB(A)               | 91                       | 88                       | 91                       | 92                       |
| Compressor              | Type                                             | -                   | Scroll                   | Scroll                   | Scroll                   | Scroll                   |
|                         | No. of Compressor                                | EA                  | 4                        | 6                        | 6                        | 6                        |
|                         | Oil Type                                         | -                   | PVE                      | PVE                      | PVE                      | PVE                      |
|                         | Oil charge                                       | cc                  | 1,400 x 4                | 1,400 x 6                | 1,400 x 6                | 1,400 x 6                |
|                         | Sump Heater                                      | W                   | 60 x 4                   | 60 x 6                   | 60 x 6                   | 60 x 6                   |
|                         | Type                                             | -                   | R410A                    | R410A                    | R410A                    | R410A                    |
|                         | Amount of Charged                                | Kg                  | 7.0 kg x 4               | 7.0 kg x 6               | 7.0 kg x 6               | 7.0 kg x 6               |
| Evaporator              | Type                                             | -                   | plate                    | plate                    | plate                    | plate                    |
|                         | Pressure drop                                    | kPa                 | 28.7                     | 18.7                     | 21.5                     | 28.7                     |
|                         | Operating maximum pressure (Refrigerant / Water) | kg/cm <sup>2</sup>  | 42/10                    | 42/10                    | 42/10                    | 42/10                    |
|                         | Standard Flow (Cooling/Heating)                  | LPM                 | 411/470                  | 490/518                  | 558/600                  | 633/705                  |
|                         | Inlet/Outlet diameter (Water pipe)               | mm                  | 65A/65A                  | 65A/65A                  | 65A/65A                  | 65A/65A                  |
| Fan motor               | Type                                             | -                   | BLDC                     | BLDC                     | BLDC                     | BLDC                     |
|                         | No. of Fan                                       | EA                  | 4                        | 6                        | 6                        | 6                        |
|                         | No. of Vanes                                     | EA                  | 4                        | 4                        | 4                        | 4                        |
|                         | Air Flow Rate                                    | CMM                 | 210 x 4 @1,000 rpm       | 210 x 6 @1,000 rpm       | 210 x 6 @1,000 rpm       | 210 x 6 @1,000 rpm       |
|                         | Motor power                                      | W                   | 900 x 4                  | 900 x 6                  | 900 x 6                  | 900 x 6                  |
| Expansion unit          | -                                                | EEV                 | EEV                      | EEV                      | EEV                      |                          |
| Weight                  | kg                                               |                     | 970                      | 1,430                    | 1,430                    | 1,430                    |
|                         | mm                                               | W                   | 1,528                    | 2,291                    | 2,291                    | 2,291                    |
| Dimension               | H                                                | mm                  | 2,293                    | 2,293                    | 2,293                    | 2,293                    |
|                         | D                                                | mm                  | 2,154                    | 2,154                    | 2,154                    | 2,154                    |
|                         | Footprint                                        | m <sup>2</sup> / RT | 0.078                    | 0.101                    | 0.089                    | 0.078                    |
| Protection Devices      | High/Low Pressure                                | -                   | •                        | •                        | •                        | •                        |
|                         | Anti Frost                                       | -                   | •                        | •                        | •                        | •                        |
| Remote Control          | -                                                | Modbus              | Modbus                   | Modbus                   | Modbus                   |                          |
| Power                   | Power Line                                       | mm <sup>2</sup>     | 50.0mm <sup>2</sup> x 5C | 95.0mm <sup>2</sup> x 5C | 95.0mm <sup>2</sup> x 5C | 95.0mm <sup>2</sup> x 5C |
| Outlet Temperature      | Cooling                                          | °C                  | 5-20                     | 5-20                     | 5-20                     | 5-20                     |
|                         | Heating                                          | °C                  | 30-55                    | 30-55                    | 30-55                    | 30-55                    |
| Ambient Temperature     | Cooling                                          | °C                  | -15-48                   | -15-48                   | -15-48                   | -15-48                   |
|                         | Heating                                          | °C                  | -30-35                   | -30-35                   | -30-35                   | -30-35                   |
| Earth Leakage Breaker   | A                                                |                     | 125                      | 200                      | 200                      | 200                      |

- Notes :
- Due to our policy of innovation some specifications may be changed without prior notification.
  - Capacities and Inputs are based on the following conditions  
Cooling : Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C  
Heating : Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C
  - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured ISO 9614:2009 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.



# Fan Coil Unit

FCU can be applied to various solutions using water. It allows not only to control equipment individually by using the remote controller, but also apply integrated control including control of some external equipment and devices through the central controller.



# Interlocking Control

It allows Interlocking control between FCU and Inverter Scroll Chiller(ISC) by using LG central controller such as ACP, ACS. When FCU is being turned on/off, ISC turns on/off automatically by LG central controller.

## What are the benefits?

The Total Cost(Equipment + installation + BMS) is greatly reduced. It eliminated the hassle of turning on the ISC first.

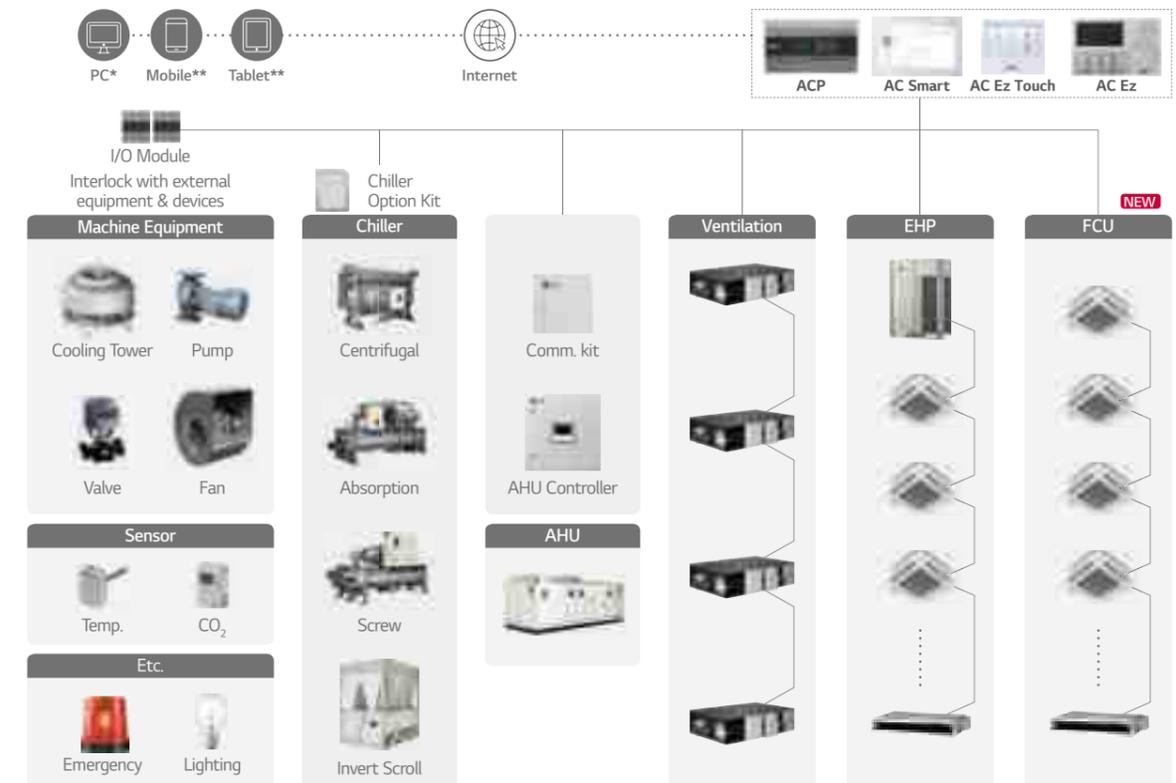


# Central Controller

LG's central controller allows control of various external equipment and devices in addition to LG's equipment. (FCU, Chiller, EHP, etc.)

## What are the benefits?

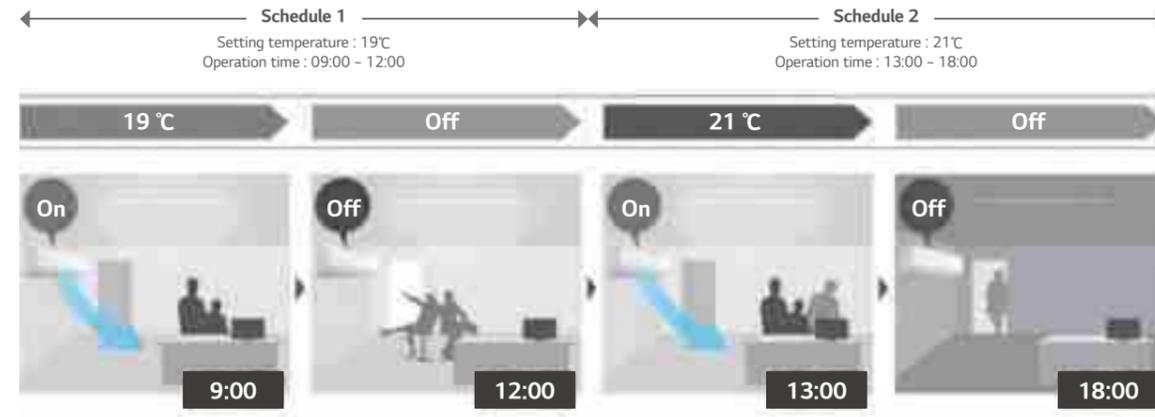
Integrated control of the system can be realized conveniently through the LG central controller. (FCU + Chiller + EHP + ... + External Equipment & Devices)



\* Unable to link AC Ez \*\* Unable to link AC Ez, AC Ez Touch

## Scheduled Operation

You can set 2 schedules for one day, and up to 14 schedules for a week.



※ This function is for wired remote controller only  
 ※ Wired remote controller is need to be separately purchased.

## Group Control with One Remote Controller

Up to 16 FCU's can be controlled with one wired remote controller. It can reduce installation costs and keep the wall interior clean.

**Functions available through group control**

- On / Off
- Mode Selection (Cooling / Heating / Fan / Dehumidification)
- Fan Speed (High / Med / Low)
- Time Setting Etc.

**Maintaining clean walls**

Individual Control    **Group control**

**Installation costs saving**

※ If you set up to 'Installation Setting' > Group Control 'Enabled' in your Wired Remote Controller, you can use many more functions.

## Easy Control (Simple Test Run via LGMV)

LG MV (Monitoring View) helps engineers to inspect and monitor LG's air conditioning unit easily.

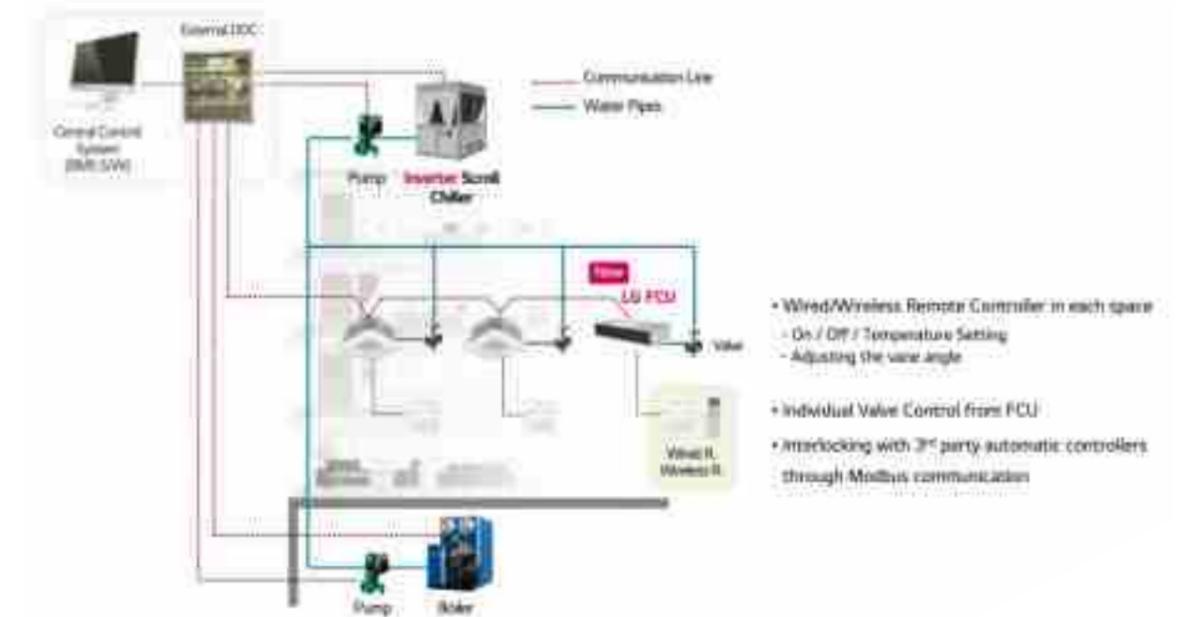
Install / SVC Engineer    Wi-Fi MV Module

Cycle Monitoring    Diagnosis    Installation    Smart Management

※ Search "Mobile LGMV" on Google market or App store then download the app.  
 ※ Wi-Fi modem (PWFMD200) is required by option.

## Individual Control & External Central Control

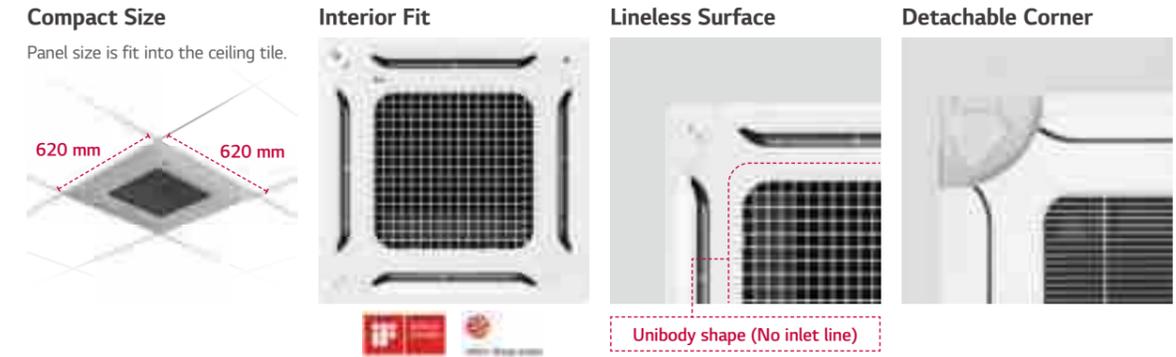
It allows not only to control each room by using the remote controller, but also apply integrated control through a 3rd party central controller.





## Stylish Design Panel (U-style 4Way cassette)

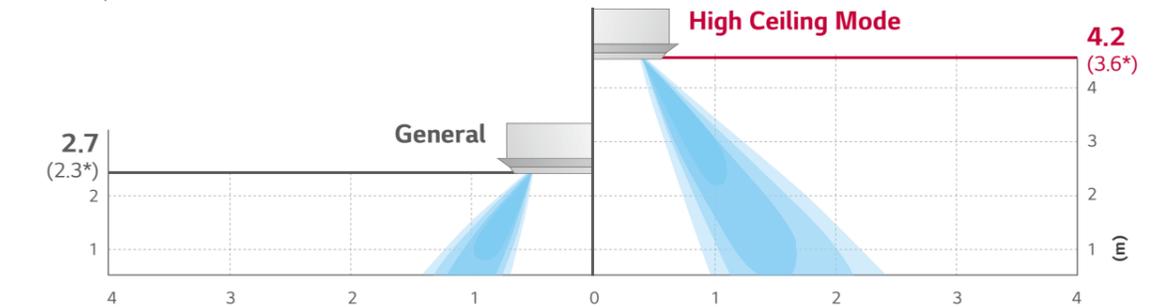
New 4 way cassette panel adapted a unibody shape and fits into the ceiling cell size.



※ U-Style panel corresponds to the PT-QCHW0 panel for WF4A018 / 027 / 032 / 041CG0A models.

## High Ceiling Mode

Airflow in a space with a 4.2m ceiling height is possible with this indoor unit. Furthermore, air flow can be strengthened by adjusting the fan speed.



\* For models less than 9.0 kW.

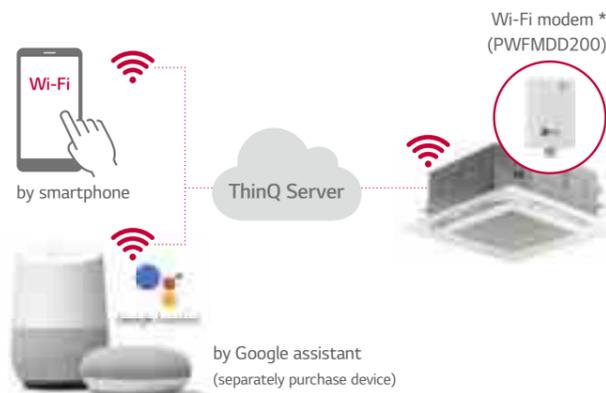
## Wi-Fi Remote Control

Control your air conditioners using the smart devices as Android or iOS based smartphones and voice commands via Google assistant.



### Access your air conditioner anytime and from anywhere

Operation under the revised weather conditions before changing conditions impact indoor comfort.



### Simple operation for various functions

- On / Off \*\*
- Mode Selection \*\*
- Current temperature \*\*
- Set temperature \*\*
- Set fan speed \*\*
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management
- Smart Diagnosis

※ Search "ThinQ" on Google market or App store then download the app.  
\* Wi-Fi modem (PWFMD200) is required by option.

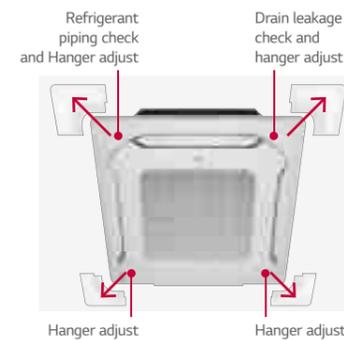
\*\* This functions are used by Google assistant & Amazon Alexa  
※ In some countries, the use of the Google assistant & Amazon Alexa system may be restricted.

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

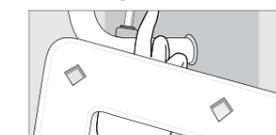
## Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and helps to easily check leakages in the drain connection pipe. Moreover, button type holder design makes it is easy to install the panel to the body.

### Detachable Corner Design



### Drain Leakage Check



### Hanger Adjust



### One Push Panel



※ The detachable corner design is only applicable to the U-Style panel.

WF4A018CG0A / WF4A027CG0A  
WF4A032CG0A / WF4A041CG0A  
WF4A060CG0A



| INDOOR                                        |                               |             | WF4A018CG0A                                        | WF4A027CG0A           | WF4A032CG0A           | WF4A041CG0A           | WF4A060CG0A           |
|-----------------------------------------------|-------------------------------|-------------|----------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Power Supply                                  | Ø, V, Hz                      |             | 1, 220-230-240, 50/60                              | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Running Current by Voltage                    | A                             |             | 0.37-0.37-0.37                                     | 0.38-0.38-0.38        | 0.40-0.40-0.40        | 0.35-0.42-0.42        | 0.62-0.69-0.69        |
| Capacity                                      | Cooling                       | Condition A | 1.8 (1,548)                                        | 2.7 (2,322)           | 3.2 (2,752)           | 4.1 (3,525)           | 6.0 (5,159)           |
|                                               |                               | Condition B | 1.2 (1,032)                                        | 1.8 (1,548)           | 2.2 (1,892)           | 2.8 (2,408)           | 4.0 (3,439)           |
|                                               |                               | Condition C | 1.5 (1,290)                                        | 2.3 (1,978)           | 2.8 (2,408)           | 3.6 (3,095)           | 4.9 (4,213)           |
|                                               |                               | Condition D | 0.7 (602)                                          | 1.2 (1,032)           | 1.4 (1,204)           | 1.8 (1,548)           | 2.5 (2,150)           |
|                                               | Heating                       | Condition A | 1.9 (1,634)                                        | 2.7 (2,322)           | 3.3 (2,837)           | 4.5 (3,869)           | 7.2 (6,191)           |
|                                               |                               | Condition B | 2.2 (1,892)                                        | 3.1 (2,666)           | 3.9 (3,353)           | 5.4 (4,643)           | 8.5 (7,309)           |
| Water Flow Rate                               | Cooling                       | Condition A | 5.7                                                | 8.2                   | 10.0                  | 13.5                  | 19.0                  |
|                                               |                               | Condition B | 4.6                                                | 6.6                   | 8.0                   | 10.8                  | 14.4                  |
|                                               |                               | Condition C | 5.7                                                | 8.2                   | 10.0                  | 13.5                  | 19.0                  |
|                                               |                               | Condition D | 3.4                                                | 4.9                   | 6.0                   | 8.1                   | 12.1                  |
|                                               | Heating                       | Condition A | 6.1                                                | 8.6                   | 10.0                  | 13.5                  | 22.5                  |
|                                               |                               | Condition B | 5.7                                                | 8.2                   | 10.0                  | 13.5                  | 19.0                  |
|                                               |                               | Condition C | 21.5                                               | 32.0                  | 47.7                  | 43.7                  | 38.2                  |
|                                               |                               | Condition D | 13.7                                               | 20.3                  | 30.3                  | 27.8                  | 23.6                  |
| Head Loss                                     | Cooling                       | Condition C | 21.5                                               | 32.0                  | 47.7                  | 43.7                  | 38.2                  |
|                                               |                               | Condition D | 8.1                                                | 12.0                  | 17.9                  | 16.4                  | 17.0                  |
|                                               | Heating                       | Condition A | 30.3                                               | 40.7                  | 53.8                  | 56.5                  | 57.2                  |
|                                               |                               | Condition B | 26.2                                               | 36.5                  | 53.8                  | 56.5                  | 42.1                  |
| Power Input                                   | Nominal                       | W           | 12                                                 | 15                    | 20                    | 43                    | 73                    |
| Running Current                               | Nominal                       | A           | 0.37                                               | 0.38                  | 0.40                  | 0.42                  | 0.69                  |
| Fan                                           | Type                          | -           | Turbo Fan                                          | Turbo Fan             | Turbo Fan             | Turbo Fan             | Turbo Fan             |
|                                               | Air Flow Rate (H / M / L)     | m³/min      | 6.5 / 5.5 / 5.0                                    | 7.0 / 6.5 / 6.0       | 8.5 / 8.0 / 7.0       | 12.0 / 10.0 / 8.0     | 19.0 / 17.0 / 15.0    |
| Fan Motor                                     | Type                          | -           | BLDC                                               | BLDC                  | BLDC                  | BLDC                  | BLDC                  |
|                                               | Drive                         | -           | CCW                                                | CCW                   | CCW                   | CCW                   | CCW                   |
|                                               | Output                        | W x No.     | 30 x 1                                             | 30 x 1                | 30 x 1                | 43 x 1                | 40 x 1                |
|                                               | FLA (Full Load Ampere)        | A           | 0.37                                               | 0.38                  | 0.40                  | 0.42                  | 0.69                  |
| Dimensions                                    | Net (W x H x D)               | mm          | 570 x 214 x 570                                    | 570 x 214 x 570       | 570 x 214 x 570       | 570 x 256 x 570       | 840 x 204 x 840       |
| Weight                                        | Net                           | kg          | 12.9                                               | 12.9                  | 12.9                  | 14.0                  | 20.8                  |
|                                               | Shipping                      | kg          | 15.7                                               | 15.7                  | 15.7                  | 16.3                  | 24.9                  |
| Air Filter                                    | Type                          | -           | -                                                  | -                     | -                     | -                     | -                     |
| Temperature Control                           | -                             | -           | Microprocessor, Thermostat for cooling and heating |                       |                       |                       |                       |
| Sound Absorbing / Thermal Insulation Material | -                             | -           | Foamed polystyrene                                 | Foamed polystyrene    | Foamed polystyrene    | Foamed polystyrene    | Foamed polystyrene    |
| Protection Device                             | -                             | -           | Fuse                                               | Fuse                  | Fuse                  | Fuse                  | Fuse                  |
| Water Connecting Pipes                        | Inlet                         | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    |
|                                               | Outlet                        | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    |
| Sound Pressure Level                          | Cooling (H / M / L)           | dB (A)      | 35 / 34 / 33                                       | 38 / 37 / 35          | 43 / 40 / 38          | 48 / 43 / 38          | 48 / 46 / 42          |
|                                               | Heating (H / M / L)           | dB (A)      | 35 / 34 / 33                                       | 38 / 37 / 35          | 43 / 40 / 38          | 48 / 43 / 38          | 48 / 46 / 42          |
| Sound Power Level                             | Cooling (H / M / L)           | dB (A)      | 40 / 39 / 38                                       | 44 / 42 / 40          | 50 / 46 / 44          | 56 / 50 / 45          | 55 / 53 / 49          |
|                                               | Heating (H / M / L)           | dB (A)      | 40 / 39 / 38                                       | 44 / 42 / 40          | 50 / 46 / 44          | 56 / 50 / 45          | 55 / 53 / 49          |
| Connecting Cable                              | Communication Cable (VCTF-SB) | mm² x cores | 1.0 - 1.5                                          | 1.0 - 1.5             | 1.0 - 1.5             | 1.0 - 1.5             | 1.0 - 1.5             |
|                                               | Name                          | -           | PT-QCHW0                                           | PT-QCHW0              | PT-QCHW0              | PT-QCHW0              | PT-MCHW0              |
| Decoration Panel #1 (Accessory)               | Dimensions (W x H x D)        | mm          | 620 x 34 x 620                                     | 620 x 34 x 620        | 620 x 34 x 620        | 620 x 34 x 620        | 950 x 35 x 950        |
|                                               | Color                         | -           | Morning fog                                        | Morning fog           | Morning fog           | Morning fog           | Morning fog           |
|                                               | RAL Code                      | -           | 120-4                                              | 120-4                 | 120-4                 | 120-4                 | 120-4                 |
|                                               | Name                          | -           | -                                                  | -                     | -                     | -                     | -                     |
| Decoration Panel #2 (Accessory)               | Dimensions (W x H x D)        | mm          | -                                                  | -                     | -                     | -                     | -                     |
|                                               | Color                         | -           | -                                                  | -                     | -                     | -                     | -                     |
|                                               | RAL Code                      | -           | -                                                  | -                     | -                     | -                     | -                     |

WF4A072CG0A / WF4A090CG0A  
WF4A105CG0A / WF4A130CG0A

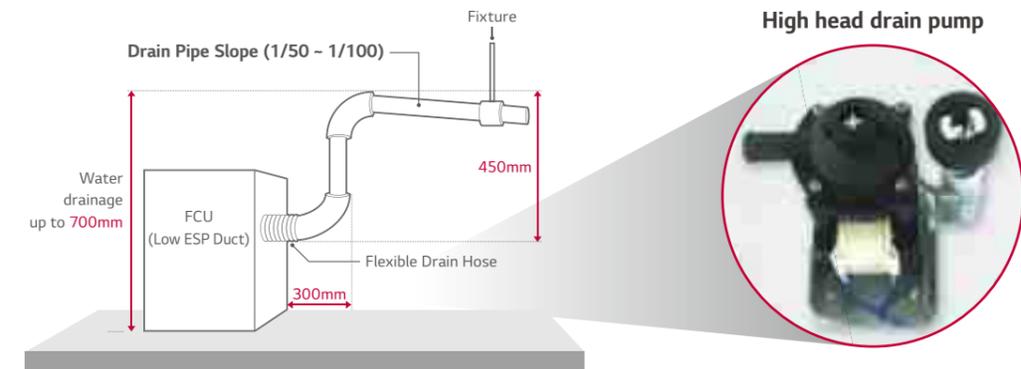


| INDOOR                                        |                               |             | WF4A072CG0A                                        | WF4A090CG0A           | WF4A105CG0A           | WF4A130CG0A           |
|-----------------------------------------------|-------------------------------|-------------|----------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Power Supply                                  | Ø, V, Hz                      |             | 1, 220-230-240, 50/60                              | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 | 1, 220-230-240, 50/60 |
| Running Current by Voltage                    | A                             |             | 0.75-0.88-0.88                                     | 0.89-0.89-0.89        | 1.4-1.39-1.39         | 1.7-1.88-1.88         |
| Capacity                                      | Cooling                       | Condition A | 7.2 (6,191)                                        | 9.0 (7,739)           | 10.5 (9,028)          | 13.0 (11,178)         |
|                                               |                               | Condition B | 4.8 (4,127)                                        | 6.0 (5,159)           | 7.0 (6,019)           | 8.7 (7,481)           |
|                                               |                               | Condition C | 5.8 (4,987)                                        | 7.3 (6,277)           | 8.5 (7,309)           | 10.5 (9,028)          |
|                                               |                               | Condition D | 2.9 (2,494)                                        | 3.7 (3,181)           | 4.3 (3,697)           | 5.3 (4,557)           |
|                                               | Heating                       | Condition A | 7.9 (6,793)                                        | 9.7 (8,340)           | 11.1 (9,544)          | 13.3 (11,436)         |
|                                               |                               | Condition B | 9.3 (7,997)                                        | 11.5 (9,888)          | 13.4 (11,522)         | 15.7 (13,500)         |
| Water Flow Rate                               | Cooling                       | Condition A | 21.0                                               | 28.0                  | 33.0                  | 37.8                  |
|                                               |                               | Condition B | 15.9                                               | 21.2                  | 25.0                  | 28.6                  |
|                                               |                               | Condition C | 21.0                                               | 28.0                  | 33.0                  | 37.8                  |
|                                               |                               | Condition D | 13.4                                               | 17.8                  | 21.0                  | 24.1                  |
|                                               | Heating                       | Condition A | 24.5                                               | 28.0                  | 33.0                  | 39.1                  |
|                                               |                               | Condition B | 21.0                                               | 28.0                  | 33.0                  | 37.8                  |
|                                               |                               | Condition C | 45.9                                               | 56.3                  | 80.4                  | 68.2                  |
|                                               |                               | Condition D | 28.4                                               | 31.5                  | 44.0                  | 38.9                  |
| Head Loss                                     | Cooling                       | Condition C | 45.9                                               | 56.3                  | 80.4                  | 68.2                  |
|                                               |                               | Condition D | 20.4                                               | 23.5                  | 31.3                  | 26.4                  |
|                                               | Heating                       | Condition A | 67.6                                               | 48.9                  | 68.3                  | 71.7                  |
|                                               |                               | Condition B | 49.6                                               | 48.9                  | 68.3                  | 68.3                  |
| Power Input                                   | Nominal                       | W           | 93                                                 | 103                   | 167                   | 246                   |
| Running Current                               | Nominal                       | A           | 0.88                                               | 0.89                  | 1.39                  | 1.88                  |
| Fan                                           | Type                          | -           | Turbo Fan                                          | Turbo Fan             | Turbo Fan             | Turbo Fan             |
|                                               | Air Flow Rate (H / M / L)     | m³/min      | 21.0 / 19.0 / 17.0                                 | 25.0 / 21.0 / 19.0    | 31.0 / 28.0 / 25.0    | 41.0 / 36.0 / 30.0    |
| Fan Motor                                     | Type                          | -           | BLDC                                               | BLDC                  | BLDC                  | BLDC                  |
|                                               | Drive                         | -           | CCW                                                | CCW                   | CCW                   | CCW                   |
|                                               | Output                        | W x No.     | 40 x 1                                             | 156 x 1               | 156 x 1               | 136 x 1               |
|                                               | FLA (Full Load Ampere)        | A           | 0.88                                               | 0.89                  | 1.39                  | 1.88                  |
| Dimensions                                    | Net (W x H x D)               | mm          | 840 x 204 x 840                                    | 840 x 246 x 840       | 840 x 246 x 840       | 840 x 288 x 840       |
| Weight                                        | Net                           | kg          | 20.8                                               | 23.2                  | 23.2                  | 25.1                  |
|                                               | Shipping                      | kg          | 24.9                                               | 27.5                  | 27.5                  | 29.7                  |
| Air Filter                                    | Type                          | -           | -                                                  | -                     | -                     | -                     |
| Temperature Control                           | -                             | -           | Microprocessor, Thermostat for cooling and heating |                       |                       |                       |
| Sound Absorbing / Thermal Insulation Material | -                             | -           | Foamed polystyrene                                 | Foamed polystyrene    | Foamed polystyrene    | Foamed polystyrene    |
| Protection Device                             | -                             | -           | Fuse                                               | Fuse                  | Fuse                  | Fuse                  |
| Water Connecting Pipes                        | Inlet                         | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    |
|                                               | Outlet                        | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    | BSPF G 3/4" (male)    |
| Sound Pressure Level                          | Cooling (H / M / L)           | dB (A)      | 51 / 48 / 46                                       | 51 / 47 / 43          | 55 / 53 / 51          | 57 / 53 / 50          |
|                                               | Heating (H / M / L)           | dB (A)      | 51 / 48 / 46                                       | 51 / 47 / 43          | 55 / 53 / 51          | 57 / 53 / 50          |
| Sound Power Level                             | Cooling (H / M / L)           | dB (A)      | 57 / 55 / 52                                       | 59 / 54 / 51          | 63 / 61 / 58          | 65 / 61 / 57          |
|                                               | Heating (H / M / L)           | dB (A)      | 57 / 55 / 52                                       | 59 / 54 / 51          | 63 / 61 / 58          | 65 / 61 / 57          |
| Connecting Cable                              | Communication Cable (VCTF-SB) | mm² x cores | 1.0 - 1.5                                          | 1.0 - 1.5             | 1.0 - 1.5             | 1.0 - 1.5             |
|                                               | Name                          | -           | PT-MCHW0                                           | PT-MCHW0              | PT-MCHW0              | PT-MCHW0              |
| Decoration Panel #1 (Accessory)               | Dimensions (W x H x D)        | mm          | 950 x 35 x 950                                     | 950 x 35 x 950        | 950 x 35 x 950        | 950 x 35 x 950        |
|                                               | Color                         | -           | Morning fog                                        | Morning fog           | Morning fog           | Morning fog           |
|                                               | RAL Code                      | -           | 120-4                                              | 120-4                 | 120-4                 | 120-4                 |
|                                               | Name                          | -           | -                                                  | -                     | -                     | -                     |
| Decoration Panel #2 (Accessory)               | Dimensions (W x H x D)        | mm          | -                                                  | -                     | -                     | -                     |
|                                               | Color                         | -           | -                                                  | -                     | -                     | -                     |
|                                               | RAL Code                      | -           | -                                                  | -                     | -                     | -                     |



## High Head Drain Pump

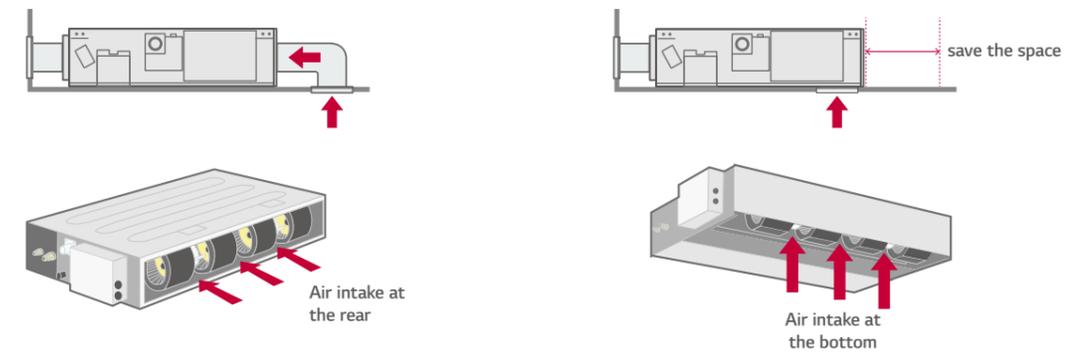
High head drain pump automatically drains water up to a height of 700mm of drain-head height.



※ All of LG's FCU's have a high head drain pump built in.

## Flexible Installation

LG's Low ESP Duct FCU allows air intake from the rear or the bottom sides according to requirements.



Various way for air intake

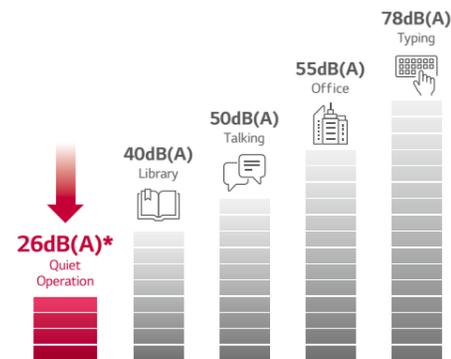
## Quiet Operation

The noise level of Low EPS Ducts does not interfere with conversation at all.

Unit : dB(A)

| Model       | Sound Pressure (High / Medium / Low) |
|-------------|--------------------------------------|
| WFCA012RG0A | 31 / 30 / 29                         |
| WFCA018RG0A | 33 / 32 / 31                         |
| WFCA025RG0A | 31 / 30 / 29                         |
| WFCA032RG0A | 33 / 32 / 31                         |
| WFCA039RG0A | 28 / 27 / 26                         |
| WFCA055RG0A | 31 / 28 / 26                         |
| WFCA066RG0A | 38 / 34 / 31                         |

\* Test condition Temperature : (Cooling) 27°C DB / 19°C WB, 35°C DB / 24°C WB  
 \* Based on Low speed of WFCA039RG0A, WFCA055RG0A model  
 \* Sound level may vary depending on the place or surrounding conditions in which the equipment is installed.



## Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. Two thermistors can check the optimal indoor air temperature for a more comfortable environment.

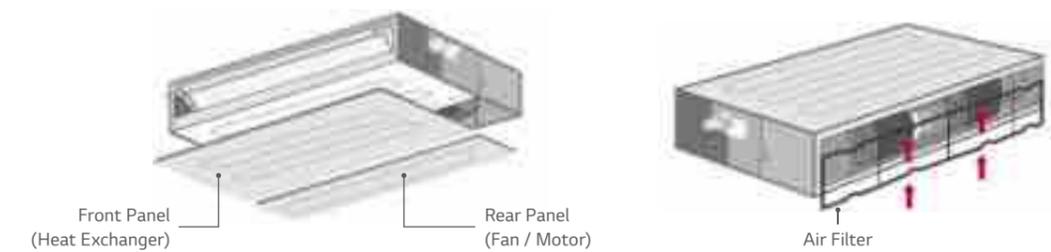
Compares temperatures sensed from different positions, and automatically selects the optimal temperature for users.

※ Need to connect the wired remote controller



## Easy Service & Maintenance

Service engineers don't need to open the whole panel for maintenance, since the panel is divided into 2 components; one for heat exchanger and the other for fans/motor. User can easily detach and re-attach the air filter in the available limited space.



