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2022

MULTI V™

2022

LG AIR SOLUTION

MULTI V™

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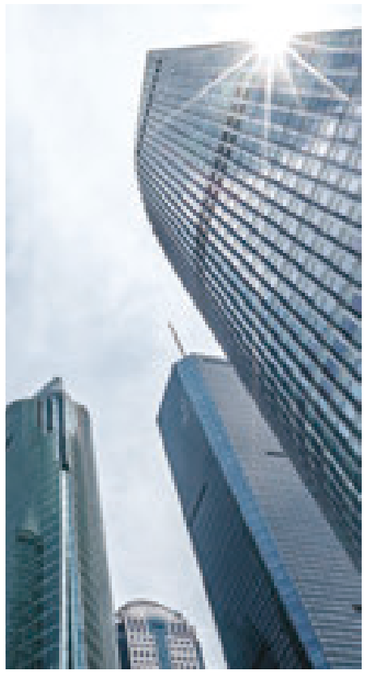
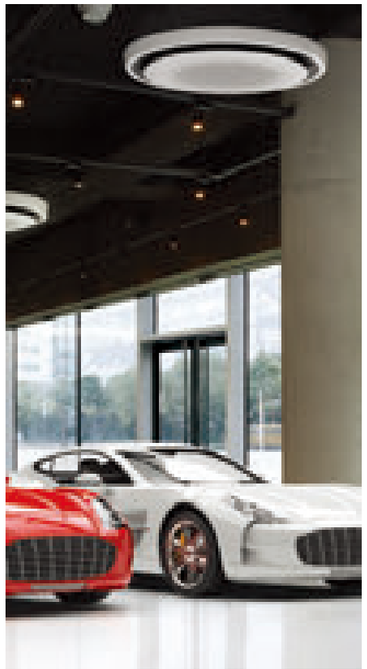

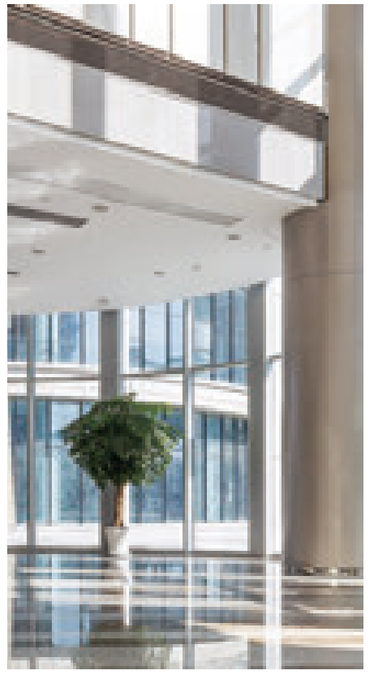

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LG AIR SOLUTION

※ LG Air Solution production sites

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls. As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner. As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years. In 2008, LG sold its 100 millionth air conditioning unit, becoming the first company in the industry to reach that significant milestone. The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry. By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist. The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise. This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.

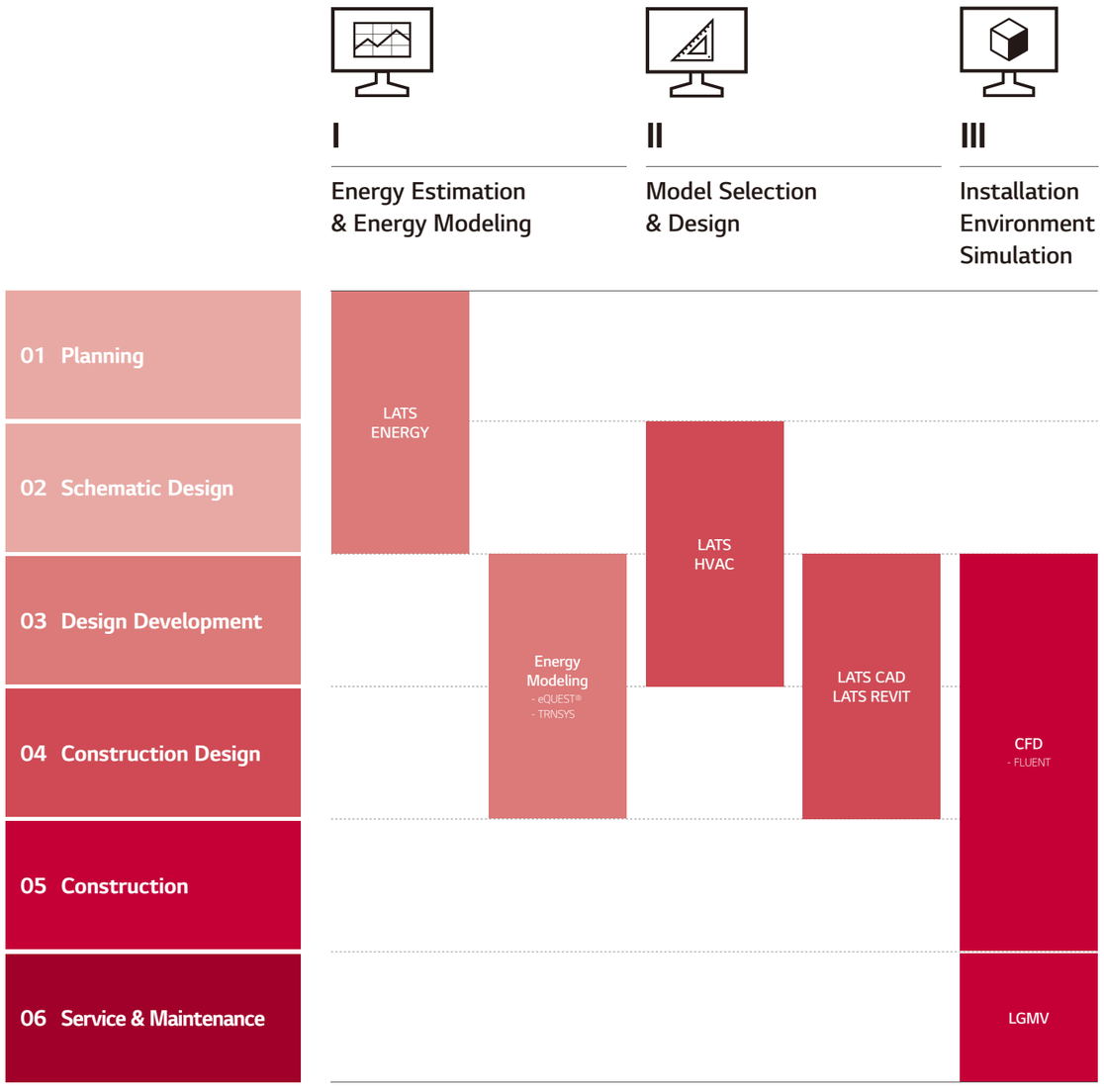
LG ACADEMIES PROVIDE BEST SKILL

LG believes in Knowledge sharing and this being done at LGEIL with 2 Academies located at Greater Noida and Pune within factory premises. These academies with dedicated Trainer impart Product information to service including hand on Practise with Brazing system. LG Academies ensures in providing best skill to Customer/Dealers and LG Employees with there scheduled training calendar.

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 : I. Draft Energy Estimation & Energy Modeling, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers a faster, easier, and a more accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

* LATS : LG Air-conditioner Technical Solution

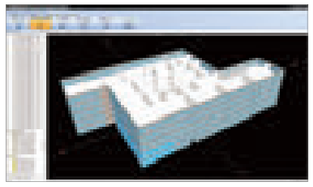


01 Draft Energy Estimation

LATS Energy
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project.

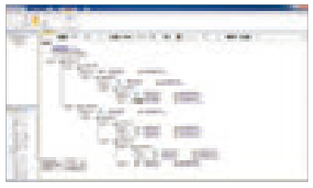
02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More
These are certified commercial programs which assess the HVAC system efficiency and building's annual energy saving for building standard or certification 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

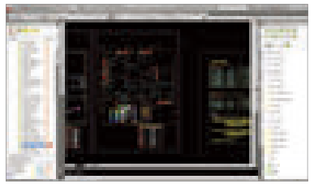
LATS HVAC
LATS HVAC is an integrated model selection program of LG HVAC products, enabling an accurate and quick selection on the best model suitable to each sites. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing of reports.



04 Design

LATS CAD
LATS CAD enables faster and more accurate 2D design of LG HVAC products. It also enables modules for quotation and installation review that minimize inherent problems appearing during installation.
※ AutoCAD program is required.

LATS REVIT
LATS REVIT is developed to make 3D design of LG HVAC products.
※ 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 of malfunction that could occur after construction.

06 Service & Maintenance

LGMV
LGMV offers real-time MULTI V cycle monitoring. During start-up, it's possible to check whether it is normal operation or not. 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 does not require regular manpower for maintenance.
- With diverse control systems, maintenance cost is minimized.

Reliability Guaranteed in Every Aspect
- Ultimate Inverter Compressor developed and manufactured in Korea.
- Corrosion resistant Black Fin for harsh condition operations.
- Smart Oil management (Auto Oil balancing and Active Oil return) decreases compressor damage.

Customized Comfort and Solution
- Compatible option between Heat pump and Cooling only system is possible.

Benefits for Consultants

Versatile Solutions
- Air-cooled, Water-cooled, Heating, and Air Handing Unit interlocked solutions.

Professional Designing 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.

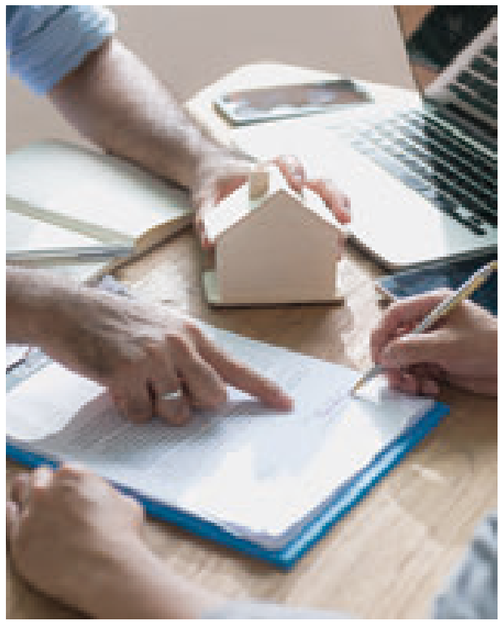
Optimized Comfort in HVAC Designing
- Flexible and Longer piping length eases HVAC designing process.
- Meets any type of customer requirements of diverse environment, design condition, and building applications.

Benefits for Developers / Construction Companies

Green Solutions
- Helps scoring LEED / BREEAM points.
- Renewable energy solution provided through geothermal application.

Maximizing Space Utilization
- Large Capacity in compact size enhances space utilization.

Smart Building Solutions
- Easy interlock with Building Management System.
- Wi-Fi control available for anytime anywhere (via mobile app).
- Energy management and control according to usage and planning is possible with LG's centralized control solution.



Benefits for End-users

Operation Cost Saving
- High efficiency is assured through all capacity and lineup.
- Maximum 31% of cost saved through MULTI V 5 Dual Sensing Smart Load Control*.

Comfortable Cooling & Heating
- Smart Load Control maximizes indoor comfort level.
- Dual sensing offers pleasant and comfortable cooling and heating environment.

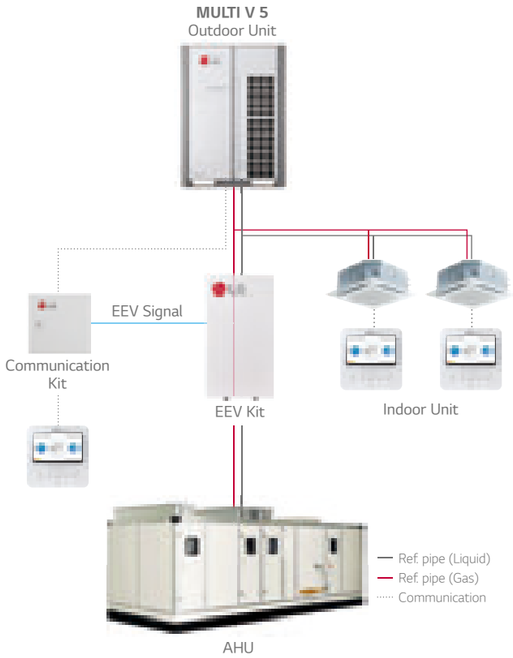
Convenient Functions
- Low-noise operation provides a restful environment.

* Dual Sensing Smart Load Control based, below 50% humidity, model ARUN260LTE5

DIVERSE INTEGRATED SOLUTION

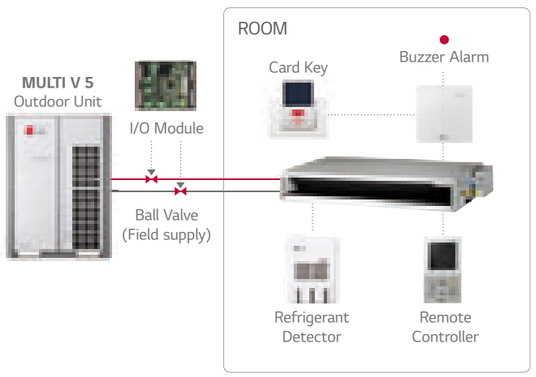
Air Handling Unit (AHU) Solution

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).



※ Regulation : EN378, BREEAM, ASHRAE Std. 15 & 34

TMS (Total Management System)

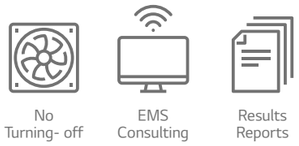
HVAC-specialized management system, TMS, covers core technology,. TMS provides efficient building management. It enables remote control system, facility maintenance system, and proactive maintenance system. Through TMS, regardless of time and space, HVAC system can be monitored and controlled, and also reduce repairing time in case of malfunction. In addition, energy saving operation is possible upon on situation and environment.