**WFA012RG0A / WFA018RG0A  
WFA025RG0A / WFA032RG0A**



| INDOOR                                        |                                          |             | WFA012RG0A                                         | WFA018RG0A         | WFA025RG0A         | WFA032RG0A         |
|-----------------------------------------------|------------------------------------------|-------------|----------------------------------------------------|--------------------|--------------------|--------------------|
| Power Supply                                  | Ø, V, Hz                                 |             | 1, 220-230-240, 50                                 | 1, 220-230-240, 50 | 1, 220-230-240, 50 | 1, 220-230-240, 50 |
| Running Current by Voltage                    | A                                        |             | 0.29-0.29-0.29                                     | 0.31-0.31-0.31     | 0.32-0.32-0.32     | 0.35-0.35-0.35     |
| Capacity                                      | Cooling                                  | Condition A | 1.3 (1,118)                                        | 1.8 (1,548)        | 2.5 (2,150)        | 3.2 (2,752)        |
|                                               |                                          | Condition B | 1.1 (946)                                          | 1.5 (1,290)        | 2.1 (1,806)        | 2.7 (2,322)        |
|                                               |                                          | Condition C | 1.2 (1,032)                                        | 1.6 (1,376)        | 2.2 (1,892)        | 2.8 (2,408)        |
|                                               |                                          | Condition D | 0.7 (602)                                          | 0.9 (774)          | 1.3 (1,118)        | 1.6 (1,376)        |
|                                               | Heating                                  | Condition A | 2.0 (1,721)                                        | 2.8 (2,408)        | 3.2 (2,752)        | 3.8 (3,267)        |
|                                               |                                          | Condition B | 2.1 (1,806)                                        | 3.0 (2,581)        | 3.6 (3,095)        | 4.4 (3,783)        |
| Water Flow Rate                               | Cooling                                  | Condition A | 4.0                                                | 5.6                | 7.4                | 9.3                |
|                                               |                                          | Condition B | 4.0                                                | 5.6                | 7.4                | 9.3                |
|                                               |                                          | Condition C | 4.0                                                | 5.6                | 7.4                | 9.3                |
|                                               |                                          | Condition D | 2.7                                                | 4.0                | 5.0                | 6.3                |
|                                               | Heating                                  | Condition A | 6.2                                                | 8.5                | 9.7                | 11.4               |
|                                               |                                          | Condition B | 4.0                                                | 5.6                | 7.4                | 9.3                |
| Head Loss                                     | Cooling                                  | Condition A | 1.2                                                | 3.3                | 7.6                | 11.8               |
|                                               |                                          | Condition B | 1.2                                                | 3.3                | 7.6                | 11.8               |
|                                               |                                          | Condition C | 1.2                                                | 3.3                | 7.6                | 11.8               |
|                                               |                                          | Condition D | 0.8                                                | 2.3                | 5.3                | 8.2                |
|                                               | Heating                                  | Condition A | 4.4                                                | 8.5                | 12.5               | 17.8               |
|                                               |                                          | Condition B | 2.0                                                | 3.5                | 6.9                | 11.4               |
| Power Input                                   | Nominal W                                |             | 8                                                  | 17                 | 20                 | 27                 |
| Running Current                               | Nominal A                                |             | 0.29                                               | 0.31               | 0.32               | 0.35               |
| Fan                                           | Type                                     | -           | Sirocco Fan                                        | Sirocco Fan        | Sirocco Fan        | Sirocco Fan        |
|                                               | Air Flow Rate (H / M / L)                | m³ / min    | 5.5 / 5.0 / 4.5                                    | 8.0 / 7.0 / 6.0    | 8.0 / 7.5 / 7.0    | 9.8 / 8.8 / 8.0    |
|                                               | External Static Pressure (Standard mode) | mmAq        | 0                                                  | 0                  | 0                  | 0                  |
|                                               | External Static Pressure (High mode)     | mmAq        | 0                                                  | 0                  | 0                  | 0                  |
| Fan Motor                                     | Type                                     | -           | BLDC                                               | BLDC               | BLDC               | BLDC               |
|                                               | Drive                                    | -           | CW                                                 | CW                 | CW                 | CW                 |
|                                               | Output                                   | W x No.     | 19 x 1                                             | 19 x 1             | 19 x 1 + 5 x 1     | 19 x 1 + 5 x 1     |
|                                               | FLA (Full Load Ampere)                   | A           | 0.29                                               | 0.31               | 0.32               | 0.35               |
| Dimensions                                    | Net (W x H x D)                          | mm          | 700 x 190 x 700                                    | 700 x 190 x 700    | 900 x 190 x 700    | 900 x 190 x 700    |
|                                               | Shipping (W x H x D)                     | mm          | 842 x 235 x 766                                    | 842 x 235 x 766    | 1,042 x 235 x 766  | 1,042 x 235 x 766  |
| Weight                                        | Net                                      | kg          | 17.5                                               | 17.5               | 22.0               | 22.0               |
|                                               | Shipping                                 | kg          | 21.9                                               | 21.9               | 26.9               | 26.9               |
| Air Filter                                    | Type                                     | -           | Pre Filter                                         | Pre Filter         | Pre Filter         | Pre Filter         |
| Temperature Control                           | -                                        |             | Microprocessor, Thermostat for cooling and heating |                    |                    |                    |
| Sound Absorbing / Thermal Insulation Material | -                                        |             | Foamed polystyrene                                 | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Protection Device                             | -                                        |             | Fuse                                               | Fuse               | Fuse               | Fuse               |
| Water                                         | Inlet                                    | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male) | BSPF G 3/4" (male) | BSPF G 3/4" (male) |
| Connecting Pipes                              | Outlet                                   | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male) | BSPF G 3/4" (male) | BSPF G 3/4" (male) |
| Sound Pressure Level                          | Cooling (H / M / L)                      | dB(A)       | 31 / 30 / 29                                       | 33 / 32 / 31       | 31 / 30 / 29       | 33 / 32 / 31       |
|                                               | Heating (H / M / L)                      | dB(A)       | 31 / 30 / 29                                       | 33 / 32 / 31       | 31 / 30 / 29       | 33 / 32 / 31       |
| Sound Power Level                             | Cooling (H / M / L)                      | dB(A)       | 38 / 36 / 35                                       | 46 / 43 / 39       | 41 / 40 / 39       | 46 / 43 / 41       |
|                                               | Heating (H / M / L)                      | dB(A)       | 38 / 36 / 35                                       | 46 / 43 / 39       | 41 / 40 / 39       | 46 / 43 / 41       |
| Connecting Cable                              | Communication Cable (VCTF-SB)            | mm² x cores | 1.0 - 1.5                                          | 1.0 - 1.5          | 1.0 - 1.5          | 1.0 - 1.5          |

**WFA039RG0A / WFA055RG0A  
WFA066RG0A**



| INDOOR                                        |                                          |             | WFA039RG0A                                         | WFA055RG0A         | WFA066RG0A         |
|-----------------------------------------------|------------------------------------------|-------------|----------------------------------------------------|--------------------|--------------------|
| Power Supply                                  | Ø, V, Hz                                 |             | 1, 220-230-240, 50                                 | 1, 220-230-240, 50 | 1, 220-230-240, 50 |
| Running Current by Voltage                    | A                                        |             | 0.26-0.37-0.37                                     | 0.36-0.44-0.44     | 0.70-0.71-0.71     |
| Capacity                                      | Cooling                                  | Condition A | 3.9 (3,353)                                        | 5.0 (4,299)        | 6.6 (5,675)        |
|                                               |                                          | Condition B | 3.3 (2,837)                                        | 4.2 (3,611)        | 5.5 (4,729)        |
|                                               |                                          | Condition C | 3.5 (3,009)                                        | 4.4 (3,783)        | 5.9 (5,073)        |
|                                               |                                          | Condition D | 2.0 (1,721)                                        | 2.5 (2,150)        | 3.3 (2,837)        |
|                                               | Heating                                  | Condition A | 4.2 (3,611)                                        | 5.3 (4,557)        | 6.6 (5,675)        |
|                                               |                                          | Condition B | 5.0 (4,299)                                        | 6.4 (5,503)        | 8.0 (6,879)        |
| Water Flow Rate                               | Cooling                                  | Condition A | 13.3                                               | 17.0               | 21.7               |
|                                               |                                          | Condition B | 13.3                                               | 17.0               | 21.7               |
|                                               |                                          | Condition C | 13.3                                               | 17.0               | 21.7               |
|                                               |                                          | Condition D | 9.0                                                | 11.5               | 14.7               |
|                                               | Heating                                  | Condition A | 13.3                                               | 17.0               | 21.7               |
|                                               |                                          | Condition B | 13.3                                               | 17.0               | 21.7               |
| Head Loss                                     | Cooling                                  | Condition A | 21.7                                               | 39.0               | 53.9               |
|                                               |                                          | Condition B | 21.7                                               | 39.0               | 53.9               |
|                                               |                                          | Condition C | 21.7                                               | 39.0               | 53.9               |
|                                               |                                          | Condition D | 5.7                                                | 27.2               | 37.6               |
|                                               | Heating                                  | Condition A | 30.3                                               | 48.3               | 71.7               |
|                                               |                                          | Condition B | 30.3                                               | 48.3               | 71.7               |
| Power Input                                   | Nominal W                                |             | 29                                                 | 44                 | 81                 |
| Running Current                               | Nominal A                                |             | 0.37                                               | 0.44               | 0.71               |
| Fan                                           | Type                                     | -           | Sirocco Fan                                        | Sirocco Fan        | Sirocco Fan        |
|                                               | Air Flow Rate (H / M / L)                | m³ / min    | 10.7 / 9.3 / 7.2                                   | 14.4 / 10.7 / 9.3  | 20.1 / 17.3 / 14.4 |
|                                               | External Static Pressure (Standard mode) | mmAq        | 0                                                  | 0                  | 0                  |
|                                               | External Static Pressure (High mode)     | mmAq        | 0                                                  | 0                  | 0                  |
| Fan Motor                                     | Type                                     | -           | BLDC                                               | BLDC               | BLDC               |
|                                               | Drive                                    | -           | CW                                                 | CW                 | CW                 |
|                                               | Output                                   | W x No.     | 19 x 2                                             | 19 x 2             | 19 x 2             |
|                                               | FLA (Full Load Ampere)                   | A           | 0.37                                               | 0.44               | 0.71               |
| Dimensions                                    | Net (W x H x D)                          | mm          | 1,100 x 190 x 700                                  | 1,100 x 190 x 700  | 1,100 x 190 x 700  |
|                                               | Shipping (W x H x D)                     | mm          | 1,242 x 235 x 766                                  | 1,242 x 235 x 766  | 1,242 x 235 x 766  |
| Weight                                        | Net                                      | kg          | 26.2                                               | 26.2               | 26.2               |
|                                               | Shipping                                 | kg          | 30.7                                               | 30.7               | 30.7               |
| Air Filter                                    | Type                                     | -           | Pre Filter                                         | Pre Filter         | Pre Filter         |
| Temperature Control                           | -                                        |             | Microprocessor, Thermostat for cooling and heating |                    |                    |
| Sound Absorbing / Thermal Insulation Material | -                                        |             | Foamed polystyrene                                 | Foamed polystyrene | Foamed polystyrene |
| Protection Device                             | -                                        |             | Fuse                                               | Fuse               | Fuse               |
| Water                                         | Inlet                                    | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male) | BSPF G 3/4" (male) |
| Connecting Pipes                              | Outlet                                   | -           | BSPF G 3/4" (male)                                 | BSPF G 3/4" (male) | BSPF G 3/4" (male) |
| Sound Pressure Level                          | Cooling (H / M / L)                      | dB(A)       | 28 / 27 / 26                                       | 31 / 28 / 26       | 38 / 34 / 31       |
|                                               | Heating (H / M / L)                      | dB(A)       | 28 / 27 / 26                                       | 31 / 28 / 26       | 38 / 34 / 31       |
| Sound Power Level                             | Cooling (H / M / L)                      | dB(A)       | 43 / 41 / 40                                       | 47 / 42 / 41       | 55 / 52 / 48       |
|                                               | Heating (H / M / L)                      | dB(A)       | 43 / 41 / 40                                       | 47 / 42 / 41       | 55 / 52 / 48       |
| Connecting Cable                              | Communication Cable (VCTF-SB)            | mm² x cores | 1.0 - 1.5                                          | 1.0 - 1.5          | 1.0 - 1.5          |

244 - 319

# CONTROL SOLUTIONS

INDIVIDUAL CONTROL / CENTRALIZED CONTROL / INTEGRATION DEVICE



# The perfect choice for innovative building management

## LG BECON HVAC SOLUTION

Innovative building management solution in your hands.  
 Our optimized solutions provide integrated control for customers configuration of various equipment in building and intuitive interface to maximize efficiency of operations.

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.



**ENERGY SAVING**



**SMART MANAGEMENT**



**EASY EXPANDABILITY**

### SMART MANAGEMENT



Standard III Remote Controller



Premium Remote Controller



Wi-Fi Modem (with ThinQ)

### EASY EXPANDABILITY



Modbus Gateway



ACP Lonworks



Dry Contact



ACP 5



ACS IO Module



ACU IO Module

### ENERGY SAVING



PDI



AC Smart 5



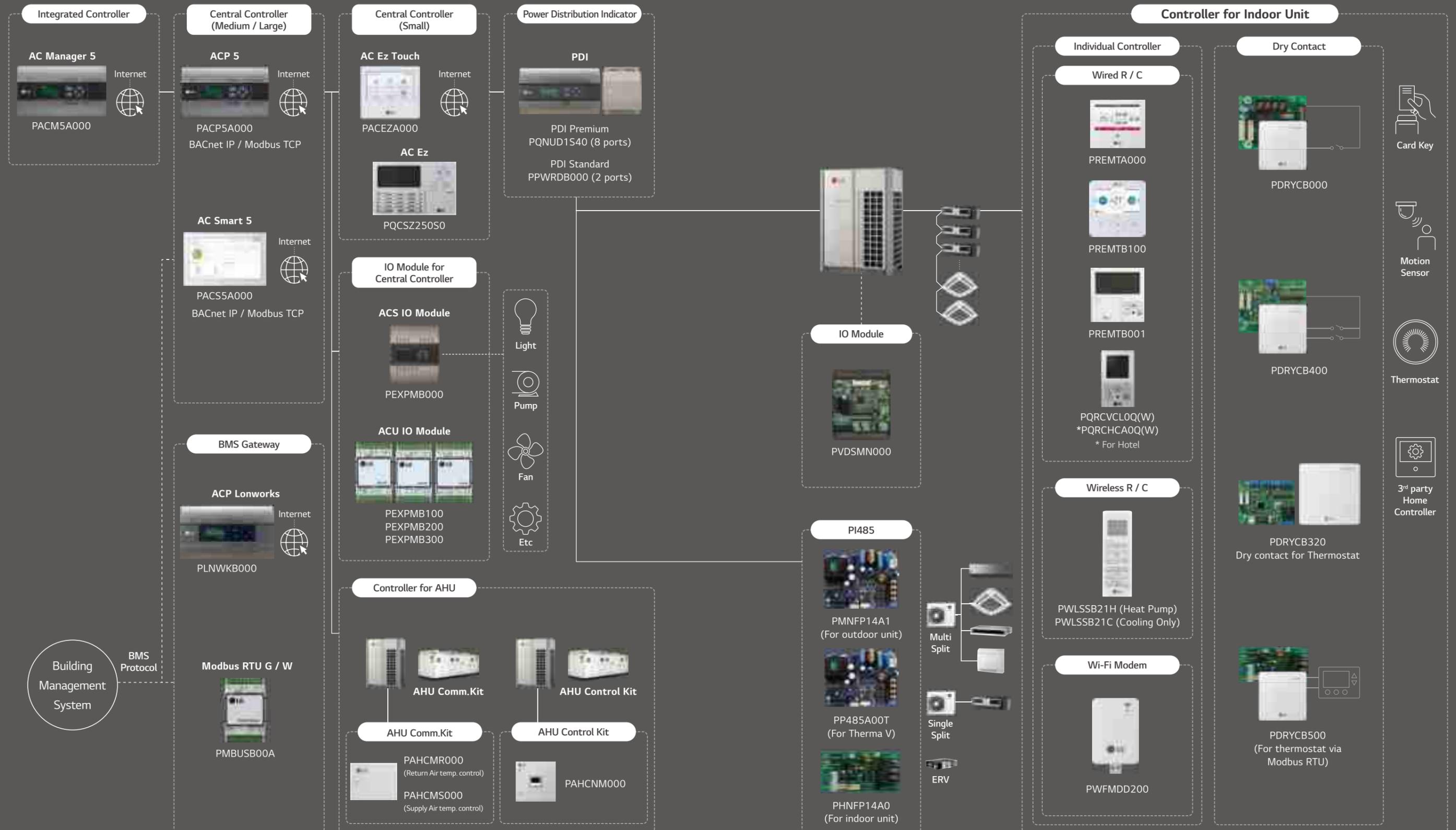
AC Manager 5



AC Ez Touch

# CONTROL SYSTEM ARCHITECTURE

LG BECON HVAC SOLUTION offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These control systems are equipped with user-friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management.





## Feature Functions

| Controller Name                |                                                                 | Wired Remote Controller               |                        |                                     |                                     |                                     | Wireless Remote Controller         | Wi-Fi Modem           |
|--------------------------------|-----------------------------------------------------------------|---------------------------------------|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-----------------------|
|                                |                                                                 | Premium                               | Standard III           | Standard II                         | Simple                              | Simple (Hotel)                      |                                    |                       |
| Model Name                     |                                                                 |                                       |                        |                                     |                                     |                                     |                                    |                       |
|                                |                                                                 | PREMTA000<br>PREMTA000A<br>PREMTA000B | PREMTB100<br>PREMTBB10 | PREMTB001<br>PREMTBB01              | PQRCVCL0Q<br>PQRCVCL0QW             | PQRCHCA0Q<br>PQRCHCA0QW             | PWLSSB21H (H/P)<br>PWLSSB21C (C/O) | PWFMD200              |
| Basic                          | On / Off                                                        | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | Fan Speed Control                                               | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | Temperature Setting                                             | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | Mode                                                            | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | -                                   | <input type="radio"/>              | <input type="radio"/> |
|                                | Auto Swing                                                      | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | Vane Control (Louver Angle)                                     | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | E.S.P (External Static Pressure)                                | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | -                                  | -                     |
|                                | Electric Failure Compensation                                   | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | -                                  | <input type="radio"/> |
|                                | Indoor Temperature Display                                      | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | <input type="radio"/> |
|                                | All Button Lock (Child Lock)                                    | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | -                                  | -                     |
|                                | Schedule / Timer                                                | Weekly - Yearly                       | Weekly - Yearly        | Weekly                              | -                                   | -                                   | Sleep / On / Off                   | Weekly                |
|                                | Wi-Fi AP Mode Setting                                           | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>              | -                     |
| Advanced                       | Additional Mode Setting <sup>1)</sup>                           | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | -                                   | -                                   | -                                  | -                     |
|                                | Time Display                                                    | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | -                                   | -                                   | <input type="radio"/>              | -                     |
|                                | Humidity Display                                                | <input type="radio"/>                 | <input type="radio"/>  | -                                   | -                                   | -                                   | -                                  | -                     |
|                                | Advanced Lock (Mode, Set point, Set point range, On / Off Lock) | Advanced Lock                         | Advanced Lock          | -                                   | -                                   | -                                   | -                                  | -                     |
|                                | Filter Sign                                                     | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | -                                   | -                                   | -                                  | -                     |
|                                | Energy Management <sup>2)</sup>                                 | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | -                                   | -                                   | -                                  | -                     |
|                                | Dual Set Point                                                  | <input type="radio"/>                 | <input type="radio"/>  | -                                   | -                                   | -                                   | -                                  | -                     |
|                                | Human Detection                                                 | -                                     | <input type="radio"/>  | -                                   | -                                   | -                                   | -                                  | -                     |
|                                | Temp. Humidity Compensation                                     | <input type="radio"/>                 | <input type="radio"/>  | -                                   | -                                   | -                                   | -                                  | -                     |
|                                | Air Purify Control                                              | -                                     | <input type="radio"/>  | -                                   | -                                   | -                                   | <input type="radio"/>              | <input type="radio"/> |
| ETC                            | Air Quality Level                                               | -                                     | <input type="radio"/>  | -                                   | -                                   | -                                   | -                                  | <input type="radio"/> |
|                                | Dual Vane (6 Airflows mode)                                     | -                                     | <input type="radio"/>  | -                                   | -                                   | -                                   | <input type="radio"/>              | <input type="radio"/> |
|                                | Operation Status LED                                            | <input type="radio"/>                 | <input type="radio"/>  | <input type="radio"/>               | <input type="radio"/>               | <input type="radio"/>               | -                                  | -                     |
|                                | Wireless Remote Controller Receiver                             | <input type="radio"/> <sup>3)</sup>   | -                      | <input type="radio"/> <sup>3)</sup> | <input type="radio"/> <sup>3)</sup> | <input type="radio"/> <sup>3)</sup> | -                                  | -                     |
|                                | Display                                                         | 5 inch Color                          | 4.3 inch Color         | 4.3 inch mono                       | 2.6 inch mono                       | 2.6 inch mono                       | 2 inch mono                        | -                     |
| Size (W x H x D, mm)           | 137 x 121 x 16.5                                                | 120 x 120 x 16                        | 120 x 121 x 16         | 70 x 121 x 16                       | 70 x 121 x 16                       | 51 x 153 x 26                       | 48 x 68 x 14                       |                       |
| Black Control for Screen Saver | <input type="radio"/>                                           | <input type="radio"/>                 | -                      | -                                   | -                                   | -                                   | -                                  |                       |

※ ○ : Applied, - : Not Applied  
 1) It might not be indicated or operated at the partial product.  
 2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWK000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function.  
 3) For ceiling type duct  
 Note:  
 1. Indoor unit should have functions requested by the controller.  
 2. If you need more detail, please refer to the manual of product. (<http://partnerlge.com> : Home > Doc.Library > Manual)



**Design**

- 4.3 inch color LCD / Intuitive GUI
- Seamless design / Touch button
- Humidity sensor embedded

**Comfort & Air Purification**

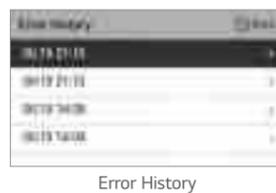
- CO<sub>2</sub> level monitoring (For ERV)
- Air quality level monitoring
- Air purify control

**Energy Contents**

- Power consumption monitoring
- Operation time monitoring
- Temperature setback
- Time limit control

**Advanced Functions**

- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost noise setting
- ODU capacity control
- Schedule functions



**Standard III Wired Remote Controller**

PREMTB100 (White) / PREMTBB10 (Black)

4.3 inch colored screen with modern design.

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.



| MODEL NAME                                     | PREMTB100 / PREMTBB10                                                                                                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On / Off                                       | ○                                                                                                                                                                  |
| Fan Speed Control                              | ○                                                                                                                                                                  |
| Temperature Setting                            | ○                                                                                                                                                                  |
| Mode                                           | Cool / Heat / Dry / Fan / Auto                                                                                                                                     |
| Additional Mode Setting <sup>1)</sup>          | Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling                                                                                 |
| Auto Swing                                     | ○                                                                                                                                                                  |
| Vane Control (Louver direction)                | ○                                                                                                                                                                  |
| E.S.P (External Static Pressure) <sup>2)</sup> | ○                                                                                                                                                                  |
| Reservation                                    | Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday                                                                                                        |
| Time Display                                   | ○                                                                                                                                                                  |
| Electric Failure Compensation                  | ○                                                                                                                                                                  |
| Lock                                           | All / On & Off / Mode / Set temperature range                                                                                                                      |
| Filter Sign                                    | ○ (Remain time + Alarm)                                                                                                                                            |
| Energy Management                              | Check Energy Usage <sup>3)</sup> / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data |
| Operation Status LED                           | ○                                                                                                                                                                  |
| Air Purify Control <sup>4)</sup>               | ○                                                                                                                                                                  |
| Air Quality Level <sup>4)</sup>                | ○                                                                                                                                                                  |
| Indoor Temperature Display                     | ○                                                                                                                                                                  |
| Indoor Humidity Display                        | ○                                                                                                                                                                  |
| Human Detection                                | ○                                                                                                                                                                  |
| Display                                        | 4.3 inch TFT color LCD (480 x 272)                                                                                                                                 |
| Size (W x H x D, mm)                           | 120 x 120 x 16                                                                                                                                                     |
| Black Light for Screen Saver                   | ○                                                                                                                                                                  |
| Home Leave                                     | 2 set points control                                                                                                                                               |

※ ○ : Applied, - : Not Applied  
 1) The function is available in some product. (Refer to the product data Book).  
 2) This function is available for duct type.  
 3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.  
 4) This function is available for indoor units that provide corresponding function.  
 Note:  
 1. Indoor unit needs to have functions requested by the controller.  
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.

# Standard III Wired Remote Controller

## Air Quality Level Display

Easy check for indoor air quality

· PM10 / PM2.5 / PM1.0 · Status / Monitoring



| CLASSIFICATION    | GOOD   | MODERATE | UNHEALTHY | POOR  |
|-------------------|--------|----------|-----------|-------|
| * PM10 (µg / m3)  | 0 - 54 | 55 - 154 | 155 - 254 | 255 - |
| * PM2.5 (µg / m3) | 0 - 12 | 13 - 35  | 36 - 55   | 56 -  |
| * PM1.0 (µg / m3) | 0 - 12 | 13 - 35  | 36 - 55   | 56 -  |

Note : Display color may change depending on the region / country.  
 This function is available for indoor units that provide corresponding function.  
 \* PM (Particulate matter)  
 - PM10 : Coarse Particulate matter / PM2.5 : Fine Particulate matter / PM1.0 : Ultra Fine Particulate matter  
 - PM designated as a carcinogen as like an asbestos, widely known as carcinogen.  
 If the dust diameter is under 10 micrometers, it is PM10. And under 2.5 micrometers, it's PM2.5.

## Environment Display

Displaying environment information for the more user comfort

Temperature / Humidity / Comfort level / CO<sub>2</sub> concentration



## Dual Set Point

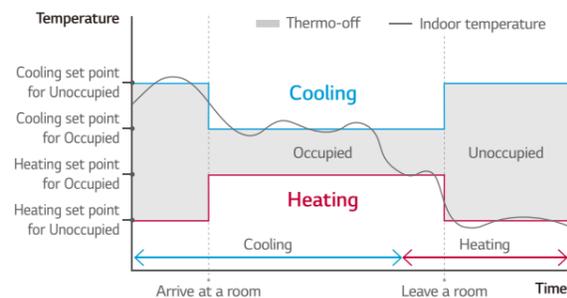
Auto changeover for convenience

- Indoor unit will keep the indoor temperature within the range of dual set point by automatically switching the unit operation.

Setback for energy savings and comfort

- In the user's absence, the room temperature will remain between two set points rather than switching off, providing quick comfort when the mode is changed to 'occupied'.

※ This function is for Heat Recovery system or Single heat pump. Otherwise it is not guaranteed.



## Energy Savings

Energy Management

- Energy Monitoring & Alarm  
 Real-time and day / week / month / year energy usage monitoring is possible. In addition, it can set target for energy usage and operation time, and alarm will be displayed when exceeded.

※ PDI (PQNUD1S40 / PPWRDB000) is required.



Instantaneous Power Check

Energy Usage Target Setting

Time Limit Control

- Monitoring the unit's continuous running time.  
 And prevent the wasting energy by turning the unit off automatically.



## Schedule Function

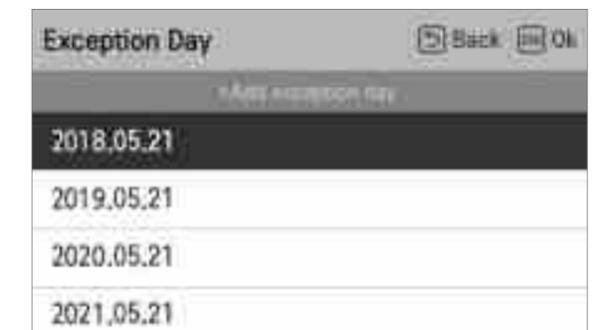
Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

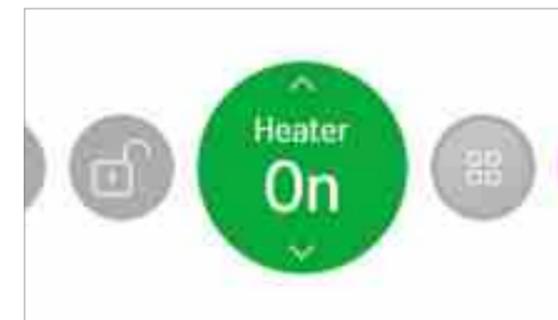
Possible to set up exceptional date on regular schedule.



## External Device On / Off

External Equipment Control

User can control the external equipment through additional contact signal output.



Customized Interlocking Control

User can create a automatic control pattern. For example, turning the temperature drops below or rises above a certain temperature.



# Premium Wired Remote Controller



Full Touch Screen



PREMTA000 <sup>1)</sup> / PREMTA000A <sup>2)</sup> / PREMTA000B <sup>3)</sup>

5 inch full touch screen with a premium design.



\* Supported languages list  
 1) English / Portuguese / Spanish / French  
 2) English / Italian / Russian / Chinese  
 3) English / German / Polish / Czech

| MODEL NAME                                     | PREMTA000 / PREMTA000A / PREMTA000B                                                                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On / Off                                       | ○                                                                                                                                                                  |
| Fan Speed Control                              | ○                                                                                                                                                                  |
| Temperature Setting                            | ○                                                                                                                                                                  |
| Mode                                           | Cool / Heat / Dry / Fan / Auto                                                                                                                                     |
| Additional Mode Setting <sup>1)</sup>          | Energy-Saving Cooling / Robot Cleaning / Heater / Humidification                                                                                                   |
| Auto Swing                                     | ○                                                                                                                                                                  |
| Vane Control (Louver direction)                | ○                                                                                                                                                                  |
| E.S.P (External Static Pressure) <sup>2)</sup> | ○                                                                                                                                                                  |
| Reservation                                    | Simple / Sleep / On / Off / Weekly / Yearly / Holiday                                                                                                              |
| Time Display                                   | ○                                                                                                                                                                  |
| Electric Failure Compensation                  | ○                                                                                                                                                                  |
| Child Lock                                     | ○                                                                                                                                                                  |
| Filter Sign                                    | ○ (Remain time + Alarm)                                                                                                                                            |
| Energy Management                              | Check Energy Usage <sup>3)</sup> / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data |
| Operation Status LED                           | ○                                                                                                                                                                  |
| Indoor Temperature Display                     | ○                                                                                                                                                                  |
| Wireless Remote Controller Receiver            | ○ <sup>4)</sup>                                                                                                                                                    |
| Display                                        | 5 inch TFT color LCD (480 x 272)                                                                                                                                   |
| Size (W x H x D, mm)                           | 137 x 121 x 16.5                                                                                                                                                   |
| Black Light for Screen Saver                   | ○                                                                                                                                                                  |
| Home Leave                                     | 2 set points control                                                                                                                                               |

※ ○ : Applied, - : Not Applied  
 1) It might not be indicated or operated at the partial product.  
 2) This function is available for duct type.  
 3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.  
 4) For ceiling type ducted unit.  
 Note : 1. Indoor unit needs to have functions requested by the controller  
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly

## Easy Energy Management

- Check the operation hour or electricity usage
- Comparison of usage by year
- Set the target usage and time



## Easy Scheduling

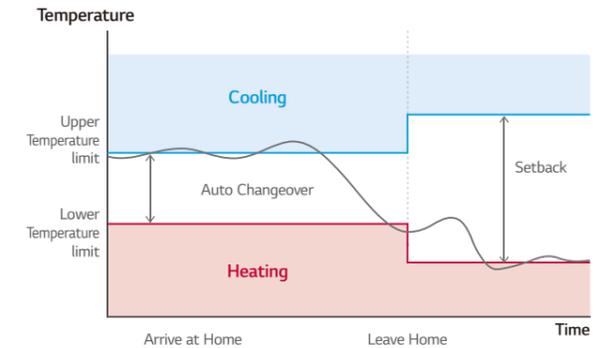
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy



## Dual Set Point

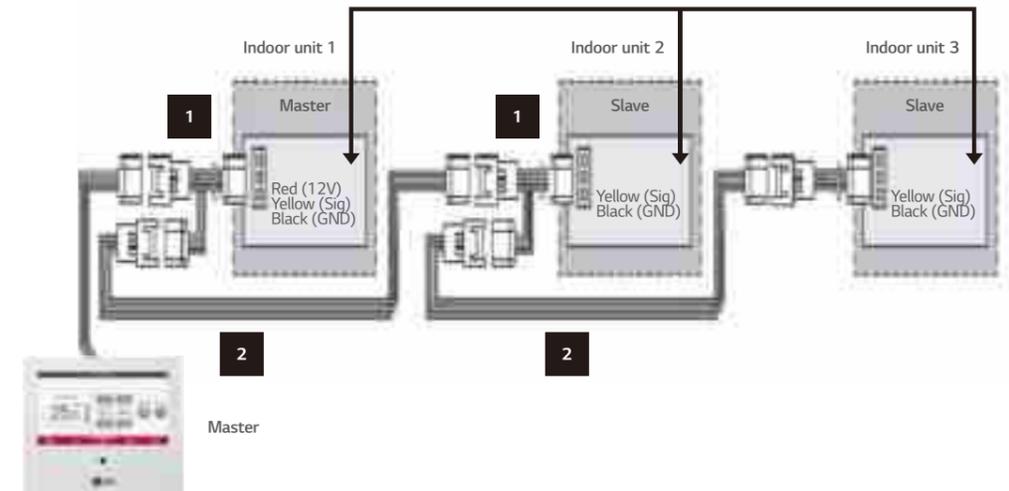
- Auto changeover switching the operation mode automatically
- Setback (Leave Home) Changing status by occupied / unoccupied

\* This function is only for Heat Recovery system and Single heat pump.



## Group Control

- Max. 16 Indoor units by one remote controller



## Standard II Wired Remote Controller

PREMTB001 / PREMTBB01

Providing easy control of one or a group of indoor units with various functions.



### Features & Benefits

- Wired remote controller that can implement various functions such as scheduling or filter alert.

| MODEL NAME                          | PREMTB001 / PREMTBB01                                            |
|-------------------------------------|------------------------------------------------------------------|
| On / Off                            | ○                                                                |
| Fan Speed Control                   | ○                                                                |
| Temperature Setting                 | ○                                                                |
| Mode                                | Cool / Heat / Dry / Fan / Auto                                   |
| Additional Mode Setting             | Energy-Saving Cooling / Robot Cleaning / Heater / Humidification |
| Auto Swing                          | ○                                                                |
| Vane Control (Louver direction)     | ○                                                                |
| E.S.P (External Static Pressure)    | ○                                                                |
| Reservation                         | Simple / Sleep / On / Off / Weekly / Holiday                     |
| Time Display                        | ○                                                                |
| Electric Failure Compensation       | ○                                                                |
| Child Lock                          | ○                                                                |
| Filter Sign                         | ○ (Remain time + Alarm)                                          |
| Operation Status LED                | ○                                                                |
| Indoor Temperature Display          | ○                                                                |
| Wireless Remote Controller Receiver | ○ <sup>1)</sup>                                                  |
| Size (W x H x D, mm)                | 120 x 121 x 16                                                   |
| Black Light                         | ○                                                                |
| Power Consumption Monitoring        | ○ <sup>2)</sup>                                                  |
| Check Model Information             | ○                                                                |

※ ○ : Applied, - : Not Applied  
 1) For ceiling type ducted unit  
 2) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.  
 Note : Indoor unit needs to have functions requested by the controller.

## Simple Wired Remote Controller

PQRCVLOQW (White) / PQRCVLOQ (Black) / PQRCHCA0QW (White) / PQRCHCA0Q (Black)

A simple way to control office or hotel systems in a compact design.



### Features & Benefits

- Small remote control with minimal functionality.

| MODEL NAME                          | PQRCVLOQW / PQRCVLOQ           | PQRCHCA0QW / PQRCHCA0Q |
|-------------------------------------|--------------------------------|------------------------|
| On / Off                            | ○                              | ○                      |
| Fan Speed Control                   | ○                              | ○                      |
| Temperature Setting                 | ○                              | ○                      |
| Mode                                | Cool / Heat / Dry / Fan / Auto | -                      |
| Auto Swing                          | ○                              | ○                      |
| Vane Control (Louver direction)     | ○                              | ○                      |
| E.S.P (External Static Pressure)    | ○                              | ○                      |
| Electric Failure Compensation       | ○                              | ○                      |
| Child Lock                          | ○                              | ○                      |
| Indoor Temperature Display          | ○                              | ○                      |
| Wireless Remote Controller Receiver | ○ <sup>1)</sup>                | ○ <sup>1)</sup>        |
| Size (W x H x D, mm)                | 70 x 121 x 16                  | 70 x 121 x 16          |
| Black Light                         | ○                              | ○                      |

※ ○ : Applied, - : Not Applied  
 1) For ceiling type ducted unit  
 Note : Indoor unit needs to have functions requested by the controller.

## Wireless Remote Controller

PWLSSB21H (Heat Pump), PWLSSB21C (Cooling Only)

Handy and portable wireless type.



### Features & Benefits

- Easy to use while moving.
- Main functions are available.

| MODEL NAME                      | PWLSSB21H (H/P), PWLSSB21C (C/O)                                     |
|---------------------------------|----------------------------------------------------------------------|
| On / Off                        | ○                                                                    |
| Fan Speed Control               | ○ <sup>1)</sup>                                                      |
| Temperature Setting             | ○                                                                    |
| Mode                            | Cool / Heat / Dry / Fan / Auto                                       |
| Additional Mode Setting         | Air Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry |
| Auto Swing                      | ○                                                                    |
| Vane Control (Louver direction) | ○                                                                    |
| Reservation                     | Sleep / On / Off                                                     |
| Time Display                    | ○                                                                    |
| Indoor Temperature Display      | ○                                                                    |
| Sleep Mode Auto                 | Max. 7 hours                                                         |
| Size (W x H x D, mm)            | 51 x 153 x 26                                                        |

※ ○ : Applied, - : Not Applied  
 1) For some products, you can use "slow" fan speed function.

# Wi-Fi Modem



※ Search "ThinQ" on Google play or Appstore then download the app.  
 ※ Internet service with Wi-Fi connection has to be available.  
 ※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

## PWFMDD200

Control conditioners by using internet devices as Android or iOS smartphones.