RCS | Remote Control System

Real-time monitoring and control

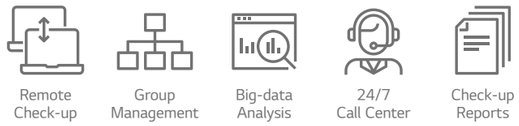
EMS | Energy Management System

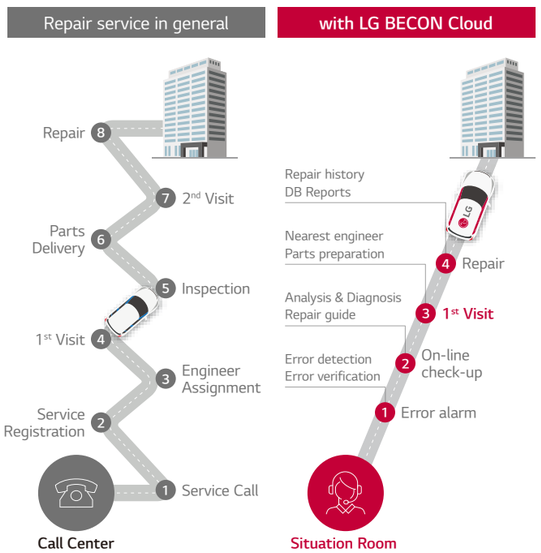
User friendly saving modes



FMS | Facility Maintenance System

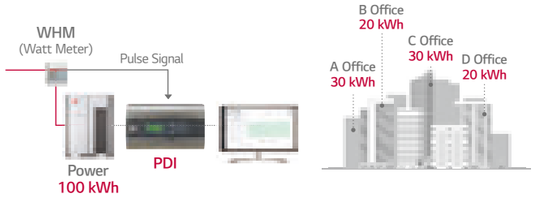
Proactive repair based on real-time diagnosis





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.

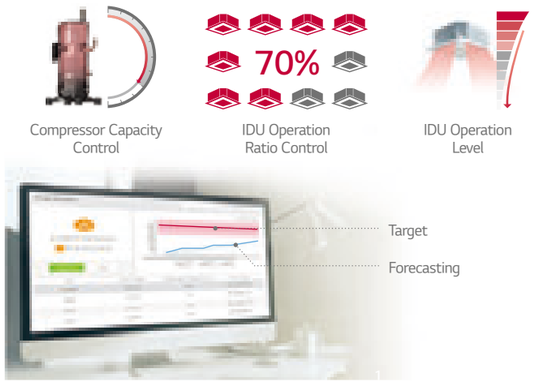


Total Control of Any Device

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.

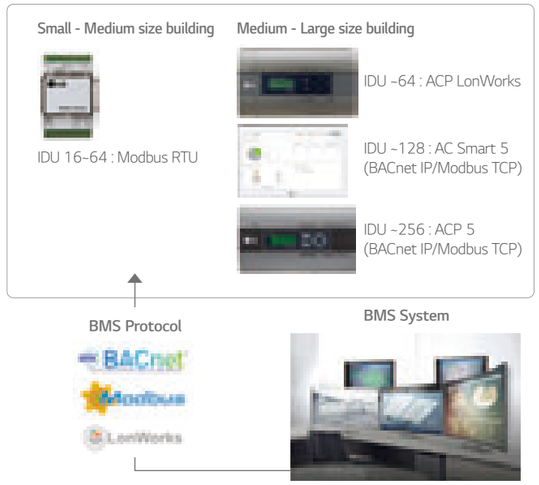
Energy Management Solution

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 through out 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.



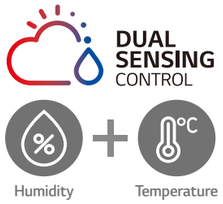
Interlocking Solution Using Dry Contact

3rd 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 3rd party devices such as lighting, a fan, or a radiator, based on things 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.

10 ADVANTAGES OF MULTI V

1 ULTIMATE EFFICIENCY

Ultimate Energy Saving with Dual Sensing Control.



2 INNOVATIVE TECHNOLOGIES

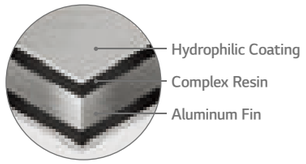
Ultimate Inverter Compressor
- **MULTI V 5**

Revolutionary Scroll R1 Compressor
- **MULTI V S**

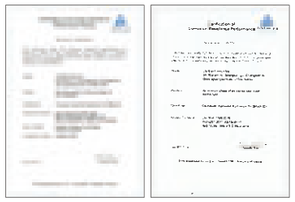
ULTIMATE INVERTER COMPRESSOR R1 Compressor™

3 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 ISO21207
- ASTM B117 / ISO 9227 (10,000 hours)

Internal coating to enhance corrosion resistance can provide from Pune Factory.

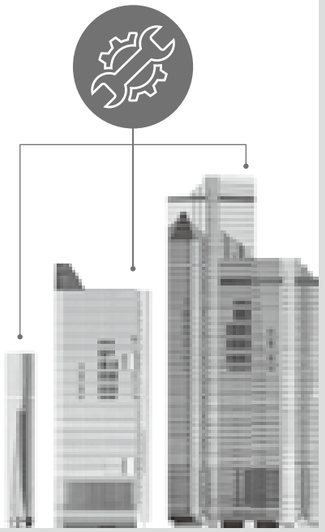
※ Applicable models - 8 to 22HP

4 DESIGN FLEXIBILITY

Flexible installation with large capacity outdoor unit with wide operation range (Up to 53°C).

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.



5 SMART CONTROLS

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

6 BUSINESS SUPPORT

- Engineering Tools & Support
- LG Air Conditioning Academy
- LG Factory in India

7 DIVERSE PRODUCT LINE UP

LG offers a specialized product lineup suited for various business environments, perfectly responding to the unique conditions no matter the use case.

8 DIVERSE INTEGRATED SOLUTION

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

9 AIR PURIFICATION

5-Steps air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment.

10 BRAND RELIABILITY

Global production sites facilitate world-class customer service.

BLACK FIN
HEAT EXCHANGER

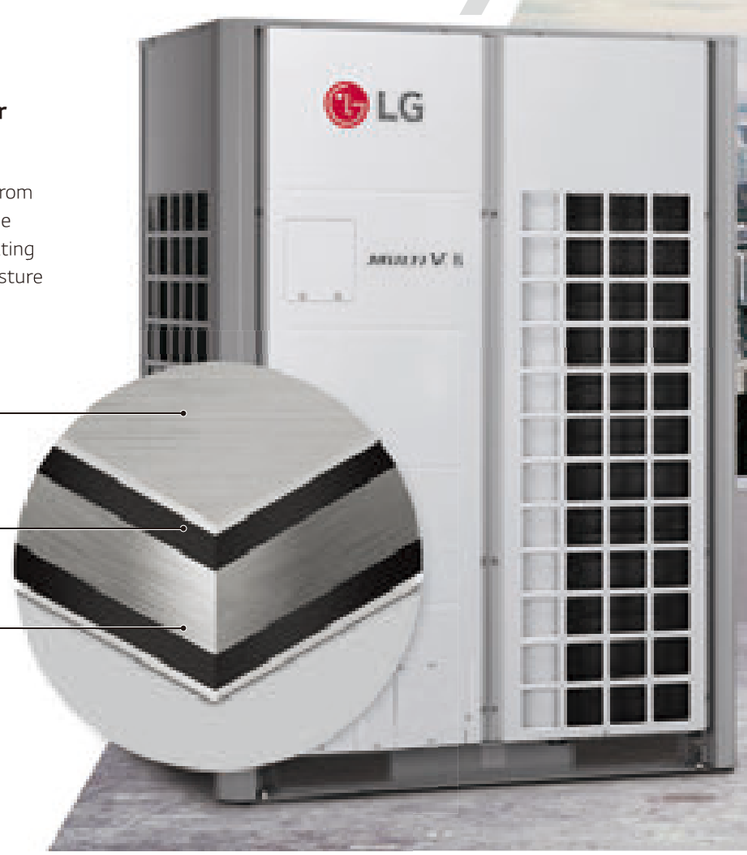
LG's exclusive "Black Fin" heat exchanger is specially designed for durable and long-lasting performance even in corrosive environments. The black coating is applied for protection from various corrosive external conditions and the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Black Fin

"Strong Durability Regardless of External Environment"

Heat Exchanger with Black Fin for Corrosion Resistance

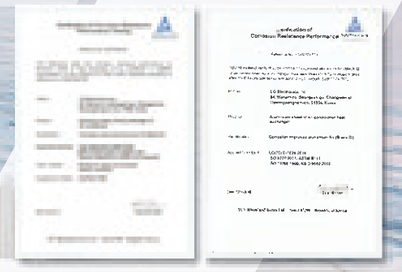
The black coating is applied for protection from various corrosive external conditions and the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup.



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

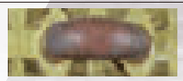


Corrosion Resistance Proven by Verified Tests

LG Corrosion Resistance solution passed ISO accelerated corrosion test and the result has been verified by prestigious global certification organization, TUV.

※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / ISO 9227 (10,000 hours)

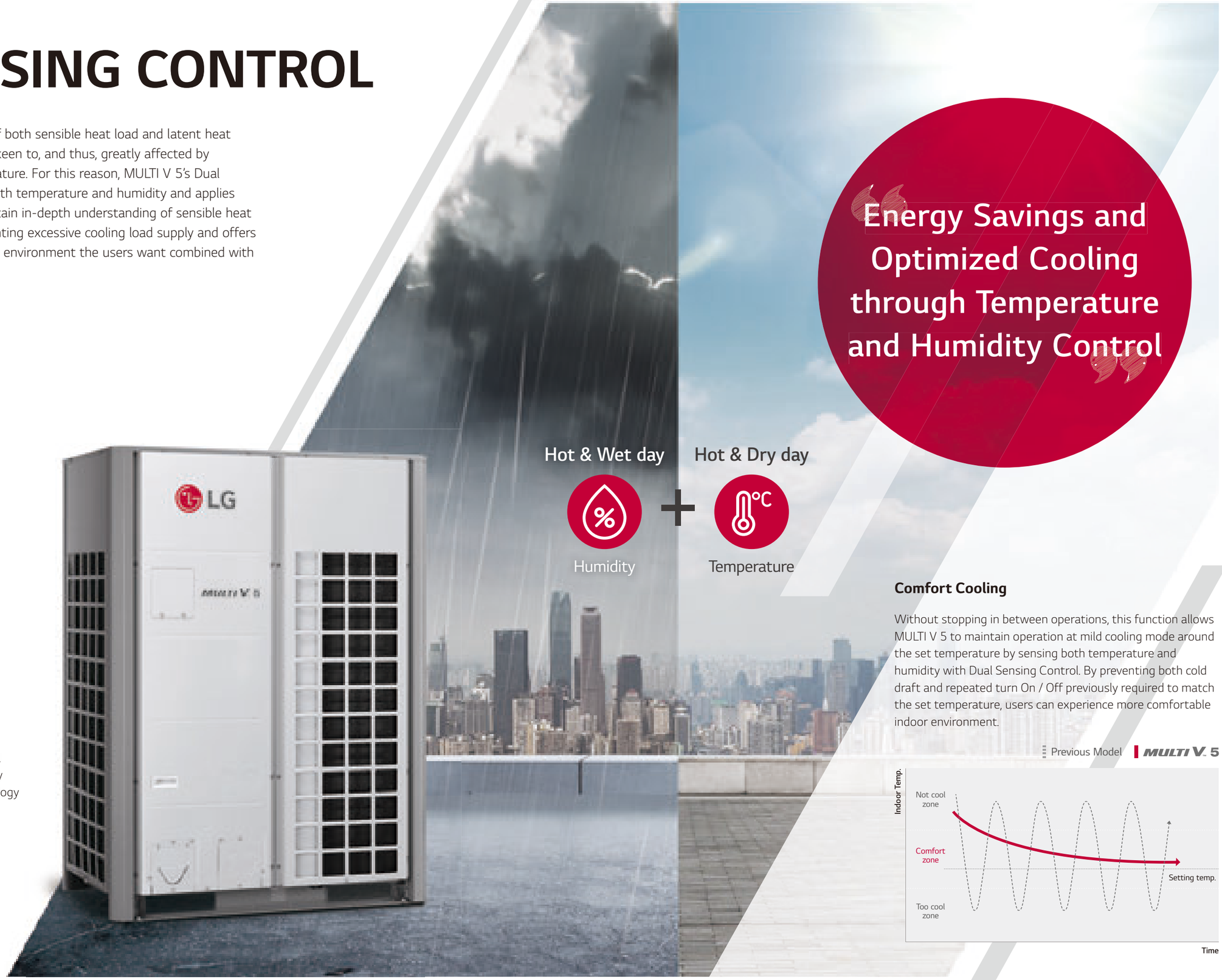
Condition of Salt Spray Test

Heat Exchanger	Test Period (hr)		
	1,000	2,000	3,000
Previous Fin			
Black Fin			

DUAL SENSING CONTROL

The cooling load is based on the amount of both sensible heat load and latent heat load. Most importantly, the cooling load is keen to, and thus, greatly affected by external humidity and the outdoor temperature. For this reason, MULTI V 5's Dual Sensing Control applied function senses both temperature and humidity and applies sensed data for load control in order to obtain in-depth understanding of sensible heat load and latent heat load. This helps preventing excessive cooling load supply and offers the most pleasant and comfortable cooling environment the users want combined with reduction in energy consumption.

DUAL SENSING CONTROL



"Energy Savings and Optimized Cooling through Temperature and Humidity Control"

Smart Load Control (SLC)

Smart Load Control function enables comprehensive understanding of environmental conditions in order to optimize energy efficiency and maximize indoor comfort level. This technology allows active control of discharge refrigerant temperature which eventually increases the efficiency in compare to previous models.

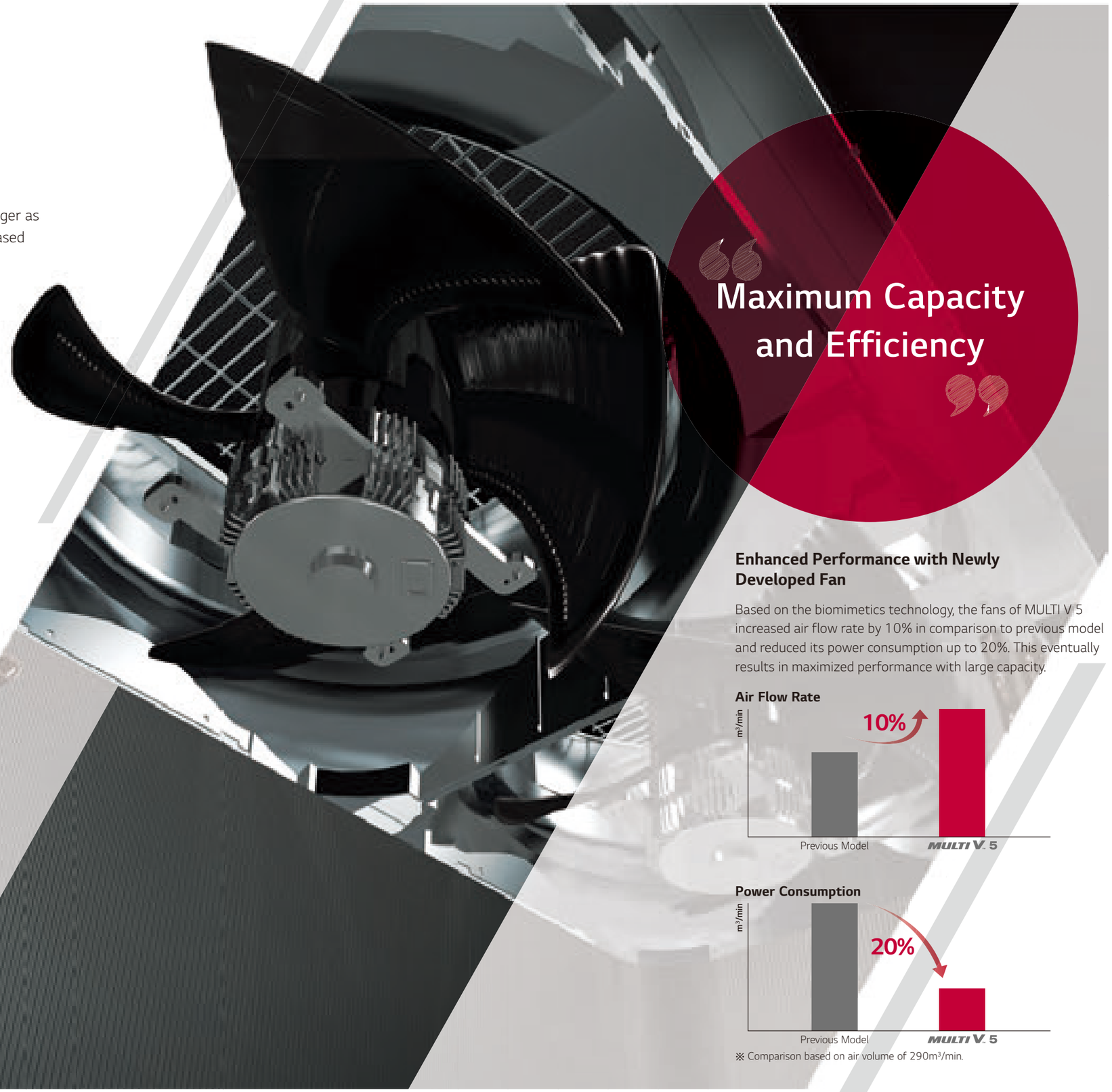
Comfort Cooling

Without stopping in between operations, this function allows MULTI V 5 to maintain operation at mild cooling mode around the set temperature by sensing both temperature and humidity with Dual Sensing Control. By preventing both cold draft and repeated turn On / Off previously required to match the set temperature, users can experience more comfortable indoor environment.

BIOMIMETICS
TECHNOLOGY FAN

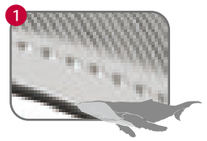
Enhanced core parts like biomimetics technology-based fans, 4-sided heat exchanger as opposed to 3-sided heat exchanger of previous model and compressor with increased efficiency and capacity allow large capacity for outdoor units. A single unit of MULTI V 5 can provide up to 26HP.

LARGE CAPACITY
WITH BIOMIMETICS TECH

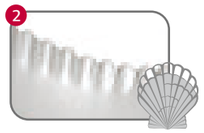


Maximum Capacity and Efficiency

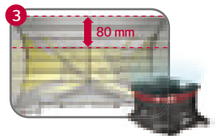
Larger Capacity ODU with Biomimetics Technology Fan



Humpback Whale Design
Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increased wind power by reducing flacking.



Clam Shell Pattern
Like the clam shell textures, the range difference created by moire pattern reduced noise level.



Increased Air Flow Rate
With extended shroud, discharged air current is stabilized and power consumption is reduced.

Enhanced Performance with Newly Developed Fan

Based on the biomimetics 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%. This eventually results in maximized performance with large capacity.

Air Flow Rate

Power Consumption

※ Comparison based on air volume of 290m³/min.

AUTO DUST REMOVAL

This feature in MULTI V 5 removes dust on outdoor unit heat exchanger. The outdoor unit fan(s) rotate reversely to blow off the dust. Once the accumulated dust on the heat exchanger is removed, the fan(s) rotates normally and unit goes back to normal operation.

Auto Dust Removal

"Enhanced Stability from Environmental Constraints"

Technology Mechanism

Fan rotates reversely to run sand dust free operation.

Normal Operation

Auto Dust Removal

Performance Comparison

Normal Operation

Auto Dust Removal

OUTDOOR UNITS LINE-UP

Unit : HP

Type	Features	Appearance	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	....	104
MULTI V 5	• Dual sensing control • Large capacity ODU (Up to 26HP) • Black fin heat exchanger • Ability to function as HP • Flexible installation with large capacity in wide operation range • For large space, high rise building and individual control building					●	●	●	●																																			
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		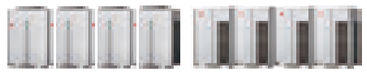																																		●	●					●	●	●
MULTI V S	• Saves floor space • Flexible design applications - Slim, light and wide line up (4 ~ 14HP) - Combination of indoor unit (Up to 23 Units) • For Small / Medium building	NEW Compact	● ○	● ○	● ○																																							
						●	●	●																																				
				□	□				■																																			
MULTI V WATER IV Heat Pump	• High efficiency system regardless external conditions • Indoor installation product • Quiet unit noise level (No fans) • For Water sourced system, High rise building and Aesthetic building • For individual control building					●	●		●			●																																	
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MULTI V WATER IV Cooling only							■					■					■																												

● Heat Pump (H/P), 380V, 3Ø
○ Heat Pump (H/P), 220V, 1Ø
■ Cooling Only (C/O), 380V, 3Ø
□ Cooling Only (C/O), 220V, 1Ø

INDOOR UNITS LINE-UP

Type	kW	1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
	Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
4th generation Wall Mounted Unit	Standard			●	●	●	●		●		●	●					
4th generation Ceiling Mounted Cassette	Round Cassette								●			●		●			
	4 Way Cassette (570 x 570)	●	●	●	●	●	●	●									
	4 Way Cassette (840 x 840)			●	●	●	●		●		●	●	●	●	●		
	2 Way Cassette			●	●		●		●								
	1 Way Cassette		●	●	●		●		●								
4th generation Ceiling Concealed Duct	High Static		●	●	●	●	●		●	●		●	●	●	●	●	●
	Low Static			●	●	●	●		●								
4th generation Fresh Air Intake Units																●	●
4th generation Floor Standing	Floor Standing													●			●
4th generation HYDRO KIT	Medium Temperature												●				●
	High Temperature												●			●	
4th generation Energy Recovery Ventilator with DX Coil	without Humidifier					●			●		●						

※ If 4th generation indoor units are combined to 2nd generation indoor units, several functions are not available.
More detailed information, refer to the "MULTI V Indoor units Compatibility Table"

INDOOR UNITS FEATURE OVERVIEW

Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Restart Function Disable / Enable	Wi-Fi Ready
●	●	●	●	●	●	●	●	●	●	●		●	●	●	▲*
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				●	●		●	●				●	●	●	

* 30k, 36k model, Wi-Fi module is embedded

LG BECON HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL

Wired Remote Controller

Standard

Standard III

PREMTB100

Standard II

PREMTB001

Premium

PREMTA000

Simple

PQRCVCL0QW

Wireless Remote Controller

PWLSSB21H

LG Wi-Fi Modem

For Indoor Unit
PWFMDD200

CENTRALIZED CONTROL

Display

AC Ez

PQCSZ250S0
(Indoor Unit ~32)

AC Ez Touch

PACEZA000
(Indoor Unit ~64)

AC Smart 5

PACS5A000
(Indoor Unit ~128)
BACnet IP/Modbus TCP

Platform

ACP 5

PACP5A000
(Indoor Unit ~256)
BACnet IP/Modbus TCP

AC Manager 5

PACM5A000
(Indoor Unit ~8,192)

Gateway

ACP LonWorks

PLNWKB000
(Indoor Unit ~64)

Modbus RTU Gateway

PMBUSB00A

Cloud Gateway

For Outdoor Unit
PWFMDB200

CENTRALIZED CONTROL

Facility Integrator

PDI
(Power Distribution Indicator)

Premium (8 port) PQNUD1S40
Standard (2 port) PPWRDB000

ACS IO Module
(Input / Output Module)

PEXPMB000

Chiller Option Kit

PCHLLN000

ACU IO Module

UIO
PEXPMB300

UO
PEXPMB200

UI
PEXPMB100

INTEGRATION DEVICE

Indoor Units

Dry Contact

Simple Dry Contact
PDRYCB000

Dry contact for Thermostat
(For using universal input)
PDRYCB320

2 Points Dry Contact (For Setback)
PDRYCB400

For Modbus
PDRYCB500

Control Accessory

Group Control Wire

PZCWRCG3

Independent Power Module

PRIP0

Outdoor Units

IO Module
(Input / Output Module)

For MULTI V IV, 5
PVDSMN000

Variable Water Flow Control Kit

For MULTI V WATER IV
PWFCKN000

Cool / Heat Selector

PRDSBM

AHU Kit

Communication Kit

Return / Room Air control
PAHCMR000

Discharge / Supply Air control
PAHCMS000

Control kit

PAHCNM000
(Max. 3 Outdoor Units)

EEV Kit
(Electronic Expansion Valve)

PRLK048A0 (~ 28 kW)
PRLK096A0 (~ 56 kW)

NEW PRLK396A0 (~ 112 kW)

NEW PRLK594A0 (~ 168 kW)

OUTDOOR UNITS

- MULTI V 5
- MULTI V S
- MULTI V WATER IV (HEAT PUMP, COOLING ONLY)

MULTI V™ 5

Optimized for Medium and Large Buildings

- Air cooled VRF Heat Pump & Cooling Only
- 8 ~ 104HP (22.4kW ~ 291.2kW) : Cooling capacity based
- 3Ø, 380 ~ 415V, 50Hz
- Top discharge outdoor unit

Energy savings

Reliability

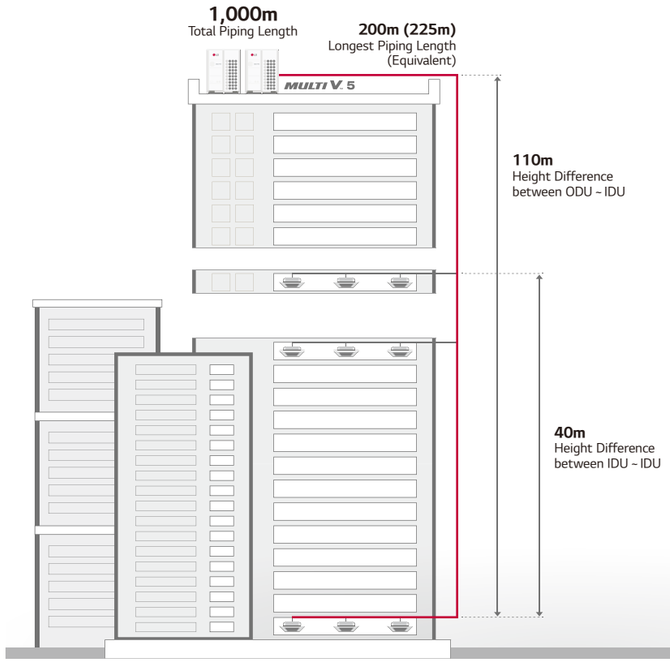
Low noise

Advanced performance

Design For The Ultimate

MULTI V 5

Piping Length



Total Piping Length	1,000m
Actual longest piping length (Equivalent)	200m (225m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height between ODU ~ IDU	110m
Height between IDU ~ IDU	40m
Height between ODU ~ ODU	5m

Active Refrigerant Control

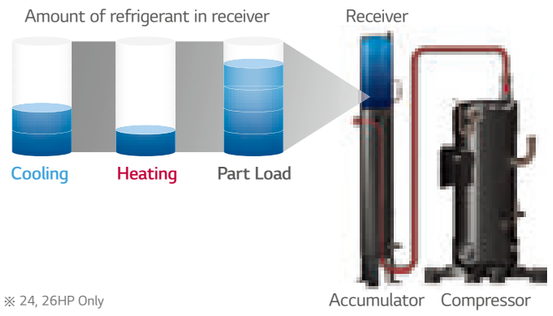
Stable operation & Sustaining most efficient operation

The accumulator in the outdoor unit has a storage tank mounted inside accumulator known as the receiver tank. The receiver tank is equipped with inlet and outlet valves that are electronically opened and closed. Refrigerant is being passed between the accumulator and the receiver tank on a continuous basis. 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. It accomplishes this by constantly monitoring the system operating pressures and temperatures and a variety of other vital control metrics of the refrigeration cycle. When the cycle is out of balance, an adjustment in the amount of circulating refrigerant occurs.

What are the benefits?

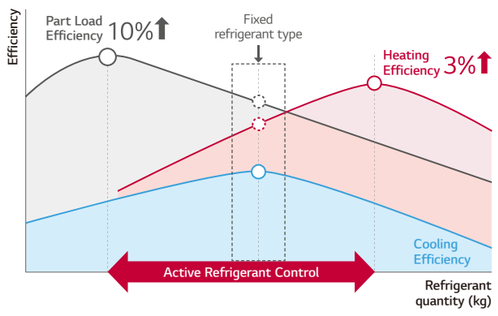
Widens the ambient temperature range at which stable operation occurs.
Sustains most efficient system operation irrelevant of outdoor weather conditions, operating mode, or building load.