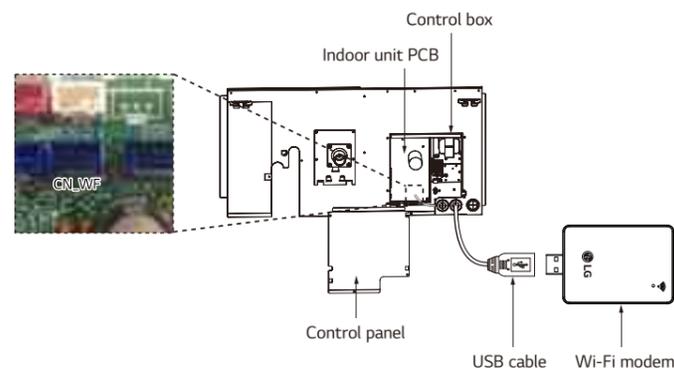
### Features & Benefits

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (ThinQ) is available.
- Simple operation for various functions.
  - On / Off
  - Operation Mode
  - Current / Set Temperature
  - Fan Speed
  - Vane Control <sup>1)</sup>
  - Reservation (Sleep, Weekly On / Off)
  - Energy Monitoring <sup>2)</sup>
  - Filter Management
  - Error Check
  - Air Purify <sup>3)</sup>

| MODEL NAME               | PWFMDD200                                                           |
|--------------------------|---------------------------------------------------------------------|
| Size (W x H x D, mm)     | 48 x 68 x 14                                                        |
| Interfaceable Products   | System Air Conditioner <sup>3)</sup>                                |
| Connection Type          | Indoor unit 1:1                                                     |
| Communication Frequency  | 2.4 GHz                                                             |
| Wireless Standards       | IEEE 802.11b / g / n                                                |
| Mobile Application       | ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher) |
| Optional Extension Cable | PWYREW000 (10m extension)                                           |

1) Vane Control may not be possible according to the type of Indoor unit.  
 2) LG Centralized controller and PDI installation is required for this function.  
 3) For the compatibility with Indoor unit, please contact regional LG office.  
 Note :  
 1. Functionality may be different according to each IDU model.  
 2. User interface of application shall be revised for its design and contents improvement.  
 3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

### Installation Scene



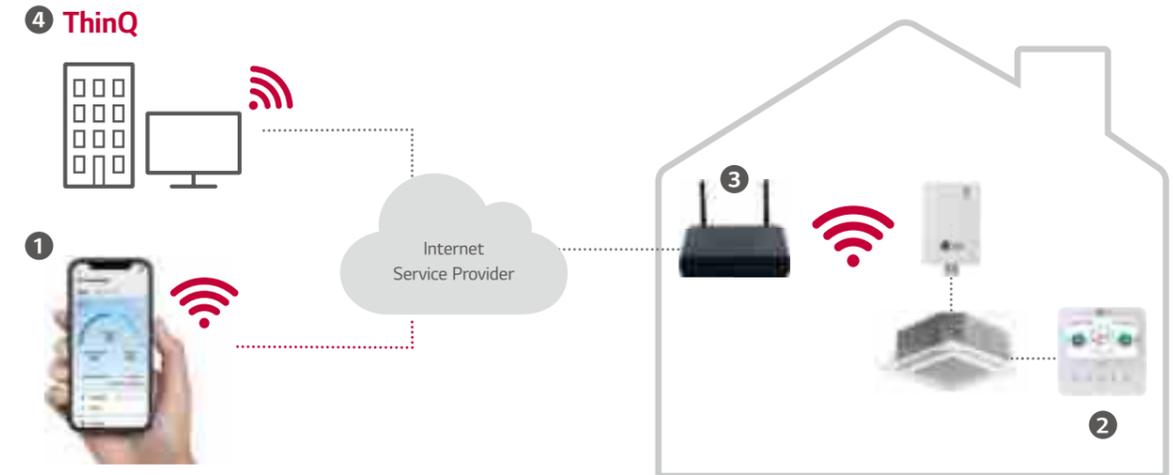
※ The Wi-Fi communication distance and reliability may vary due to the type of Wi-Fi router and the installation environment, Please refer to the manual.

## ThinQ Connectivity

### Connection (Pairing) Order

- 1 Make LG account on ThinQ (Application) and login.
- 2 Select the installed product and set AP (Access Point) mode by wired / wireless remote controller.
- 3 Select the Wi-Fi network that will be used and insert the passwords.
- 4 Product registration progress is completed.

\* 5GHz networks may not be supported.



## ThinQ Mobile App

### Simple operation for various functions

On, Off, Current Temp., Mode, Set Temp.



### Vane Control



### Air Purify



### Easy Management

#### Reservation



#### Energy Monitoring



#### Smart Diagnosis



#### Filter Management



※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

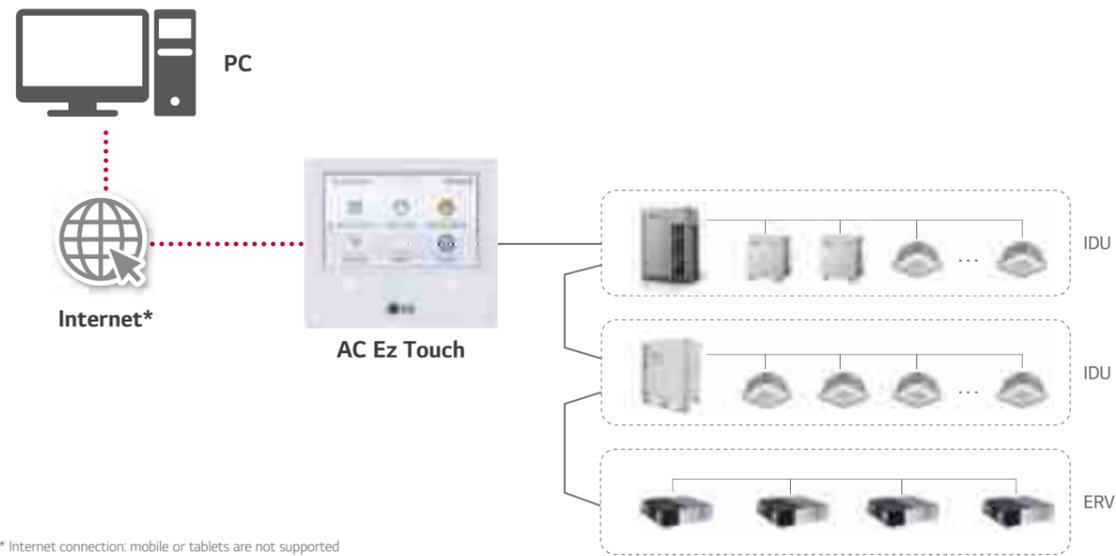


## Feature Functions

| Controller Name                       |                                       | AC Ez                                                                               | AC Ez Touch     | AC Smart 5 <sup>6)</sup>                                                            | ACP 5 <sup>6)</sup>      | ACP Lonworks                                                                        | AC Manager 5 <sup>7)</sup> |         |
|---------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|----------------------------|---------|
| Model Name                            |                                       |  |                 |  |                          |  |                            |         |
|                                       |                                       | PQCSZ250S0                                                                          |                 | PACEZA000                                                                           |                          | PACS5A000                                                                           |                            |         |
|                                       |                                       |  |                 |  |                          |  |                            |         |
|                                       |                                       | PACP5A000                                                                           |                 | PLNWK000                                                                            |                          | PACM5A000                                                                           |                            |         |
| Product                               | DO                                    | -                                                                                   | -               | 2                                                                                   | 4                        | 2                                                                                   | -                          |         |
|                                       | DI                                    | -                                                                                   | 1               | 2                                                                                   | 10                       | 2                                                                                   | -                          |         |
|                                       | Max. Connectable No.                  | IDUs                                                                                | 32              | 64                                                                                  | 128                      | 256                                                                                 | 64                         | 8,192   |
|                                       |                                       | ERV                                                                                 | 32              | 64                                                                                  | 128                      | 256                                                                                 | 64                         | 8,192   |
|                                       |                                       | A / C + ERV                                                                         | 32              | 64                                                                                  | 128                      | 256                                                                                 | 64                         | 8,192   |
|                                       |                                       | AHU                                                                                 | -               | -                                                                                   | 16                       | 16                                                                                  | 16 <sup>5)</sup>           | 16 x 32 |
|                                       |                                       | Chiller                                                                             | -               | -                                                                                   | 5 Optional <sup>4)</sup> | 10 Optional <sup>4)</sup>                                                           | -                          | 10 x 32 |
| Commercial Air Purifier <sup>1)</sup> | -                                     | -                                                                                   | 64              | 128                                                                                 | -                        | 128 x 32                                                                            |                            |         |
| Compatibility                         | Air Conditioner                       | ○ <sup>3)</sup>                                                                     | ○               | ○                                                                                   | ○                        | ○                                                                                   | ○                          |         |
|                                       | Ventilation (ERV / ERV DX)            | ○ <sup>4)</sup>                                                                     | ○               | ○                                                                                   | ○                        | ○                                                                                   | ○                          |         |
|                                       | Heating                               | -                                                                                   | ○               | ○                                                                                   | ○                        | ○                                                                                   | ○                          |         |
|                                       | AHU                                   | -                                                                                   | -               | ○                                                                                   | ○                        | ○                                                                                   | ○                          |         |
|                                       | Chiller                               | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | -                                                                                   | ○                          |         |
|                                       | Commercial Air Purifier <sup>1)</sup> | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | -                                                                                   | ○                          |         |
|                                       | ACS IO                                | -                                                                                   | -               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | ○                          |         |
| Additional Function                   | Add Drawing                           | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Group Management                      | -                                                                                   | ○               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Auto Changer Over                     | -                                                                                   | ○               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Set Back                              | -                                                                                   | ○               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Dual Setpoint                         | -                                                                                   | ○               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Change Alarm                          | -                                                                                   | Filter          | Filter                                                                              | Filter                   | Filter                                                                              | Filter                     |         |
|                                       | Indoor Unit Lock                      | ○ <sup>2)</sup>                                                                     | ○               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | -                          |         |
|                                       | Cycle Monitoring                      | -                                                                                   | -               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Air Purify                            | -                                                                                   | ○ <sup>5)</sup> | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | -                                                                                   | ○                          |         |
| Schedule                              | ○                                     | ○                                                                                   | ○ <sup>5)</sup> | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○                                                                                   |                            |         |
| Auto Control                          | Peak Control                          | Energy & Priority Control                                                           | -               | ○                                                                                   | ○                        | ○                                                                                   | ○ <sup>5)</sup>            |         |
|                                       |                                       | Outdoor Unit Capacity Control                                                       | -               | -                                                                                   | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>            |         |
|                                       | Time limit control                    | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Interlocking                          | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
| Energy Navigation                     | -                                     | -                                                                                   | ○ <sup>5)</sup> | ○ <sup>5)</sup>                                                                     | -                        | ○                                                                                   |                            |         |
| Energy Report                         | Power                                 | -                                                                                   | ○               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Gas                                   | -                                                                                   | -               | ○                                                                                   | ○                        | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Run time                              | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Save to PC / USB (Excel)              | -                                                                                   | -               | PC / USB <sup>5)</sup>                                                              | PC                       | PC                                                                                  | PC                         |         |
| Trend Reporting                       | -                                     | -                                                                                   | ○ <sup>5)</sup> | ○ <sup>5)</sup>                                                                     | -                        | ○                                                                                   |                            |         |
| History                               | Report (Control / Error)              | -                                                                                   | Error           | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Send Email                            | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Save to PC / USB (Excel)              | -                                                                                   | -               | PC / USB                                                                            | PC                       | ○ <sup>5)</sup>                                                                     | PC                         |         |
| etc                                   | Summer Time                           | -                                                                                   | ○               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | Outdoor Unit Oil-Return Operation     | -                                                                                   | -               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | -                          |         |
|                                       | User Authority                        | -                                                                                   | Password        | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |
|                                       | PC Access                             | -                                                                                   | ○               | ○ <sup>5)</sup>                                                                     | ○ <sup>5)</sup>          | ○ <sup>5)</sup>                                                                     | ○                          |         |

※ ○ : Applied, - : Not Applied  
 1) The Commercial Air purifier must additionally install PI485 (PHNFP14A0).  
 2) Hard Lock  
 3) Except for some feature (Individual lock, Limit temp., etc.)  
 4) Except for some feature (User mode, additional function, etc.)  
 5) This function is not applied for BMS points.  
 6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.  
 7) ACP 5 or AC Smart 5 is required.

# AC Ez Touch



\* Internet connection: mobile or tablets are not supported  
 \* Appropriate P1485 should be used according to PDB.

## PACEZA000

Smart management with 5 inch touch screen for small site.



| MODEL NAME                                             | PACEZA000                                             |
|--------------------------------------------------------|-------------------------------------------------------|
| Size (W x H x D, mm)                                   | 137 x 121 x 25                                        |
| Interfaceable Products                                 | MULTI V / ERV / ERV DX / Hydro Kit / THERMA V         |
| Maximum number of units                                | 64                                                    |
| Individual / Group Control                             | On & Off / Mode / Temperature / Fan speed             |
| Individual Controller Lock                             | Temperature / Mode / Fan speed / All                  |
| Error Check                                            | ○                                                     |
| Slave Mode (Interlocking with higher level controller) | ○                                                     |
| Schedule                                               | Weekly / Monthly / Yearly / Exception day             |
| Remote Access                                          | By client S/W (Neither Android nor IOS are supported) |
| Emergency Stop & Alarm Display                         | ○                                                     |
| Power Consumption Monitoring (with PDI)                | ○                                                     |
| Auto Changeover / Setback                              | ○                                                     |
| Temperature Limit                                      | ○                                                     |
| Operation History                                      | Error record                                          |
| ODU Low Noise <sup>1)</sup>                            | ○                                                     |
| Daylight Saving Time                                   | ○                                                     |
| External IO Port                                       | DI 1                                                  |
| IPv6 Support                                           | ○                                                     |
| Air Purify Control                                     | ○                                                     |
| Air Quality Level                                      | ○                                                     |

※ ○ : Applied, - : Not Applied  
 1) It is only available in some products.

## PC Access

Users can control each space efficiently through PC access.



\* IPv6 supported  
 - Open port 80 & 9300  
 - Fix public IP is mandatory. Router configuration of NAT is required.

## Energy Statistics (with PDI)

Statistics of operational status (Time, Power consumption) are provided to help make intelligent system operation decisions.

| Name   | Usage(kWh) | Accumulated(kWh) |
|--------|------------|------------------|
| Group1 | 110        | 3021             |
| Group2 | 150        | 6186             |
| Group3 | 130        | 4267             |
| Group4 | 120        | 7614             |

## Energy Mode

When using energy mode function, operation Modes from cooling to fan or heating to off mode by force. (It is available only for operating indoor unit)



## Air Purify Control & Monitoring



## AC Ez Touch

### Alarm Indicator

It shows errors and alarm information. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.



### Schedule

Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.

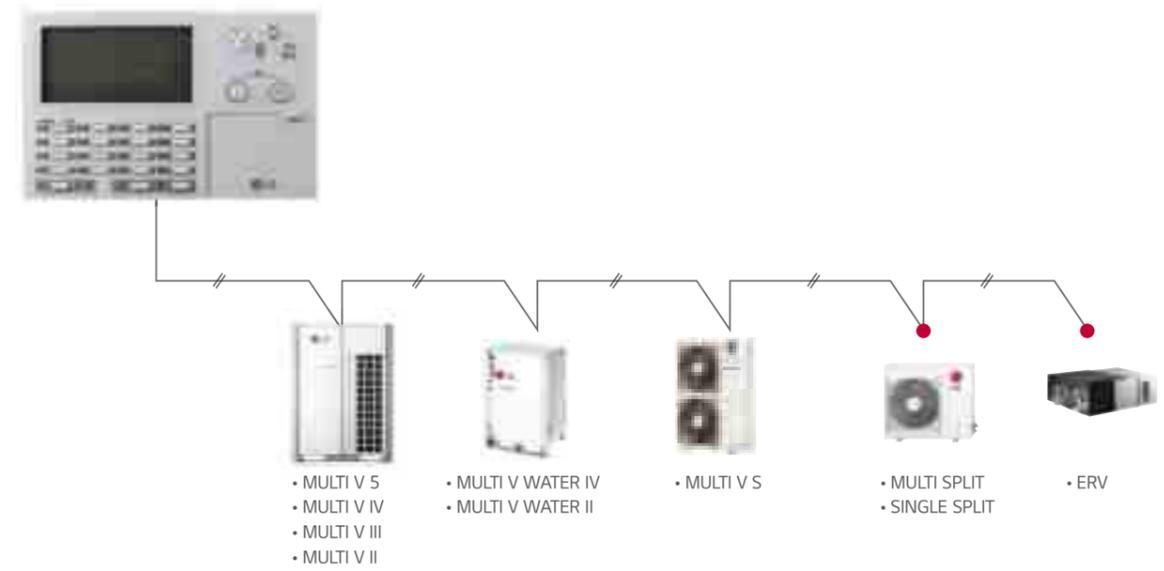


### Group / Individual Control

User can control each indoor unit individually or by group by simply clicking each unit on control screen.



## AC Ez



• Appropriate PI485 should be used according to PDB.

### PQCSZ250S0

Easy to manage up to 32 indoor units, including ERV with simple interface.

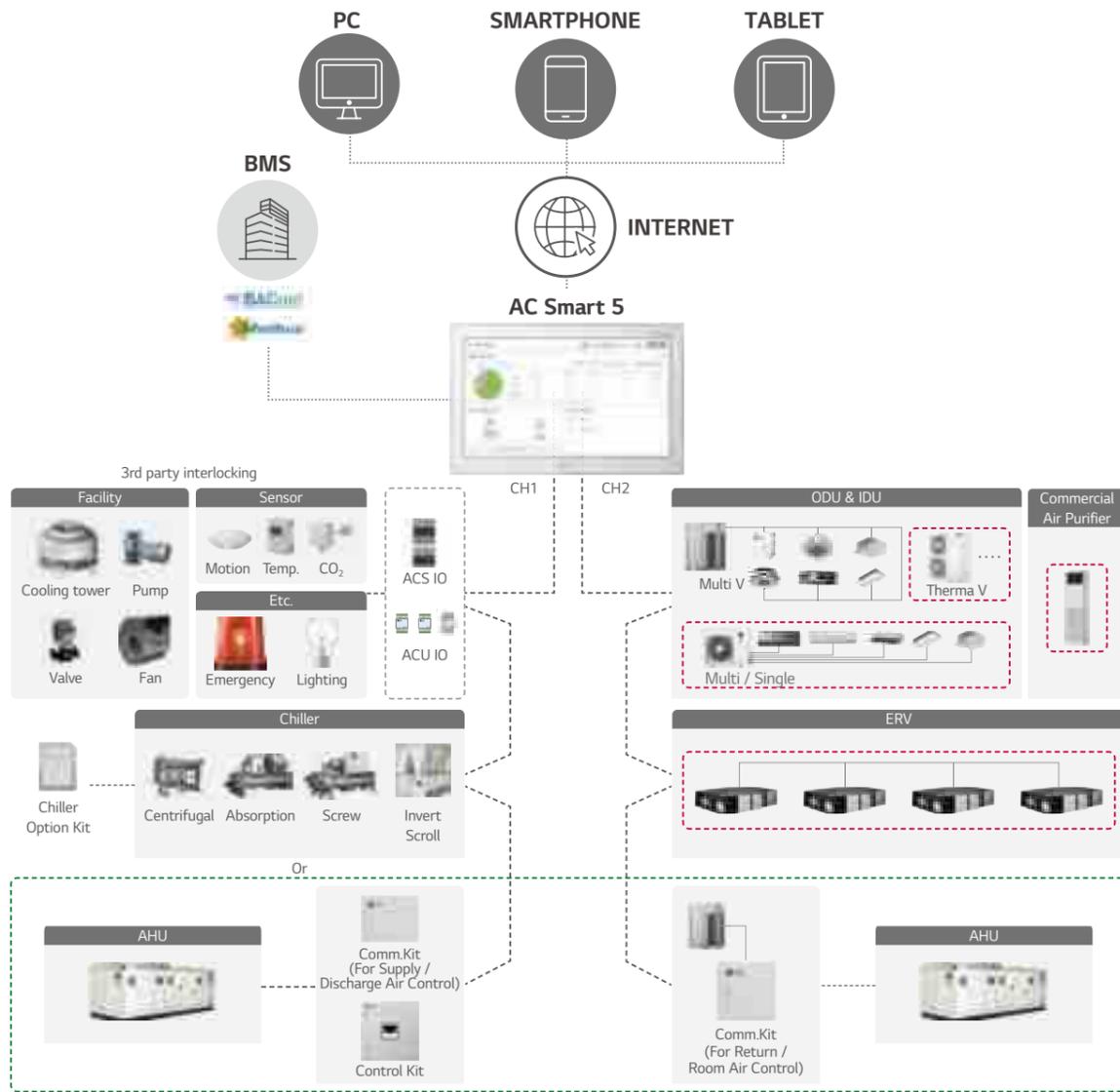


### Features & Benefits

- 32 indoor units control
- Weekly Schedule
- Individual / Group Control

| MODEL NAME                                             | PQCSZ250S0                                |
|--------------------------------------------------------|-------------------------------------------|
| Size (W x H x D, mm)                                   | 190 x 120 x 20                            |
| Interfaceable Products                                 | MULTI V / ERV / ERV DX                    |
| Display                                                | LED / LCD Display                         |
| Power                                                  | DC12V, 1A                                 |
| Maximum number of units                                | 32                                        |
| Individual / Group Control                             | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock                             | All                                       |
| Error Check                                            | ○                                         |
| Slave Mode (Interlocking with higher level controller) | ○                                         |
| Schedule                                               | Weekly                                    |

※ ○ : Applied, - : Not Applied



⚡ According to CH1 setting, normal ODU can be connected to CH1.  
(Flexible wiring design with 2 ports)  
⚡ Appropriate P1485 should be used according to PDB (Product Data Book).  
⚡ For details, refer to the product PDB or manual.

# AC Smart 5

## PACSSA000

10-inch touch screen with HTML5 GUI (Graphic User Interface) for easy control.

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.



Max. 128 IDU control



Schedule



Map view (Visual navigation)



Energy monitoring



Air Purify



Multi level grouping

| MODEL NAME                                             | PACSSA000                                                                                                                                                      |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size (W x H x D, mm)                                   | 253.2 x 167.7 x 28.9                                                                                                                                           |
| Interfaceable Products                                 | MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller <sup>1)</sup> / Commercial Air Purifier                                                   |
| Maximum number of units                                | 128                                                                                                                                                            |
| Individual / Group Control                             | On & Off / Mode / Temperature / Fan speed                                                                                                                      |
| Individual Controller Lock                             | Temperature / Mode / Fan speed / All                                                                                                                           |
| Advanced Function Setting and Display <sup>2)</sup>    | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO2 Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check                                            | ○                                                                                                                                                              |
| Slave Mode (Interlocking with higher level controller) | ○                                                                                                                                                              |
| Schedule                                               | Weekly / Monthly / Yearly / Exception day                                                                                                                      |
| Web Access                                             | ○                                                                                                                                                              |
| Emergency Stop & Alarm Display                         | ○                                                                                                                                                              |
| Power Consumption Monitoring (with PDI)                | ○                                                                                                                                                              |
| Auto Changeover / Setback                              | ○                                                                                                                                                              |
| Temperature Limit                                      | ○                                                                                                                                                              |
| Operation Time Limit                                   | ○                                                                                                                                                              |
| Visual Navigation                                      | ○                                                                                                                                                              |
| Operation Trend                                        | ○                                                                                                                                                              |
| Air Purify Control                                     | ○                                                                                                                                                              |
| Air Quality Level                                      | ○                                                                                                                                                              |
| Interlock Control                                      | ○                                                                                                                                                              |
| Virtual Group Control                                  | ○                                                                                                                                                              |
| ODU Capacity Control                                   | ○                                                                                                                                                              |
| Energy Navigation (with PDI)                           | ○                                                                                                                                                              |
| Daylight Saving Time                                   | ○                                                                                                                                                              |
| External IO Port                                       | DI 2 / DO 2                                                                                                                                                    |
| BMS Integration <sup>3)</sup>                          | BACnet IP / Modbus TCP                                                                                                                                         |
| IPv6 Support                                           | ○                                                                                                                                                              |

※ ○ : Applied, - : Not Applied  
1) Chiller Option Kit (PCHLLN000) is required.  
2) It is only available in some products.  
3) For the detail point list, please refer to the installation manual.

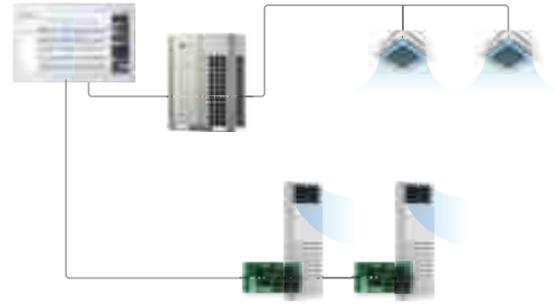
# AC Smart 5

## Air Purify Total Solution

### Air Purify Control



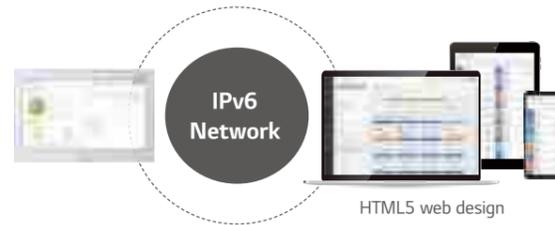
### Air Quality Level Monitoring



\* The Commercial Air purifier must additionally install PI485(PHNP14A0).

## Advanced Network Accessibility

AC Smart 5 reflects the state of the art of network technology trend. IPv6 (Internet Protocol version 6), which is the most recent version of the Internet Protocol provides accessibility to the IPv6 compatible network environment. In addition, HTML5 allows you to easily control LG HVAC system on a variety of platforms (PC, Mobile, Tablet), at any time and from any location, not just on the touch screen.



## Visualized Control

Visual navigation enables controlling and monitoring the unit on floor, plan view for the intuitive management.



## Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.



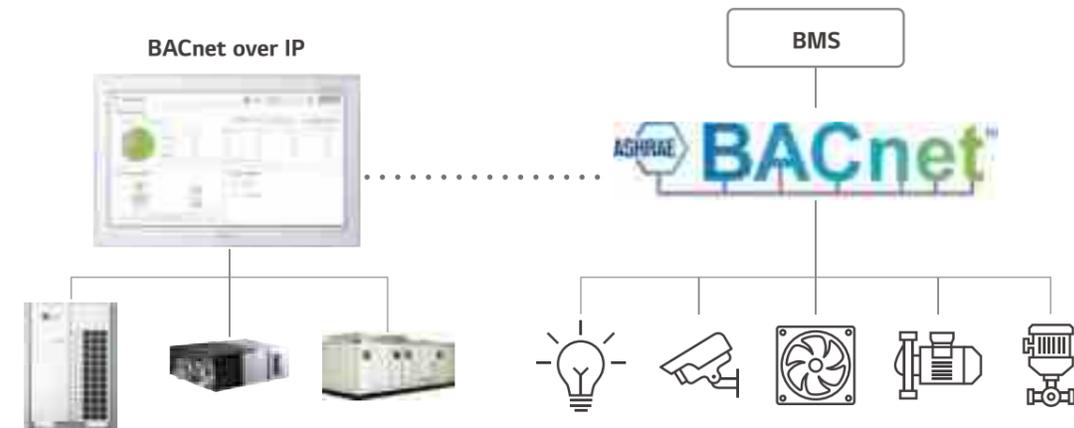
## Energy Management

The energy navigation function allows the air conditioner's operational energy usage to be managed monthly, weekly and yearly. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



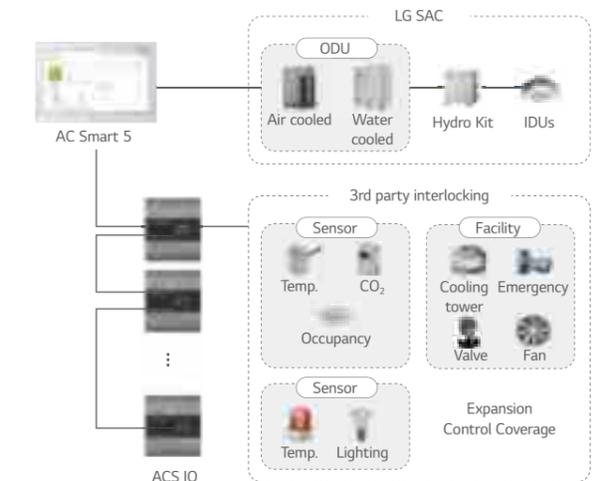
## Building Management System (BMS) Integration

Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.

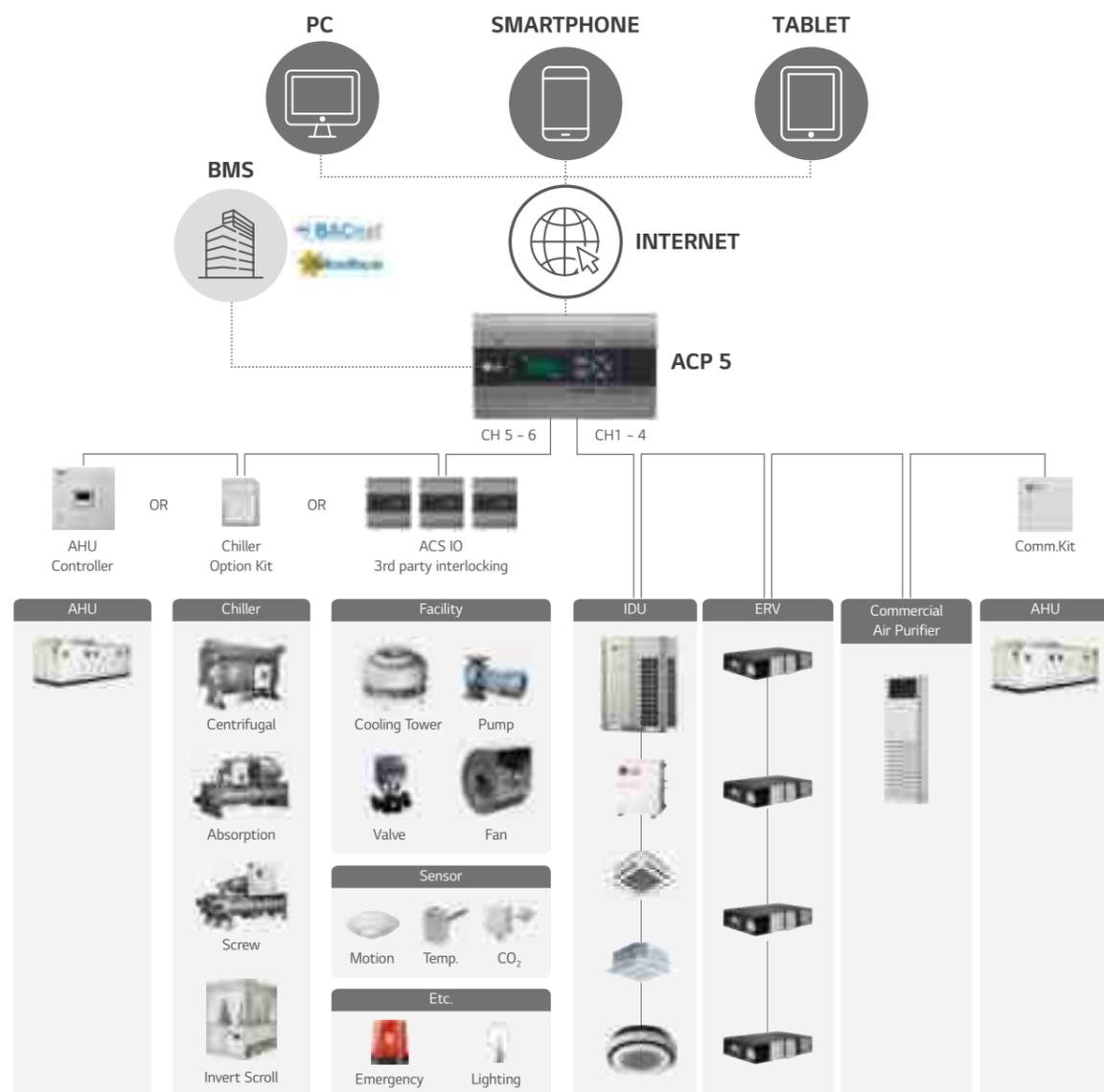


## Interlocking with 3rd Party Equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module and ACU IO Module. Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches...)



# ACP 5



### Advanced Network Accessibility

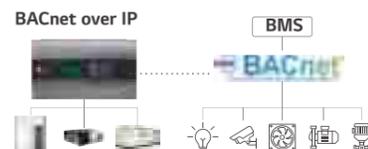


\* Fix Public IP is mandatory.  
\* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

### Energy Navigation



### BACnet IP & Modbus TCP



## PACP5A000

Advanced solution for BMS integration up to 256 units via BACnet and Modbus protocol as well as its own smart management function with web server interface.



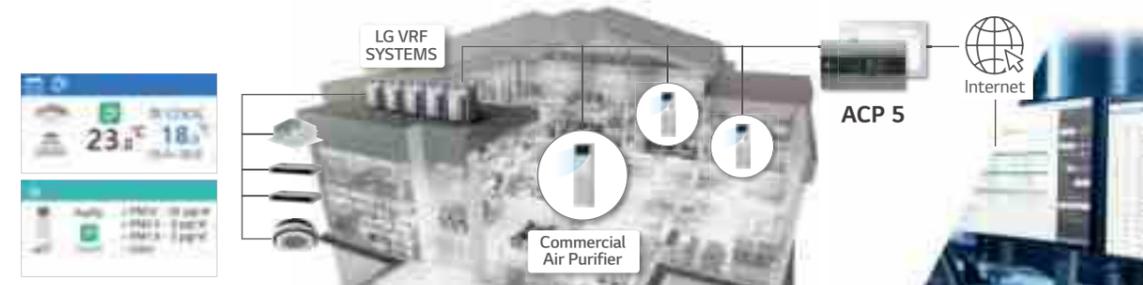
| MODEL NAME                                          | PACP5A000                                                                                                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size (W x H x D, mm)                                | 270 x 155 x 65                                                                                                                                                             |
| Interfaceable Products                              | MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller <sup>1)</sup> / Commercial Air Purifier                                                               |
| Maximum number of units                             | 256                                                                                                                                                                        |
| Individual / Group Control                          | On & Off / Mode / Temperature / Fan speed                                                                                                                                  |
| Individual Controller Lock                          | Temperature / Mode / Fan speed / All                                                                                                                                       |
| Advanced Function Setting and Display <sup>2)</sup> | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO <sub>2</sub> Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check                                         | ○                                                                                                                                                                          |
| Schedule                                            | Weekly / Monthly / Yearly / Exception day                                                                                                                                  |
| Web Access                                          | ○                                                                                                                                                                          |
| Emergency Stop & Alarm Display                      | ○                                                                                                                                                                          |
| Power Consumption Monitoring (with PDI)             | ○                                                                                                                                                                          |
| Auto Changeover / Setback                           | ○                                                                                                                                                                          |
| Temperature Limit                                   | ○                                                                                                                                                                          |
| Operation Time Limit                                | ○                                                                                                                                                                          |
| Visual Navigation                                   | ○                                                                                                                                                                          |
| Operation Trend                                     | ○                                                                                                                                                                          |
| Air Purify Control                                  | ○                                                                                                                                                                          |
| Air Quality Level                                   | ○                                                                                                                                                                          |
| Interlock Control                                   | ○                                                                                                                                                                          |
| Virtual Group Control                               | ○                                                                                                                                                                          |
| ODU Capacity Control                                | ○                                                                                                                                                                          |
| Energy Navigation (with PDI)                        | ○                                                                                                                                                                          |
| Daylight Saving Time                                | ○                                                                                                                                                                          |
| External IO Port                                    | DI 10 / DO 4                                                                                                                                                               |
| BMS Integration <sup>3)</sup>                       | BACnet IP / Modbus TCP                                                                                                                                                     |
| IPv6 Support                                        | ○                                                                                                                                                                          |

※ ○ : Applied, - : Not Applied  
 1) Chiller Option Kit (PCHLLN000) is required.  
 2) It is only available in some products.  
 3) For the detail point list, please refer to the installation manual.

### Air Purify Control / Monitoring

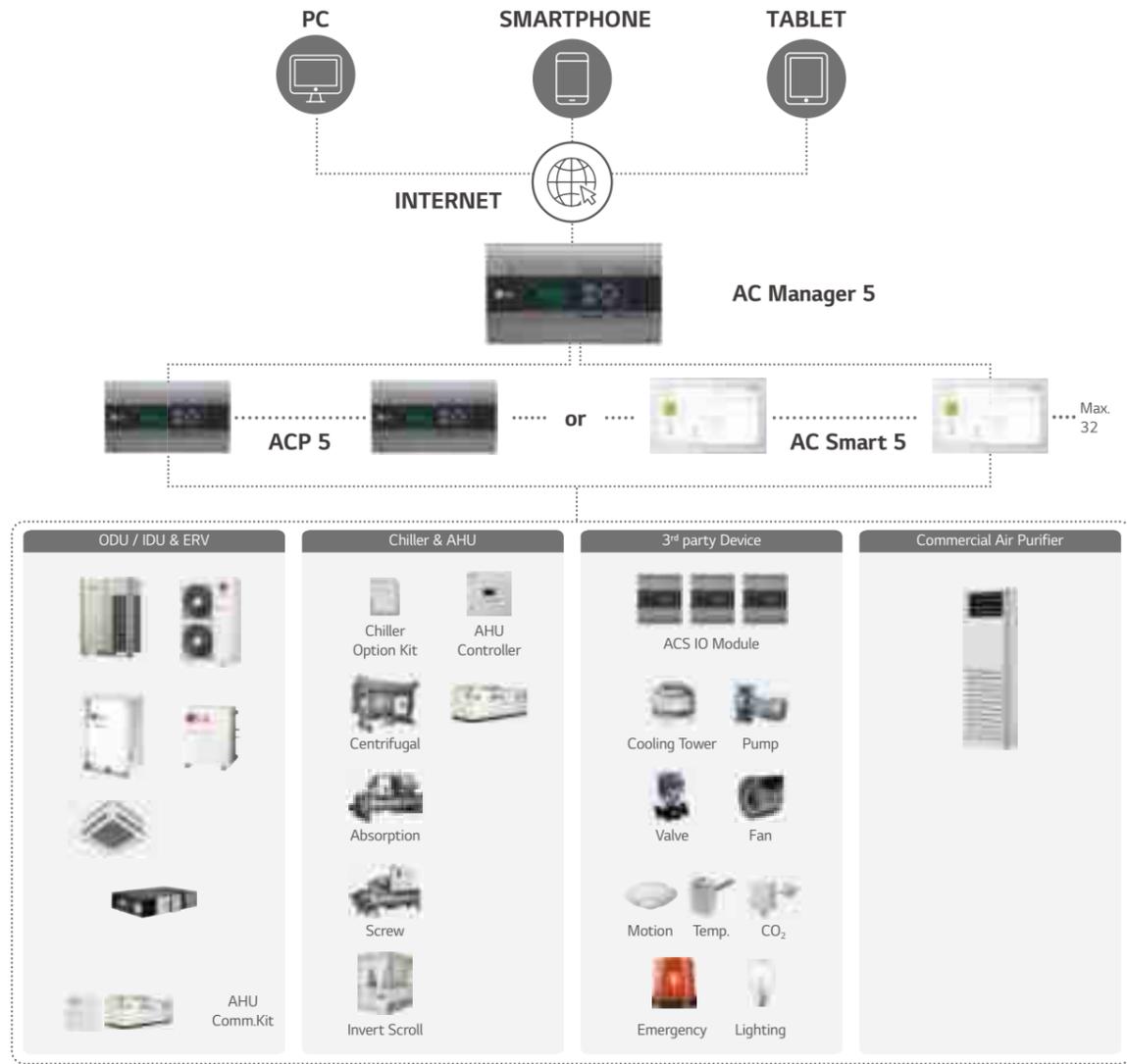
#### Integrated Management

The Commercial Air Purifier can be used with LG central controller to monitor and control.



# AC Manager 5

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.

## PACM5A000

Multiple ACP and AC Smart integration solution to manage multi sites up to 8,192 units as a single system.



| MODEL NAME                              | PACM5A000                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Size (W x H x D, mm)                    | 270 x 155 x 65                                                                                               |
| Interfaceable Products                  | MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller <sup>1)</sup> / Commercial Air Purifier |
| Maximum number of units                 | 8,192 (Supports 32 ACP 5 or AC Smart 5)                                                                      |
| Individual / Group Control              | On & Off / Mode / Temperature / Fan speed                                                                    |
| Individual Controller Lock              | Temperature / Mode / Fan speed / All                                                                         |
| Error Check                             | ○                                                                                                            |
| Schedule                                | Weekly / Monthly / Yearly / Exception day                                                                    |
| Web Access                              | ○                                                                                                            |
| Emergency Alarm Display                 | ○                                                                                                            |
| Power Consumption Monitoring (with PDI) | ○                                                                                                            |
| Auto Changeover / Setback               | ○                                                                                                            |
| Temperature Limit                       | ○                                                                                                            |
| Operation Time Limit                    | ○                                                                                                            |
| Visual Navigation                       | ○                                                                                                            |
| Operation Trend                         | ○                                                                                                            |
| Air Purify Control                      | ○                                                                                                            |
| Air Quality Level                       | ○                                                                                                            |
| Interlock Control                       | ○                                                                                                            |
| Virtual Group Control                   | ○                                                                                                            |
| ODU Capacity Control                    | ○                                                                                                            |
| Energy Navigation (with PDI)            | ○                                                                                                            |

※ ○ : Applied, - : Not Applied  
 1) Chiller Option Kit (PCHLLN000) is required for ACP 5 or AC Smart 5.  
 - Note : AC Manager 5 required for ACP 5 or AC Smart 5

### Up to 8,192 Connections for Indoor Units

Administrators can easily and conveniently manage a variety of LG HVAC equipment. Also, it is available to manage many buildings or areas at one place via AC Manager 5.



# AC Manager 5

## Smart Air Purify Solution

Total management of air purify function creates clean environment everyday.

### Air Quality Multi Status view



### Air Quality Summary Widget



- Average Value
- View by Device (Name, Air Quality value, Status)

### Air Purify Control



- Easy setting of Air Purify function (Set / Clear)

### View Air Quality Trends



- Daily (per hour), period (30 days) shows trends
- Excel output / easy to manage

## Advanced Network Accessibility & User Friendly GUI

As an advanced central controller, AC Manager 5 offers flexible interface for each user by assessing the device screen and automatically customizing the layout to provide the most optimized interface.



## Energy Navigation & Energy Usage Graph

Energy navigation is the function to set the target usage amount to limit the monthly power consumption and to control so that the total accumulated power consumption does not exceed the target usage amount. It performs total of 7 control levels with the estimated / actual usage amount exceeding ratio compared to the monthly target usage amount. For the control method, there are indoor unit operation ratio, outdoor unit capacity control, and indoor unit operation control.



Compressor Capacity Control



IDU Operation Ratio Control



IDU Operation Level

## Peak Control

This function can reduce electricity use. There are two kinds of control logic. Energy saving effect by indoor unit operation rate control. Load management effect by outdoor unit capacity control.

### Operation ratio (IDUs) Control



**Indoor unit Priority Control**  
gradually stop depending on importance of room.

### ODU Capacity Control



9 Step Operation Rate (%)  
[ 0, 40, 45, 50, 60, 70, 80, 90, 100 ]

Compressor Hz Control

## Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.



# ACP Lonworks

## PLNWKB000

Lonworks easily link LG Air conditioners and other existing building systems. By including ACP control function, the controlling continues even when error occurs with BMS.



### Features & Benefits

- Connect to use LonWorks protocol and LG Air conditioner protocol.
- Process ability (Max. connection) : Indoor unit 64EA, AHU Control Kit : Max. 16EA
- Self installation verification using internet (Web Server Included)
- Diagnosis of communication status on LG Air conditioner network
- It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.

| CONTROL                  | MONITORING                     |
|--------------------------|--------------------------------|
| On / Off Command         | On / Off                       |
| Operation Mode Setting   | Operation Mode                 |
| Lock                     | Lock                           |
| Temperature              | Temperature                    |
| Fan Level                | Fan Level                      |
| Fan Direction Auto       | Fan Direction Auto             |
| Mode Lock                | Mode Lock                      |
| Fan Level Lock           | Fan Level Lock                 |
| Temperature Lock         | Temperature Lock               |
| Temperature Lower Limit  | Temperature Lower Limit        |
| Temperature Higher Limit | Temperature Higher Limit       |
| Peak Convert Cycle       | Peak Convert Cycle             |
| Peak Setting             | Peak Setting                   |
| Temperature Unit         | Temperature Unit               |
| Total Temperature Lock   | -                              |
| Total On / Off           | -                              |
| Total Temperature        | -                              |
| -                        | Product Type                   |
| -                        | Product Address                |
| -                        | Current Temperature            |
| -                        | Alarm                          |
| -                        | Power                          |
| -                        | Error Code                     |
| -                        | Peak Current Operating Percent |
| -                        | Total Accumulate Power         |

※ ○ : Applied, - : Not Applied

# PI485

PI485 converts LG Air conditioners protocol to the RS485 protocol for the central controller.

## PMNFP14A1

Easy to manage up to 64 indoor units.



- Power : Single phase AC 220V 50 / 60Hz
- **1 for Each Outdoor Unit**
- Multi V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
- Single Split
- Multi Split

## PP485A00T

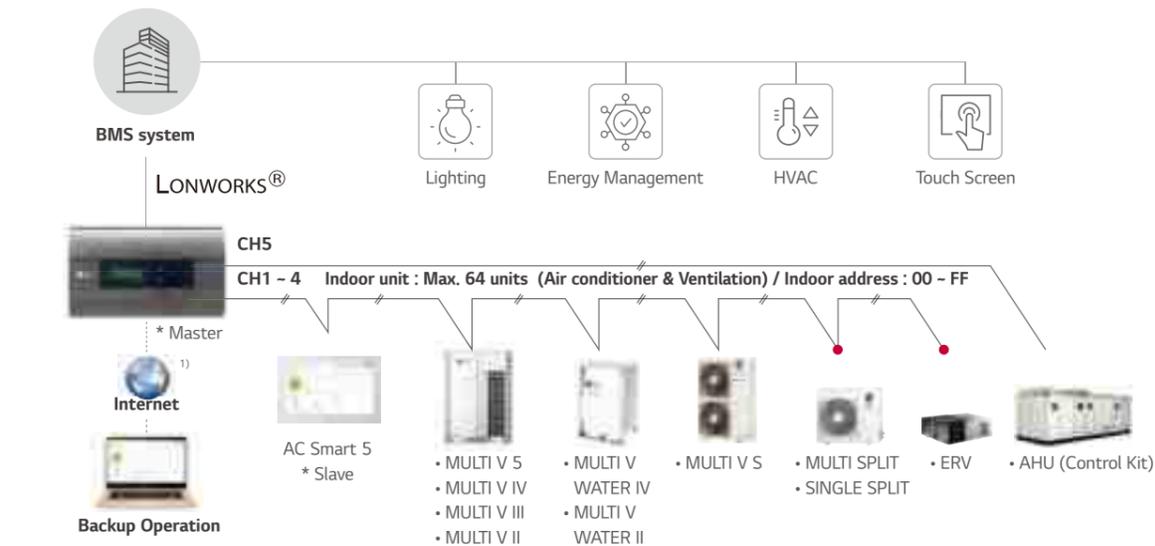


- Power : Single phase AC 220V 50 / 60 Hz
- **1 for Each Indoor Unit**
- Therma V

## PHNFP14A0



- Power : Connected with the Indoor Units
- **1 for Each Indoor Unit**
- Indoor Unit (ERV)



1) Assignment of public IP address is required to access central controller through internet. ● Appropriate PI485 should be used according to PDB (Product Data Book).

# MODBUS RTU Gateway

## PMBUS00A

Providing Modbus RTU connection between LG Air conditioners and BMS.



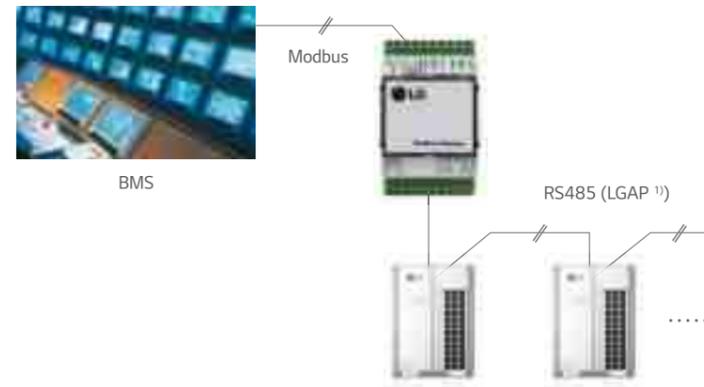
### Features & Benefits

- Function
- Modbus RTU communication with Modbus master controller
- Modbus RTU slave (RS485) / 9,600 bps
- Applicable for MULTI V 5, ERV, Heating
- Size (W x H x D, mm) : 53.6 x 89.7 x 60.7
- Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules
- Power : DC 12V (250mA)
- No slave allowed in LGAP

### Installation Scene

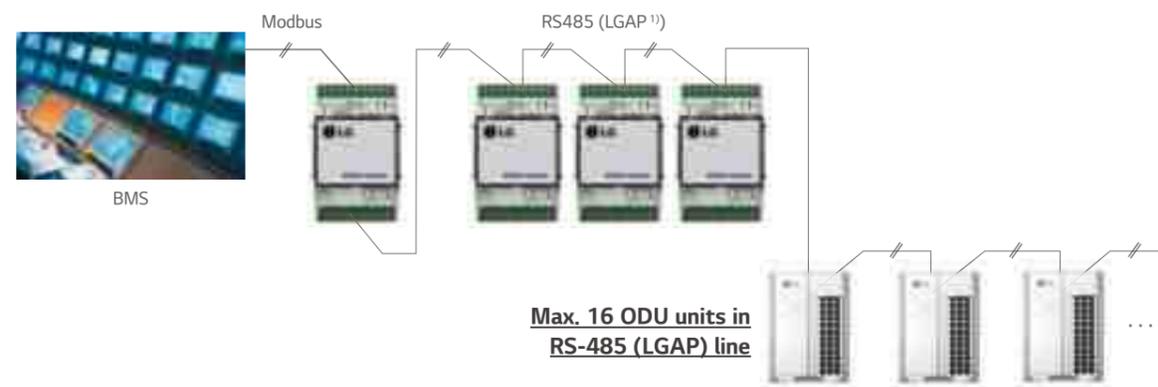
#### Single Module

Max. 16 indoor units with a single module



#### Multiple Module

Max. 64 indoor units with 4 modules in one Modbus communication line



**Max. 16 ODU units in RS-485 (LGAP) line**

1) LGAP is LG Protocol  
Max. 16 ODU units in RS-485

### Modbus Gateway Memory Map

Baud Rate : 9,600 bps, Stop Bit : 1 stop bit, Parity : None Parity, Byte size : 8 bits

#### Coil Register (0 x 01)

| NO. | DATA BIT               |                                    |                           | FUNCTION                       | REGISTER                                                   |
|-----|------------------------|------------------------------------|---------------------------|--------------------------------|------------------------------------------------------------|
|     | AIR CONDITIONER        | ERV / DX ERV                       | HYDR0 KIT & THERMA V      |                                |                                                            |
| 1   | Operate (On / Off)     | Operate (On / Off)                 | Operate (On / Off)        | 0 : Stop / 1 : Run             | Register = N X 16 + ①<br>(N = Indoor Unit Central Address) |
| 2   | Auto Swing             | Aircon Operate (On / Off)          | Hot Water Mode (On / Off) | 0 : Disable / 1 : Enable       |                                                            |
| 3   | Filter Alarm Release   | Filter Alarm Release <sup>1)</sup> | Reserved                  | 0 : Normal / 1 : Alarm Release |                                                            |
| 4   | Lock Remote Controller | Lock Remote Controller             | Lock Remote Controller    | 0 : UnLock / 1 : Lock          |                                                            |
| 5   | Lock Operate Mode      | Lock Operate Mode <sup>1)</sup>    | Reserved                  | 0 : UnLock / 1 : Lock          |                                                            |
| 6   | Lock Fan Speed         | Lock Fan Speed <sup>1)</sup>       | Reserved                  | 0 : UnLock / 1 : Lock          |                                                            |
| 7   | Lock Target Temp.      | Lock Target Temp. <sup>1)</sup>    | Reserved                  | 0 : UnLock / 1 : Lock          |                                                            |
| 8   | Lock IDU Address       | Lock IDU Address <sup>1)</sup>     | Reserved                  | 0 : UnLock / 1 : Lock          |                                                            |
| 9   | Reserved               | Quick Ventilate                    | Reserved                  | 0 : Disable / 1 : Enable       |                                                            |
| 10  | Reserved               | Energy Save                        | Reserved                  | 0 : Disable / 1 : Enable       |                                                            |

1) : This register value is applied 'DX Ventilator' ONLY.

#### Discrete Register (0 x 02)

| NO. | DATA BIT        |                            |                              | FUNCTION                                                                | REGISTER                                                   |
|-----|-----------------|----------------------------|------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|
|     | AIR CONDITIONER | ERV / DX ERV               | HYDR0 KIT & THERMA V         |                                                                         |                                                            |
| 1   | Connected IDU   | Connected IDU              | Connected IDU                | 0 : Disconnected / 1 : Connected                                        | Register = N X 16 + ①<br>(N = Indoor Unit Central Address) |
| 2   | Alarm           | Alarm                      | Alarm                        | 0 : Normal / 1 : Alarm                                                  |                                                            |
| 3   | Filter Alarm    | Filter Alarm <sup>1)</sup> | Hot Water Only <sup>2)</sup> | • 0 : Normal / 1 : Alarm Hydro Kit<br>• 0 : Normal / 1 : Hot Water Only |                                                            |
| 4   | Reserved        | Reserved                   | Target Temp. Select          | 0 : Air / 1 : Water                                                     |                                                            |
| 5   | Reserved        | Reserved                   | Error Division <sup>2)</sup> | 0 : CH type error / 1 : BC type error                                   |                                                            |

1) : This register value is applied 'DX Ventilator' ONLY.

2) : This register value is applied 'Hydro Kit' ONLY.

#### Holding Register (0 x 03)

| NO. | DATA BIT                   |                                          |                                | FUNCTION                                                                                                                                                                | REGISTER                                                   |
|-----|----------------------------|------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|     | AIR CONDITIONER            | ERV / DX ERV                             | HYDR0 KIT & THERMA V           |                                                                                                                                                                         |                                                            |
| 1   | Operate Mode               | Operate Mode                             | Operate Mode                   | • 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP<br>• 0 : Cooling, 3 : Auto, 4 : Heating Hydro Kit (High Temp. DHW) | Register = N X 20 + ①<br>(N = Indoor Unit Central Address) |
| 2   | Fan Speed                  | Fan Speed                                | Target Temp. DHW <sup>2)</sup> | 1 : Low, 2 : Mid, 3 : High, 4 : Auto                                                                                                                                    |                                                            |
| 3   | Target Temp.               | Target Temp. <sup>1)</sup>               | Target Temp. <sup>2)</sup>     | 16.0 ~ 30.0 [°C] x 10                                                                                                                                                   |                                                            |
| 4   | Target Temp. Limit (Upper) | Target Temp. Limit <sup>1)</sup> (Upper) | Reserved                       | 16.0 ~ 30.0 [°C] x 10                                                                                                                                                   |                                                            |
| 5   | Target Temp. Limit (Lower) | Target Temp. Limit <sup>1)</sup> (Lower) | Reserved                       | 16.0 ~ 30.0 [°C] x 10                                                                                                                                                   |                                                            |
| 6   | Reserved                   | Vent. Operate Mode                       | Reserved                       | 0 : HEX, 1 : Auto, 2 : Normal                                                                                                                                           |                                                            |

1) : This register value is applied 'DX Ventilator' ONLY.

2) : This value range can be between 0 ~ 127 [°C]. And it would be limited by upper & lower value according to the setting of remote controller.

#### Input Register (0 x 04)

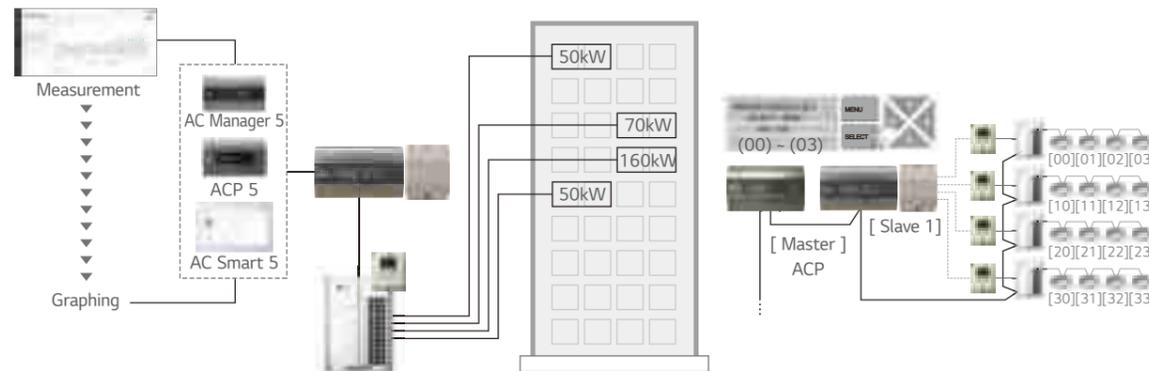
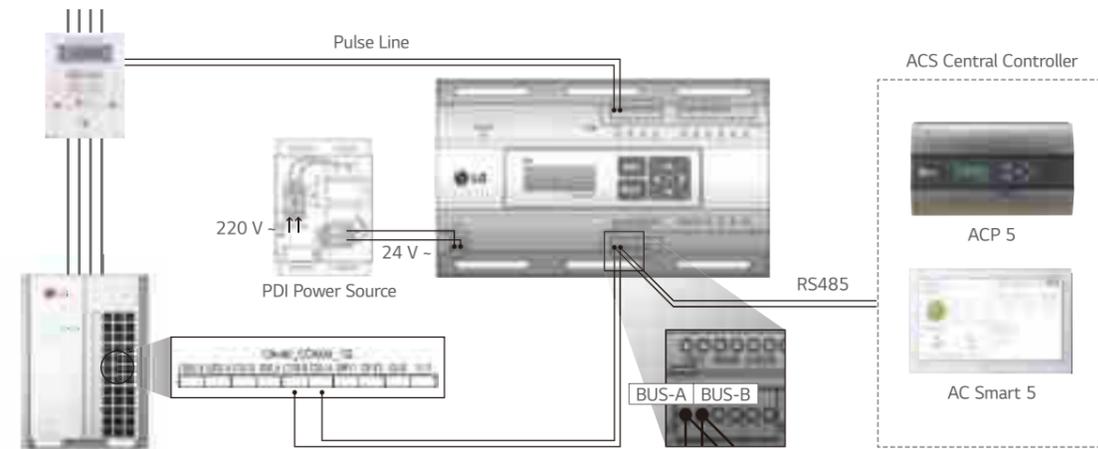
| NO. | DATA BIT        |                              |                           | FUNCTION                                              | REGISTER                                                   |
|-----|-----------------|------------------------------|---------------------------|-------------------------------------------------------|------------------------------------------------------------|
|     | AIR CONDITIONER | ERV / DX ERV                 | HYDR0 KIT & THERMA V      |                                                       |                                                            |
| 1   | Error Code      | Error Code                   | Error Code                | 0 ~ 255<br>※ Please refer to the product error table. | Register = N X 20 + ①<br>(N = Indoor Unit Central Address) |
| 2   | Room Temp.      | RA Temp.                     | Room Temp.                | -99.0 ~ 99.0 [°C] x 10                                |                                                            |
| 3   | Pipe In Temp.   | OA Temp. <sup>1)</sup>       | Water Inlet Temp.         | -99.0 ~ 99.0 [°C] x 10                                |                                                            |
| 4   | Pipe Out Temp.  | SA Temp. <sup>1)</sup>       | Water Outlet Temp.        | -99.0 ~ 99.0 [°C] x 10                                |                                                            |
| 5   | Reserved        | Pipe In Temp. <sup>1)</sup>  | Sanitary Tank Temp.       | -99.0 ~ 99.0 [°C] x 10                                |                                                            |
| 6   | Reserved        | Pipe Out Temp. <sup>1)</sup> | Solar Temp. <sup>2)</sup> | -99.0 ~ 99.0 [°C] x 10                                |                                                            |

1) : This register value is applied 'DX Ventilator' ONLY.

2) : This register value is applied 'AWHP' ONLY.





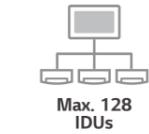


Note:  
 1. Power cable and type could be different from this scene depending on the Outdoor unit's specification.  
 2. Measured power consumption could be different between PDI and Watt meter.  
 3. Applicable Central Controller: ACP 5, ACP LonWorks, AC Smart 5, AC Ez Touch  
 (Combination: we recommend to connect separated watt meter for Outdoor units to have correct power distribution value)

## PDI (Power Distribution Indicator)

PQNUD1S40 (Premium, 8 ports) / PPWRDB000 (Standard, 2 ports)

PDI shows distributed power consumption of up to 128 indoor units.



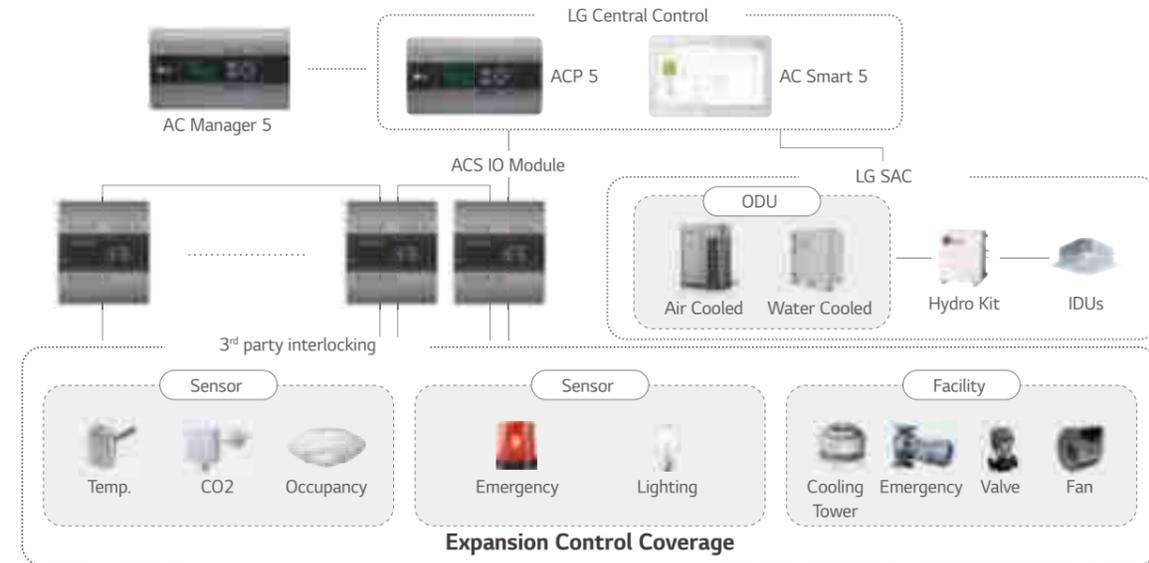
### Features & Benefits

- Enables total and indoor power consumption monitoring.
- With LG central control connectivity, energy monitoring, energy savings operations and target usage setting functions are enabled.
- Enables gas consumption and electricity distribution.

| MODEL NAME                     | PQNUD1S40                                              | PPWRDB000                                              |
|--------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Size (W x H x D, mm)           | 270 x 155 x 65                                         |                                                        |
| Interfaceable Products         | Air conditioner, ERV DX, Hydro kit, Thermal V          |                                                        |
| Maximum Number of Power Meters | EHP : 8 Watt meter<br>GHP : 4 Watt meter / 4 Gas meter | EHP : 2 Watt meter<br>GHP : 1 Watt meter / 1 Gas meter |
| Maximum Number of Indoor Units | EHP : 128<br>GHP : 64                                  |                                                        |
| Data Backup When Power Outage  | ○                                                      |                                                        |
| Power Input                    | PDI : AC 24V, Transformer : AC 220V                    |                                                        |

※ ○ : Applied, - : Not Applied

## ACS IO Module

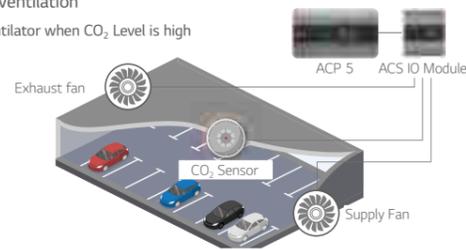


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output

### Case. 1

#### Parking Lot Ventilation

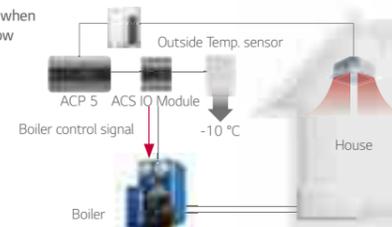
Turning on ventilator when CO<sub>2</sub> Level is high



### Case. 1

#### Auxiliary Heater

Turning on aux. heater when outside temp. is very low



## PEXPMB000

This module can be connected with ACP 5 or AC Smart 5 controller if additional I / O points such as DI / DO and AI / AO for 3rd party devices control and monitoring are needed.



### Features & Benefits

- Interlocking with 3<sup>rd</sup> party equipment, LG Central controller can make operation scenario with 3<sup>rd</sup> party equipment by ACS IO Module.
- Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : AC 24V (60Hz / 500mA)

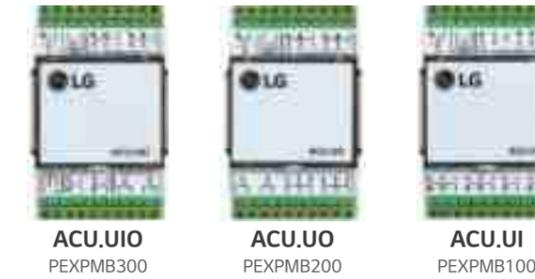
| MODEL NAME        |                               | PEXPMB000            |                   |
|-------------------|-------------------------------|----------------------|-------------------|
| Linkable Products |                               | PACSSA000, PACPSA000 |                   |
| Communication     |                               | RS-485               |                   |
|                   |                               | 1 ch                 |                   |
| I / O             | Digital Input                 | 3 ports              |                   |
|                   | Digital Output                | 3 ports              |                   |
|                   | Universal Input <sup>1)</sup> | 4 ports              |                   |
|                   | Analog Output                 | 4 ports              |                   |
| VALUE SPEC        |                               | MIN.                 | MAX.              |
| Analog Input      | NTC 10k                       | 0.68kΩ               | 177kΩ             |
|                   | PT 1000                       | 803Ω                 | 1,573Ω            |
|                   | Ni 1000                       | 871.7Ω               | 1,675.2Ω          |
|                   | DC (Voltage)                  | 0V                   | 10V               |
|                   | DC (Current)                  | 0mA                  | 20mA              |
| Analog Output     | -                             | 0V                   | 10V               |
| Digital Input     | Binary Input (Non Voltage)    | -                    | -                 |
| Digital Output    | Normal open                   | -                    | 30VAC / 30VDC, 2A |

※ ○ : Applied, - : Not Applied  
 1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.  
 Note: ACS IO & ACU IO are not a replacement for Direct Digital Controller(DDC) or PLC.

## ACU IO Module

### PEXPMB300, PEXPMB200, PEXPMB100

This module can be connected with ACP 5 or AC Smart 5 controller if additional I / O points such as UIO / UI / UO for 3<sup>rd</sup> party devices control and monitoring are needed.



### Features & Benefits

- Interlocking with 3<sup>rd</sup> party equipment LG Central controller can make operation scenario with 3<sup>rd</sup> party equipment by ACU IO Module.
- Applicable devices are expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : 12VDC / 250mA (External Power)

| MODULE NAME                   | PEXPMB300            | PEXPMB200 | PEXPMB100 |
|-------------------------------|----------------------|-----------|-----------|
| Linkable Products             | PACSSA000, PACPSA000 |           |           |
| Communication RS-485          | 1 ch                 | 1 ch      | 1 ch      |
| Digital Input                 | -                    | -         | 3 ports   |
| Digital Output                | 2 ports              | 6 ports   | -         |
| Universal Input <sup>1)</sup> | 4 ports              | -         | 6 ports   |
| Analog Output                 | 2 ports              | 4 ports   | -         |

| VALUE SPEC     |                            | MIN. | MAX.      |
|----------------|----------------------------|------|-----------|
| Analog Input   | DC (Voltage)               | 0V   | 10V       |
| Analog Output  | DC (Voltage)               | 0V   | 10V       |
| Digital Input  | Binary Input (Non Voltage) | -    | -         |
| Digital Output | Normal Open                | -    | 30VDC, 1A |

※ ○ : Applied, - : Not Applied  
 1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

## Chiller Option Kit

### PCHLLN000

LG central controller 5 series with Chiller Option Kit can provide LG chiller remote control and cycle monitoring.



| MODEL NAME             | PCHLLN000                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring Points      | Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) / Condenser status / Generator status (Abs. chiller only) |
| On / Off               | ○                                                                                                                                         |
| Target Temp. setting   | ○                                                                                                                                         |
| Mode                   | Scroll chiller only                                                                                                                       |
| Schedule               | ○                                                                                                                                         |
| Interfaceable Products | Scroll, Screw, Centrifugal, Absorption (LG Only)                                                                                          |

※ ○ : Applied, - : Not Applied

### Installation Scene

- Chiller Option Kit installation of ACP, AC Smart should be conducted by a specialized installation service engineer.
- Chiller Option Kit installation can be achieved with a SD Card.
- The SD Card can install Chiller Option Kit in one ACP, AC Smart. Insert the SD Card in the ACP, AC Smart. If a backup SD Card is inserted, replace it with a Chiller Option Kit SD Card.

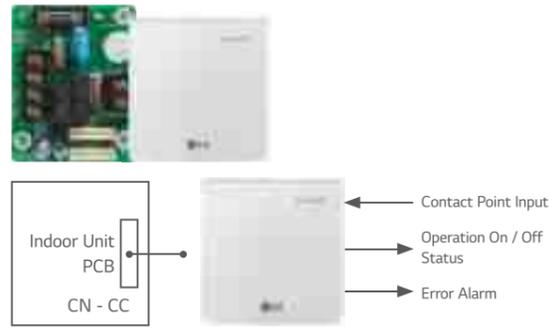


### Cycle Display Example



# DRY CONTACT

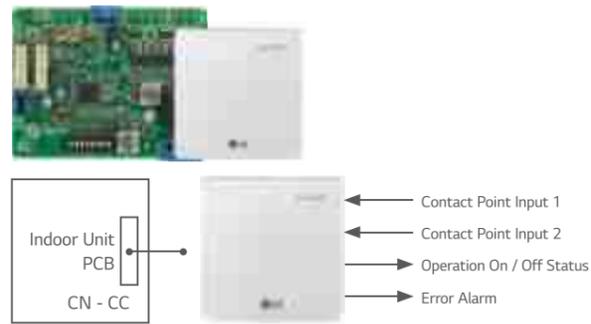
## PDRYCB000



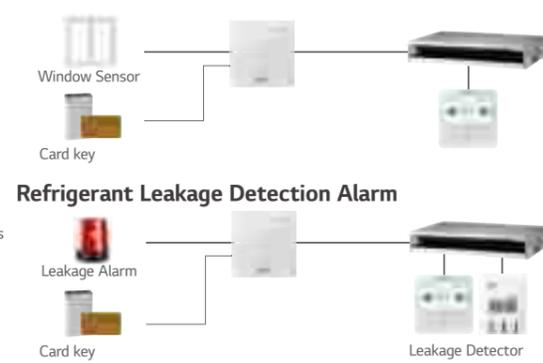
### Simple Dry Contact (1 input)



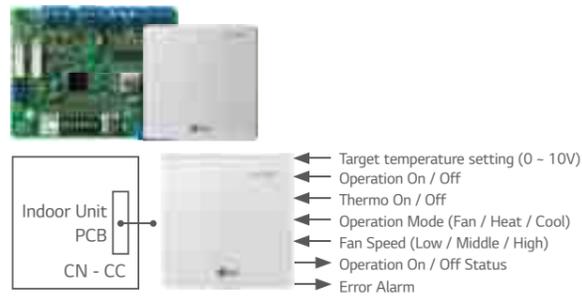
## PDRYCB400



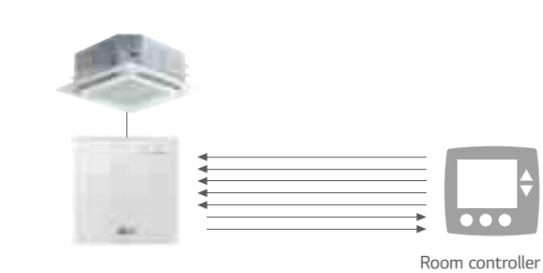
### Dry Contact for 2 Input



## PDRYCB320

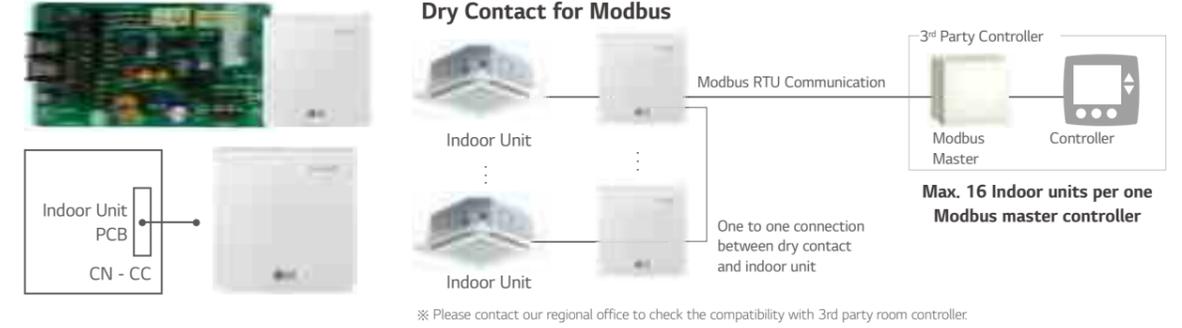


### Dry Contact for Thermostat



※ Please contact our regional office to have full compatible room controller list.

## PDRYCB500



## Specification

Connection between an indoor unit and external devices to control various functions.

| MODEL NAME           |                  | PDRYCB000    | PDRYCB400                                   | PDRYCB320      | PDRYCB500  |   |
|----------------------|------------------|--------------|---------------------------------------------|----------------|------------|---|
|                      |                  |              |                                             |                |            |   |
| Case                 |                  | ○            | ○                                           | ○              | ○          |   |
| Input Port           |                  | 1            | 2                                           | 8              | -          |   |
| Universal Input port |                  | -            | -                                           | 1              | -          |   |
| Comm. Protocol       |                  | -            | -                                           | -              | Modbus RTU |   |
| Power                |                  | AC 220V      | Connect to Indoor unit PCB (CN_CC) : DC 12V |                |            |   |
| IDU                  | On / Off         | ○            | ○                                           | ○              | ○          |   |
|                      | Operation Mode   | -            | ○                                           | ○              | ○          |   |
|                      | Set Temp.        | -            | (Select & Fix)                              | (Select & Fix) | ○          |   |
|                      | Fan Speed        | -            | -                                           | ○              | ○          |   |
|                      | Thermo-Off       | -            | (Select & Fix)                              | ○              | -          |   |
|                      | Energy Saving    | -            | (Select & Fix)                              | -              | -          |   |
|                      | Lock / Unlock    | -            | (Select & Fix)                              | -              | -          |   |
|                      | Control          | On / Off     | ○                                           | -              | ○          | - |
|                      |                  | DHW On / Off | -                                           | -              | ○          | - |
|                      |                  | Heating      |                                             |                |            |   |
| Thermo-Off           |                  | -            | -                                           | ○              | -          |   |
| Operation Mode       |                  | -            | -                                           | ○              | -          |   |
| ERV                  | Silent Mode      | -            | -                                           | ○              | -          |   |
|                      | Emergency Mode   | -            | -                                           | ○              | -          |   |
|                      | On / Off         | ○            | -                                           | -              | ○          |   |
|                      | Operation Mode   | -            | -                                           | -              | ○          |   |
|                      | Aircon Mode      | -            | -                                           | -              | ○          |   |
| Output               | Additional Mode  | -            | -                                           | -              | ○          |   |
|                      | Fan Speed        | -            | -                                           | -              | ○          |   |
|                      | Operation Status | ○            | ○                                           | ○              | ○          |   |
|                      | Error            | ○            | ○                                           | ○              | ○          |   |
|                      | Room Temp.       | -            | -                                           | -              | ○          |   |

※ ○ : Applied, - : Not Applied  
Note :

- Compatibility of PDRYCB320
  - Can use with all types of aircon indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
  - Can use with new single package AK-W model after 2020. 1Q (The previous version Single package is not compatible)
  - Heating : 3 series AWHP split and Monobloc models 4 generation Hydro Kit

- Compatibility of PDRYCB400
  - Can use with all types of air conditioner indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
  - Can use with new single package AK-W model after 2020. 1Q (The previous version Single package is not compatible)
  - Can not use with AWHP, Hydro Kit models.
- (Select & Fix) : This function is preset by rotary switch.