Technology mechanism



※ 24, 26HP Only

Efficiency performance

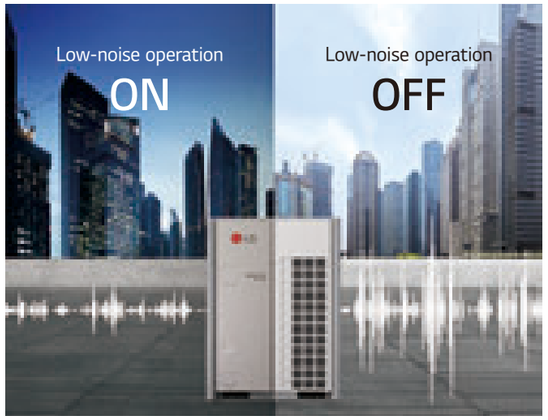


Low-Noise Operation

Unlike the previous model which enables low-noise operation only during night after judgment time, the low-noise operation of MULTI V 5 can function regardless of the time at the noise sensitive areas.

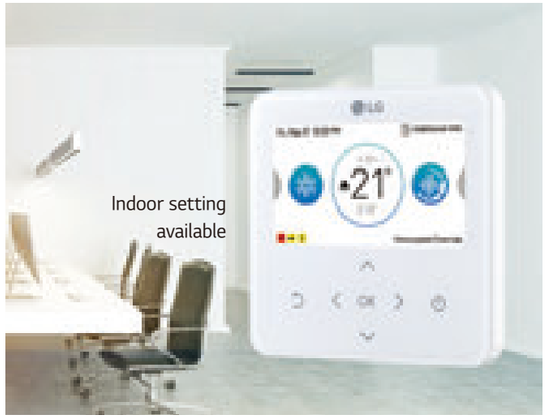
Automatic

Noise automatically adjusted



Manual

Choose preferred settings with remote based on noise conditions

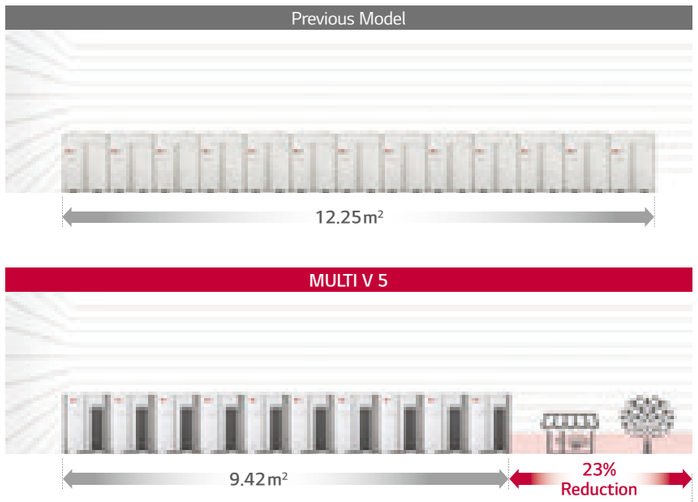


※ Indoor unit set up available with Standard III Remote Controller.

Flexible Installation Space with Large Capacity Outdoor Units

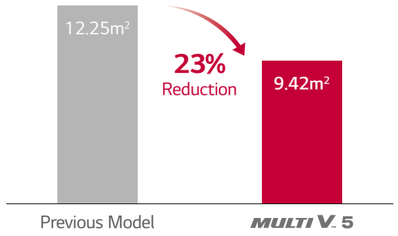
Large capacity outdoor units of MULTI V 5 minimizes installation space that spares valuable floor space and significantly decreases total installed weights. This allows users the flexible design potential and better use of the saved space.

Comparison on installation space

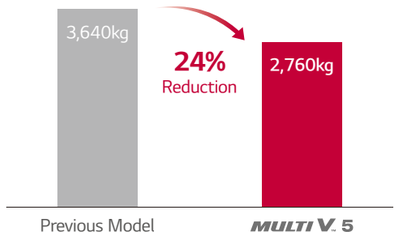


※ Comparison basis : 1 Rows of outdoor units 728kW (72.8kW x 10sets) installation case

Installation space area comparison



Product weight comparison



MULTI V 5

Dual Sensing SLC (Smart Load Control)

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?

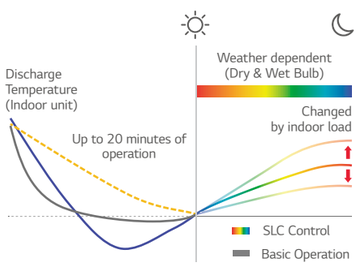
Enhanced energy savings

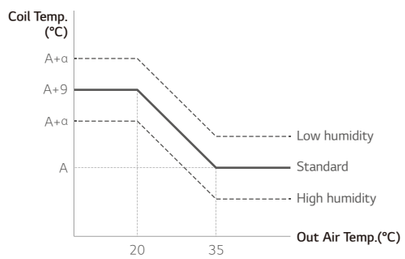
- Cooling Mode : By raising the target low pressure during off-peak cooling operation, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.
- Heating Mode : By lowering the target high pressure during off-peak heating operation, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.

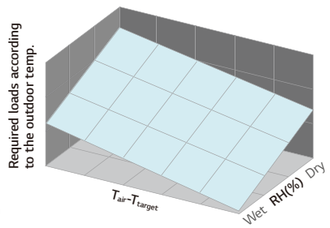
Increased indoor comfort

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.

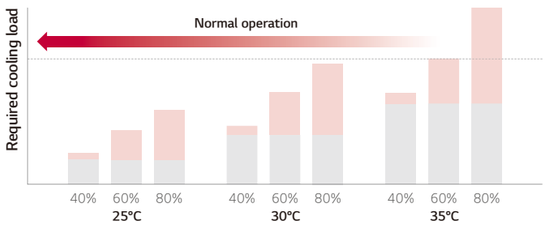
SLC (Smart Load Control)



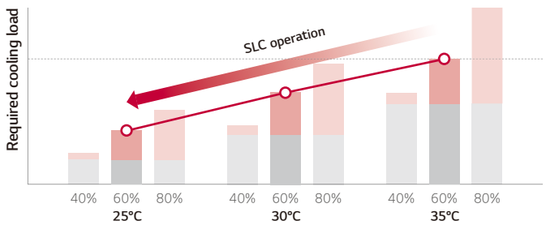




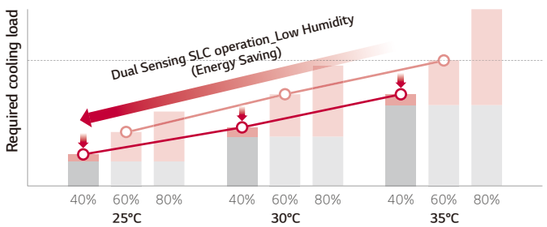
Normal operating mode



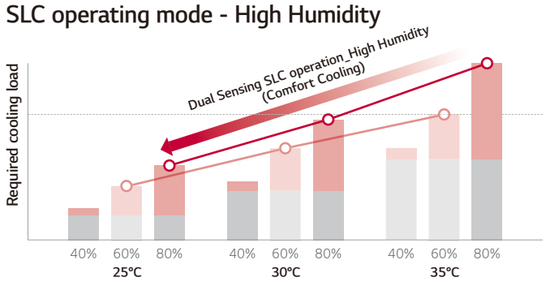
SLC operating mode



SLC operating mode - Low Humidity



SLC operating mode - High Humidity



Latent heat load Sensible heat load

Comfort Cooling

Increased indoor comfort & Enhanced operating efficiency

When the IDU is operating in a season when its load is less than design, the comfort cooling algorithm moderates the indoor unit's coil superheat, thus raising the leaving air temperature as the space temperature is approaching set point. 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?

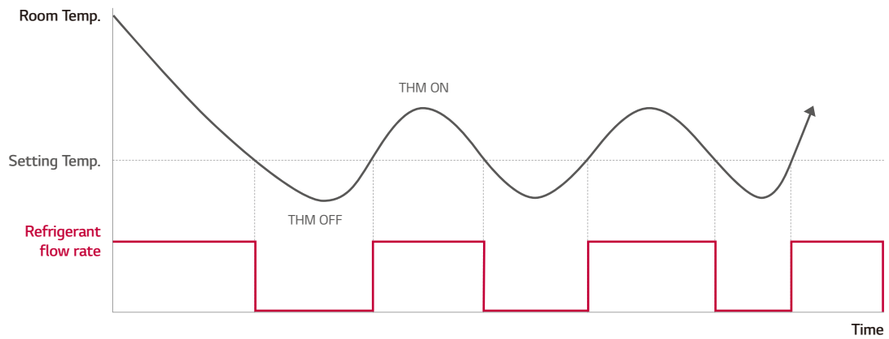
Increased indoor comfort

If comfort cooling is turned off, and the temperature of the leaving air is not raised, when the fan speed is reduced to low speed, there is a potential that occupants located directly under a cassette IDU or supply air registers could feel cold air falling on them resulting in a lower overall comfort experience. With comfort cooling turned on, the leaving air temperature is moderated.
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.

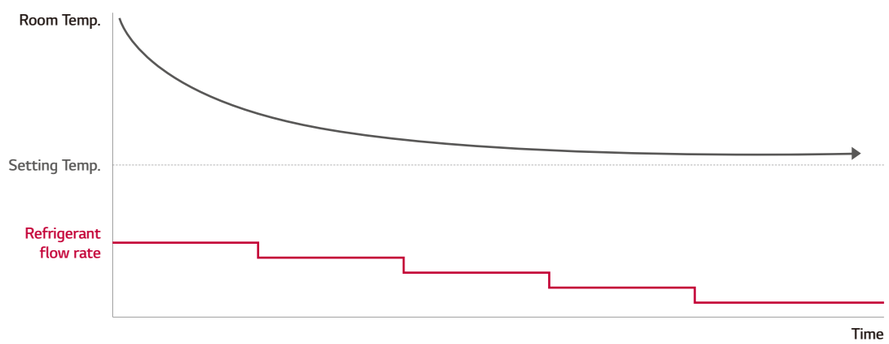
Enhanced operating efficiency

Raising superheat reduces refrigerant volume flowing through the coil. As flow decreases, demand on the compressor decreases and the compressor speed will be reduced, thus saving energy.

Previous Model



MULTI V 5



MULTI V 5

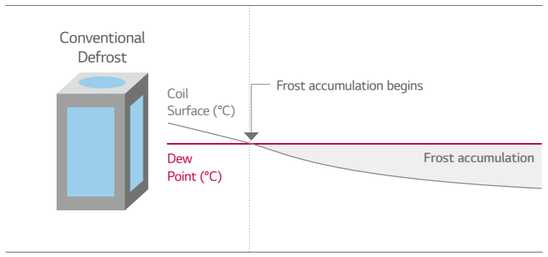
Intelligent Defrost

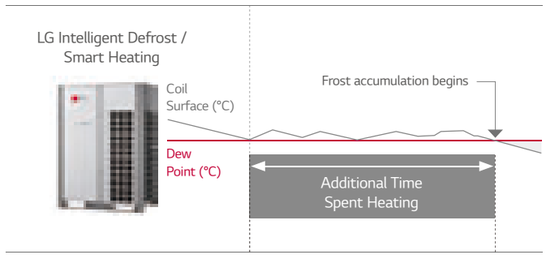
Increased heating run-hours

MULTI V 5 provides the same user selected defrost mode and method provided by LG's Intelligent Defrost based on current outdoor ambient temperature. With the addition of the outdoor air humidity sensor, MULTI V 5 Intelligent Defrost just got smarter. MULTI V 5 computes the current ambient air dew point temperature - the temperature at which frost will form on the outdoor unit coil in winter operation. MULTI V 5 makes continuous adjustments to the refrigeration cycle operating parameters to keep the outdoor coil surface temperature above actual dew point which can be calculated by using dry bulb temp. and relative humidity. When the refrigeration cycle operating parameters can be adjusted no further without sacrificing heating comfort, further adjustment is stopped and frost is allowed to build on the coil.

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.





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

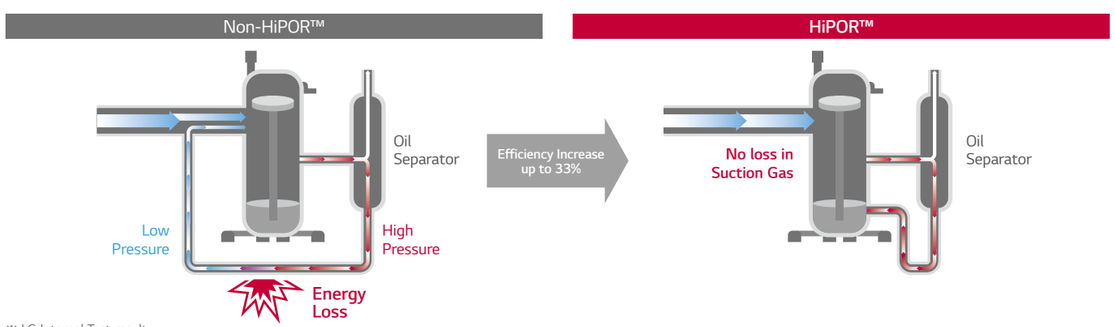
HiPOR™

Advanced compressor reliability & efficiency

HiPOR™ is a trademark for LG's High Performance Oil Return apparatus. 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. This does not waist energy when oil flows between the separator and the compressor. Because the operating pressure in the chamber containing the oil sump of the compressor and the pressure in the oil separator are nearly equal, there is no loss in compressor efficiency.

What are the benefits?

Maximizes reliability and efficiency of the compressor



※ LG Internal Test result
※ Test condition - 15Hz Rating Condition : TC = 37.9°C, Te : 7.2°C
※ 24, 26HP Only

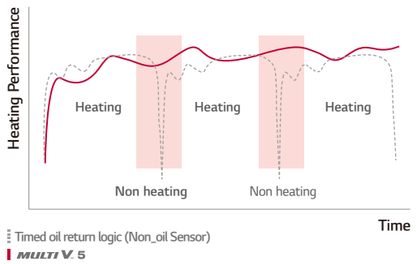
Smart Oil Management

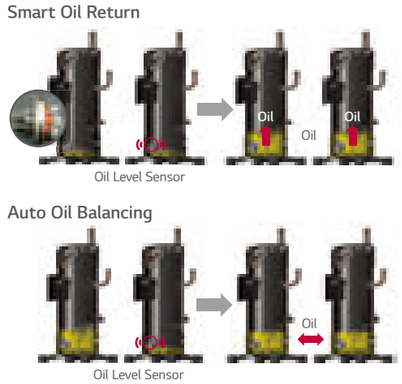
Energy saving, Enhanced heating & Increased compressor reliability

MULTI V 5 performs oil return on an as needed basis 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. Oil balancing cycle occurs every hour and does not hamper system performance. It balances the oil level deposit between both compressors in multi-compressor frames. Older VRF technology protects compressors from oil loss based on timed oil return logic because there was no way to know if the oil level in any one compressor was low. LG's unique oil level measuring sensor actively monitors the oil level in each compressor.