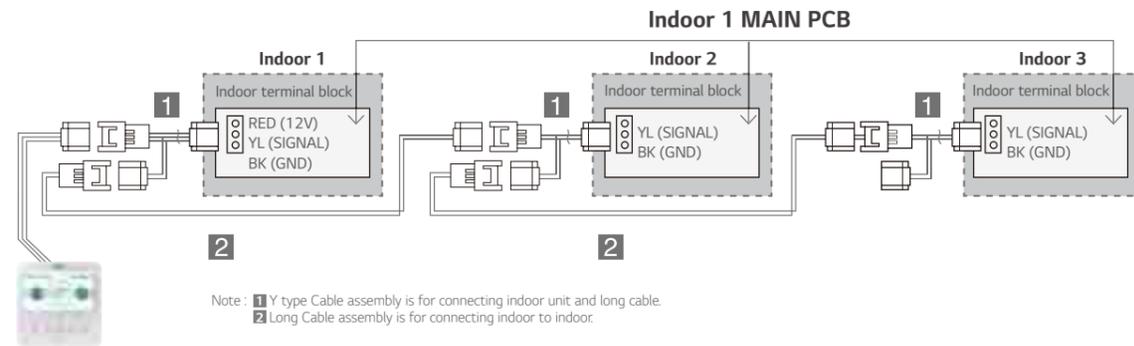
## Group Control Wire

PZCWRCG3



| MODEL NAME     | PZCWRCG3     |
|----------------|--------------|
| 1 Y-type Cable | 0.25m Length |
| 2 Long Cable   | 9.6m Length  |

### Installation Scene



## Remote Temperature Sensor

PQRSTAO

Sensor for detecting the room temperature.

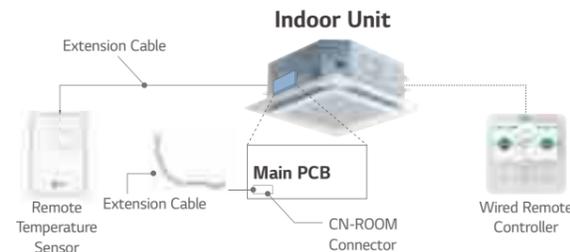


### Features & Benefits

- It detects the exact room temperature instead of indoor unit's air temperature sensor.
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, THERMA V and Hydro Kit.
- Extension cable (15m) is included.

### Installation Scene

1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



## Zone Controller

ABZCA

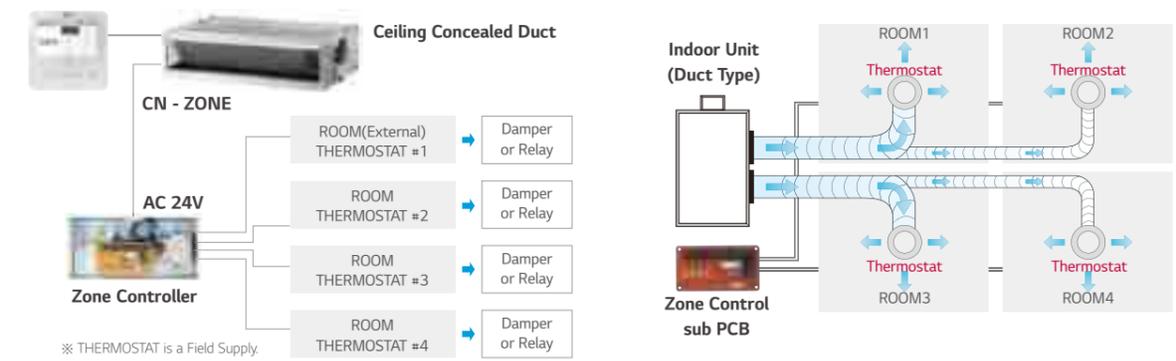
Controls air conditioning in up to 4 zones by external thermostat.



### Features & Benefits

- Controls different zones (up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

### Installation Scene



## IO Module

PVDSMN000

Interface module between the outdoor unit of system air conditioner and the external device.



### Features & Benefits

- Function
- Demand control
  - Low noise operation
  - Output outdoor or indoor unit operation status
  - Output error status

### Description

- IO Module is communication interface module for connection between MULTI V 5 and external IO (Input / Output Module) devices.

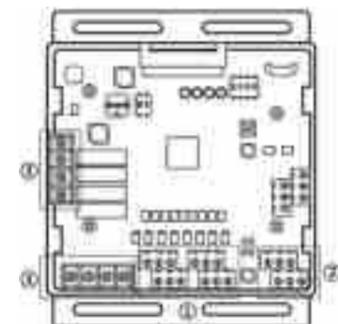
### Models Applied

- MULTI V IV, 5
- MULTI V WATER IV
- MULTI V S

Note : IO Module is not compatible for Multi V III and Multi V S R32.

### Part Description

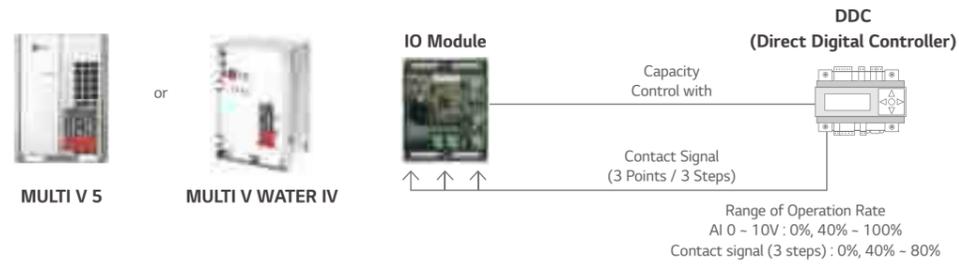
- 1) Digital Input Part (DI : Dry Contact Input)
  - Demand control by contact input (3 Step)
  - Low Noise Operation input
  - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
    - Open : External signal has priority to central controller (Default)
    - Close : Central controller has priority to external signal
- 2) Analog Input Part (AI : DC 0 ~ 10V)
  - Demand control by analog input (10 Step)
- 3) Digital Output Part (DO : AC 250V, Max. 1A)
  - Error status relay output
  - Operation status relay output
  - Valve control



## IO Module

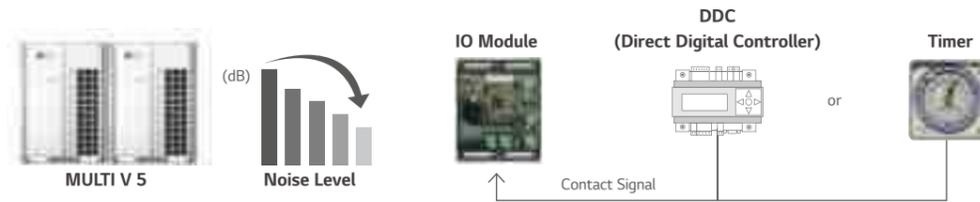
### ODU Capacity Control

Provides variable settings for ODU Capacity Control according to input method to reduce the power consumption. IO Module supports 2 types of input signal : Analog Inputs (0 - 10V, 10 steps) and contact signals (3 steps)



### Low Noise Operation

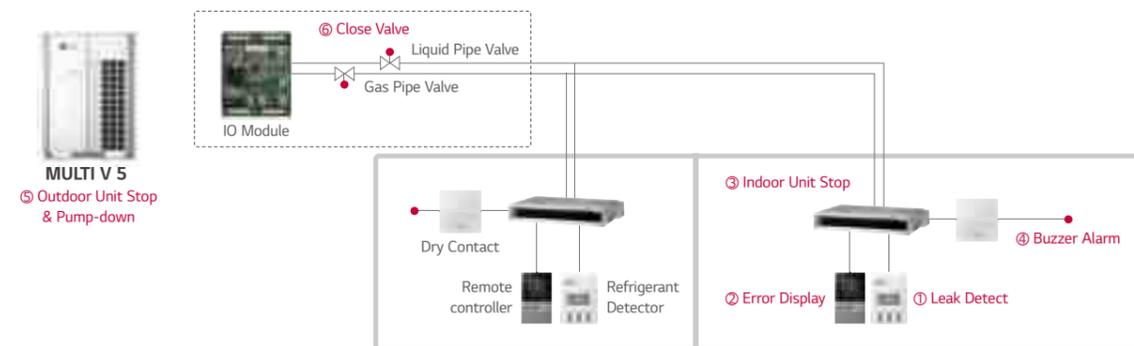
To reduce noise level, control outdoor unit's fan speed by dry contact input.



※ 8 HP (22.4kW) model, Sound power level can be changed by outdoor unit operation status and low noise operation input signal.

### Refrigerant Leakage Detection with Pump-down

For safety, IO module closes refrigerant valve during Pump-down operation.



※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence which written in red, 1-6)

## Variable Water Flow Control Kit

### PWFCKN000 (MULTI V WATER IV)

Accessory for controlling the water flow.



#### Features

##### Function

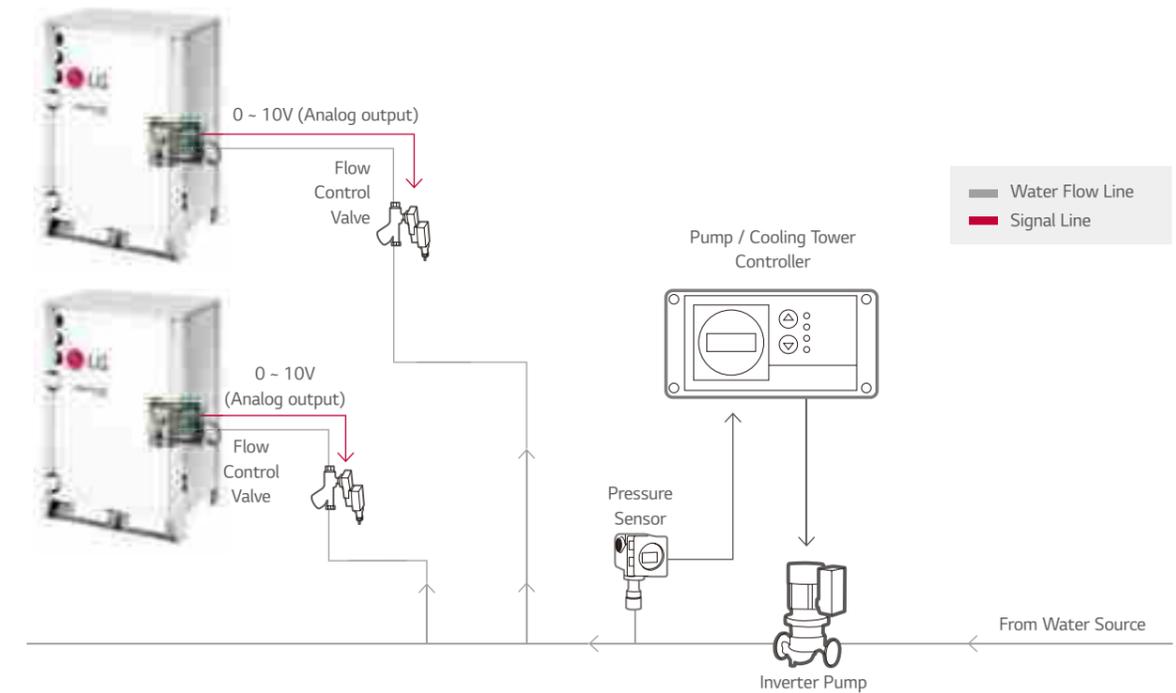
- Water pump or valve control (0 - 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

##### Description

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input / output, Digital output)
- Using Dry contact and variable water flow control function simultaneously.

### Installation Scene

- Flow Control Valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube. (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
- Pressure Sensor : Measures the pressure.



## Low Ambient Kit

### PRVC2

External integration module for cooling operation with -25 °C low ambient temperature.



#### Features

##### Function

- 25 °C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V)
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (AC 250V, Max. 1A)
- Output error status (AC 250V, Max. 1A)

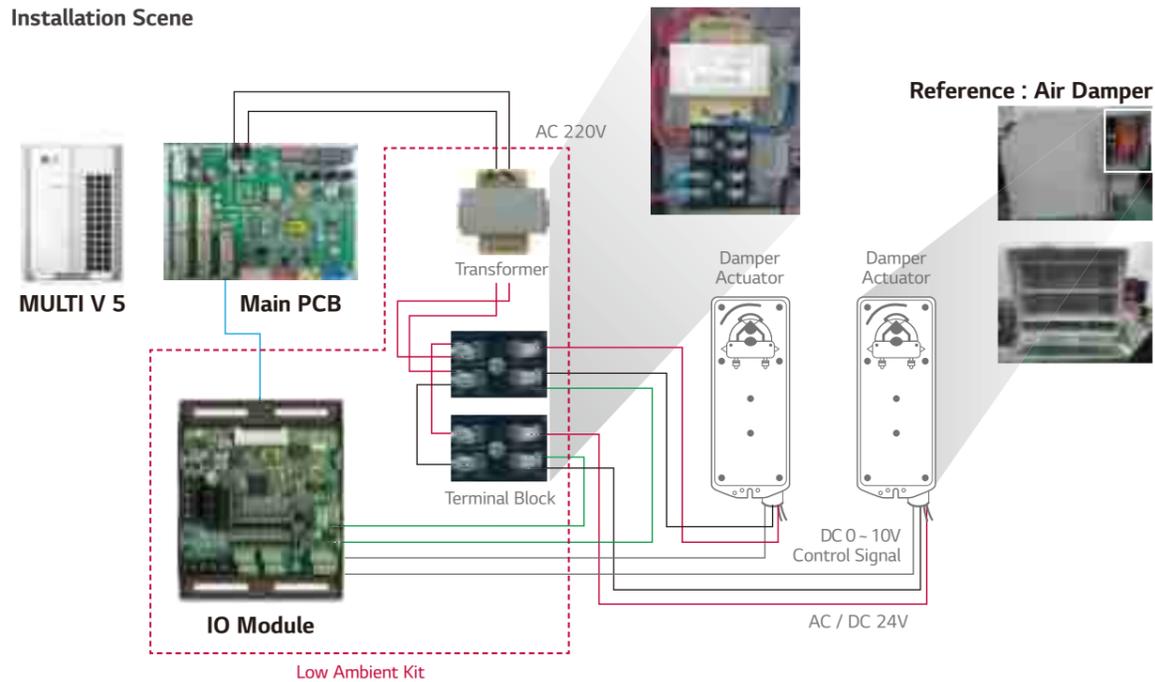
##### Description

- Low ambient kit supports -25 °C cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0 ~ 10V proportional to condensing pressure.
- Low ambient kit provides IO Module function.
- External snow hood and air damper are required for this item.
- Transformer and terminal block are included.

#### Models Applied

- MULTI V 5

#### Installation Scene



- Note
- Damper Actuator can accept only DC 24V power input.
  - Do not input AC power. Otherwise it will cause a serious damage.
  - The IO Module can control maximum three actuators.
  - Case of one valve, the slave signal connector must not use.
  - The power (AC / DC 24V) and signal (DC 0 ~ 10V) line is recommended by AWG22 (1/32 in, (0.644 mm), 0.016 Ω / ft (0.053 Ω / m)).

## Cool / Heat Selector

### PRDSBM

Cooling only, heating only, and fan mode can be selected.



#### Features

- Indoor unit mode control without central controller.
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season.

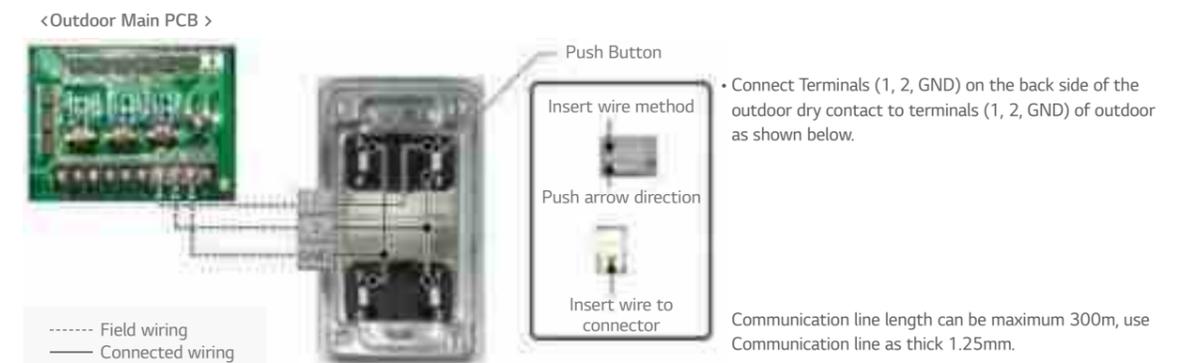
#### Models Applied

- MULTI V 5
- MULTI V IV
- MULTI V WATER S
- MULTI V WATER II
- MULTI V S
- MULTI V PLUS II, MULTI V PLUS
- MULTI V WATER IV

Note : Cool / Heat Selector is not compatible for Multi V S R32.



#### Installation Scene



# AHU Kit

A solution to connect LG's high efficiency system to the DX coil of an air handling unit for maximum energy savings.

## COMMUNICATION KIT

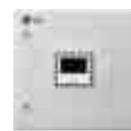


PAHCMR000



PAHCMS000

## CONTROL KIT



PAHCNM000

## EEV KIT



PRLK048A0  
PRLK096A0

## CONTROLLER MODULE



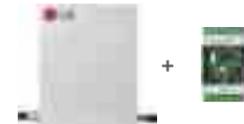
PAHCMM000



PAHCMC000



PRLK396A0



PRLK594A0

## Specification

### Control Application Kit

| TYPE              | MODEL     | DIMENSIONS (MM) |     |     | POWER SUPPLY                | IP RATING | DESCRIPTION                                                                                     |
|-------------------|-----------|-----------------|-----|-----|-----------------------------|-----------|-------------------------------------------------------------------------------------------------|
|                   |           | W               | H   | D   |                             |           |                                                                                                 |
| Communication Kit | PAHCMR000 | 300             | 300 | 155 | 1Ø, 220 ~ 240 V, 50 / 60 Hz | IP66      | Return / Room air temperature control by DDC or LG individual / centralized controller.         |
|                   | PAHCMS000 | 380             | 300 | 155 | 1Ø, 220 ~ 240 V, 50 / 60 Hz | IP66      | Discharge air / Supply air temperature control by DDC or LG individual / centralized controller |
| Controller Module | PAHCMM000 | 162             | 90  | 61  | DC 12V                      | IP20      | Main Controller module                                                                          |
|                   | PAHCMC000 | 108             | 90  | 61  | DC 12V                      | IP20      | Communication Controller module                                                                 |
| Control Kit       | PAHCNM000 | 500             | 500 | 210 | 1Ø, 220 ~ 240 V, 50 / 60 Hz |           | Various AHU control functions with multiple DX coils (Maximum connectable ODU is 3 units)       |

### Expansion Application Kit

| TYPE    | MODEL     | DIMENSIONS (MM) |       |     | PIPE DIAMETER (MM) |  | CAPACITY INDEX RANGE |
|---------|-----------|-----------------|-------|-----|--------------------|--|----------------------|
|         |           | W               | H     | D   | LIQUID             |  |                      |
| EEV Kit | PRLK048A0 | 217             | 404   | 83  | 12.7               |  | 3.6 ~ 28 kW          |
|         | PRLK096A0 | 217             | 404   | 83  | 12.7               |  | 28.1 ~ 56 kW         |
|         | PRLK396A0 | 349.5           | 345.5 | 180 | 19.05              |  | 56.1 ~ 112 kW        |
|         | PRLK594A0 | 409.5           | 345.5 | 180 | 19.05              |  | 112.1 ~ 168 kW       |

## Communication Kit

### High Energy Efficiency

LG's DX AHU solutions' superior performance provides a highly efficient heat source system.

- High energy efficiency inverter system
- Large range of expansion application Kit : Max. 168 kW EEV Kit 1)
- Connected to various heat sources : MULTI V, MULTI V WATER, MULTI V S, SINGLE SPLIT

1) Maximum connectable EEV capacity for PAHCMR000, PAHCMC000 is 112 kW.



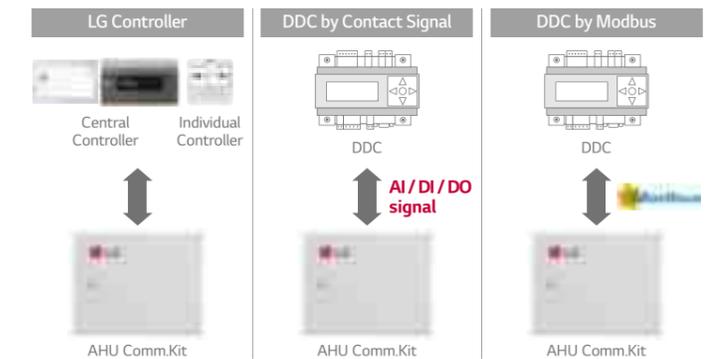
### Diverse Options for Control

AHU communication kit can be connected to various control systems such as LG individual / central controller and DDC.<sup>1)</sup>

It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

- LG Individual / Central controller supported
  - LG controller stand alone or combination with DDC
- Direct wiring between DDC and AHU communication kit
  - Embedded Digital I / O and Analog Input
  - Modbus RTU protocol supported

1) DDC : Direct Digital Controller



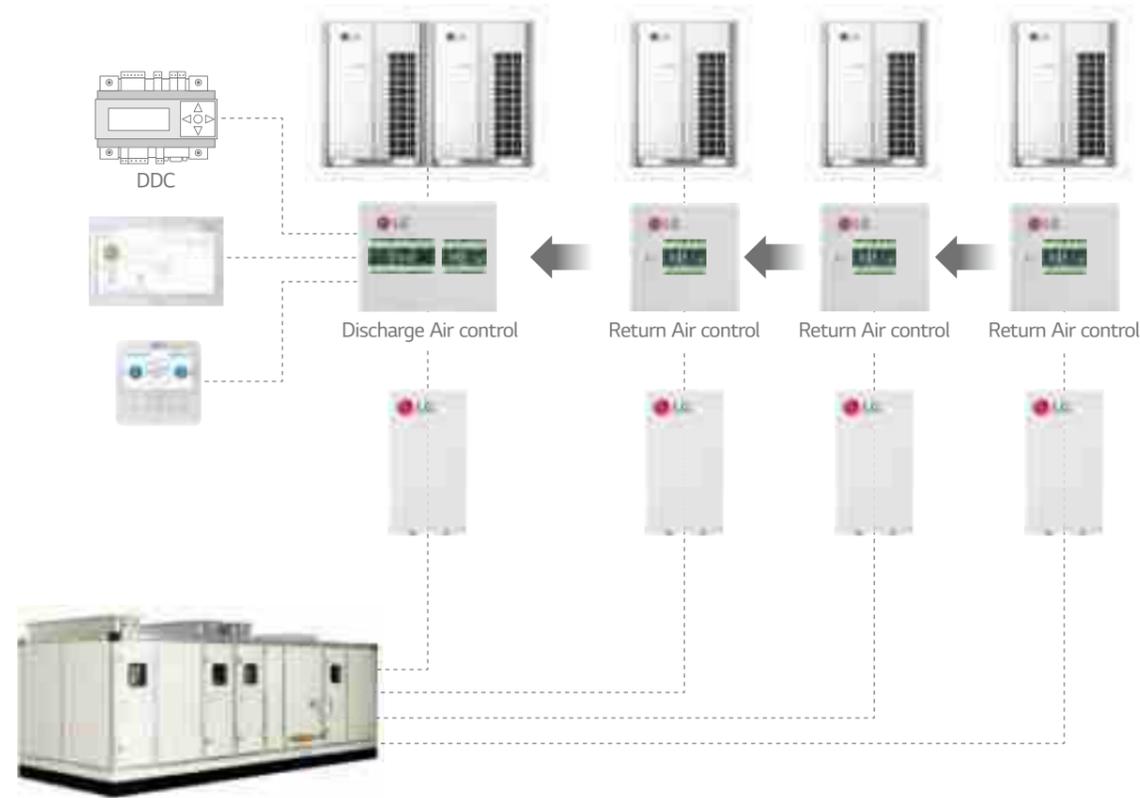
# AHU Kit

## Communication Kit

### Expandable System Design

LG AHU system can be a suitable solution for various sites due to its application flexibility and wide range of line up with large capacity models. According to the required capacity, a single or multiple module combination is possible due to the AHU communication kit's modular design.

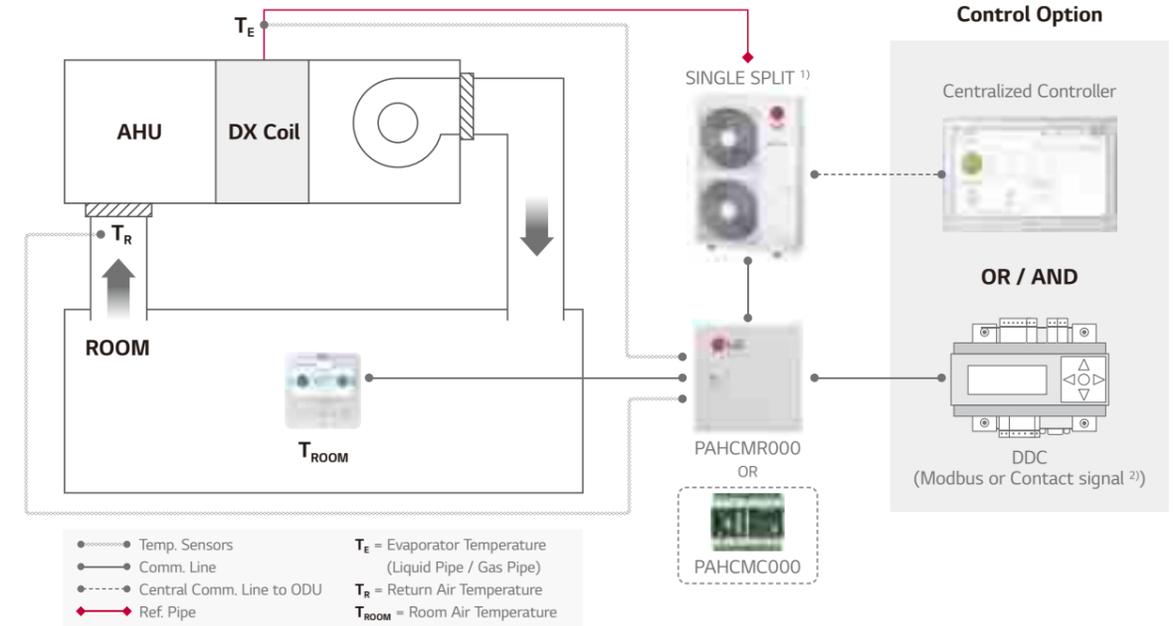
- Multiple module combination for large capacity AHU



## Communication Kit & Controller Module

### Single Split Application

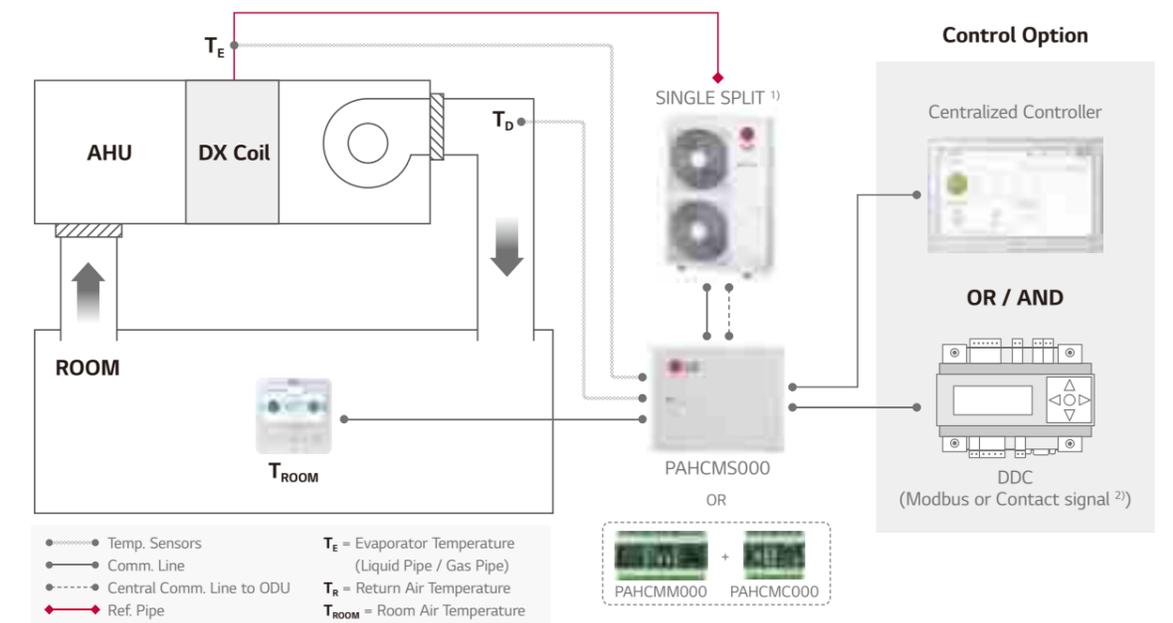
Single Split + Return / Room Air Temperature Control



1) PI485 (PMNFP14A1) is required for centralized controller.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 Note : For more detail, please refer to the PDB.

### Single Split Application

Single Split + Discharge Air Temperature Control



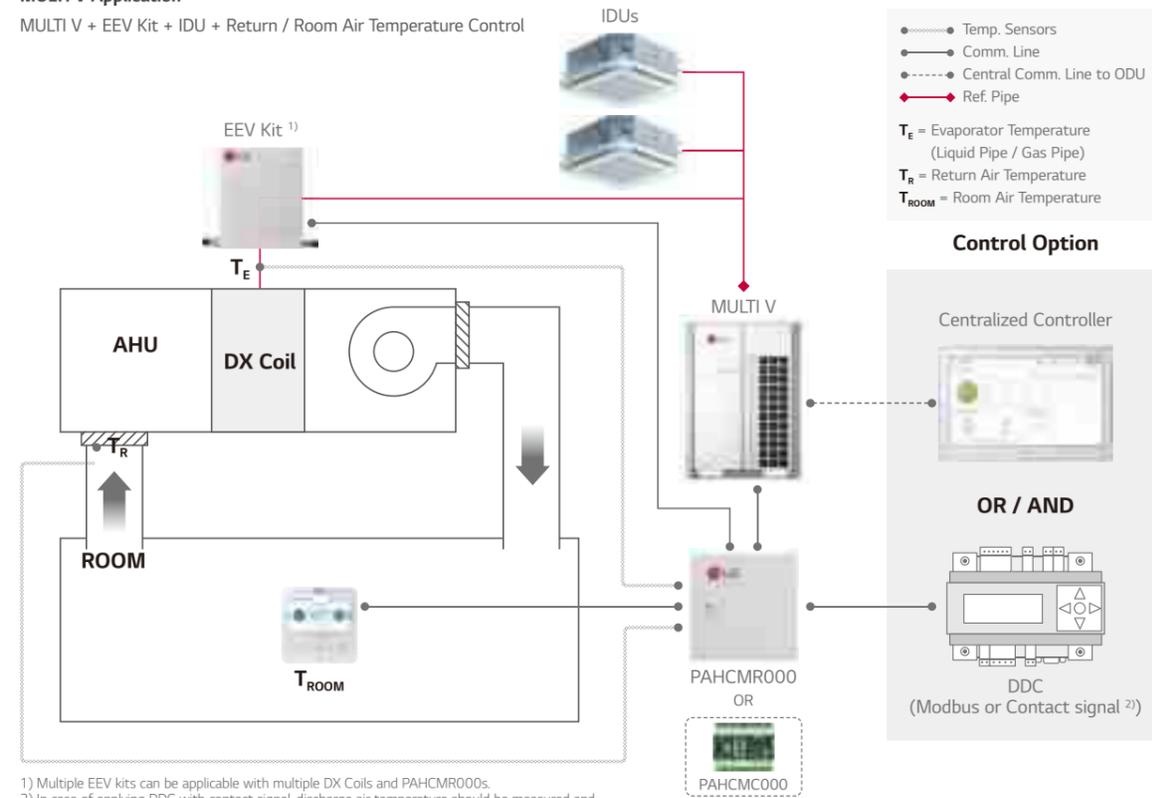
1) PI485 (PMNFP14A1) is required for centralized controller.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 Note : For more detail, please refer to the PDB.

# AHU Kit

## Communication Kit & Controller Module

### MULTI V Application

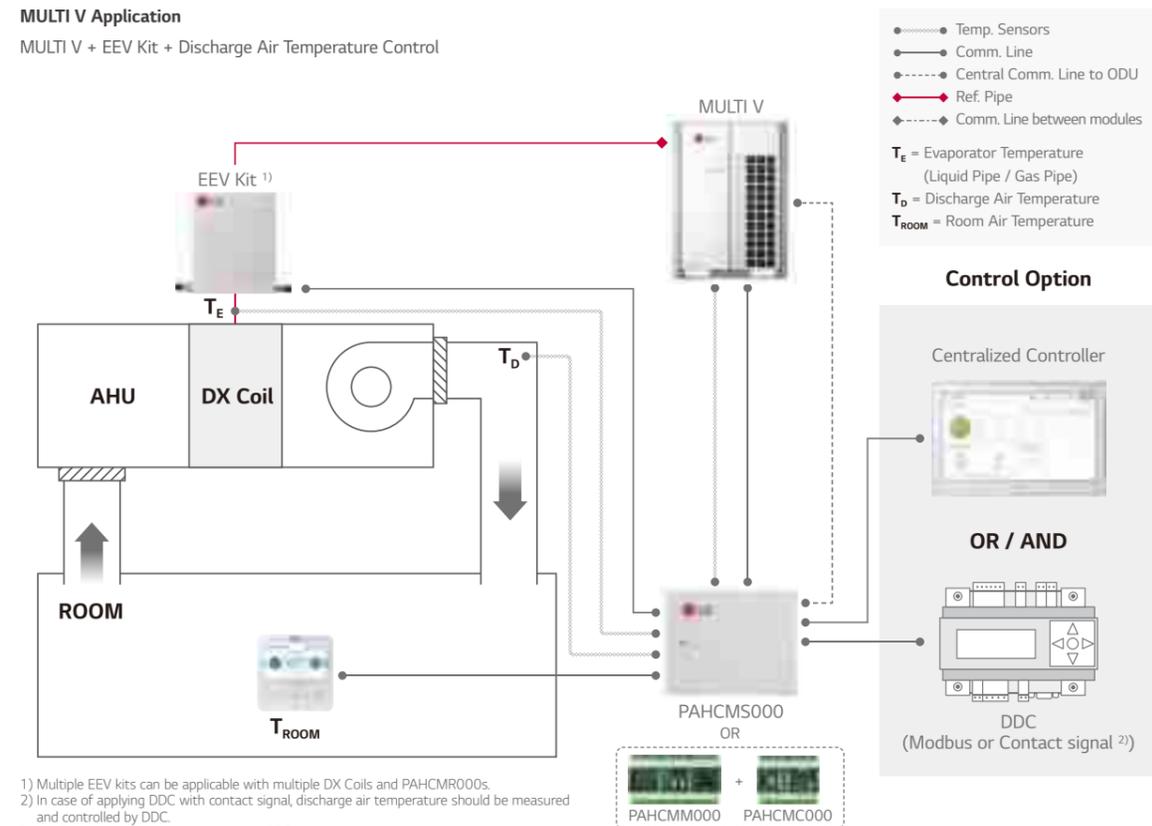
MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control



1) Multiple EEV kits can be applicable with multiple DX Coils and PAHCMR000s.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 Note : For more detail, please refer to the PDB.

### MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control



1) Multiple EEV kits can be applicable with multiple DX Coils and PAHCMR000s.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 Note : For more detail, please refer to the PDB.

## Communication Kit Function

### Communication with DDC via Contact Signal

| FUNCTION LIST                                                 | PAHCMR000 (PAHCMC000) | PAHCMS000 (PAHCM000 + PAHCMC000) | TYPE                                                                  | NOTE                                                                                                                                           |
|---------------------------------------------------------------|-----------------------|----------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation On / Off                                            | On / Off              | On / Off                         | Digital Input (Non Voltage)                                           | -                                                                                                                                              |
| Operation Mode                                                | Cooling / Heating     | Cooling / Heating                | Digital Input (Non Voltage)                                           | Available operation mode can vary depending on the settings of Communication Kit                                                               |
| Return (Room) Air Temperature <sup>2)</sup>                   | 16 ~ 30 °C            | -                                | Analog Input (DC 0 ~ 10 V / 20mA)                                     | -                                                                                                                                              |
| Control <sup>1)</sup> Discharge Air Temperature <sup>2)</sup> | -                     | -                                | -                                                                     | Discharge air temperature should be controller directly by DDC using 'ODU Capacity Control'                                                    |
| Fan Speed <sup>3)</sup>                                       | -                     | High / Middle / Low              | Digital Input (Non Voltage)                                           | -                                                                                                                                              |
| Forced Thermal                                                | On / Off              | -                                | Digital Input (Non Voltage)                                           | -                                                                                                                                              |
| ODU Capacity                                                  | -                     | 10 ~ 100%                        | Analog Input (DC 0 ~ 10 V / 20mA)                                     | -                                                                                                                                              |
| Emergency Stop                                                | -                     | Stop / Normal                    | Digital Input (Non Voltage)                                           | -                                                                                                                                              |
| Operation                                                     | On / Off              | On / Off                         | Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)                  | For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot be monitored by DO ports                       |
| Operation Mode                                                | -                     | -                                | -                                                                     | It needs to be checked through control signal                                                                                                  |
| Fan Speed                                                     | High / Middle / Low   | High / Middle / Low              | Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)                  | For PACHMR000, dip sw1-3 DO Type should be set 'On' (Fan Mode) In this case, 'On / Off, defrost, error Status' cannot be monitored by DO ports |
| Defrost Operation                                             | Defrost / Normal      | Defrost / Normal                 | Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)                  | For PACHMR000, dip sw1-3 DO type should be set 'OFF' (Status), In this case, 'fan speed' cannot be monitored by DO ports                       |
| Error Alarm                                                   | Error / Normal        | Error / Normal                   | Digital Output, Relay C contact (Max. : DC 30 V / 1 A, AC 250V / 1 A) | -                                                                                                                                              |
| Compressor On / Off                                           | -                     | On / Off                         | Digital Output, (Max. : DC 30 V / 1 A, AC 250V / 1 A)                 | -                                                                                                                                              |

1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.  
 2) The range of temp. is differ depending on the type of the controller.  
 3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.  
 Note : For more detail information, please refer to the product data book.

### Communication with DDC via Modbus protocol

| FUNCTION LIST                                                 | PAHCMR000 (PAHCMC000)      | PAHCMS000 (PAHCM000 + PAHCMC000) | NOTE                                                                                                                       |
|---------------------------------------------------------------|----------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Operation On / Off                                            | On / Off                   | On / Off                         |                                                                                                                            |
| Operation Mode                                                | Cooling / Heating / Fan    | Cooling / Heating / Fan          |                                                                                                                            |
| Return (Room) Air Temperature                                 | 16 ~ 30 °C                 | -                                |                                                                                                                            |
| Control <sup>1)</sup> Discharge Air Temperature <sup>2)</sup> | -                          | ○                                | Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C Standard III <sup>4)</sup> : 12 ~ 50 °C |
| Fan Speed <sup>3)</sup>                                       | High / Middle / Low        | -                                |                                                                                                                            |
| Forced Thermal On / Off                                       | -                          | -                                |                                                                                                                            |
| ODU Capacity Control <sup>2)</sup>                            | -                          | 10 ~ 100%                        | Dip SW1-2 Discharge Temp. Control Type should be set 'On'                                                                  |
| Emergency Stop                                                | -                          | -                                |                                                                                                                            |
| Operation                                                     | On / Off                   | On / Off                         |                                                                                                                            |
| Operation Mode                                                | Cooling / Heating / Fan    | Cooling / Heating / Fan          |                                                                                                                            |
| Return (Room) Air Temperature                                 | ○                          | -                                | Corresponding air temperature sensor connected to AHU Comm.Kit is required                                                 |
| Discharge Air Temperature                                     | -                          | ○                                |                                                                                                                            |
| Fan Speed                                                     | High / Middle / Low        | High / Middle / Low              |                                                                                                                            |
| Defrost Operation                                             | Defrost / Normal           | Defrost / Normal                 |                                                                                                                            |
| Error Alarm                                                   | Error / Normal, Error code | Error / Normal, Error code       |                                                                                                                            |
| Compressor On / Off                                           | On / Off                   | On / Off                         |                                                                                                                            |

※ ○ : Applied, - : Not Applied  
 1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.  
 2) In case of PAHCMS000, control type between "Discharge Air Temperature" and "ODU Capacity Control" is selectable.  
 3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.  
 4) Standard III wired remote controller after version 2.10.5a.  
 Note : For the Modbus memory map and more detail information, please refer to the product data book.

# AHU Kit

## Communication Kit Function

With LG Control System (Individual & Centralized Controller)

| FUNCTION LIST                               | PAHCMR000 (PAHCMC000)   | PAHCMS000 (PAHCMM000 + PAHCMC000) | NOTE                                                                                                    |
|---------------------------------------------|-------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| Operation On / Off                          | On / Off                | On / Off                          | -                                                                                                       |
| Operation Mode                              | Cooling / Heating / Fan | Cooling / Heating / Fan           | Available operation mode can vary depending on the settings of Communication Kit                        |
| Return (Room) Air Temperature <sup>2)</sup> | 16 ~ 30 °C              | -                                 | -                                                                                                       |
| Discharge Air Temperature <sup>2)</sup>     | -                       | ○                                 | Standard II : 16 ~ 30 °C<br>Standard III <sup>4)</sup> : 12 ~ 50 °C<br>Central Controllers : 12 ~ 50 °C |
| Fan Speed <sup>3)</sup>                     | High / Mid / Low        | High / Mid / Low                  | To control the AHU fan, dip switch 1-3 'DO type' should be set 'On (Fan Speed)' (PAHCMR000)             |
| Operation                                   | On / Off                | On / Off                          | -                                                                                                       |
| Operation Mode                              | Cooling / Heating / Fan | Cooling / Heating / Fan           | -                                                                                                       |
| Return (Room) Air Temperature               | ○                       | -                                 | -                                                                                                       |
| Discharge Air Temperature                   | -                       | ○                                 | Standard II : 11 ~ 39.5 °C<br>Standard III <sup>4)</sup> : 0 ~ 100.0 °C<br>Central : -50.0 ~ 100.0 °C   |
| Fan Speed                                   | High / Middle / Low     | High / Middle / Low               | -                                                                                                       |
| Defrost Operation                           | On / Off                | On / Off                          | Only with Individual Controller                                                                         |
| Error Alarm                                 | Error Code              | Error Code                        | Error code will be displayed on the screen                                                              |
| Compressor On / Off                         | On / Off                | On / Off                          | Only with Individual Controller                                                                         |

※ ○ : Applied, - : Not Applied

- Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
- The range of setting temperature is different depending on the type of the controllers. And operation may different from setting range.
- To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
- Standard III wired remote controller after version 2.10.5a.

Note : For more detail information, please refer to the product data book.

## Compatibility with LG HVAC Controllers

| CONTROLLER | INDIVIDUAL CONTROLLER                 |                        |             | CENTRALIZED CONTROLLER |             |            |           |                            | BMS GATEWAY  | PDI                    |
|------------|---------------------------------------|------------------------|-------------|------------------------|-------------|------------|-----------|----------------------------|--------------|------------------------|
|            | PREMIUM                               | STANDARD III           | STANDARD II | AC EZ                  | AC EZ TOUCH | AC SMART 5 | ACP 5     | AC MANAGER 5 <sup>1)</sup> | ACP LONWORKS | PREMIUM STANDARD       |
|            |                                       |                        |             |                        |             |            |           |                            |              |                        |
| Model no.  | PREMTA000<br>PREMTA000A<br>PREMTA000B | PREMTB100<br>PREMTBB10 | PREMTB001   | PQCSZ250S0             | PACEZA000   | PACSSA000  | PACPSA000 | PACMSA000                  | PLNWKB000    | PQNUD1S40<br>PPWRDB000 |
| PAHCMR000  | ○                                     | ○                      | ○           | ○                      | ○           | ○          | ○         | ○                          | ○            | ○                      |
| PAHCMS000  | -                                     | ○                      | ○           | -                      | -           | ○          | ○         | ○                          | -            | -                      |

※ ○ : Applied, - : Not Applied

- AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
- Note : 1. Dry contact for indoor unit (PDRYCB000 / 400 / 300 / 500) is not applied.  
2. For more details, please refer to the product data book.

## Outdoor Unit Compatibility

For Small Size Application (~ 15kW) - Single Split

| TYPE                                  | MODEL                             | UUA1 (2.5 ~ 5.0 KW) <sup>1)</sup> | UUB1 (5.0 ~ 8.0 KW) <sup>1)</sup> | UUC1 (7.1 ~ 10.0 KW) <sup>1)</sup> | UUD1 / UUD3 (10.0 ~ 15.0 KW) <sup>1)</sup> |
|---------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|--------------------------------------------|
| Communication Kit (Controller Module) | PAHCMR000 (PAHCMC000)             | -                                 | ○                                 | ○                                  | ○                                          |
|                                       | PAHCMS000 (PAHCMM000 + PAHCMC000) | -                                 | ○                                 | ○                                  | ○                                          |
| Control Kit                           | PAHCNM000                         | -                                 | -                                 | -                                  | -                                          |

1) When connecting to Single Split outdoor unit, please check the compatibility to the regional sales office.

For Medium-Large Size Application (~ 672 kW) - MULTI V

| TYPE                                  | MODEL                             | MULTI V |    |     |   | MULTI V WATER |    |
|---------------------------------------|-----------------------------------|---------|----|-----|---|---------------|----|
|                                       |                                   | 5       | IV | III | S | IV            | II |
| Communication Kit (Controller Module) | PAHCMR000 (PAHCMC000)             | ○       | ○  | ○   | ○ | ○             | ○  |
|                                       | PAHCMS000 (PAHCMM000 + PAHCMC000) | ○       | ○  | ○   | ○ | ○             | ○  |
| Control Kit                           | PAHCNM000                         | ○       | ○  | ○   | ○ | ○             | ○  |

## EEV Kit Compatibility

| EEV KIT MODEL | CAPACITY INDEX (kW) |      | AHU APPLICATION KITS (MAXIMUM CONNECTABLE EEV KITS) |                                   |           | CONNECTION BY ODU SYSTEM |                  |              |
|---------------|---------------------|------|-----------------------------------------------------|-----------------------------------|-----------|--------------------------|------------------|--------------|
|               | MIN.                | MAX. | PAHCMR000 (PAHCMC000)                               | PAHCMS000 (PAHCMM000 + PAHCMC000) | PAHCNM000 | MULTI V                  |                  | SINGLE SPLIT |
|               |                     |      |                                                     |                                   |           | HEAT PUMP                | HEAT RECOVERY    |              |
| PRLK048A0     | 3.6                 | 28   | ○ (1)                                               | ○ (1)                             | ○ (6)     | ○                        | ○                | -            |
| PRLK096A0     | 28.1                | 56   | ○ (1)                                               | ○ (1)                             | ○ (6)     | ○                        | ○ (Max. 33.7 kW) | -            |
| PRLK396A0     | 56.1                | 112  | ○ (1)                                               | ○ (1)                             | ○ (6)     | ○                        | -                | -            |
| PRLK594A0     | 112.1               | 168  | -                                                   | ○ (1)                             | ○ (3)     | ○                        | -                | -            |

※ ○ : Applied, - : Not applied

- Note 1. Table of the outdoor unit compatibility is based on European regional model.
- When connecting outdoor units in other areas, please check whether they are compatible or not.
- Expansion application kit compatibility is based on capacity index of the system, it may changed according to system design condition.

# AHU Kit

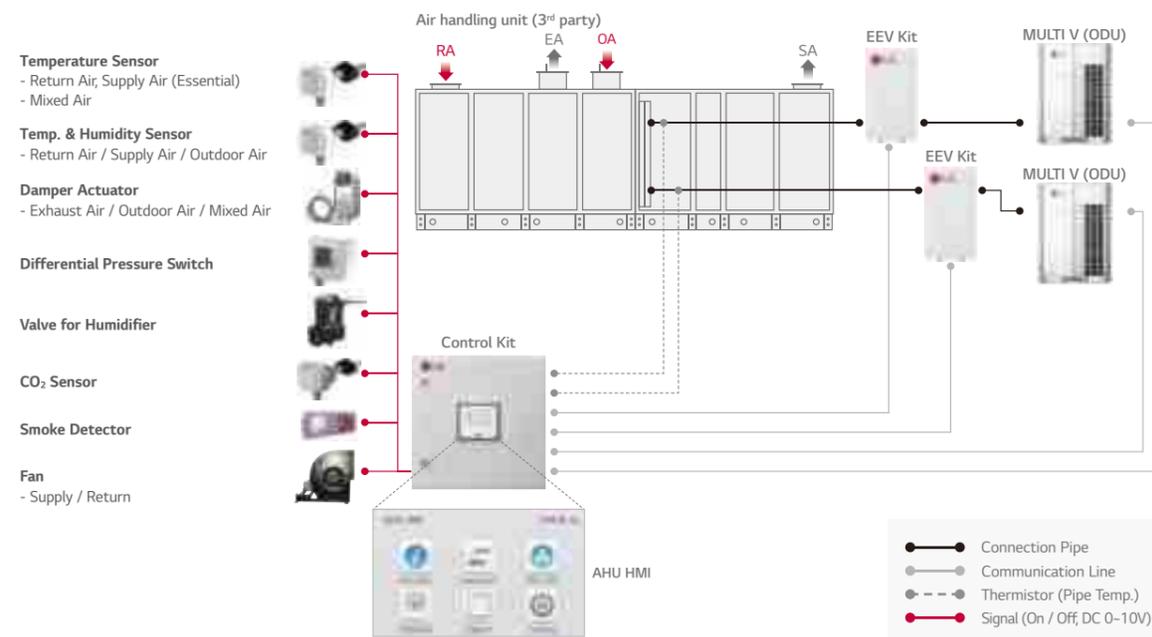
## Control Kit

### Field Supplied Item

| LIST                                | REQUIRED SPECIFICATION                                                                                                                | APPLY LOCATION                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Temperature / Humidity Sensor       | - Power : AC 24 V<br>- Output signal : DC 0 ~ 10 V<br>- Temperature range : -40 °C ~ 70 °C<br>- Humidity range : 0 ~ 95 % RH          | Supply air duct, Return air duct, Outdoor air duct   |
| Temperature Sensor                  | - Power : AC 24 V<br>- Output signal : DC 0 ~ 10 V<br>- Temperature range : -50 °C ~ 50 °C                                            | Supply air duct, Return air duct, Mixed air duct     |
| Damper Actuator                     | - Power : AC 24 V<br>- Input / output signal : DC 0 ~ 10 V<br>- Torque : 15 N·m<br>- Operation time : 150 s<br>- Rotation Angle : 90° | Outdoor air damper, Exhaust air damper, Mixed damper |
| Filter Differential Pressure Sensor | - Power : AC 24 V<br>- Output signal : DC 0 ~ 10 V<br>- Range: 0 ~ 1,000 Pa<br>- Switch type : Relay open / close                     | Filter                                               |
| Static Pressure Sensor              | - Power : AC 24 V<br>- Output signal : DC 0 ~ 10 V<br>- Range : 0 ~ 1,000 Pa                                                          | Supply air duct                                      |
| CO <sub>2</sub> Sensor              | - Power : AC 24 V<br>- Output signal : DC 0 ~ 10 V<br>- Range : 0 ~ 2,000 ppm                                                         | Return air duct                                      |
| Smoke Detector                      | - Power : AC 24 V<br>- Type : Contact                                                                                                 | Return air duct                                      |

### Various Control with Control Kit – Multiple MULTI V + EEV Kits

#### Field Supplied Item



# Water Communication Module

## PAHCMW000

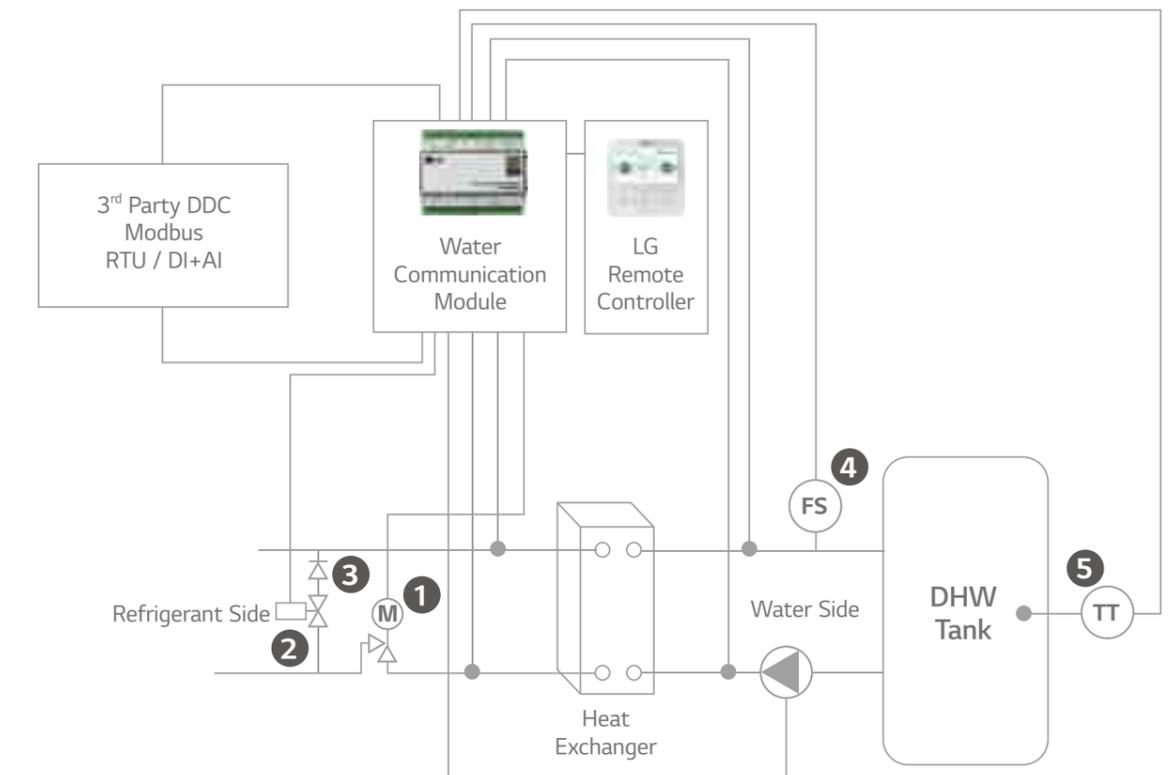
This module is intended to connect 3<sup>rd</sup> party plate heat exchanger to LG outdoor unit with the ability to control water temperature from 3<sup>rd</sup> party DDC or LG remote controller.



### Overview

Interlocking with 3<sup>rd</sup> parties can make various solution with LG Multi V outdoor unit.

1. EEV
2. Solenoid Valve (NC)
3. Non-Return Valve
4. FS : Flow Switch
5. TT : DHW Temperature Transmitter



• 3<sup>rd</sup> party solenoid, non-return valve, heat exchanger, flow switch and DHW temperature transmitter (Optional) must be purchased separately. (Field supplied items)

# Water Communication Module

## Features & Benefits

Interlocking with 3<sup>rd</sup> parties can make various solution with LG MULTI V outdoor unit.

### Interlocking with 3<sup>rd</sup> Party Equipment

| CONTENTS                                       | CONNECTION PORT      | FUNCTION                                                                                       |
|------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------|
| RS485                                          | CH1 (A+ / B-)        | Module Comm. Port<br>Communication Port Modbus                                                 |
|                                                | CH2 (A+ / B-)        | IDU Comm. Port<br>Communication with Multi V Outdoor                                           |
| UNIVERSAL INPUT<br>(Cooling / Heating Setting) | UI1                  | Flow Switch<br>Flow Switch Input by 3rd party                                                  |
|                                                | UI2                  | 0 ~ 10V Set Temp.<br>Target Temp. Setting                                                      |
|                                                | UI3                  | Cooling Thermostat Signal<br>Thermostat Cooling Signal                                         |
|                                                | UI4                  | Heating Thermostat Signal<br>Thermostat Heating Signal                                         |
| UNIVERSAL INPUT<br>(DHW Only)                  | UI1                  | Flow Switch<br>Flow Switch Input by 3rd party                                                  |
|                                                | UI2                  | 0-10V Set Temp.<br>Target Temp. Setting                                                        |
|                                                | UI3                  | DHW Temperature Transmitter 0 ~ 10V<br>Measured Water Temp. Input by 3rd party 0 ~ 10 V sensor |
|                                                | UI4                  | DHW Thermostat Signal<br>DHW Heating Signal                                                    |
| NTC                                            | RI1                  | Water Inlet Sensor<br>PHEX Water Inlet Sensor                                                  |
|                                                | RI2                  | Water Outlet Sensor<br>PHEX Water Outlet Sensor                                                |
| REMO                                           | +12V / SIG / GND     | LG Remote Controller                                                                           |
| SINGLE                                         | Reserved             | -                                                                                              |
| DIGITAL OUTPUT                                 | DO1                  | Defrost / Mode<br>Output for defrost signal and / or cool mode                                 |
|                                                | DO2                  | Pump<br>Output signal for pump on / off                                                        |
|                                                | DO3                  | Bypass<br>Output signal for PHEX Bypass Valve                                                  |
| NTC                                            | RI3                  | Thermistor Pipe In<br>PHEX Ref. Inlet Pipe Sensor                                              |
|                                                | RI4                  | Thermistor Pipe Out<br>PHEX Ref. Outlet Pipe Sensor                                            |
| EEV                                            | +12V / 1 / 2 / 3 / 4 | Expansion Valve<br>EEV Control                                                                 |

## Compatibility & Accessory

### EEV (LG MODEL)

| MODEL     | CAPACITY (KW) |      | PAHCMW000 |
|-----------|---------------|------|-----------|
|           | MIN.          | MAX. |           |
| PAEEVC000 | 3.6           | 28   | HP / HR   |
| PRLK048A0 | 3.6           | 28   | HP / HR   |
| PRLK096A0 | 28.1          | 56   | HP        |

Note :  
Water communication module can accept plate heat exchangers from 3,6 to 112 kW for combination with Multi V Outdoor units.

### LG Controllers

| CONTROLLER | INDIVIDUAL CONTROLLER | CENTRALIZED CONTROLLER |            | DRY CONTACT |
|------------|-----------------------|------------------------|------------|-------------|
|            | HEATING STANDARD III  | AC EZ TOUCH            | AC SMART 5 |             |
|            | PREMTW101             | PACEZA000              | PACSSA000  | PDRYCB000   |

## Specification for Field supply item

- The 3<sup>rd</sup> party can select the for best usable version

### Solenoid valve for Bypass

| CAPACITY (KW) |      | EEV TYPE               | SYSTEM  | KV VALUE OF SOLENOID AND NON-RETURN VALVE | PIPE SIZE       |
|---------------|------|------------------------|---------|-------------------------------------------|-----------------|
| MIN.          | MAX. |                        |         |                                           |                 |
| 3.6           | 28   | PAEEVC000<br>PRLK048A0 | HP / HR | 0.95                                      | 3 / 8" / 9.52mm |
| 28            | 56   | PRLK096A0              | HP      | 1.9                                       | 1 / 2" / 12.7mm |

### Flow switch

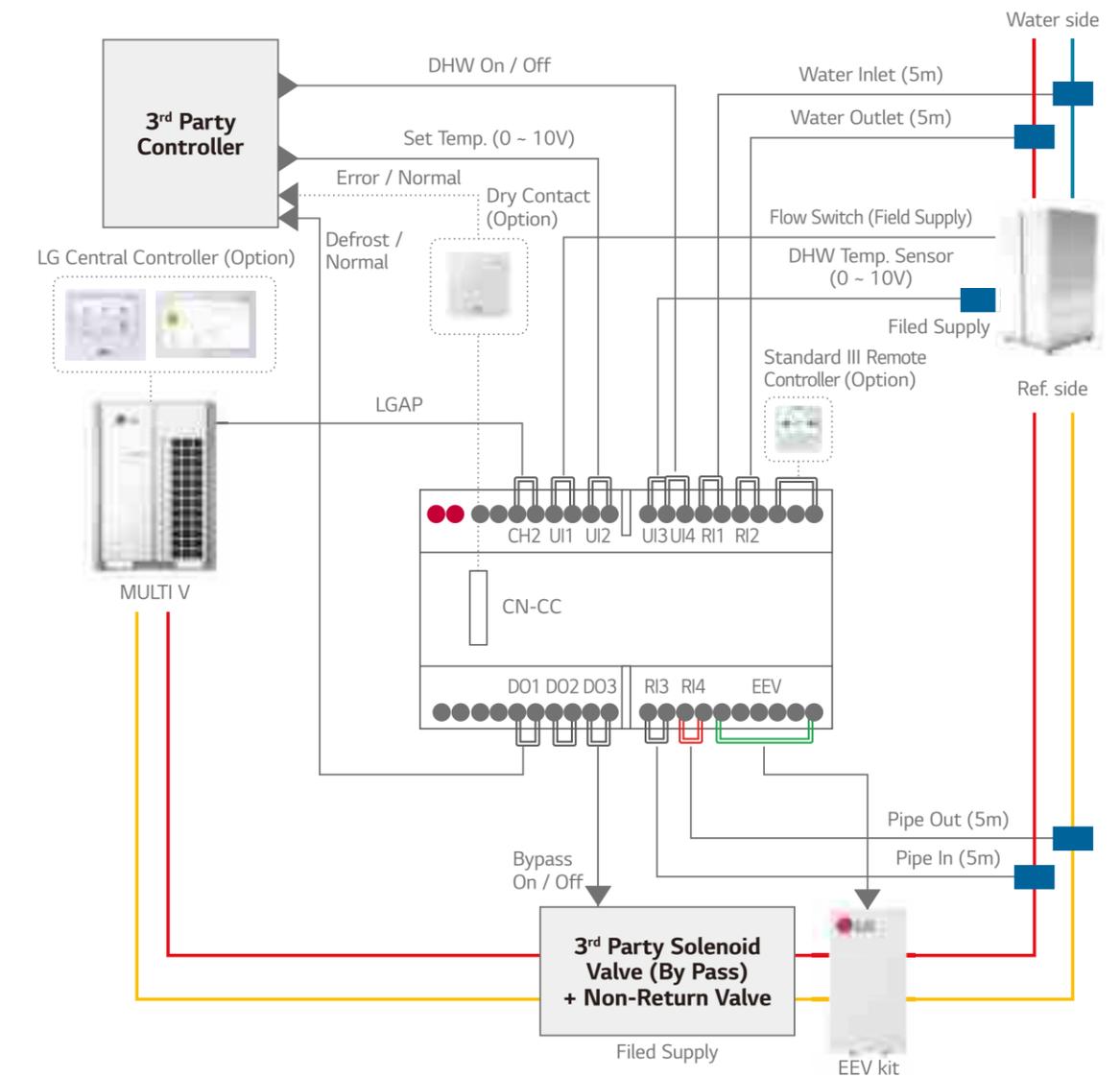
- The nominal flow and cut of flow can be calculated using the values below.

| CONTROLLER | NOMINAL FLOW | FLOW SWITCH CUT OFF |
|------------|--------------|---------------------|
| L / min*kW | 3.29         | 1.23                |

\* Example : ODU nominal Cooling Capacity 28 kW, 28 x 3.29 = 92.12 L / min. nominal flow, 28 x 1.23 = 34.44 L / min. flow switch cut off

## Installation Scene with Contact Connection

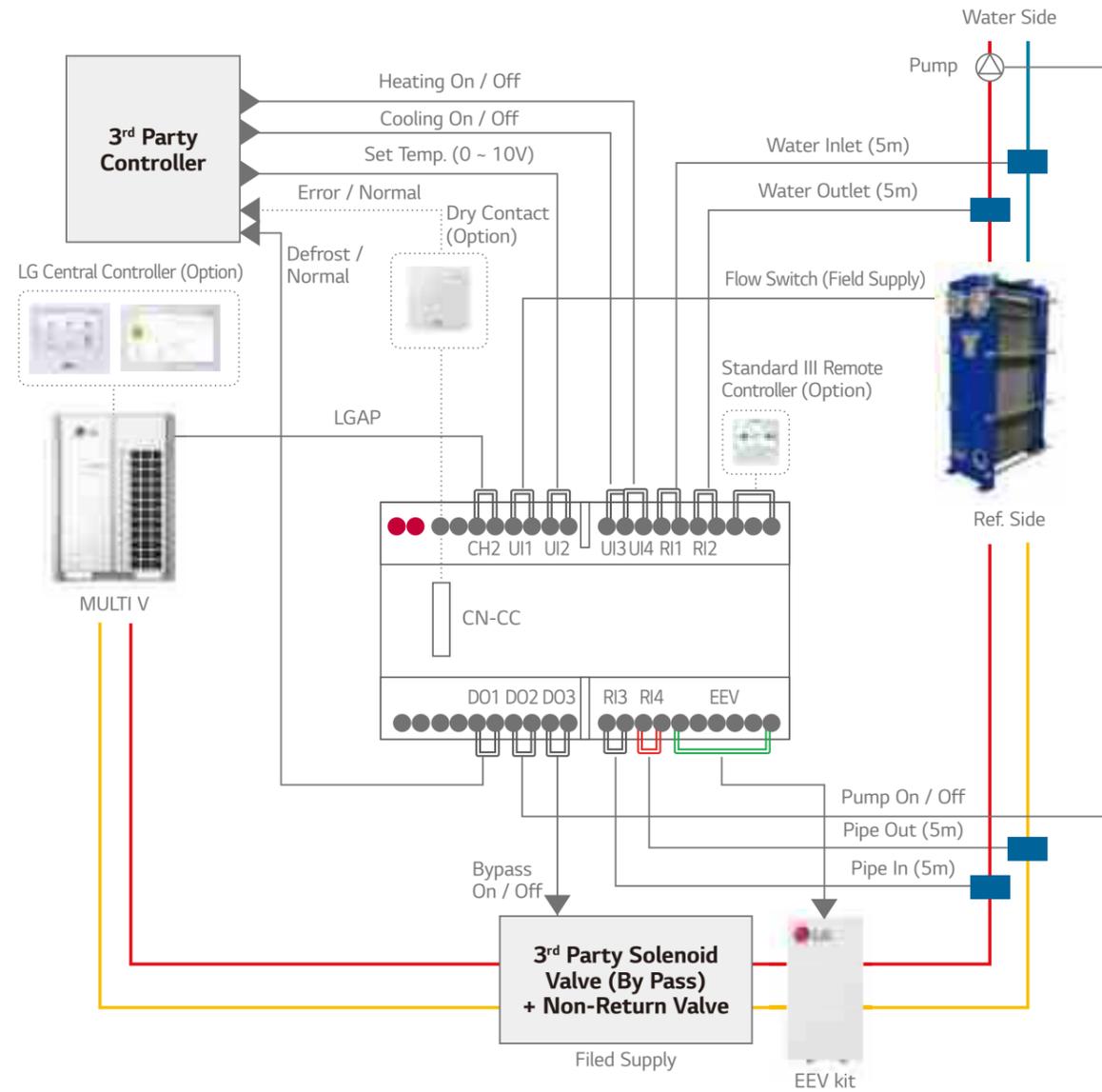
Contact signal + DHW Only Setting



# Water Communication Module

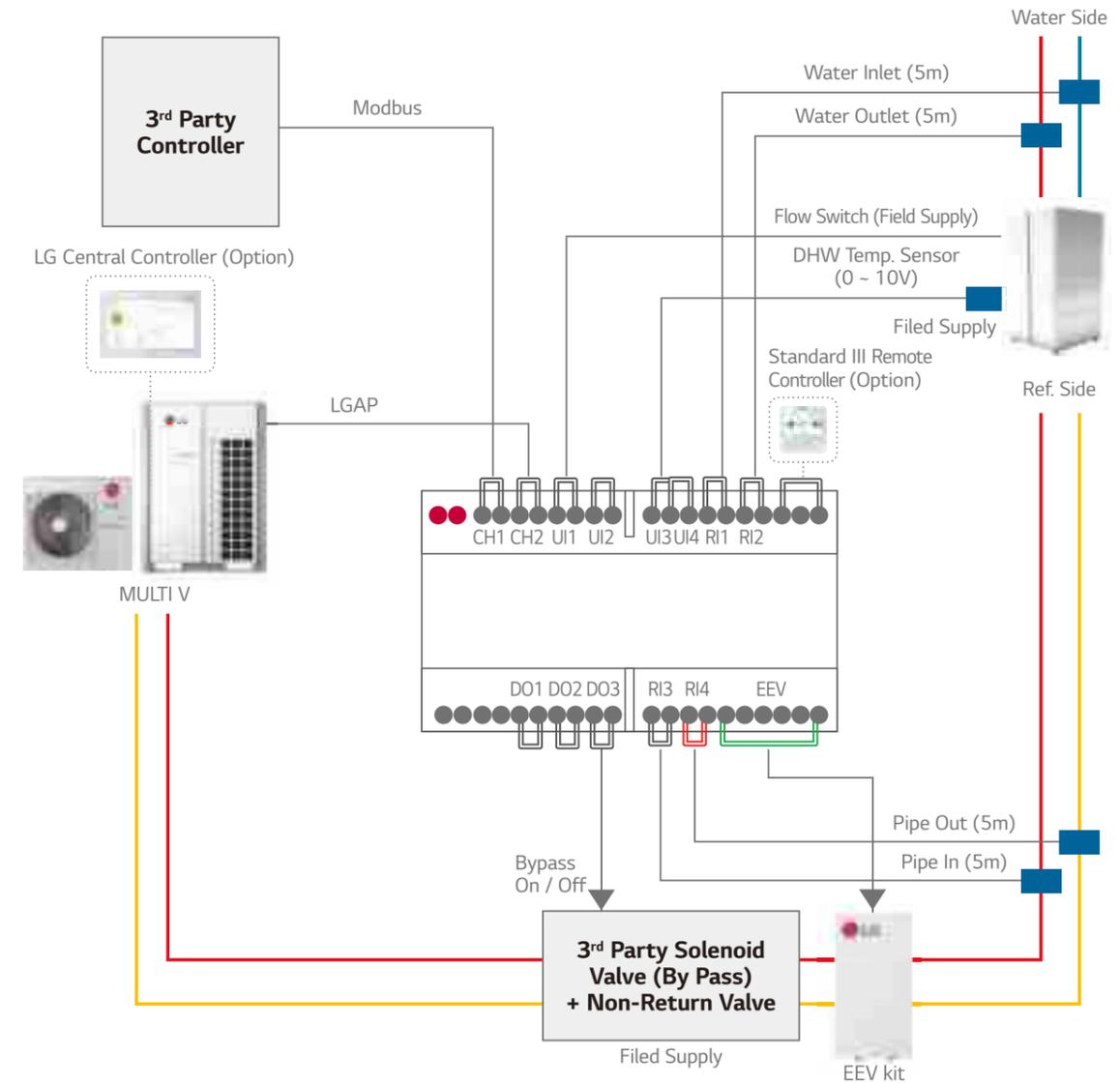
## Installation Scene with Contact Connection

Contact signal + Heating / Cooling Setting



## Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + DHW Only Setting

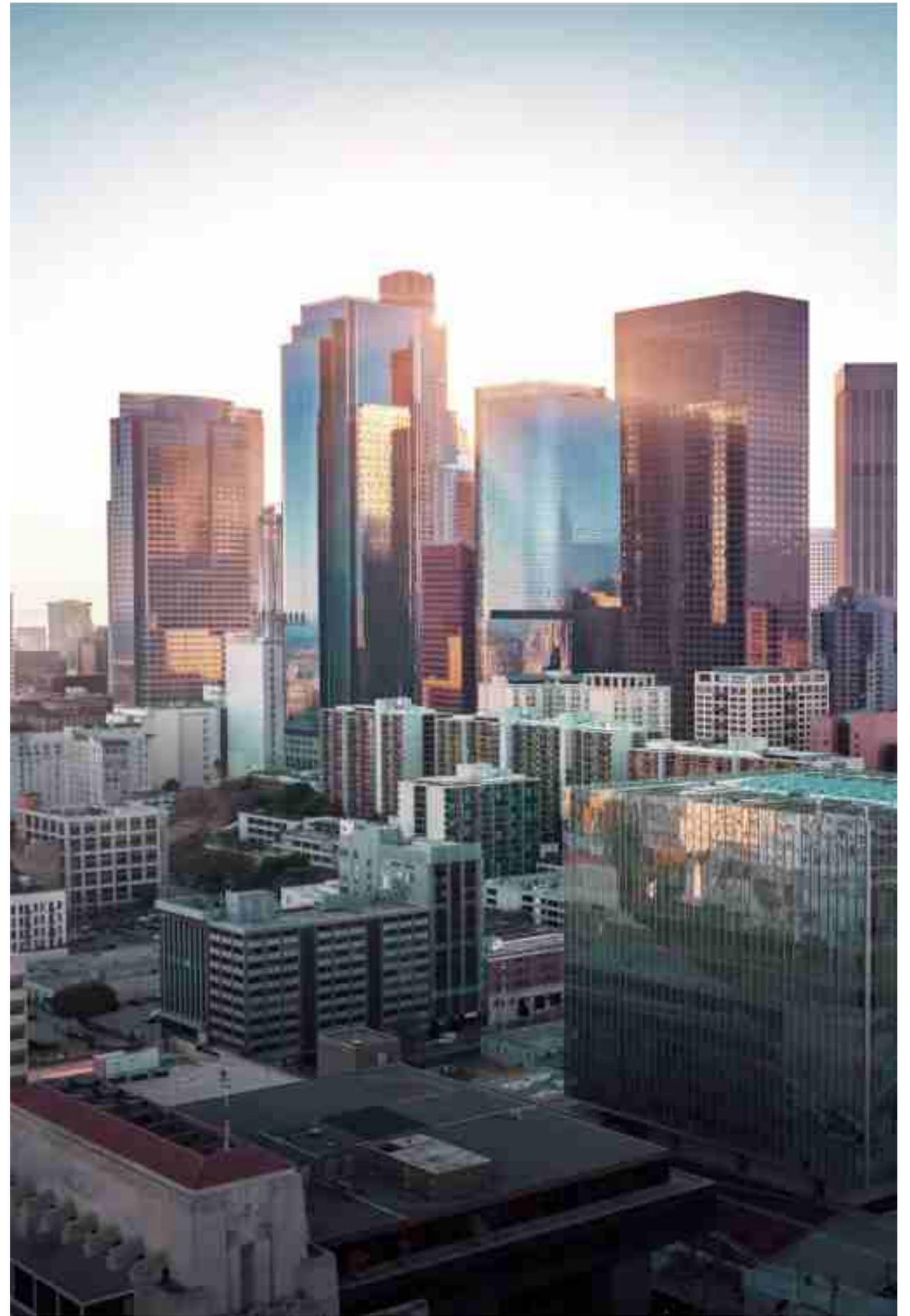
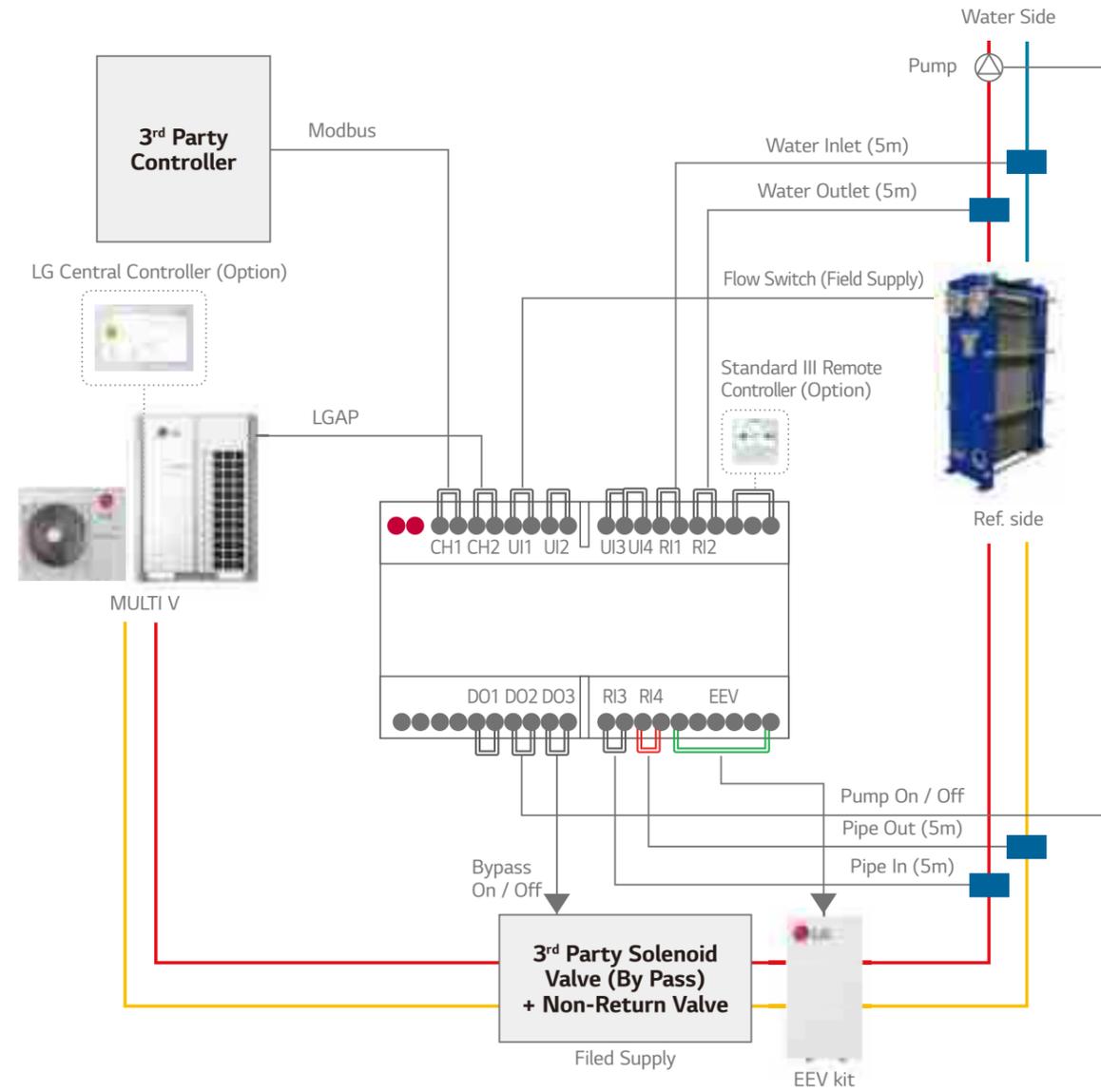


※ In case of Contact control, LG controllers can only support monitoring functions.