What are the benefits?

Energy savings compared with other systems. Fewer oil return cycles eliminates unnecessary energy consumption.
Increases system heating run-time during winter operation. Increases compressor reliability.





※ Increased heating operation time per day : Up to 12%
- LG Internal Test result
- Test condition
  - without oil level sensor : every 8hour oil recovery operation
  - with oil level sensor : non oil recovery operation

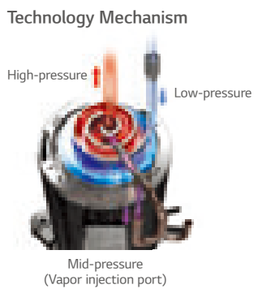
Vapor Injection

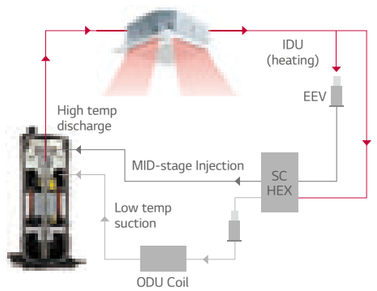
Increased heating performance

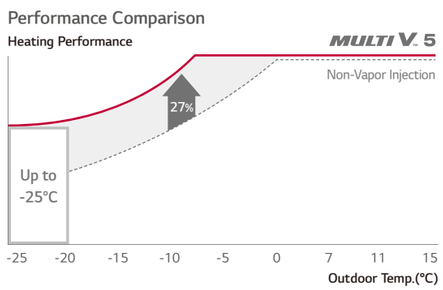
During low ambient operation down to -25°C, the sub-cooler provides medium temperature refrigerant gas to the compressor's vapor injection system. When injected into the compression chamber, system mass flow increases which stabilizes the system's suction pressure. In all cases the vapor injection increases 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.







※ 24, 26HP Only

※ Improved heating performance by 27%.

MULTI V 5

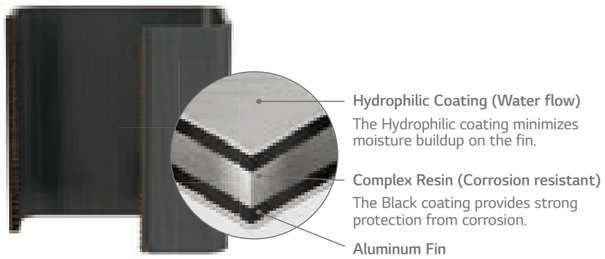
Black Fin

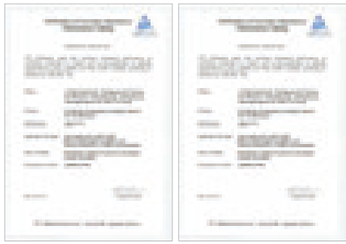
Improved durability

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories. 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.
LG Corrosion Resistance solution passed ISO accelerated corrosion test and the result has been verified by prestigious global certification organization, TUV.

What are the benefits?

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



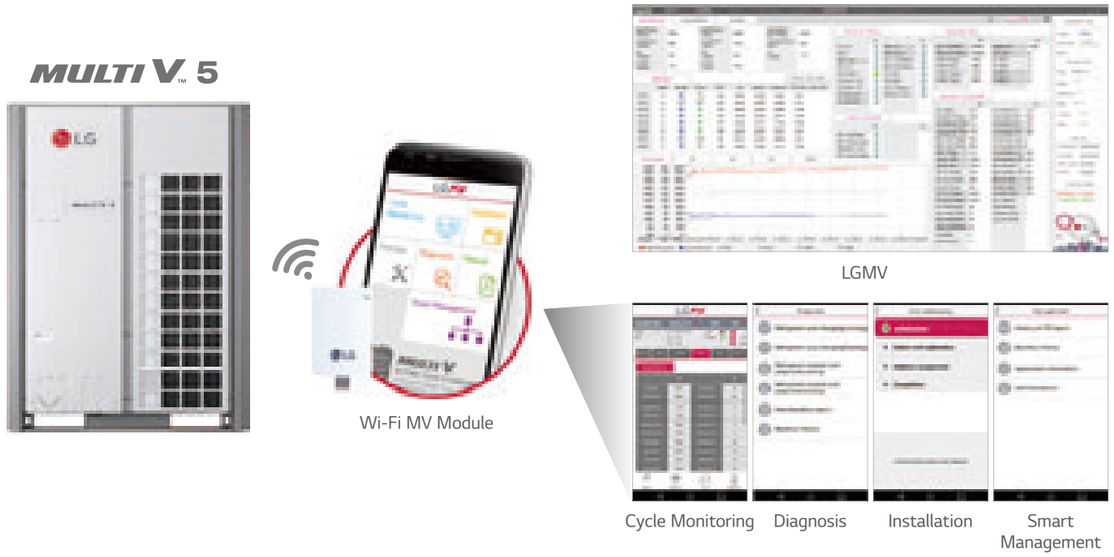


※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / ISO 9227 (10,000 hours)

Simple Test Run via LGMV

Increased overall efficiency in installation

To make sure that the product functions properly, conducting a test run is recommended. For previous product, professional engineer who is well aware of more than 40 different functional settings and more than 200 error codes had to check main parts in order to make sure that the test run had succeeded. 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.



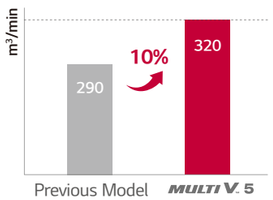
Biomimetic Fan

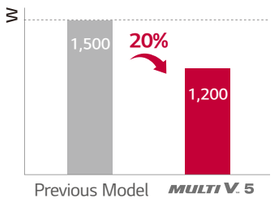
Maximized performance

MULTI V 5 outdoor units fans have been upgraded. The moire pattern from external texture of clam shells has been applied on fans to create the range difference that results in reduction of noise level. At the same time, unlike the fans installed in previous products that generate separation of flow due to absence of tubercles, the bumpy back design inspired by the bumps on the humpback whale's flipper is applied as the tubercles on the back side of the fans, increasing wind power by reducing flacking.
In addition to 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 previous model. This eventually results in maximized performance with large capacity.

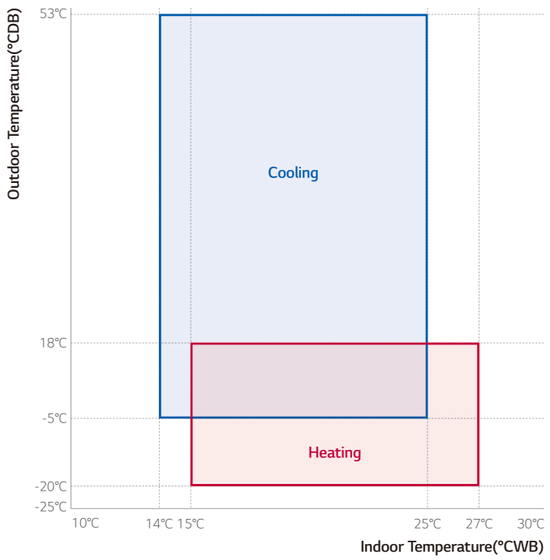


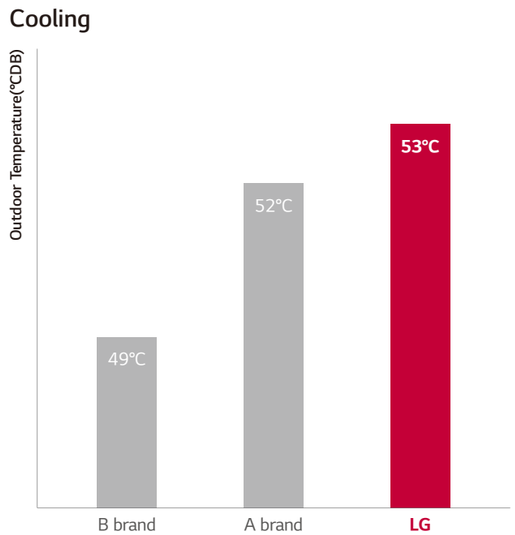


※ Comparison based on air volume of 290m³/min.

Wide Cooling Operation Range

Enhanced inverter compressor and control technology enable MULTI V 5 to expand its allowable cooling operation range.





MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

JRUN080LTE5 / JRUN100LTE5 / JRUN120LTE5 / JRUN140LTE5

HP			8	10	12	14
Model Name	Combination Unit		JRUN080LTE5	JRUN100LTE5	JRUN120LTE5	JRUN140LTE5
	Independent Unit		JRUN080LTE5	JRUN100LTE5	JRUN120LTE5	JRUN140LTE5
Capacity (Rated)	Cooling	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,500	114,600	133,800
	Heating	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,500	114,600	133,800
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		1	1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 1	900 x 1	900 x 1	900 x 1
	Air Flow Rate (High)	m^3/min x No.	210 x 1	210 x 1	210 x 1	210 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	177 x 1	177 x 1	177 x 1	186 x 1
	Shipping Weight	kg x No.	184 x 1	184 x 1	184 x 1	193 x 1
Sound Pressure Level	Cooling	dB(A)	58.5	58.5	59.0	60.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			13 (20)	16 (25)	20 (30)	23 (35)
Maximum Indoor Unit Combination Ratio*			200%	200%	200%	200%

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

* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN160LTE5 / JRUN180LTE5 / JRUN200LTE5 / JRUN220LTE5

HP			16	18	20	22
Model Name	Combination Unit		JRUN160LTE5	JRUN180LTE5	JRUN200LTE5	JRUN220LTE5
	Independent Unit		JRUN160LTE5	JRUN180LTE5	JRUN200LTE5	JRUN220LTE5
Capacity (Rated)	Cooling	kW	44.8	50.4	56.0	61.6
		kcal/h	38,500	43,300	48,200	53,000
		Btu/h	152,900	172,000	191,100	210,200
	Heating	kW	44.8	50.4	56.0	61.6
		kcal/h	38,500	43,300	48,200	53,000
		Btu/h	152,900	172,000	191,100	210,200
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		1	2	2	2
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 1	1,500 x 1	1,500 x 1	1,500 x 1
	Air Flow Rate (High)	m^3/min x No.	270 x 1	270 x 1	270 x 1	270 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	200 x 1	247 x 1	257 x1	257 x1
	Shipping Weight	kg x No.	208 x 1	255 x 1	265 x 1	265 x 1
Sound Pressure Level	Cooling	dB(A)	62.0	62.0	62.0	62.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			26 (40)	29 (45)	32 (50)	35 (44)
Maximum Indoor Unit Combination Ratio*			200%	200%	200%	200%

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

* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

ARUN240LTE5 / JRUN240LTE5 / ARUN260LTE5 / JRUN260LTE5

HP			24	24	26	26
Model Name	Combination Unit		ARUN240LTE5	JRUN240LTE5	ARUN260LTE5	JRUN260LTE5
	Independent Unit		ARUN240LTE5	JRUN120LTE5 JRUN120LTE5	ARUN260LTE5	JRUN140LTE5 JRUN120LTE5
Capacity (Rated)	Cooling	kW	67.2	67.2	72.8	72.8
		kcal/h	57,800	57,800	62,600	62,600
		Btu/h	229,300	229,300	248,400	248,400
	Heating	kW	74.3	67.2	74.3	72.8
		kcal/h	63,900	57,800	63,900	62,600
		Btu/h	253,500	229,300	253,500	248,400
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		2	2	2	2
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rate (High)	m^3/min x No.	320 x 1	210 x 2	320 x 1	210 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(920 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 1	(920 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	276 x 1	174 x 2	276 x 1	(187 x 1) + (174 x 1)
	Shipping Weight	kg x No.	290 x 1	180 x 2	290 x 1	(193 x 1) + (180 x 1)
Sound Pressure Level	Cooling	dB(A)	67.0	62.0	67.0	62.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			39 (61)	39 (48)	42 (64)	42 (52)
Maximum Indoor Unit Combination Ratio*			200%	160%	200%	160%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN280LTE5 / JRUN300LTE5 / JRUN320LTE5 / JRUN340LTE5

HP			28	30	32	34
Model Name	Combination Unit		JRUN280LTE5	JRUN300LTE5	JRUN320LTE5	JRUN340LTE5
	Independent Unit		JRUN140LTE5 JRUN140LTE5	JRUN160LTE5 JRUN140LTE5	JRUN160LTE5 JRUN160LTE5	JRUN200LTE5 JRUN140LTE5
Capacity (Rated)	Cooling	kW	78.4	84.0	89.6	95.2
		kcal/h	67,400	72,200	77,000	81,900
		Btu/h	267,500	286,600	305,700	324,800
	Heating	kW	78.4	84.0	89.6	95.2
		kcal/h	67,400	72,200	77,000	81,900
		Btu/h	267,500	286,600	305,700	324,800
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		2	2	2	3
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 2	(1,500 x 1) + (900 x 1)	1,500 x 2	(1,500 x 1) + (900 x 1)
	Air Flow Rate (High)	m^3/min x No.	210 x 2	(270 x 1) + (210 x 1)	270 x 2	(270 x 1) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	186 x 2	(200 x 1) + (186 x 1)	200 x 2	(257 x 1) + (186 x 1)
	Shipping Weight	kg x No.	193 x 2	(208 x 1) + (193 x 1)	208 x 2	(265 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	63.8	63.8	63.8	64.1
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			45 (56)	49 (60)	52 (64)	55 (64)
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

JRUN360LTE5 / JRUN380LTE5 / JRUN400LTE5 / JRUN420LTE5

HP			36	38	40	42
Model Name	Combination Unit		JRUN360LTE5	JRUN380LTE5	JRUN400LTE5	JRUN420LTE5
	Independent Unit		JRUN220LTE5 JRUN140LTE5	JRUN220LTE5 JRUN160LTE5	JRUN220LTE5 JRUN180LTE5	JRUN220LTE5 JRUN200LTE5
Capacity (Rated)	Cooling	kW	100.8	106.4	112.0	117.6
		kcal/h	86,700	91,500	96,300	101,100
		Btu/h	343,900	363,100	382,200	401,300
	Heating	kW	100.8	106.4	112.0	117.6
		kcal/h	86,700	91,500	96,300	101,100
		Btu/h	343,900	363,100	382,200	401,300
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		3	3	4	4
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 1) + (900 x 1)	1,500 x 2	1,500 x 2	1,500 x 2
	Air Flow Rate (High)	m^3/min x No.	(270 x 1) + (210 x 1)	270 x 2	270 x 2	270 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	℃ (℉)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	℃ (℉)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	(257 x 1) + (186 x 1)	(257 x 1) + (200 x 1)	(257 x 1) + (247 x 1)	257 x 2
	Shipping Weight	kg x No.	(265 x 1) + (193 x 1)	(265 x 1) + (208 x 1)	(265 x 1) + (255 x 1)	265 x 2
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	65.0	65.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			58(64)	61(64)	64	64
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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

* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN440LTE5
JRUN460LTE5
ARUN480LTE5
JRUN480LTE5

HP			44	46	48	48
Model Name	Combination Unit		JRUN440LTE5	JRUN460LTE5	ARUN480LTE5	JRUN480LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5	JRUN160LTE5 JRUN160LTE5 JRUN140LTE5	ARUN240LTE5 ARUN240LTE5	JRUN160LTE5 JRUN160LTE5 JRUN160LTE5
Capacity (Rated)	Cooling	kW	123.2	128.8	134.4	151.2
		kcal/h	105,900	110,700	115,600	130,000
		Btu/h	420,400	439,500	458,600	515,900
	Heating	kW	123.2	128.8	148.6	151.2
		kcal/h	105,900	110,700	127,800	130,000
		Btu/h	420,400	439,500	507,000	515,900
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	3	4	3
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 2	(1,500 x 2) + (900 x 1)	900 x 4	1,500 x 3
	Air Flow Rate (High)	m^3/min x No.	270 x 2	(270 x 2) + (210 x 1)	320 x 2	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	℃ (℉)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	℃ (℉)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	257 x 2	(200 x 2) + (186 x 1)	276 x 2	198 x 3
	Shipping Weight	kg x No.	265 x 2	(208 x 2) + (193 x 1)	290 x 2	206 x 3
Sound Pressure Level	Cooling	dB(A)	65.0	65.6	70.0	66.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

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

* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

ARUN500LTE5 / JRUN500LTE5
ARUN520LTE5 / JRUN520LTE5

HP			50	50	52	52
Model Name	Combination Unit		ARUN500LTE5	JRUN500LTE5	ARUN520LTE5	JRUN520LTE5
	Independent Unit		ARUN260LTE5 ARUN240LTE5	JRUN220LTE5 JRUN140LTE5 JRUN140LTE5	ARUN260LTE5 ARUN260LTE5	JRUN220LTE5 JRUN160LTE5 JRUN140LTE5
Capacity (Rated)	Cooling	kW	140.0	156.8	145.6	162.4
		kcal/h	120,400	134,800	125,200	139,600
		Btu/h	477,700	535,000	496,800	554,100
	Heating	kW	148.6	163.9	148.6	169.5
		kcal/h	127,800	140,900	127,800	145,700
		Btu/h	507,000	559,200	507,000	578,400
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	4	4	4
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 4	(1,500 x 1) + (900 x 2)	900 x 4	(1,500 x 2) + (900 x 1)
	Air Flow Rate (High)	m^3/min x No.	320 x 2	(270 x 1) + (210 x 2)	320 x 2	(270 x 2) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	276 x 2	(257 x 1) + (187 x 2)	276 x 2	(257 x 1) + (198 x 1) + (187 x 1)
	Shipping Weight	kg x No.	290 x 2	(265 x 1) + (193 x 2)	290 x 2	(265 x 1) + (206 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	70.0	66.0	70.0	66.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN540LTE5 / JRUN560LTE5 / JRUN580LTE5 / JRUN600LTE5

HP			54	56	58	60
Model Name	Combination Unit		JRUN540LTE5	JRUN560LTE5	JRUN580LTE5	JRUN600LTE5
	Independent Unit		JRUN220LTE5 JRUN160LTE5 JRUN160LTE5	JRUN220LTE5 JRUN200LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN160LTE5
Capacity (Rated)	Cooling	kW	151.2	156.8	162.4	168.0
		kcal/h	130,000	134,800	139,600	144,500
		Btu/h	515,900	535,000	554,100	573,200
	Heating	kW	151.2	156.8	162.4	168.0
		kcal/h	130,000	134,800	139,600	144,500
		Btu/h	515,900	535,000	554,100	573,200
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	5	5	5
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	(1,500 x 2) + (900 x 1)	(1,500 x 2) + (900 x 1)	1,500 x 3
	Air Flow Rate (High)	m^3/min x No.	270 x 3	(270 x 2) + (210 x 1)	(270 x 2) + (210 x 1)	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 1) + (200 x 2)	(257 x 2) + (186 x 1)	(257 x 2) + (186 x 1)	(257 x 2) + (200 x 1)
	Shipping Weight	kg x No.	(265 x 1) + (208 x 2)	(265 x 2) + (193 x 1)	(265 x 2) + (193 x 1)	(265 x 2) + (208 x 1)
Sound Pressure Level	Cooling	dB(A)	66.5	66.5	66.8	66.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

JRUN620LTE5 / JRUN640LTE5 / JRUN660LTE5 / JRUN680LTE5

HP			62	64	66	68
Model Name	Combination Unit		JRUN620LTE5	JRUN640LTE5	JRUN660LTE5	JRUN680LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN180LTE5	JRUN220LTE5 JRUN220LTE5 JRUN200LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5	JRUN220LTE5 JRUN160LTE5 JRUN160LTE5 JRUN140LTE5
Capacity (Rated)	Cooling	kW	173.6	179.2	184.8	190.4
		kcal/h	149,300	154,100	158,900	163,700
		Btu/h	592,300	611,500	630,600	649,700
	Heating	kW	173.6	179.2	184.8	190.4
		kcal/h	149,300	154,100	158,900	163,700
		Btu/h	592,300	611,500	630,600	649,700
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	5
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	1,500 x 3	1,500 x 3	(900 x 1) + (1,500 x 3)
	Air Flow Rate (High)	m^3/min x No.	270 x 3	270 x 3	270 x 3	(270 x 3) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	(257 x 2) + (247 x 1)	257 x 3	257 x 3	(257 x 1) + (200 x 2) + (186 x 1)
	Shipping Weight	kg x No.	(265 x 2) + (255 x 1)	265 x 3	265 x 3	(265 x 1) + (208 x 2) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	67.3	67.5	67.5	67.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN700LTE5 / ARUN720LTE5 / JRUN720LTE5 / ARUN740LTE5

HP			70	72	72	74
Model Name	Combination Unit		JRUN700LTE5	ARUN720LTE5	JRUN720LTE5	ARUN740LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN140LTE5 JRUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5	JRUN220LTE5 JRUN220LTE5 JRUN140LTE5 JRUN140LTE5	ARUN260LTE5 ARUN240LTE5 ARUN240LTE5
Capacity (Rated)	Cooling	kW	196.0	201.6	224.0	207.2
		kcal/h	168,500	173300	192,600	178200
		Btu/h	668,800	687900	764,300	707000
	Heating	kW	196.0	222.9	238.2	222.9
		kcal/h	168,500	191,700	204,800	191,700
		Btu/h	668,800	760,600	812,800	760,600
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 2) + (900 x 2)	900 x 6	(1,500 x 2) + (900 x 2)	900 x 6
	Air Flow Rate (High)	m^3/min x No.	(270 x 2) + (210 x 2)	320 x 3	(270 x 2) + (210 x 2)	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (186 x 1) + (177 x 1)	276 x 3	(257 x 2) + (187 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (193 x 1) + (184 x 1)	290 x 3	(265 x 2) + (193 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.5	71.8	67.8	71.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

JRUN740LTE5
ARUN760LTE5
JRUN760LTE5
ARUN780LTE5

HP			74	76	76	78
Model Name	Combination Unit		JRUN740LTE5	ARUN760LTE5	JRUN760LTE5	ARUN780LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN160LTE5 JRUN140LTE5	ARUN260LTE5 ARUN260LTE5 ARUN240LTE5	JRUN220LTE5 JRUN220LTE5 JRUN160LTE5 JRUN160LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5
Capacity (Rated)	Cooling	kW	229.6	212.8	235.2	218.4
		kcal/h	197,400	183,000	202,200	187800
		Btu/h	783,400	726,100	802,500	745200
	Heating	kW	243.8	222.9	249.4	222.9
		kcal/h	209,600	191,700	214,400	191,700
		Btu/h	831,900	760,600	851,000	760,600
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	900 x 6	1,500 x 4	900 x 6
	Air Flow Rate (High)	m^3/min x No.	(270 x 3) + (210 x 1)	320 x 3	270 x 4	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (198 x 1) + (187 x 1)	276 x 3	(257 x 2) + (198 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (206 x 1) + (193 x 1)	290 x 3	(265 x 2) + (206 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.8	71.8	68.0	71.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

JRUN780LTE5 / JRUN800LTE5
JRUN820LTE5 / JRUN840LTE5

HP			78	80	82	84
Model Name	Combination Unit		JRUN780LTE5	JRUN800LTE5	JRUN820LTE5	JRUN840LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN200LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN160LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN180LTE5
Capacity (Rated)	Cooling	kW	240.8	224.0	229.6	235.2
		kcal/h	207,100	192,600	197,400	202,200
		Btu/h	821,600	764,300	783,400	802,500
	Heating	kW	255.0	224.0	229.6	235.2
		kcal/h	219,300	192,600	197,400	202,200
		Btu/h	870,100	764,300	783,400	802,500
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		7	7	7	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	(1,500 x 3) + (900 x 1)	1,500 x 4	1,500 x 4
	Air Flow Rate (High)	m^3/min x No.	(270 x 3) + (210 x 1)	(270 x 3) + (210 x 1)	270 x 4	270 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4
Weight	Net Weight	kg x No.	(257 x 3) + (187 x 1)	(257 x 3) + (186 x 1)	(257 x 3) + (200 x 1)	(257 x 3) + (247 x 1)
	Shipping Weight	kg x No.	(265 x 3) + (193 x 1)	(265 x 3) + (193 x 1)	(265 x 3) + (208 x 1)	(265 x 3) + (255 x 1)
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	68.0	68.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (HEAT PUMP)

JRUN860LTE5 / JRUN880LTE5
ARUN960LTE5 / ARUN980LTE5

HP			86	88	96	98
Model Name	Combination Unit		JRUN860LTE5	JRUN880LTE5	ARUN960LTE5	ARUN980LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN200LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN220LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN240LTE5	ARUN260LTE5 ARUN240LTE5 ARUN240LTE5 ARUN240LTE5
Capacity (Rated)	Cooling	kW	240.8	246.4	268.8	274.4
		kcal/h	207,100	211,900	231,100	235,900
		Btu/h	821,600	840,800	917,200	936,300
	Heating	kW	240.8	246.4	297.2	297.2
		kcal/h	207,100	211,900	255,500	255,500
		Btu/h	821,600	840,800	1,014,100	1,014,100
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		8	8	8	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 4	1,500 x 4	900 x 8	900 x 8
	Air Flow Rate (High)	m^3/min x No.	270 x 4	270 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4
Weight	Net Weight	kg x No.	257 x 4	257 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	265 x 4	265 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	73.0	73.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (HEAT PUMP)

ARUN1000LTE5 / ARUN1020LTE5 / ARUN1040LTE5

HP			100	102	104
Model Name	Combination Unit		ARUN1000LTE5	ARUN1020LTE5	ARUN1040LTE5
	Independent Unit		ARUN260LTE5 ARUN260LTE5 ARUN240LTE5 ARUN240LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5 ARUN240LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5 ARUN260LTE5
Capacity (Rated)	Cooling	kW	280.0	285.6	291.2
		kcal/h	240,800	245,600	250,400
		Btu/h	955,400	974,500	993,600
	Heating	kW	297.2	297.2	297.2
		kcal/h	255,500	255,500	255,500
		Btu/h	1,014,100	1,014,100	1,014,100
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		8	8	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 8	900 x 8	900 x 8
	Air Flow Rate (High)	m^3/min x No.	320 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4
Weight	Net Weight	kg x No.	276 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	290 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	73.0	73.0	73.0
Communication Cable		mm^2 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
	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
Maximum Indoor Unit Combination Ratio*			130%	130%	130%

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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

JRUV080LTE5 / JRUV100LTE5 / JRUV120LTE5 / JRUV140LTE5

HP			8	10	12	14
Model Name	Combination Unit		JRUV080LTE5	JRUV100LTE5	JRUV120LTE5	JRUV140LTE5
	Independent Unit		JRUV080LTE5	JRUV100LTE5	JRUV120LTE5	JRUV140LTE5
Capacity (Rated)	Cooling	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,500	114,600	133,800
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		1	1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 1	900 x 1	900 x 1	900 x 1
	Air Flow Rate (High)	m^3/min x No.	210 x 1	210 x 1	210 x 1	210 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	177 x 1	177 x 1	177 x 1	186 x 1
	Shipping Weight	kg x No.	184 x 1	184 x 1	184 x 1	193 x 1
Sound Pressure Level	Cooling	dB(A)	58.5	58.5	59.0	60.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			13 (20)	16 (25)	20 (30)	23 (35)
Maximum Indoor Unit Combination Ratio*			200%	200%	200%	200%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV160LTE5 / JRUV180LTE5 / JRUV200LTE5 / JRUV220LTE5

HP			16	18	20	22
Model Name	Combination Unit		JRUV160LTE5	JRUV180LTE5	JRUV200LTE5	JRUV220LTE5
	Independent Unit		JRUV160LTE5	JRUV180LTE5	JRUV200LTE5	JRUV220LTE5
Capacity (Rated)	Cooling	kW	44.8	50.4	56.0	61.6
		kcal/h	38,500	43,300	48,200	53,000
		Btu/h	152,900	172,000	191,100	210,200
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		1	2	2	2
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 1	1,500 x 1	1,500 x 1	1,500 x 1
	Air Flow Rate (High)	m^3/min x No.	270 x 1	270 x 1	270 x 1	270 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	200 x 1	247 x 1	257 x1	257 x1
	Shipping Weight	kg x No.	208 x 1	255 x 1	265 x 1	265 x 1
Sound Pressure Level	Cooling	dB(A)	62.0	62.0	62.0	62.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			26 (40)	29 (45)	32 (50)	35 (44)
Maximum Indoor Unit Combination Ratio*			200%	200%	200%	200%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