# Water Communication Module

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + Heating / Cooling Setting



# Hotel Control Solution



### Guest Room

Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

### Reception

Air conditioner control in conjunction with check-in or check out

### Public Areas

Centralized management of the public areas

## Design Proposal

| GUEST ROOM                                                    |                                                                                                                                   |                                                                                                                                                             |                                                                                       | LOBBY                                                                       |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| The air conditioner automatically turns off when guests leave | Integrated control of air conditioner with the hotel room controller                                                              | Control with existing hotel thermostat                                                                                                                      | Guest safety is the first priority                                                    | Air conditioner control in conjunction with check-in or check out           |
|                                                               |                                                                                                                                   |                                                                                                                                                             |                                                                                       |                                                                             |
| <b>PDRYCB400</b><br>2 contact point                           | <b>PDRYCB500</b><br>Modbus RTU (9,600bps)                                                                                         | <b>PDRYCB320</b><br>8 contact point                                                                                                                         | <b>PRLDNV50</b><br>Refrigerant leakage detector<br>• 6,000ppm                         | <b>PACSSA000</b><br>AC Smart 5<br>• BMS Integration (BACnet IP, Modbus TCP) |
| <b>Input</b><br>• Operation On / Off                          | <b>Function</b><br>• Operation<br>• Indoor temperature<br>• Error alarm<br>• Set run mode<br>• Set temperature<br>• Set fan speed | <b>Input</b><br>• Universal Input<br>• Operation On / Off<br>• Thermo On / Off<br>• Operation mode (Fan / Heat / Cool)<br>• Fan speed (Low / Middle / High) |                                                                                       |                                                                             |
| <b>Output</b><br>• Operation On / Off status<br>• Error alarm |                                                                                                                                   | <b>Output</b><br>• Operation On / Off status<br>• Error alarm                                                                                               | <b>PREMTB100</b><br>Wired remote controller<br>• 4.3 inch color LCD<br>• Touch button | <b>PACP5A000</b><br>ACP 5<br>• BMS Integration (BACnet IP, Modbus TCP)      |

# Shopping Mall Control Solution



### Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alarms

### Maintenance Office

Reduces energy by checking operational trends

### Atrium

Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

## Design Proposal

| RETAIL                                                               | MAINTENANCE OFFICE                                                          | ATRIUM                                               |                                                                                                      |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Proportionally distribute and manage power consumption by the tenant | Fast problem detection and alarms                                           | Integrated management of AHU applied to large spaces | Chiller and VRF integrated control                                                                   |
|                                                                      |                                                                             |                                                      |                                                                                                      |
| <b>PPWRDB000</b><br>PDI Standard (2 ports)<br>• Max. 128 IDU         | <b>PACSSA000</b><br>AC Smart 5<br>• BMS Integration (BACnet IP, Modbus TCP) | <b>PAHCMR000</b><br>AHU Comm.Kit<br>• Return air     | <b>PCHLLN000</b><br>Chiller Option Kit<br>+<br><b>PACP5A000</b> <b>PACSSA000</b><br>ACP 5 AC Smart 5 |
|                                                                      |                                                                             |                                                      |                                                                                                      |
| <b>PQNUD1S40</b><br>PDI Premium (8 ports)<br>• Max. 128 IDU          | <b>PACP5A000</b><br>ACP 5<br>• BMS Integration (BACnet IP, Modbus TCP)      | <b>PAHCMS000</b><br>AHU Comm.Kit<br>• Discharge air  |                                                                                                      |

# Hospital Control Solution

**Hospital Ward**  
Proper airflow management for patients

---

Monitor the comfort level for each hospital ward

---

Control fan speed and air volume

**Service Zone**  
Energy savings based on flexible scheduling

**Lobby**  
Centralized management of AHU for large spaces

## Design Proposal

| HOSPITAL WARD                                                                         |                                                                              |                                                                                                                                              | SERVICE ZONE                                                                 | LOBBY                                               |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
| Proper airflow management for patients                                                | Monitor the comfort level for each hospital ward                             | External device interlock control ward                                                                                                       | Energy savings based on flexible scheduling                                  | Centralized management of AHU for large space       |
|                                                                                       |                                                                              |                                                                                                                                              |                                                                              |                                                     |
| <b>PTVSM00</b><br>Human detection sensor                                              | <b>PACSS5A000</b><br>AC Smart 5<br>• BMS Integration (BACnet IP, Modbus TCP) | <b>PDRYCB400</b><br>2 contact point<br><b>Input</b><br>• Operation On / Off<br><b>Output</b><br>• Operation On / Off status<br>• Error alarm | <b>PACSS5A000</b><br>AC Smart 5<br>• BMS Integration (BACnet IP, Modbus TCP) | <b>PAHCMR000</b><br>AHU Comm.Kit<br>• Return air    |
|                                                                                       |                                                                              |                                                                                                                                              |                                                                              |                                                     |
| <b>PREMTB100</b><br>Wired remote controller<br>• 4.3 inch color LCD<br>• Touch button | <b>PACP5A000</b><br>ACP 5<br>• BMS Integration (BACnet IP, Modbus TCP)       |                                                                                                                                              | <b>PACP5A000</b><br>ACP 5<br>• BMS Integration (BACnet IP, Modbus TCP)       | <b>PAHCM5000</b><br>AHU Comm.Kit<br>• Discharge air |

# Academic Institution Control Solution

**Class Room**  
Automatically save energy in the absence of students

---

Central controls prevent students from arbitrary control

**Lecture Hall**  
Schedule management according to academic plan

**Maintenance Office**  
Integrated management of distributed buildings

---

Centralized management with multiple interfaces

## Design Proposal

| CLASS ROOM                                                                            | LECTURE HALL                                                           | MAINTENANCE OFFICE                             |                                                 |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Automatically save energy in the absence of students                                  | Central controls prevent students from arbitrary control               | Integrated management of distributed buildings | Centralized management with multiple interfaces |
|                                                                                       |                                                                        |                                                |                                                 |
| <b>PTVSM00</b><br>Human detection sensor                                              | <b>PACP5A000</b><br>ACP 5<br>• BMS Integration (BACnet IP, Modbus TCP) | <b>PACM5A000</b><br>AC Manager 5               |                                                 |
|                                                                                       |                                                                        |                                                |                                                 |
| <b>PREMTB100</b><br>Wired remote controller<br>• 4.3 inch color LCD<br>• Touch button |                                                                        |                                                |                                                 |

# Office Control Solution

**Maintenance Office**  
Energy savings and management throughout the building

---

Integrated management of HVAC with BMS system

---

Reduce costs by replacing BMS

**Office Room**  
Reasonable power distribution to tenants

**Server Room**  
24-hour backup management

**Meeting Room**  
Energy savings based on occupancy detection

# Residential Control Solution

**Home**  
Anytime, anywhere air conditioner control and access

---

Integrate systems for smart connectivity throughout

---

**Bed Room**  
Use a familiar residential thermostat

---

Simple interlocking control by remote control

**Apartment / Residence**  
Stable system operation

## Design Proposal

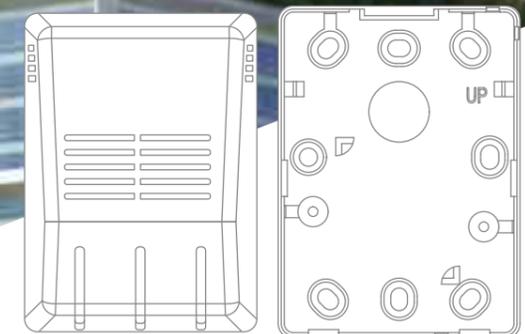
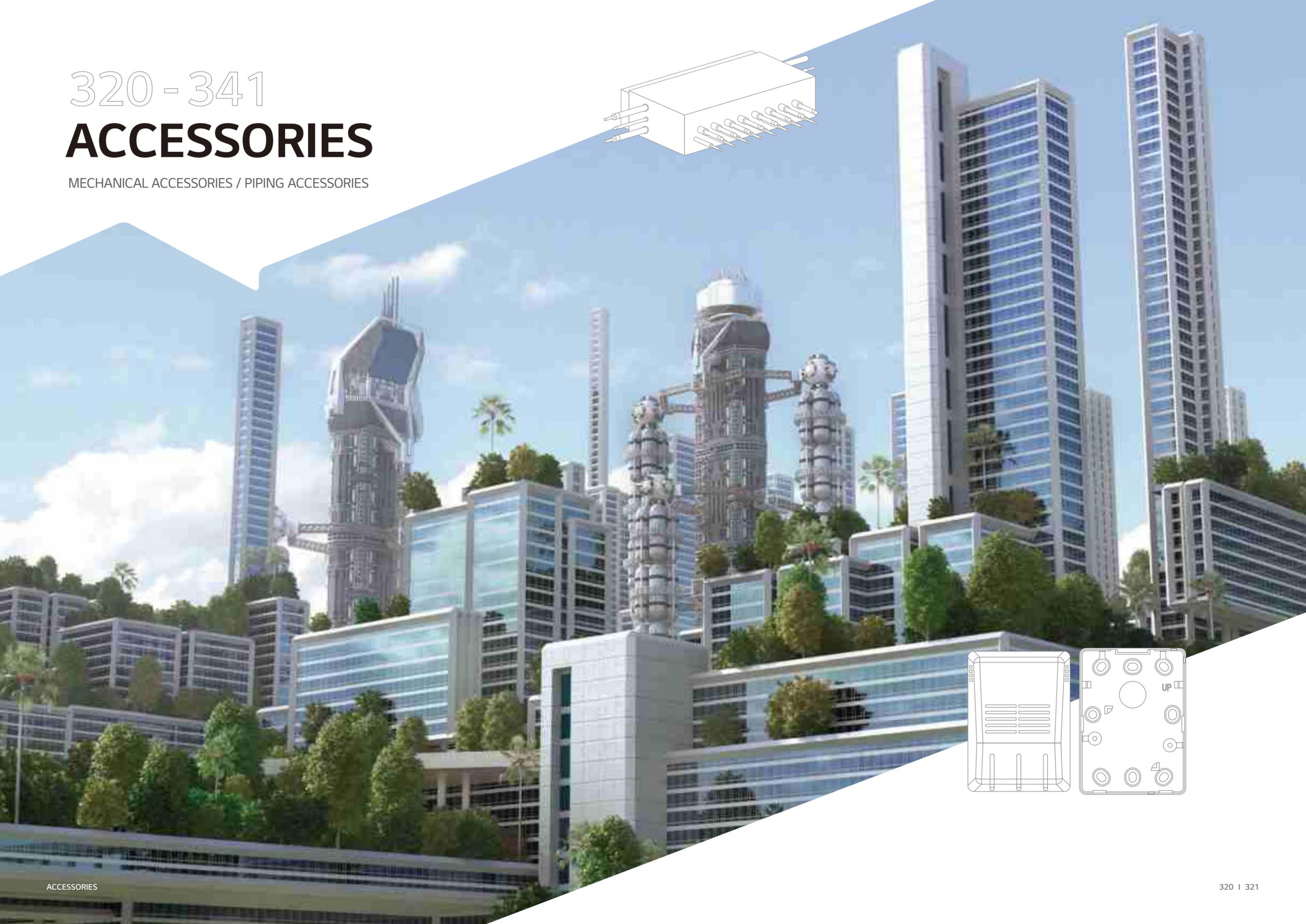
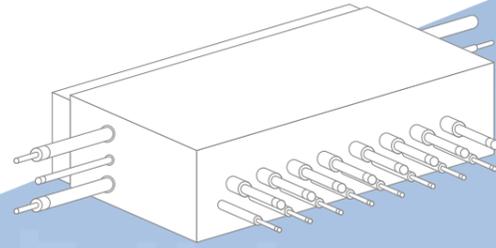
| MAINTENANCE OFFICE                                                                                                                 | OFFICE ROOM                                                                                                         | SERVER ROOM                                                                                                                        | MEETING ROOM                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Energy savings and management throughout the building</p>                                                                       | <p>Reasonable power distribution to tenants</p>                                                                     | <p>Main equipment 24 hours back up management</p>                                                                                  | <p>Energy savings based on occupancy detection</p>                                                                                                                                                                                                                       |
| <p>Integrated management of HVAC with BMS system</p>                                                                               | <p>Reduce costs by replacing BMS</p>                                                                                | <p>Human detection sensor</p>                                                                                                      | <p>Build a Smart house</p>                                                                                                                                                                                                                                               |
| <p><b>PACSSA000</b><br/>AC Smart 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul> | <p><b>PPWRDB000</b><br/>PDI Standard (2 ports)</p> <ul style="list-style-type: none"> <li>• Max. 128 IDU</li> </ul> | <p><b>PACSSA000</b><br/>AC Smart 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul> | <p><b>PWFMD200</b><br/>Wi-Fi modem</p> <p><b>Function</b></p> <ul style="list-style-type: none"> <li>• On / Off</li> <li>• Fan speed</li> <li>• Operation mode</li> <li>• Vane control</li> <li>• Reservation (Sleep, Weekly On / Off)</li> <li>• Error check</li> </ul> |
| <p><b>PACPSA000</b><br/>ACP 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul>      | <p><b>PQNUD1S40</b><br/>PDI Premium (8 ports)</p> <ul style="list-style-type: none"> <li>• Max. 128 IDU</li> </ul>  | <p><b>PACPSA000</b><br/>ACP 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul>      | <p><b>PTVSM40</b><br/>Human detection sensor</p>                                                                                                                                                                                                                         |
| <p><b>PLNWKB000</b><br/>ACP Lonworks</p>                                                                                           | <p><b>PEXPMB000</b><br/>ACS IO Module</p>                                                                           | <p><b>PACPSA000</b><br/>ACP 5</p>                                                                                                  | <p><b>PREMTB100</b><br/>Wired remote controller</p> <ul style="list-style-type: none"> <li>• 4.3 inch color LCD</li> <li>• Touch button</li> </ul>                                                                                                                       |
| <p><b>PMBUSB00A</b><br/>Modbus RTU gateway</p>                                                                                     | <p><b>PEXPMB300</b><br/><b>PEXPMB200</b><br/><b>PEXPMB100</b><br/>ACU IO Module</p>                                 | <p><b>PACPSA000</b><br/>ACP 5</p>                                                                                                  | <p><b>PREMTB100</b><br/>Wired remote controller</p> <ul style="list-style-type: none"> <li>• 4.3 inch color LCD</li> <li>• Touch button</li> </ul>                                                                                                                       |

## Design Proposal

| HOME                                                                                                                                                                                                                                                                          | BED ROOM                                                                                                                                                                                                                                                                                                                                                                                                        | APARTMENT                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <p>Control your home air conditioner anytime, anywhere</p>                                                                                                                                                                                                                    | <p>Use a familiar residential thermostat</p>                                                                                                                                                                                                                                                                                                                                                                    | <p>Stable system operation when indoor unit power is lost</p>                                                                     |
| <p>Build a Smart house</p>                                                                                                                                                                                                                                                    | <p>Simple interlocking control by remote control</p>                                                                                                                                                                                                                                                                                                                                                            | <p>Multi-tenant Power Module</p> <ul style="list-style-type: none"> <li>• EEV full close function</li> </ul>                      |
| <p><b>PWFMD200</b><br/>Wi-Fi modem</p> <p><b>Function</b></p> <ul style="list-style-type: none"> <li>• On / Off</li> <li>• Fan speed</li> <li>• Operation mode</li> <li>• Vane control</li> <li>• Reservation (Sleep, Weekly On / Off)</li> <li>• Error check</li> </ul>      | <p><b>PDRYCB320</b><br/>8 contact point</p> <p><b>Input</b></p> <ul style="list-style-type: none"> <li>• Universal Input</li> <li>• Operation On / Off</li> <li>• Thermo On / Off</li> <li>• Operation mode (Fan / Heat / Cool)</li> <li>• Fan speed (Low / Middle / High)</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>• Operation On / Off status</li> <li>• Error alarm</li> </ul> | <p><b>PINPMB001</b><br/>Multi-tenant Power Module</p> <ul style="list-style-type: none"> <li>• EEV full close function</li> </ul> |
| <p><b>PDRYCB500</b><br/>Modbus RTU (9,600bps)</p> <p><b>Function</b></p> <ul style="list-style-type: none"> <li>• Operation</li> <li>• Indoor temperature</li> <li>• Error alarm</li> <li>• Set operation mode</li> <li>• Set temperature</li> <li>• Set fan speed</li> </ul> | <p><b>PREMTB100</b><br/>Wired remote controller</p> <ul style="list-style-type: none"> <li>• 4.3 inch color LCD</li> <li>• Touch button</li> </ul>                                                                                                                                                                                                                                                              | <p><b>PINPMB001</b><br/>Multi-tenant Power Module</p> <ul style="list-style-type: none"> <li>• EEV full close function</li> </ul> |

# 320 - 341 ACCESSORIES

MECHANICAL ACCESSORIES / PIPING ACCESSORIES



## Cassette Panel

The Independent Vane Operation makes desired and comfortable air flow.



### Model Name & Applied Products

**4 Way Cassette (Mini, 570x570)**  
PT-QAGWO  
PT-QCHWO  
PT-UQC

**2 Way Cassette**  
PT-USC

**1 Way Cassette (Grill Type)**  
PT-UAHGO / PT-TAHGO (Glossy)  
PT-UAHWO / PT-TAHWO (Non-Glossy)

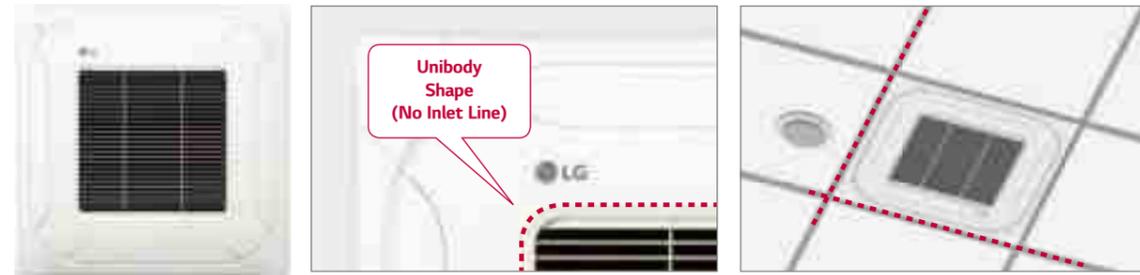
**1 Way Cassette (Air Purification)**  
PT-UPHGO / PT-TPHGO (Glossy)

### Key Features

- Independent vane operation uses separate motors, making it possible to control all 1, 2, and 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

### Compact and Stylish Design

- Mini 4 way cassette panel adapted unibody shape and matching with into the ceiling.
- Panel size is fit into the ceiling tile.



### Specification

| Model | Suction Type | Color (RAL) | Gloss                  | Weight (kg) | Dimension (mm) |       |    | Applied Model Capacity (kW)* |         |             |         |         |         |         |
|-------|--------------|-------------|------------------------|-------------|----------------|-------|----|------------------------------|---------|-------------|---------|---------|---------|---------|
|       |              |             |                        |             | W              | H     | D  | Single Split                 |         | Multi Split |         | Multi V |         |         |
|       |              |             |                        |             |                |       |    | R32                          | R410A   | R32         | R410A   | R32     | R410A   |         |
| 4 Way | PT-QCHWO     | Grill       | Morning Fog (RAL 9001) | X           | 3.0            | 620   | 35 | 620                          | 2.5-5.0 | 2.5-5.0     | 1.5-5.3 | 1.5-5.3 | 1.6-6.2 | 1.6-6.2 |
|       | PT-UQC       | Grill       | Morning Fog (RAL 9001) | X           | 3.0            | 700   | 22 | 700                          | 2.5-5.0 | 2.5-5.0     | 1.5-5.3 | 1.5-5.3 | 1.6-6.2 | 1.6-6.2 |
|       | PT-QAGWO     | Grid        | White (RAL 9003)       | X           | 2.9            | 620   | 35 | 620                          | 2.5-5.0 | 2.5-5.0     | 1.5-5.3 | 1.5-5.3 | 1.6-6.2 | 1.6-6.2 |
| 2 Way | PT-USC       | Grill       | Morning Fog (RAL 9001) | X           | 4.7            | 1,100 | 28 | 690                          |         |             |         |         | 2.8-7.1 | 2.8-7.1 |
|       | PT-UAHGO     | Grill       | White (RAL 9003)       | O           | 3.9            | 1,160 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
| 1 Way | PT-TAHGO     | Grill       | White (RAL 9003)       | O           | 4.8            | 1,480 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 5.6-7.1 | 5.6-7.1 |
|       | PT-UAHWO     | Grill       | White (RAL 9003)       | X           | 3.3            | 1,100 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
|       | PT-TAHWO     | Grill       | White (RAL 9003)       | X           | 4.5            | 1,420 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 5.6-7.1 | 5.6-7.1 |
|       | PT-UPHGO     | Grill       | White (RAL 9003)       | O           | 4.1            | 1,160 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
|       | PT-TPHGO     | Grill       | White (RAL 9003)       | O           | 4.9            | 1,480 | 34 | 500                          |         |             | 2.6-3.5 | 2.6-3.5 | 5.6-7.1 | 5.6-7.1 |

\* Based on cooling capacity  
※ O : Applied, - : Not applied

## Dual Vane Cassette Panel



**Model Name**  
PT-AAGWO  
PT-AFGWO

### Key Features

| Model    | Function  |          |                          |                                     |                  |                        |
|----------|-----------|----------|--------------------------|-------------------------------------|------------------|------------------------|
|          | Dual Vane | Wi-Fi    | Floor Temperature Sensor | Air Purification                    | Elevating Grille | Human Detection Sensor |
| PT-AAGWO | O         | Optional | Optional                 | X                                   | X                | Optional               |
| PT-AFGWO | O         | Optional | Optional                 | Optional (Dust Sensor, Tact Switch) | X                | Optional               |

### Specification

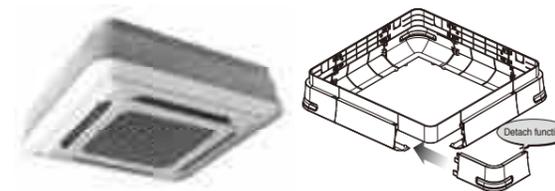
| Model    | Suction Type | Color (RAL)      | Gloss | Weight (kg) | Dimension (mm) |    |     |
|----------|--------------|------------------|-------|-------------|----------------|----|-----|
|          |              |                  |       |             | W              | H  | D   |
| PT-AAGWO | Grid         | White (RAL 9003) | -     | 7.1         | 950            | 35 | 950 |
| PT-AFGWO | Grid         | White (RAL 9003) | -     | 7.5         | 950            | 35 | 950 |

## Air Purification Kit

| Model                | Type  | Image | Model name | Dielectric Dust collecting filter | Photocatalytic Deodorizing filter | HVPS | Ionizer |
|----------------------|-------|-------|------------|-----------------------------------|-----------------------------------|------|---------|
| Air Purification Kit | 4 Way |       | PTAHMPO    | O                                 | O                                 | O    | O       |
|                      | 1 Way |       | PTAHTPO    | O                                 | O                                 | O    | O       |
|                      | Round |       | PTAHYPO    | O                                 | O                                 | O    | X       |

## Cassette Cover

Cover in case of exposed cassette installation.



### Key Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

### Specification

| Model | Front Panel         |    | Weight (kg) |       | Dimensions (mm) |       |     |
|-------|---------------------|----|-------------|-------|-----------------|-------|-----|
|       |                     |    | NET         | Gross | W               | H     | D   |
| PTDCM | PT-AAGWO / PT-AFGWO | TB | 5.9         | 8.8   | 1,157           | 1,157 | 268 |
|       |                     | TA | 5.9         | 8.8   | 1,157           | 1,157 | 310 |
| PTDCQ | PT-UQC              | TR | 5.0         | 7.2   | 907             | 907   | 268 |
|       |                     | TQ | 5.0         | 7.2   | 907             | 907   | 310 |

### Model Name

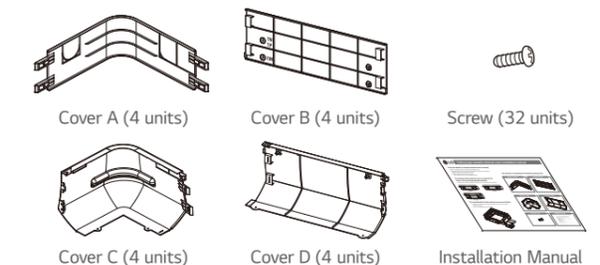
PTDCM / PTDCQ

### Applied Products

4 Way Cassette (for chassis TA, TB, TQ, TR)

### Included Parts

- Cover A, Cover B
- Cover C, Cover D
- Screws
- Installation Manual



## CO<sub>2</sub> Sensor

CO<sub>2</sub> sensor in ventilation system.



**Model Name**  
AHCS100H0

**Applied Products**  
LZ-H025GBA4  
LZ-H035GBA5 / LZ-H050GBA5  
LZ-H080GBA5 / LZ-H100GBA5  
LZ-H150GBA5 / LZ-H200GBA5

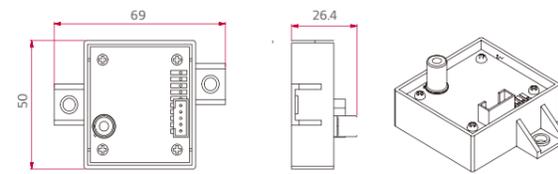
**Applicable Products**  
LZ-H050GXN0 / LZ-H080GXN0  
LZ-H100GXN0 / LZ-H050GXH0  
LZ-H080GXH0 / LZ-H100GXH0

### Key Features

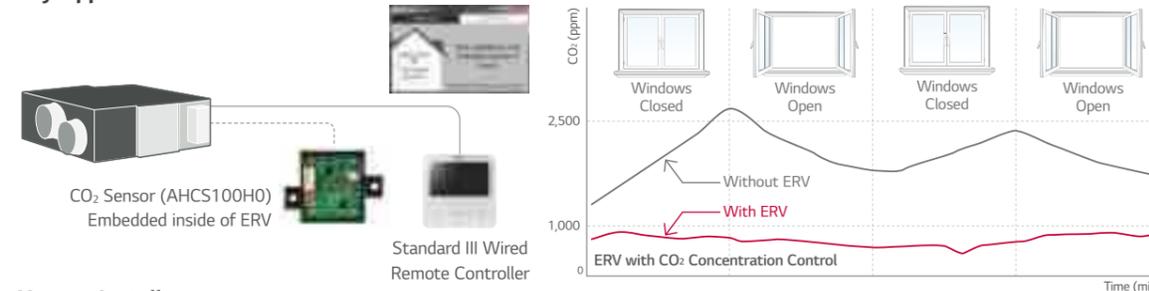
- Specification
- Applied Model : ERV (Embedded), ERV DX (Option)
  - Supply voltage : DV12V ± 5%
  - Output : 0.6 ~ 4.4V (Linear output, 240 ~ 1,760 ppm CO<sub>2</sub>)
  - Accuracy : ± 10% (2 days after installation)

- Description
- The product is especially designed to detect CO<sub>2</sub>.
  - This model requires Standard III Wired Remote Controller for display.

Dimensions (Unit : mm)

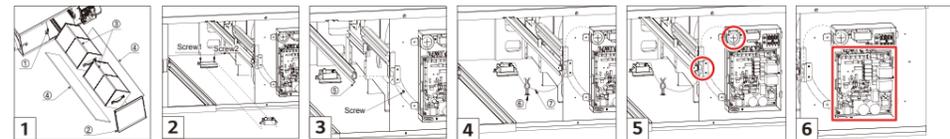


### Key Application



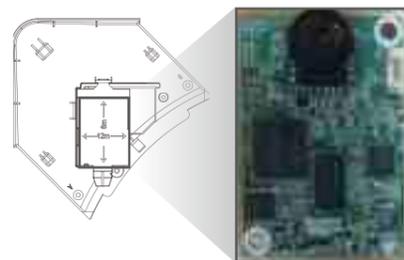
### How to Install

- Remove a screw on the service cover. Pull the service cover fixing bracket (1), then remove the service cover (2). Remove two elements (3) and two air filters (4).
  - Install the sensor with two screws.
  - Remove a screw, then remove the right side of element rail (5).
  - Press the holder (6) into the hole to fix the CO<sub>2</sub> sensor cable (7).
  - Connect the wire terminal to the CN-CO<sub>2</sub> port of PCB.
- ※ Airflow can be controlled by concentration of CO<sub>2</sub>, after setting automatic operation mode at remote controller.  
※ Use the screwdriver whose total length is less than 250mm.



## Human Detection Kit

Human Detection Kit ensures energy saving and controls wind direction.



**Model Name**  
PTVSMMA0

**Applied Products**  
PT-AAGW0  
(For Dual Vane Cassette Panel)  
PT-AFGW0  
(For Dual Vane Cassette Panel)

### Key Features

- Human Detection Control provides two functions. 'Saving Operation' for energy savings and 'Wind Direction Operation' for comfort.
- Detection Range : ~ height 4.2m
- Installation Height 2.7m → Detection area 12m x 6m
- Installation Height 3.2m → Detection area 15m x 8m
- Installation Height 4.2m → Detection area 18m x 9m

## Refrigerant Leakage Detector

R410A refrigerant leakage detector ensures room safety.



**Model Name**  
PRLDNVSO

**Applied Products**  
Multi V 5  
Multi V IV Heat Pump & Heat Recovery  
Multi V Water IV

### Key Features

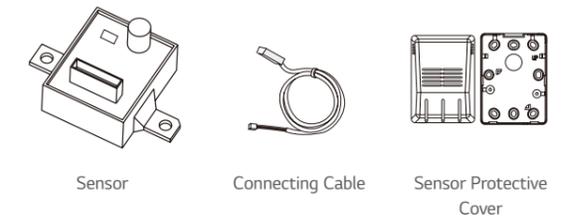
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously)
- Alarm is "on" when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is "off".
- When the alarm of the refrigerant leak detector is switched on the user must ventilate the room until the alarm is disabled.
- The detector has to be installed inside the room and it should be installed 300 ~ 500mm above the floor.

### Specification

| Parts                   | Specification                             |                          |
|-------------------------|-------------------------------------------|--------------------------|
| Sensor                  | Rated Voltage (V)                         | DC 5.0 ± 5%              |
|                         | Dimensions (W x H x D, mm)                | 31 x 44 x 20             |
|                         | Weight (g)                                | 22                       |
|                         | Detectable Refrigerant                    | R410A                    |
|                         | Detected concentration (ppm)              | 0 / 6,000 Alarm Off / On |
|                         | Operating temperature range (oC)          | -10 ~ 50                 |
|                         | Preserved temperature range (oC)          | -40 ~ 60                 |
| Connecting cable        | Average power consumption (mA)            | 35                       |
|                         | Cable length (m)                          | 10                       |
| Sensor protective cover | Dimensions of Front Plate (W x H x D, mm) | 80 x 110 x 44.6          |
|                         | Dimension of Backplate (W x H x D, mm)    | 80 x 110 x 6.5           |

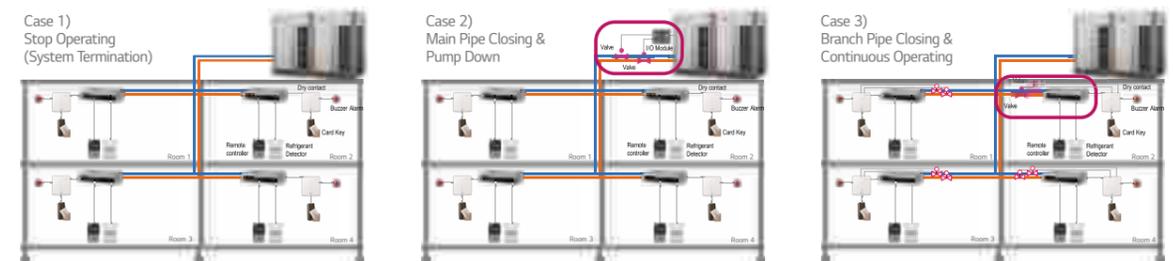
This function available for ARU\*\*\*\*L\*\*5 and 4 (MULTI V 5, MULTI V IV H/P, H/R model)

### Included Parts



### Key Application

Refrigerant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)



# EEV KIT (for Indoor Unit)

MULTI V EEV KIT is specially designed to reduce noise and make comfort environment.

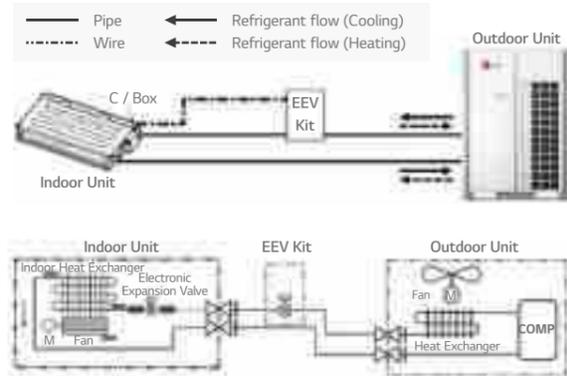


**Model Name**  
PRGK024A0

**Key Features**

- Decreasing noise level of Multi V Indoor units and easy installation.

**Key Application**



**Applied Products**

| Indoor Unit | Model             | Chassis | Applicable |
|-------------|-------------------|---------|------------|
| Cassette    | 1 Way Cassette    | TU      | ○          |
|             | 2 Way Cassette    | TT      | N/A        |
|             |                   | TS      | ○ (~5.6kW) |
|             | 4 Way Cassette    | TR      | ○          |
|             |                   | TQ      | ○ (~4.5kW) |
|             |                   | TP      | N/A        |
| TN          |                   | N/A     |            |
| Duct        | TM                | -       |            |
|             | High Sensible     | BG      | -          |
|             |                   | BR      | -          |
|             | High Static       | B8      | -          |
|             |                   | B8      | -          |
|             | Middle Static     | M1      | ○ (~5.6kW) |
|             |                   | M2      | -          |
|             |                   | M3      | -          |
|             | Low Static        | L1      | ○          |
| L2          |                   | -       |            |
| L3          |                   | -       |            |
| Etc         | Floor Standing    | CE      | ○          |
|             | Convertible       | CF      | -          |
|             |                   | VE      | ○          |
|             | Ceiling Suspended | V1      | -          |
|             |                   | V2      | -          |
|             | Wall Mounted      | SJ      | ○          |
|             |                   | SK      | ○          |
|             | SV                | -       |            |
|             | Art Cool          | SF      | ○          |
|             | Console           | QA      | ○          |
| Hydro kit   | K2                | -       |            |
|             | K3                | -       |            |

※ ○ : Applied, - : Not applied, N/A : Not Applicable

EEV Kit can be applied for the space which requires quiet environment and noise sensitive space.

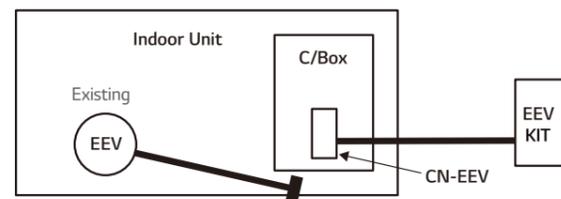


Note : If you don't use EEV of same specification, Cooling (Heating) capacity could be decreased.

**How to Install**

Open Indoor unit's control box cover.

- ① Open fully indoor unit's EEV through vacuum mode of ODU setting.
- ② Detach the Indoor unit's EEV connector from PCB and then push the reset button of Outdoor unit's PCB.
- ③ After connecting indoor unit's EEV CONNECTOR, repeat the process ① & ②. Then, connect the EEV CONNECTOR of EEV KIT in PCB of indoor unit.
- ④ Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.
- ⑤ Assemble the control box cover.



# IR Receiver

IR RECEIVER can be connected to ceiling concealed duct and floor standing unit which the customer wants to control by wireless remote controller.



**Model Name**  
PWLVRN000

**Applied Products**

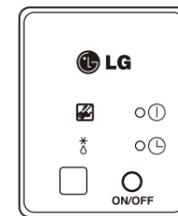
Multi V Indoors (Ceiling Concealed Duct, Floor Standing Units)

**Key Features**

- Designed for wireless control
- Indication lamps (3 colors) and Self-diagnosis function

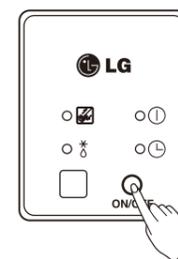
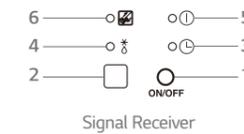
**Key Application**

Note : Do not install both the IR Receiver and Wired Remote Controller. This may cause malfunctions.



**Operation of Indication Lamps**

- ① Emergency Operation button : Turns the indoor unit on or off when remote controller is not working.
- ② Signal Detector : Receives the signal from remote controller.
- ③ Timer lamp (Green) : Lights up during the timer operation.
- ④ Hotstart lamp (Orange) : Lights up during the pre-heating operation, defrost operation as well as latent heat removal operation in heat mode. Available only for the heat pump models, not cooling only models.
- ⑤ System On / Off lamp (Red) : Lights up during system controller operation.
- ⑥ Filter Sign lamp (Green) : Lights up after 2,400 hours from the time of first power on operation.



**Test Run Mode**

After installing the product, you must run a Test Run mode. Press the Emergency Operation button for 5 seconds, until the LED flickers. Then the indoor unit, duct runs cooling mode for 18 minutes, where the setting temperature is 18°C and the fan speed is high.

## Multi-tenant Power Module

System operation is stable when indoor unit power is lost.