ARUV240LTE5 / JRUV240LTE5 / ARUV260LTE5 / JRUV260LTE5

HP			24	24	26	26
Model Name	Combination Unit		ARUV240LTE5	JRUV240LTE5	ARUV260LTE5	JRUV260LTE5
	Independent Unit		ARUV240LTE5	JRUV120LTE5 JRUV120LTE5	ARUV260LTE5	JRUV140LTE5 JRUV120LTE5
Capacity (Rated)	Cooling	kW	67.2	67.2	72.8	72.8
		kcal/h	57,800	57,800	62,600	62,600
		Btu/h	229,300	229,300	248,400	248,400
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		2	2	2	2
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rate (High)	m^3/min x No.	320 x 1	210 x 2	320 x 1	210 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(920 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 1	(920 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	276 x 1	174 x 2	276 x 1	(187 x 1) + (174 x 1)
	Shipping Weight	kg x No.	290 x 1	180 x 2	290 x 1	(193 x 1) + (180 x 1)
Sound Pressure Level	Cooling	dB(A)	67.0	62.0	67.0	62.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			39 (61)	39 (48)	42 (64)	42 (52)
Maximum Indoor Unit Combination Ratio*			200%	160%	200%	160%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV280LTE5 / JRUV300LTE5 / JRUV320LTE5 / JRUV340LTE5

HP			28	30	32	34
Model Name	Combination Unit		JRUV280LTE5	JRUV300LTE5	JRUV320LTE5	JRUV340LTE5
	Independent Unit		JRUV140LTE5 JRUV140LTE5	JRUV160LTE5 JRUV140LTE5	JRUV160LTE5 JRUV160LTE5	JRUV200LTE5 JRUV140LTE5
Capacity (Rated)	Cooling	kW	78.4	84.0	89.6	95.2
		kcal/h	67,400	72,200	77,000	81,900
		Btu/h	267,500	286,600	305,700	324,800
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		2	2	2	3
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 2	(1,500 x 1) + (900 x 1)	1,500 x 2	(1,500 x 1) + (900 x 1)
	Air Flow Rate (High)	m^3/min x No.	210 x 2	(270 x 1) + (210 x 1)	270 x 2	(270 x 1) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	186 x 2	(200 x 1) + (186 x 1)	200 x 2	(257 x 1) + (186 x 1)
	Shipping Weight	kg x No.	193 x 2	(208 x 1) + (193 x 1)	208 x 2	(265 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	63.8	63.8	63.8	64.1
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			45 (56)	49 (60)	52 (64)	55 (64)
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

JRUV360LTE5 / JRUV380LTE5 / JRUV400LTE5 / JRUV420LTE5

HP			36	38	40	42
Model Name	Combination Unit		JRUV360LTE5	JRUV380LTE5	JRUV400LTE5	JRUV420LTE5
	Independent Unit		JRUV220LTE5 JRUV140LTE5	JRUV220LTE5 JRUV160LTE5	JRUV220LTE5 JRUV180LTE5	JRUV220LTE5 JRUV200LTE5
Capacity (Rated)	Cooling	kW	100.8	106.4	112.0	117.6
		kcal/h	86,700	91,500	96,300	101,100
		Btu/h	343,900	363,100	382,200	401,300
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		3	3	4	4
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 1) + (900 x 1)	1,500 x 2	1,500 x 2	1,500 x 2
	Air Flow Rate (High)	m^3/min x No.	(270 x 1) + (210 x 1)	270 x 2	270 x 2	270 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	(257 x 1) + (186 x 1)	(257 x 1) + (200 x 1)	(257 x 1) + (247 x 1)	257 x 2
	Shipping Weight	kg x No.	(265 x 1) + (193 x 1)	(265 x 1) + (208 x 1)	(265 x 1) + (255 x 1)	265 x 2
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	65.0	65.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			58 (64)	61 (64)	64	64
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV440LTE5
JRUV460LTE5
ARUV480LTE5
JRUV480LTE5

HP			44	46	48	48
Model Name	Combination Unit		JRUV440LTE5	JRUV460LTE5	ARUV480LTE5	JRUV480LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5	JRUV160LTE5 JRUV160LTE5 JRUV140LTE5	ARUV240LTE5 ARUV240LTE5	JRUV160LTE5 JRUV160LTE5 JRUV160LTE5
Capacity (Rated)	Cooling	kW	123.2	128.8	134.4	151.2
		kcal/h	105,900	110,700	115,600	130,000
		Btu/h	420,400	439,500	458,600	515,900
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	3	4	3
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 2	(1,500 x 2) + (900 x 1)	900 x 4	1,500 x 3
	Air Flow Rate (High)	m^3/min x No.	270 x 2	(270 x 2) + (210 x 1)	320 x 2	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	257 x 2	(200 x 2) + (186 x 1)	276 x 2	198 x 3
	Shipping Weight	kg x No.	265 x 2	(208 x 2) + (193 x 1)	290 x 2	206 x 3
Sound Pressure Level	Cooling	dB(A)	65.0	65.6	70.0	66.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

ARUV500LTE5 / JRUV500LTE5
ARUV520LTE5 / JRUV520LTE5

HP			50	50	52	52
Model Name	Combination Unit		ARUV500LTE5	JRUV500LTE5	ARUV520LTE5	JRUV520LTE5
	Independent Unit		ARUV260LTE5 ARUV240LTE5	JRUV220LTE5 JRUV140LTE5 JRUV140LTE5	ARUV260LTE5 ARUV260LTE5	JRUV220LTE5 JRUV160LTE5 JRUV140LTE5
Capacity (Rated)	Cooling	kW	140.0	156.8	145.6	162.4
		kcal/h	120,400	134,800	125,200	139,600
		Btu/h	477,700	535,000	496,800	554,100
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	4	4	4
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 4	(1,500 x 1) + (900 x 2)	900 x 4	(1,500 x 2) + (900 x 1)
	Air Flow Rate (High)	m^3/min x No.	320 x 2	(270 x 1) + (210 x 2)	320 x 2	(270 x 2) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	276 x 2	(257 x 1) + (187 x 2)	276 x 2	(257 x 1) + (198 x 1) + (187 x 1)
	Shipping Weight	kg x No.	290 x 2	(265 x 1) + (193 x 2)	290 x 2	(265 x 1) + (206 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	70.0	66.0	70.0	66.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV540LTE5 / JRUV560LTE5 / JRUV580LTE5 / JRUV600LTE5

HP			54	56	58	60
Model Name	Combination Unit		JRUV540LTE5	JRUV560LTE5	JRUV580LTE5	JRUV600LTE5
	Independent Unit		JRUV220LTE5 JRUV160LTE5 JRUV160LTE5	JRUV220LTE5 JRUV200LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV160LTE5
Capacity (Rated)	Cooling	kW	151.2	156.8	162.4	168.0
		kcal/h	130,000	134,800	139,600	144,500
		Btu/h	515,900	535,000	554,100	573,200
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		4	5	5	5
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	(1,500 x 2) + (900 x 1)	(1,500 x 2) + (900 x 1)	1,500 x 3
	Air Flow Rate (High)	m^3/min x No.	270 x 3	(270 x 2) + (210 x 1)	(270 x 2) + (210 x 1)	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 1) + (200 x 2)	(257 x 2) + (186 x 1)	(257 x 2) + (186 x 1)	(257 x 2) + (200 x 1)
	Shipping Weight	kg x No.	(265 x 1) + (208 x 2)	(265 x 2) + (193 x 1)	(265 x 2) + (193 x 1)	(265 x 2) + (208 x 1)
Sound Pressure Level	Cooling	dB(A)	66.5	66.5	66.8	66.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

JRUV620LTE5 / JRUV640LTE5 / JRUV660LTE5 / JRUV680LTE5

HP			62	64	66	68
Model Name	Combination Unit		JRUV620LTE5	JRUV640LTE5	JRUV660LTE5	JRUV680LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV180LTE5	JRUV220LTE5 JRUV220LTE5 JRUV200LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5	JRUV220LTE5 JRUV160LTE5 JRUV160LTE5 JRUV140LTE5
Capacity (Rated)	Cooling	kW	173.6	179.2	184.8	190.4
		kcal/h	149,300	154,100	158,900	163,700
		Btu/h	592,300	611,500	630,600	649,700
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	5
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	1,500 x 3	1,500 x 3	(900 x 1) + (1,500 x 3)
	Air Flow Rate (High)	m^3/min x No.	270 x 3	270 x 3	270 x 3	(270 x 3) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	(257 x 2) + (247 x 1)	257 x 3	257 x 3	(257 x 1) + (200 x 2) + (186 x 1)
	Shipping Weight	kg x No.	(265 x 2) + (255 x 1)	265 x 3	265 x 3	(265 x 1) + (208 x 2) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	67.3	67.5	67.5	67.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV700LTE5 / ARUV720LTE5 / JRUV720LTE5 / ARUV740LTE5

HP			70	72	72	74
Model Name	Combination Unit		JRUV700LTE5	ARUV720LTE5	JRUV720LTE5	ARUV740LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV140LTE5 JRUV120LTE5	ARUV240LTE5 ARUV240LTE5 ARUV240LTE5	JRUV220LTE5 JRUV220LTE5 JRUV140LTE5 JRUV140LTE5	ARUV260LTE5 ARUV240LTE5 ARUV240LTE5
Capacity (Rated)	Cooling	kW	196.0	201.6	224.0	207.2
		kcal/h	168,500	173300	192,600	178200
		Btu/h	668,800	687900	764,300	707000
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 2) + (900 x 2)	900 x 6	(1,500 x 2) + (900 x 2)	900 x 6
	Air Flow Rate (High)	m^3/min x No.	270 x 2) + (210 x 2)	320 x 3	(270 x 2) + (210 x 2)	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (186 x 1) + (177 x 1)	276 x 3	(257 x 2) + (187 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (193 x 1) + (184 x 1)	290 x 3	(265 x 2) + (193 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.5	71.8	67.8	71.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

JRUV740LTE5
ARUV760LTE5
JRUV760LTE5
ARUV780LTE5

HP			74	76	76	78
Model Name	Combination Unit		JRUV740LTE5	ARUV760LTE5	JRUV760LTE5	ARUV780LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV160LTE5 JRUV140LTE5	ARUV260LTE5 ARUV260LTE5 ARUV240LTE5	JRUV220LTE5 JRUV220LTE5 JRUV160LTE5 JRUV160LTE5	ARUV260LTE5 ARUV260LTE5 ARUV260LTE5
Capacity (Rated)	Cooling	kW	229.6	212.8	235.2	218.4
		kcal/h	197,400	183000	202,200	187800
		Btu/h	783,400	726100	802,500	745200
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	900 x 6	1,500 x 4	900 x 6
	Air Flow Rate (High)	m^3/min x No.	(270 x 3) + (210 x 1)	320 x 3	270 x 4	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (198 x 1) + (187 x 1)	276 x 3	(257 x 2) + (198 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (206 x 1) + (193 x 1)	290 x 3	(265 x 2) + (206 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.8	71.8	68.0	71.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

JRUV780LTE5 / JRUV800LTE5 / JRUV820LTE5 / JRUV840LTE5

HP			78	80	82	84
Model Name	Combination Unit		JRUV780LTE5	JRUV800LTE5	JRUV820LTE5	JRUV840LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV200LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV160LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV180LTE5
Capacity (Rated)	Cooling	kW	240.8	224.0	229.6	235.2
		kcal/h	207,100	192,600	197,400	202,200
		Btu/h	821,600	764,300	783,400	802,500
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		7	7	7	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	(1,500 x 3) + (900 x 1)	1,500 x 4	1,500 x 4
	Air Flow Rate (High)	m^3/min x No.	(270 x 3) + (210 x 1)	(270 x 3) + (210 x 1)	270 x 4	270 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4
Weight	Net Weight	kg x No.	(257 x 3) + (187 x 1)	(257 x 3) + (186 x 1)	(257 x 3) + (200 x 1)	(257 x 3) + (247 x 1)
	Shipping Weight	kg x No.	(265 x 3) + (193 x 1)	(265 x 3) + (193 x 1)	(265 x 3) + (208 x 1)	(265 x 3) + (255 x 1)
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	68.0	68.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V 5

HIGH EFFICIENCY (COOLING ONLY)

JRUV860LTE5 / JRUV880LTE5
ARUV960LTE5 / ARUV980LTE5

HP			86	88	96	98
Model Name	Combination Unit		JRUV860LTE5	JRUV880LTE5	ARUV960LTE5	ARUV980LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV200LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV220LTE5	ARUV240LTE5 ARUV240LTE5 ARUV240LTE5 ARUV240LTE5	ARUV260LTE5 ARUV240LTE5 ARUV240LTE5 ARUV240LTE5
Capacity (Rated)	Cooling	kW	240.8	246.4	268.8	274.4
		kcal/h	207,100	211,900	231,100.0	235,900.0
		Btu/h	821,600	840,800	917,200.0	936,300.0
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		8	8	8	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 4	1,500 x 4	900 x 8	900 x 8
	Air Flow Rate (High)	m^3/min x No.	270 x 4	270 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4
Weight	Net Weight	kg x No.	257 x 4	257 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	265 x 4	265 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	73.0	73.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

HIGH EFFICIENCY (COOLING ONLY)

ARUV1000LTE5 / ARUV1020LTE5 / ARUV1040LTE5

HP			100	102	104
Model Name	Combination Unit		ARUV1000LTE5	ARUV1020LTE5	ARUV1040LTE5
	Independent Unit		ARUV260LTE5 ARUV260LTE5 ARUV240LTE5 ARUV240LTE5	ARUV260LTE5 ARUV260LTE5 ARUV260LTE5 ARUV240LTE5	ARUV260LTE5 ARUV260LTE5 ARUV260LTE5 ARUV260LTE5
Capacity (Rated)	Cooling	kW	280.0	285.6	291.2
		kcal/h	240,800.0	245,600.0	250,400.0
		Btu/h	955,400.0	974,500.0	993,600.0
	Heating	kW	-	-	-
		kcal/h	-	-	-
		Btu/h	-	-	-
Exterior	Casing Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		8	8	8
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	900 x 8	900 x 8	900 x 8
	Air Flow Rate (High)	m^3/min x No.	320 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4
Weight	Net Weight	kg x No.	276 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	290 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	73.0	73.0	73.0
Communication Cable		mm^2 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
	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
Maximum Indoor Unit Combination Ratio*			130%	130%	130%

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
* The recommended ratio is 130%.