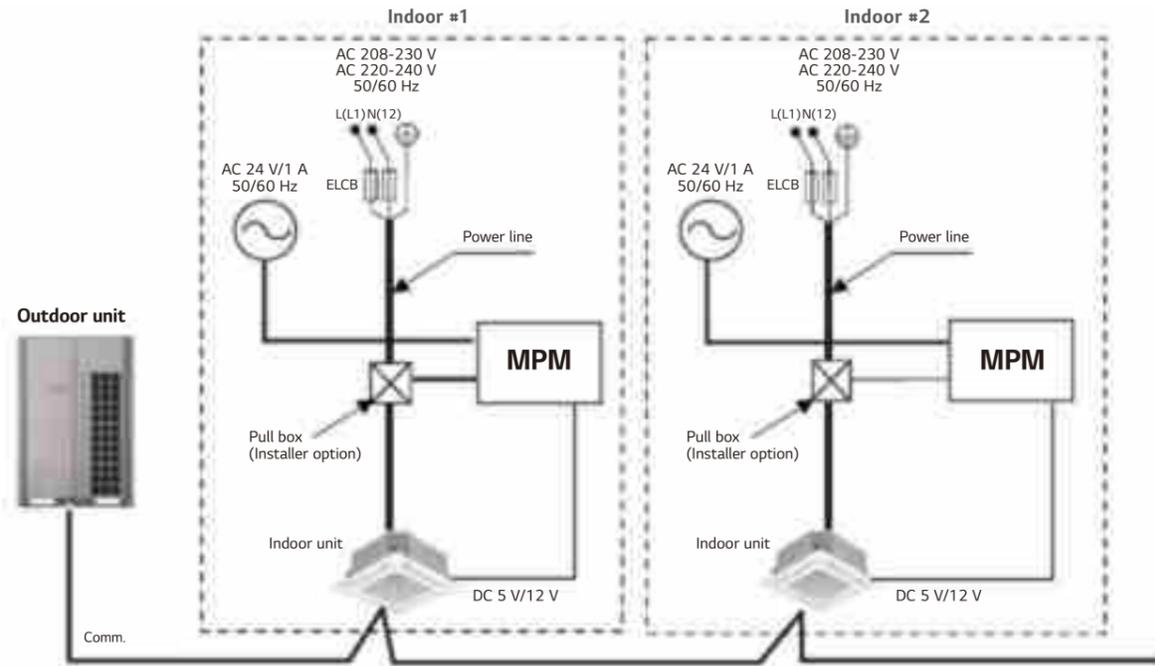
**Model Name**  
PINPMB001

**Applied Products**  
Multi V Indoor Units

**Key Features**

- Multi-tenant site IDUs are powered separately, some of IDU power is gone by each tenant. In this case, system operation is not stable without Multi-tenant Power Module.
- This module power each EEV for stabilizing system operation.

**Installation Scene**



※ When Multi-tenant Power Module is adopted, CN-EXT must used for it. Instead of being used CN-EXT, PDRYCB000 (220Vac input) / PDRYCB100 (24Vac Input) Module are being used for Single contact.

## Auxiliary Heater Relay Kit

Providing an efficient way to add auxiliary heat.



**Model Name**  
PRARS1

**Applied Products**  
Wall Mounted, Art Cool Mirror, Art Cool Gallery

**Model Name**  
PRARH1

**Applied Products**  
1, 2, 4 Way Ceiling Cassette, High Static Ducted, Low Static Ducted, Ceiling Suspended

**Key Features**

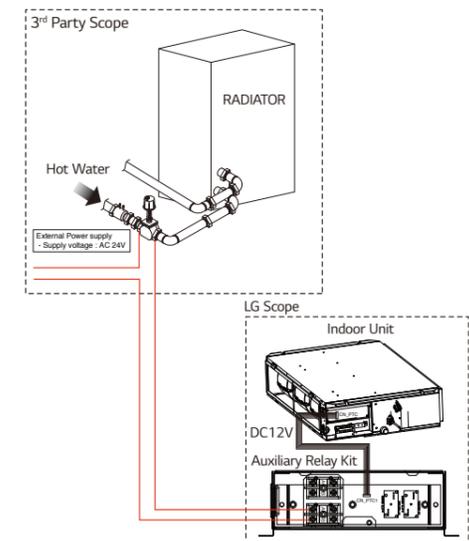
- Provides two stages of auxiliary heat for indoor unit.
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

**Included Parts**

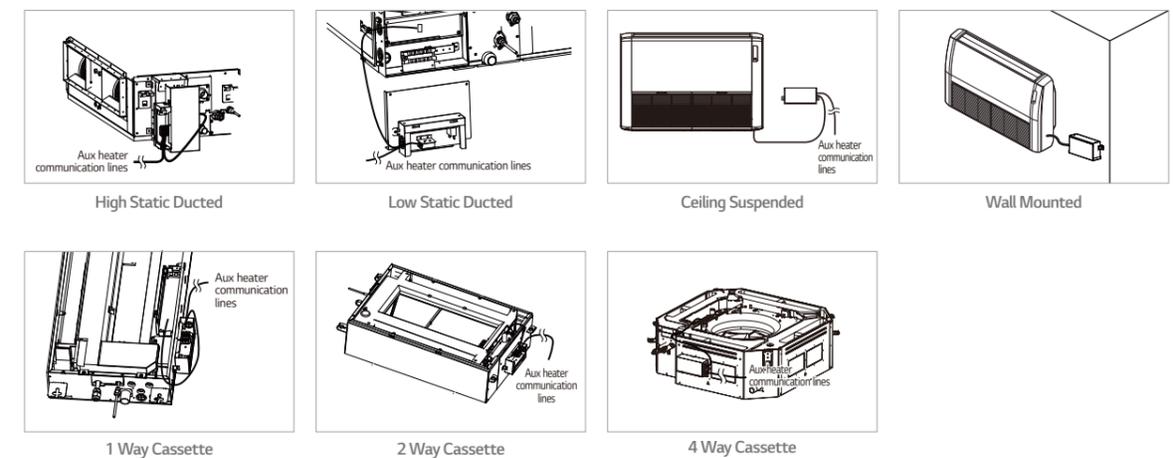
| Model  | PRARH1                     |       |            |                     |
|--------|----------------------------|-------|------------|---------------------|
| Item   | Auxiliary Heater Relay Kit | Screw | Insulation | Installation Manual |
| Q'ty   | 1                          | 2     | 2          | 1                   |
| Figure |                            |       |            |                     |

| Model  | PRARS1                     |       |            |                     |
|--------|----------------------------|-------|------------|---------------------|
| Item   | Auxiliary Heater Relay Kit | Screw | Insulation | Installation Manual |
| Q'ty   | 1                          | 2     | 2          | 1                   |
| Figure |                            |       |            |                     |

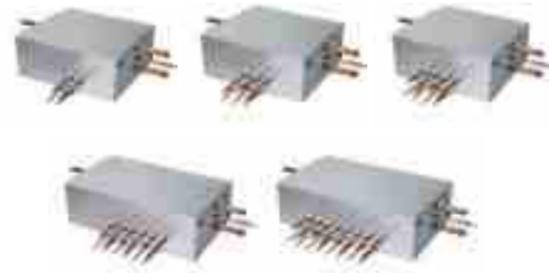
**Key Application**



**How to Install**



# Heat Recovery



### Model Name

- PRHR023 (2 Branch Unit)
- PRHR033 (3 Branch Unit)
- PRHR043 (4 Branch Unit)
- PRHR063 (6 Branch Unit)
- PRHR083 (8 Branch Unit)

### Applied Products

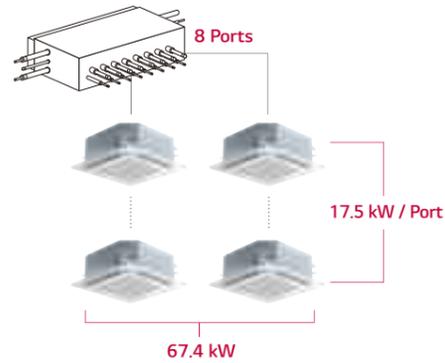
- Multi V 5
- Multi V IV
- Multi V Water IV

### Key Features

- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in HR unit makes the system efficiency maximum.

### Connection Capacity

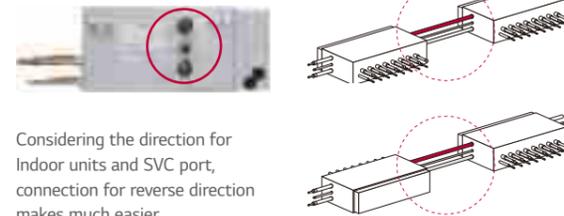
Maximum number of connectable indoor units :  
64 IDUs / HR unit (in case of 8 ports model)



### Flexible Connection

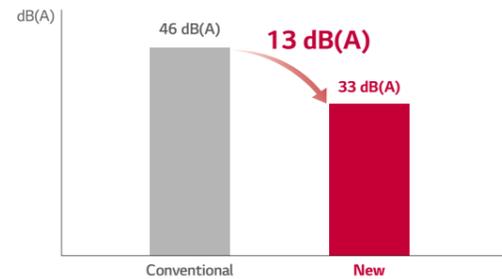
Series connection can be installed without pipes crossing.

New



Considering the direction for Indoor units and SVC port, connection for reverse direction makes much easier

### Reduce Noise



Test Condition (ISO Standard)  
 - Temp. : (Cooling) 27°C DB / 19°C WB, 35°C DB / 24°C WB  
 (Heating) 20°C DB / 15°C WB, 7°C DB / 6°C WB  
 - Operating : cooling → heating switching operation

### Included Parts

- HR unit (1EA)
- Hanging bolts M10 or M8 (4EA)
- Nut M8 or M10 (8EA)
- Washers M10 (8EA)
- Reducers

### Specification

| Model                                                            |              | PRHR023         | PRHR033         | PRHR043                      | PRHR063                      | PRHR083                      |                              |                              |
|------------------------------------------------------------------|--------------|-----------------|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Number of Branch                                                 | EA           | 2               | 3               | 4                            | 6                            | 8                            |                              |                              |
| Maximum Connectable Capacity of Indoor Units (Per branch / unit) | kW           | 17.5 / 35       | 17.5 / 52.5     | 17.5 / 67.4                  | 17.5 / 67.4                  | 17.5 / 67.4                  |                              |                              |
| Maximum Number of Connectable Indoor Units Per Branch            | EA           | 8               | 8               | 8                            | 8                            | 8                            |                              |                              |
| Nominal Input                                                    | Cooling      | kW              | 0.040           | 0.040                        | 0.040                        | 0.076                        | 0.076                        |                              |
|                                                                  | Heating      | kW              | 0.038           | 0.038                        | 0.038                        | 0.072                        | 0.072                        |                              |
| Net. Weight                                                      | kg           | 18.5            | 20.3            | 22.0                         | 28.3                         | 31.8                         |                              |                              |
| Dimensions (W x H x D)                                           | mm           | 786 x 218 x 657 | 786 x 218 x 657 | 786 x 218 x 657              | 1,113 x 218 x 657            | 1,113 x 218 x 657            |                              |                              |
| Piping Connections                                               | Indoor Unit  | Liquid          | mm (inch)       | 9.52 (3/8)                   | 9.52 (3/8)                   | 9.52 (3/8)                   | 9.52 (3/8)                   | 9.52 (3/8)                   |
|                                                                  |              | Gas             | mm (inch)       | 15.88 (5/8)                  | 15.88 (5/8)                  | 15.88 (5/8)                  | 15.88 (5/8)                  | 15.88 (5/8)                  |
|                                                                  | Outdoor Unit | Liquid          | mm (inch)       | 9.52 (3/8)                   | 12.7 (1/2)                   | 15.88 (5/8)                  | 15.88 (5/8)                  | 15.88 (5/8)                  |
|                                                                  |              | Low Pressure    | mm (inch)       | 22.2 (7/8)                   | 28.58 (11/8)                 | 28.58 (11/8)                 | 28.58 (11/8)                 | 28.58 (11/8)                 |
|                                                                  |              |                 | High Pressure   | mm (inch)                    | 19.05 (3/4)                  | 22.2 (7/8)                   | 22.2 (7/8)                   | 22.2 (7/8)                   |
|                                                                  |              | Power Supply    | ∅, V, Hz        | 1, 220-240, 50<br>1, 220, 60 |

### Reducers for Indoor Unit and HR Unit

(Unit : mm)

| Model               | Liquid | High Pressure | Low Pressure |
|---------------------|--------|---------------|--------------|
| Indoor unit reducer |        |               |              |
| PRHR023             |        |               |              |
|                     |        |               |              |
| HR unit reducer     |        |               |              |
|                     |        |               |              |
|                     |        |               |              |

# Y Branch and Header Branch

For refrigerant distribution of indoor units.



**Model Name**  
Refer to specifications

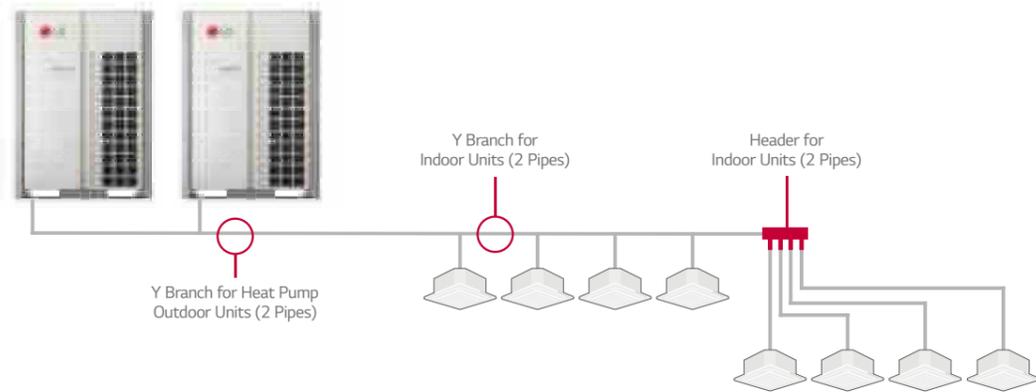
**Applied Products**

- Multi V S
- Multi V IV
- Multi V III, Multi V Plus II, Multi V Plus
- Multi V S
- Multi V Water IV
- Multi V Water II
- Multi V Water S

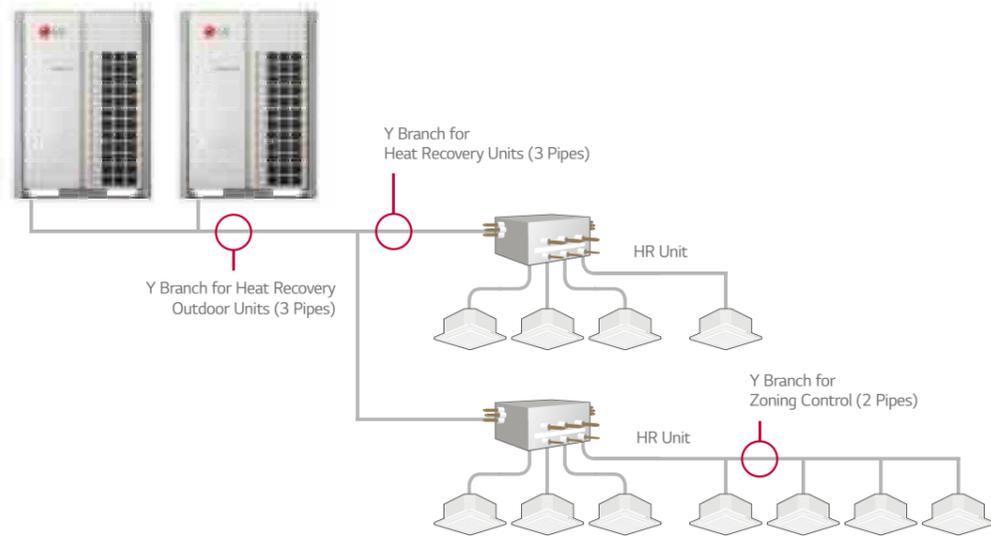
**Key Features**

- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

**Key Application**  
Heat Pump System



**Heat Recovery System**



**Specification**  
Header Branch  
**R410A**

(Unit : mm)

| Model                | Gas Pipe | Liquid Pipe |
|----------------------|----------|-------------|
| ARBL054 (4 Branch)   |          |             |
| ARBL057 (7 Branch)   |          |             |
| ARBL104 (4 Branch)   |          |             |
| ARBL107 (7 Branch)   |          |             |
| ARBL1010 (10 Branch) |          |             |
| ARBL2010 (10 Branch) |          |             |

# Piping Accessories

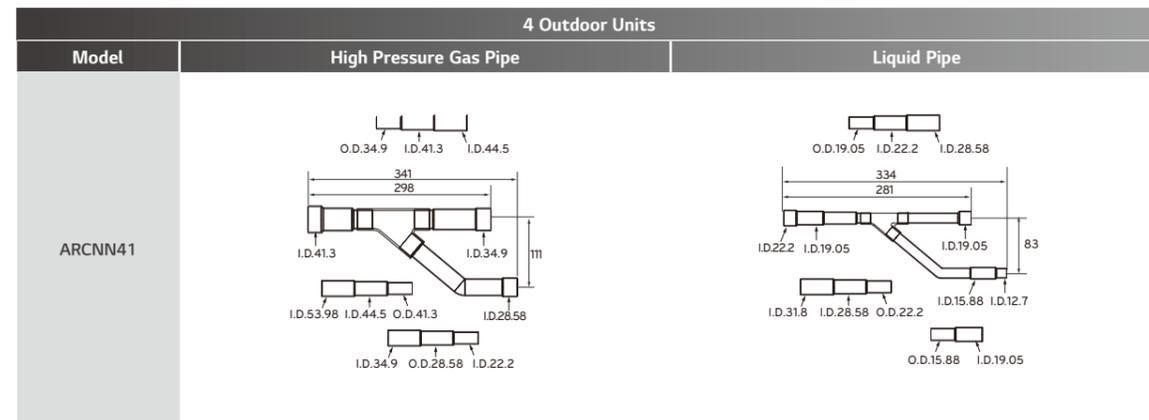
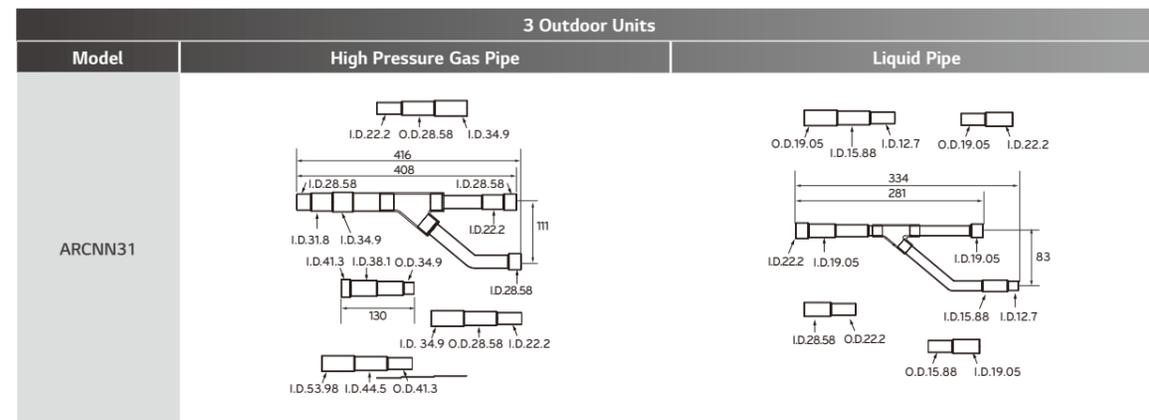
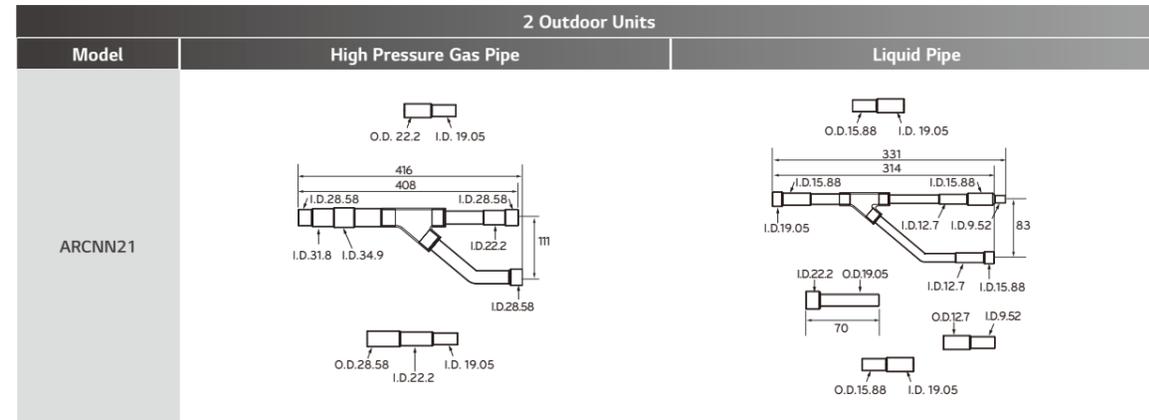
Y Branch pipe for connection of outdoor units.

## Specification

Heat Pump

**R410A** MULTI V 5, MULTI V IV, MULTI V III, MULTI V WATER IV, MULTI V WATER II

(Unit : mm)

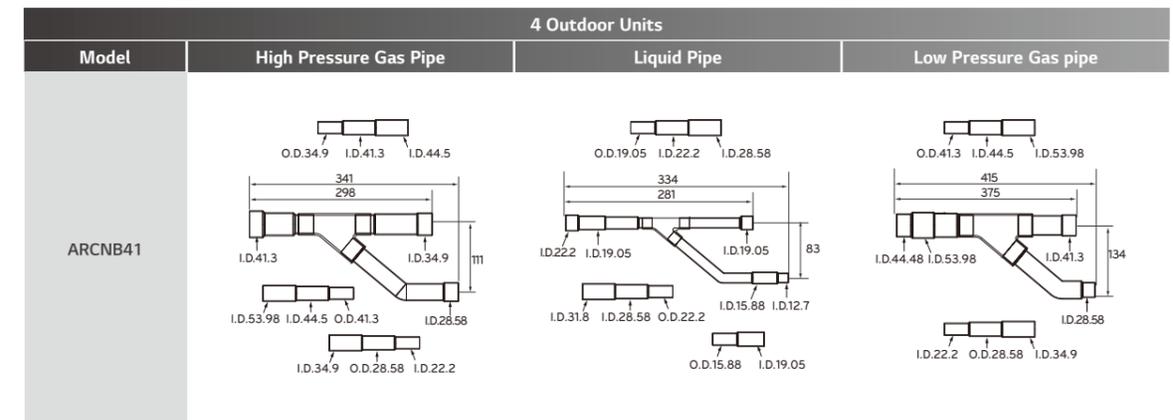
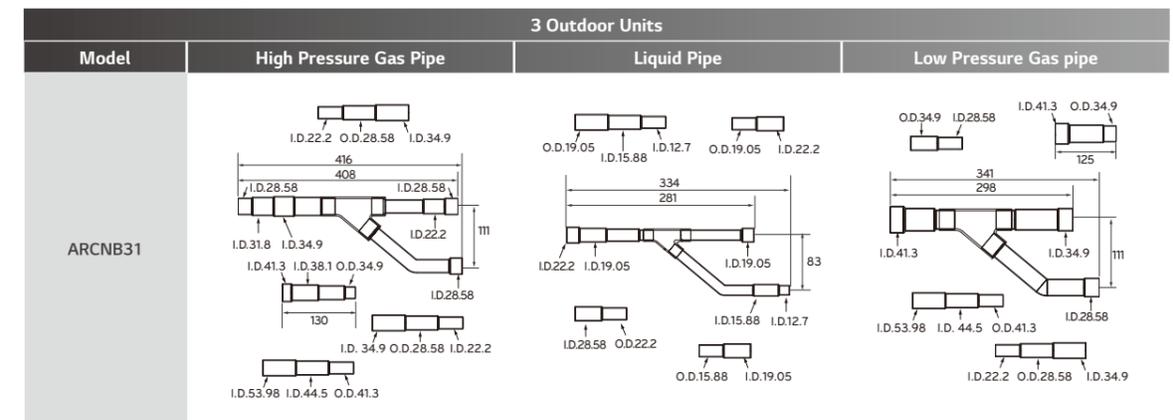
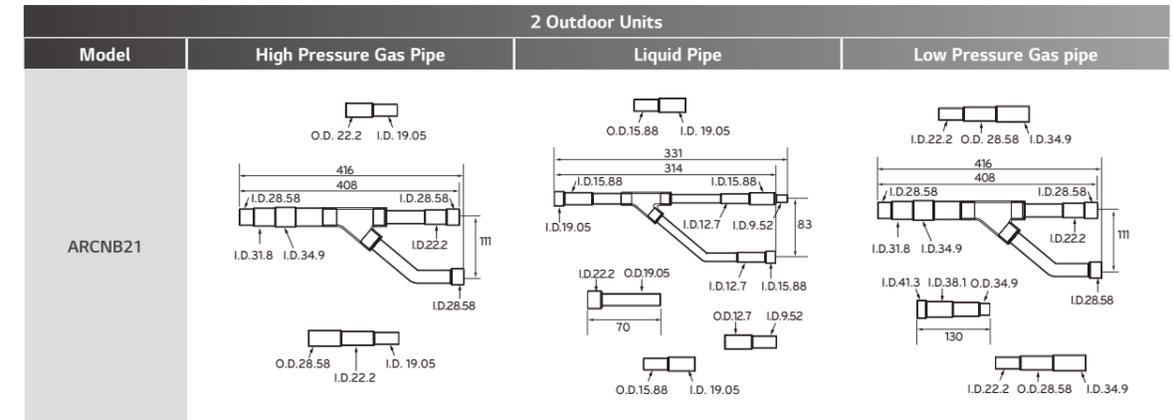


## Specification

Heat Recovery

**R410A** MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)



# Piping Accessories

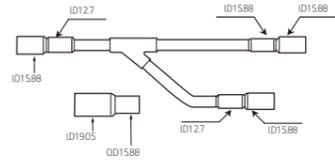
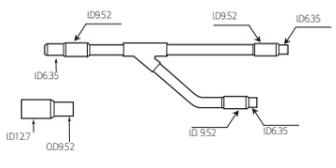
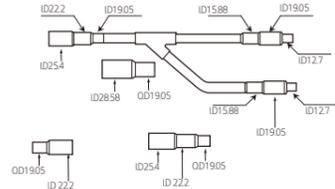
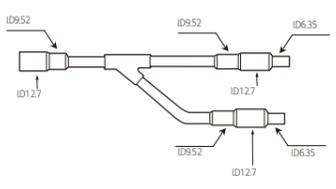
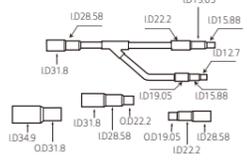
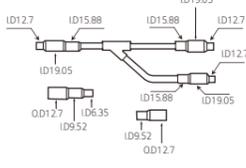
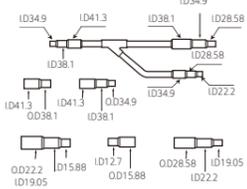
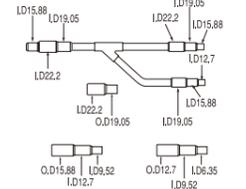
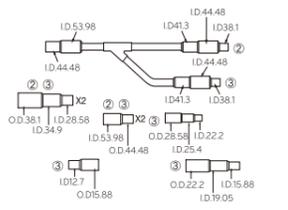
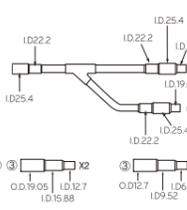
Y Branch pipe for connection of outdoor units.

## Specification

Heat Pump, Heat Recovery Zone Control

**R410A** MULTI V 5, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

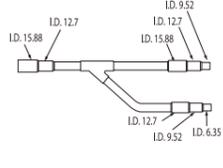
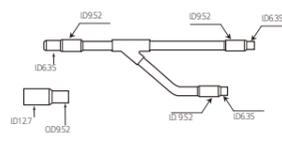
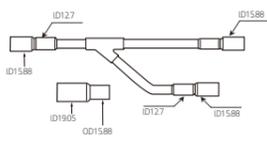
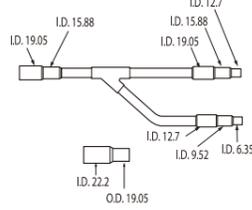
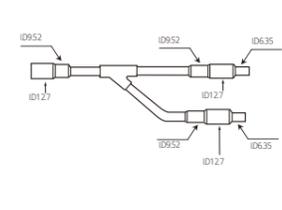
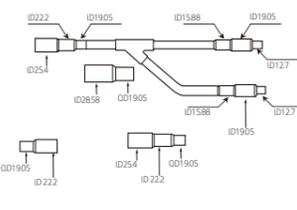
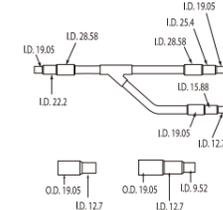
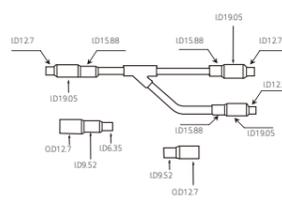
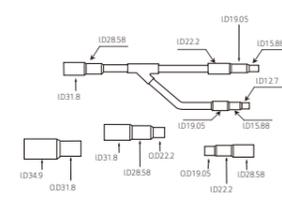
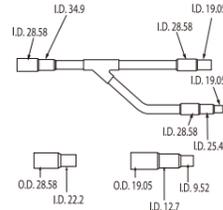
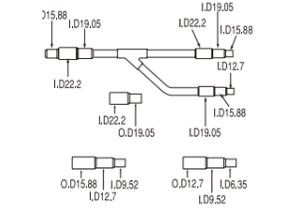
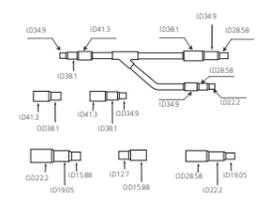
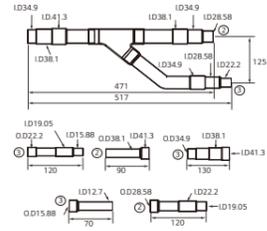
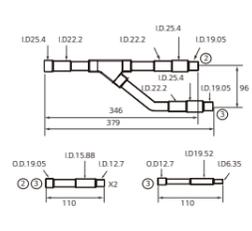
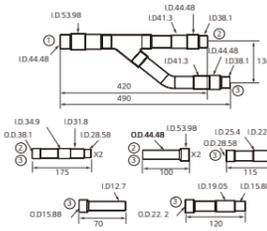
| Model      | Gas Pipe                                                                            | Liquid Pipe                                                                           |
|------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARBLN01621 |    |     |
| ARBLN03321 |    |     |
| ARBLN07121 |  |   |
| ARBLN14521 |  |   |
| ARBLN23220 |  |  |

## Specification

Heat Recovery

**R410A** MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)

| Model      | High Pressure Gas Pipe                                                                | Liquid Pipe                                                                           | Low Pressure Gas Pipe                                                                 |
|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARBLB01621 |    |    |    |
| ARBLB03321 |    |    |    |
| ARBLB07121 |   |   |   |
| ARBLB14521 |  |  |  |
| ARBLB23220 |  |  |  |

## Refrigerant Charging Kit

Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive.



**Model Name**  
PRAC1

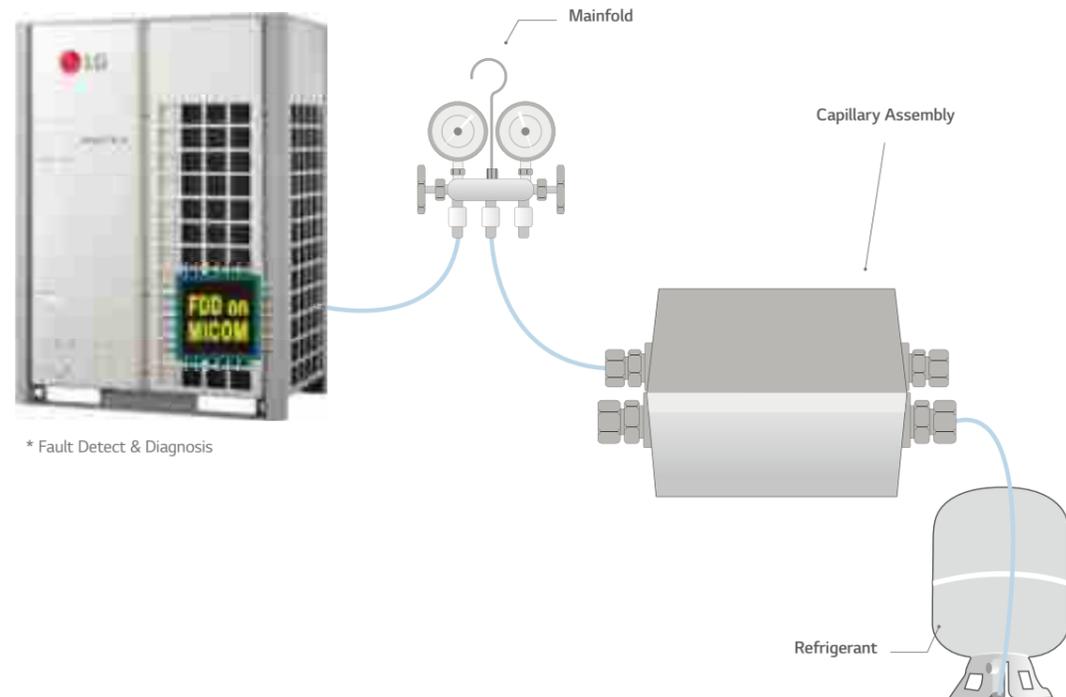
**Applied Products**

- MULTI V 5
- MULTI V IV Heat Pump
- MULTI V IV Heat Recovery
- MULTI V III Heat Pump
- MULTI V III Heat Recovery
- MULTI V PLUS II
- MULTI V SYNC II

**How to Use**

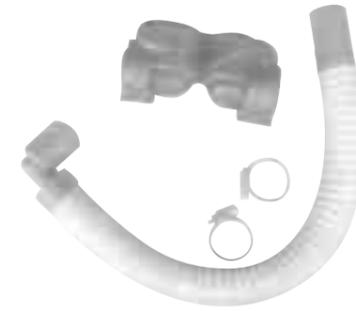
- Arrange manifold, capillary assembly, refrigerant vessel and scale.
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure.
- Connect manifold and capillary tube. Use designated capillary assembly only. If designated capillary assembly isn't used, the system may get damaged.
- Connect capillary and refrigerant vessel
- Purge hose and manifold
- After "568" is displayed, open the valve and charge the refrigerant.

**Key Application**



## Drain Hose

Easy drain installation.



**Model Name**

- PHDHA05T
- PHDHA07T
- PHDHA05B
- PHDHA07B

**Applied Products**

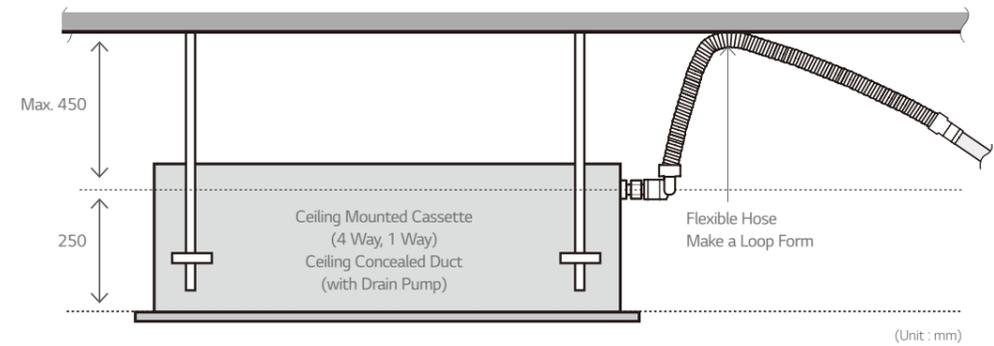
Multi V Indoor units

**Key Features**

- It reduces the installation time by over 40% with elbow-less drain hose.
- Drain pump covers maximum 700mm high, featuring easy piping installation.

**Key Application**

- Ceiling Mounted Cassette and Ceiling Concealed Duct. (Refer to PDB for applicable model)



**Specification**

| Model    | Length | Quantity |
|----------|--------|----------|
| PHDHA05T | 500mm  | 30EA     |
| PHDHA07T | 700mm  | 30EA     |
| PHDHA05B | 500mm  | 5EA      |
| PHDHA07B | 700mm  | 5EA      |

# Stopper Valves



### Model Name

- PRVT120 (Under 12.7mm)
- PMVT780 (Under 22.2mm)
- PMVT980 (Under 28.58mm)

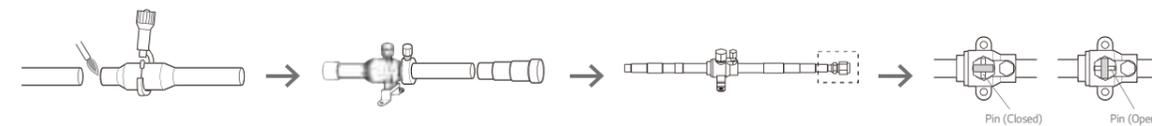
### Key Features

- This unit can be applied for the additional indoor unit's installation.
- This unit can be applied for each indoor unit's service.

### Specification

| Model   | Specification |
|---------|---------------|
| PRVT120 |               |
| PRVT780 |               |
| PRVT980 |               |

### How to Install

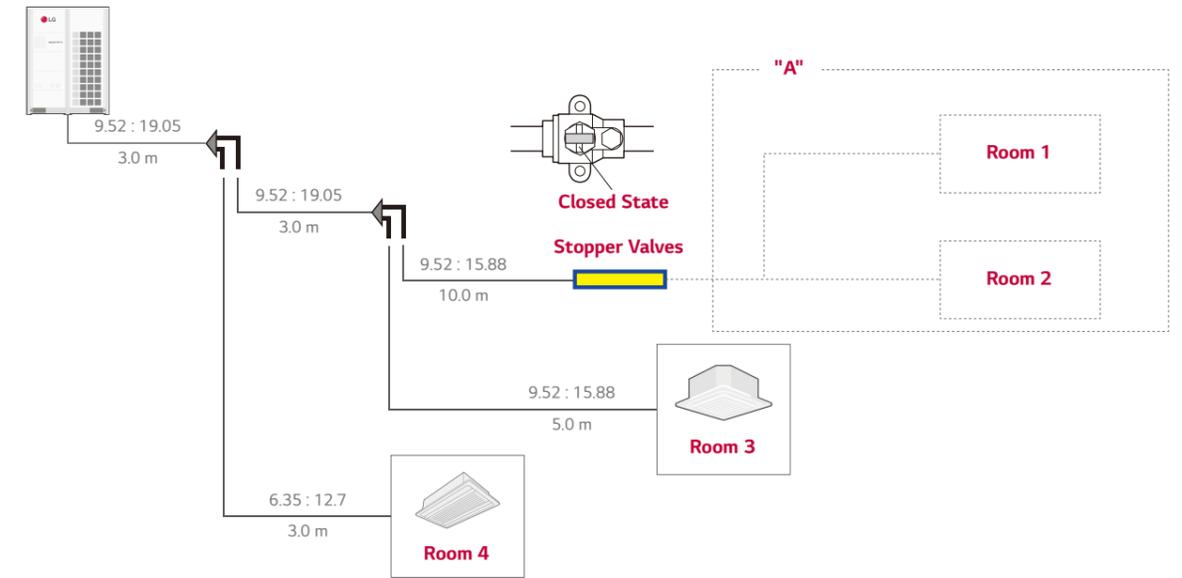


- Cut the inlet side of the connector, and weld the pipe
- If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
- When installing a stopper valve, the flare part should be facing towards additional indoor unit.
- When installing an additional indoor unit, the SVC valve should be in closed state.

※ When welding, service valve should be wrapped by wet cloth.

### Application

(Room 3 & 4 : in use / Room 1 & 2 : need to install indoor units)



- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.