MULTI V™ S

Suitable for residences and small offices

- Air cooled VRF Heat pump & Cooling Only
- 4 ~ 14HP (12.1 ~ 38.0kW) : Cooling capacity based
- Side discharge outdoor unit
- Compact model & Standard model

Energy savings

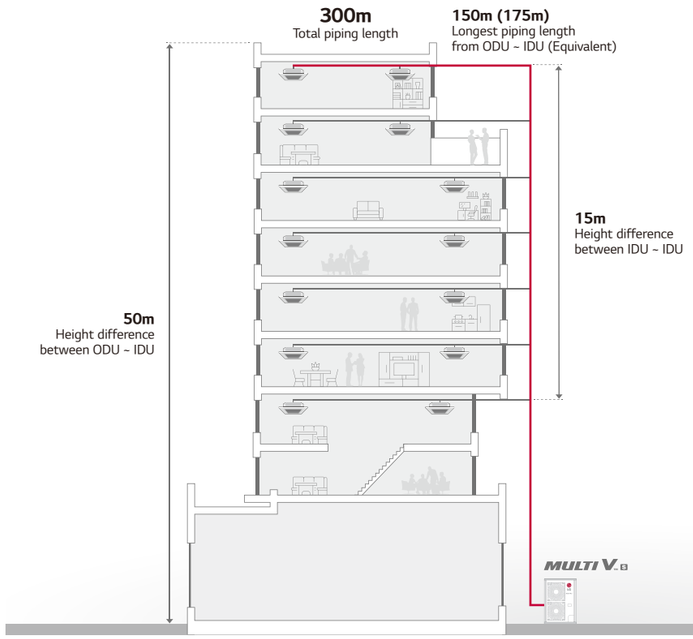
Reliability

Convenience

Compact yet powerful VRF For premium residences and small offices

MULTI V S

Piping Length



Standard Model

Model	JRUN(V)_LSS0 (8 ~ 14HP)
Total piping length	300m
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	15m

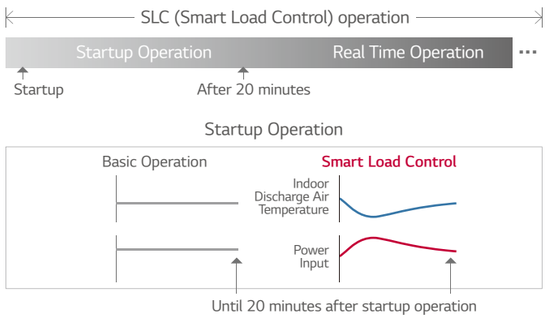
Compact Model

Model	ARUN_L(G)SS5 (4 ~ 6HP)
Total piping length	300m
Longest piping length (Equivalent)	80m (100m)
Longest piping length after 1st branch (Conditional application)	40m
Height difference between ODU ~ IDU	30m
Height difference between IDU ~ IDU	15m

Smart Load Control Applied

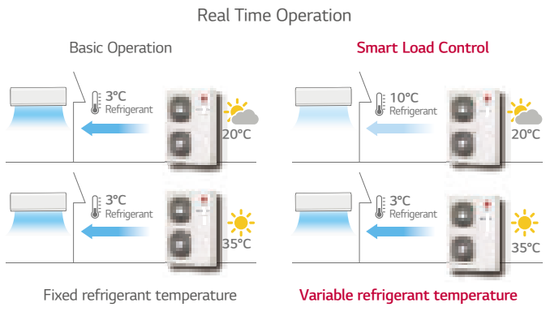
Increase comfortable sensation and Max. 23% energy saving thanks to MULTI V smart load control

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



Max. 10% Energy saving

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

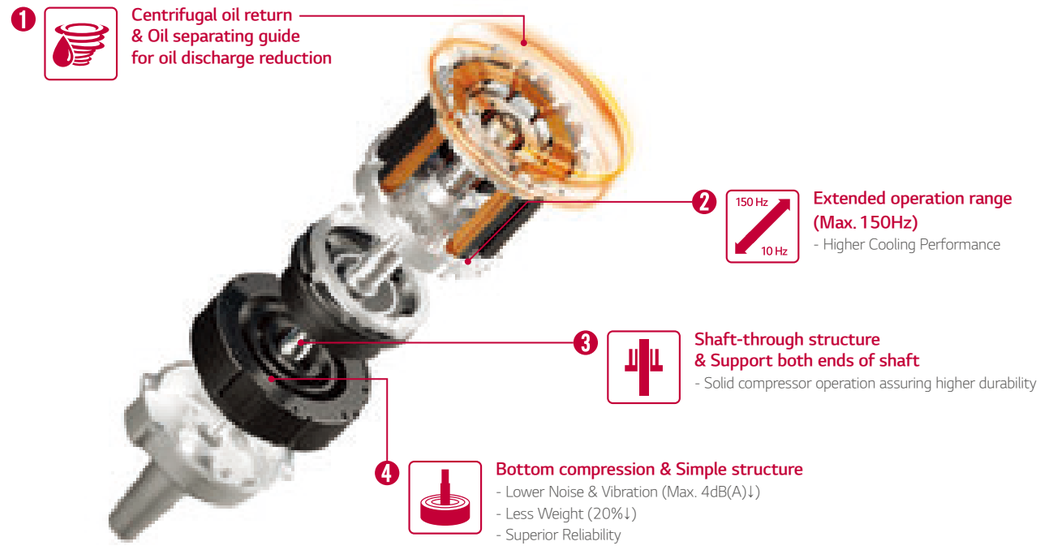


Max. 13% Energy saving

※ How to set up : By dip switch in outdoor unit (Referred to Product Data Book) factory default setting is Off.
※ Dual sensing (Temperature & humidity) smart load control is possible with remote controller PTEMTB100 (White).

R1 Compressor™

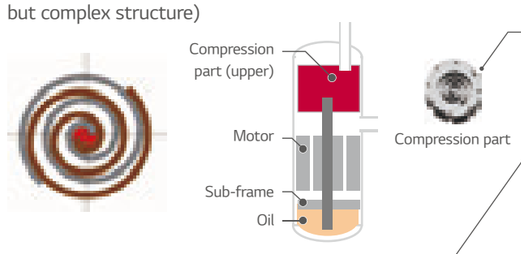
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



Conventional Compressor

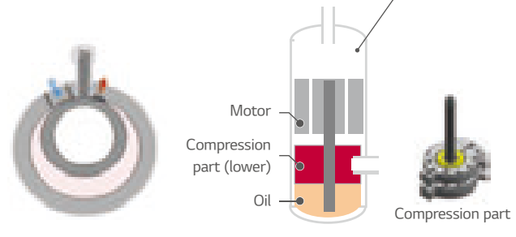
Scroll

High efficiency / Low sound (Continuous compression, but complex structure)



Rotary

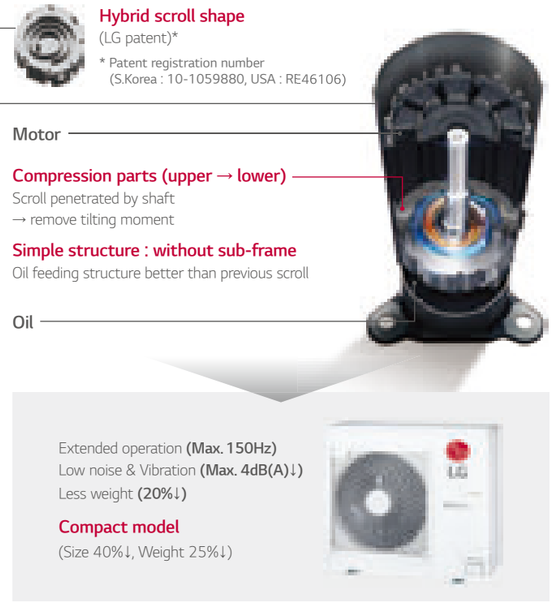
Simple structure (Compression per 1 rotation)



R1 Compressor™

Revolutionary Scroll

High efficiency / Stable & Simple structure

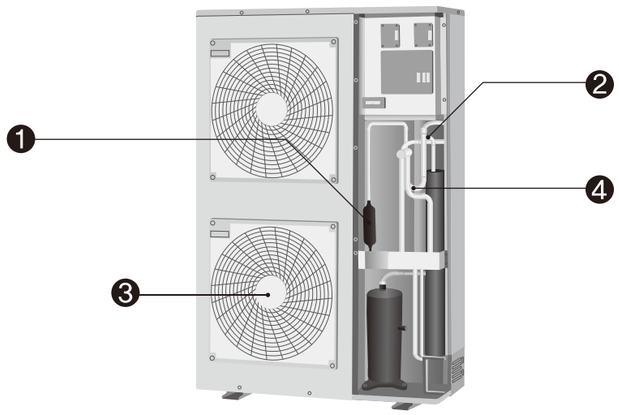


MULTI V S

High Reliability of Refrigerant Components

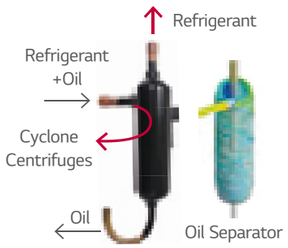
Superior Performance and Strong Durable Components are developed by LG's technologies

MULTI V S improved reliability through an excellent technique of Oil separator / Accumulator / Sub-cooling.



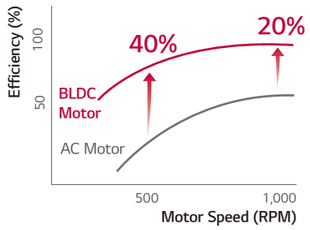
❶ Cyclonic Oil Separator

- Highly reliable and efficient oil separation by centrifuge using cyclonic methods.
- High collection efficiency as well as outstanding resistance to high temperature and pressure.



❸ 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.



❷ Large Volume Accumulator

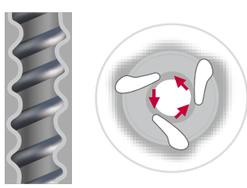
- Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional).
- Prevents the liquid refrigerant entering the compressor suction.
- Maximize efficiency by optimal amount of refrigerant.
- Protect compressor break down and Increase life time.

Accumulator

❹ 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.



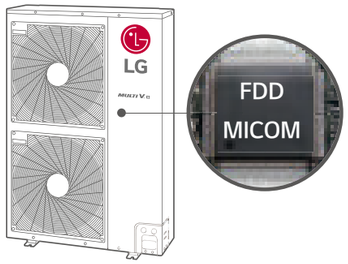
Double Sub-cool Interchanger

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 Refrigerant Collection
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function



Heat Exchanger with Black Fin for Corrosion Resistance

Strong Durability against high salinity and heavily polluted air

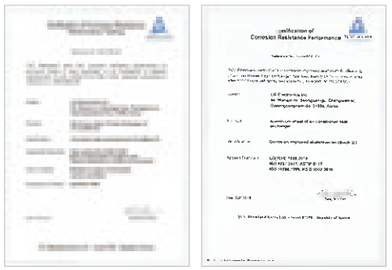
LG's exclusive Black Fin is applied on the heat exchanger of MULTI V S in order to perform even in corrosive environments. The strong protection from various corrosive external environments such as seaside with high salt contamination and industrial cities with severe air pollution caused by fumes from factories keeps MULTI V S operating without breakdown. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Black Fin

Corrosion Resistance Proven by Verified Tests

LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test and the result has been verified by prestigious global certification organization, TUV.

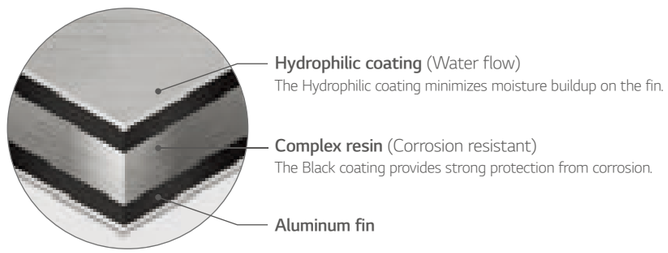
Verified protection



※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / ISO 9227 (10,000 hours)

Enhanced Coating Layers

The black coating with enhanced complex resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories. 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.



MULTI V S

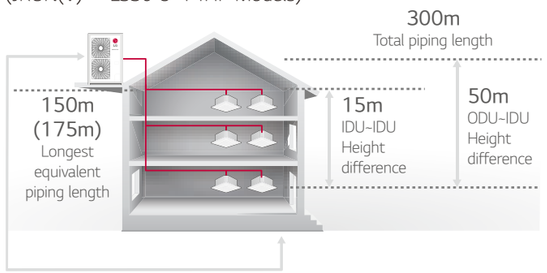
Sufficient Pipe Length Limit

Sufficient pipes length limitation in Design and Installation of immense variety of building

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.

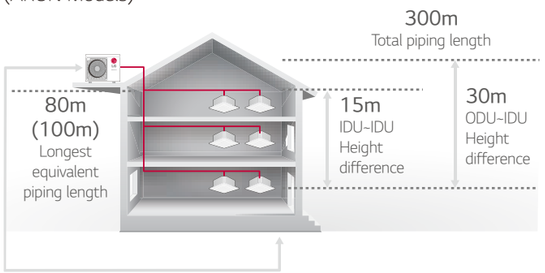
Standard Model Piping Capabilities

(JRUN(V)***LSS0 8~14HP Models)



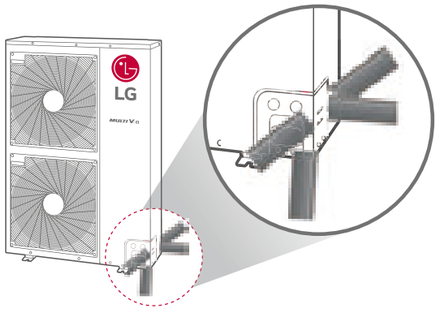
Compact Model Piping Capabilities

(ARUN Models)



4 Way Piping

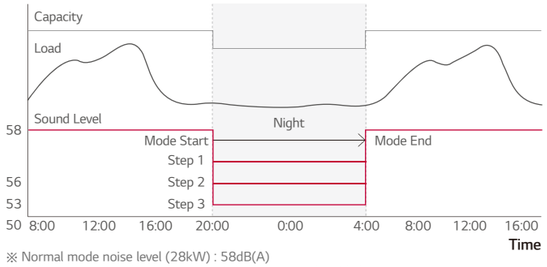
Free design and installation by 4 way piping

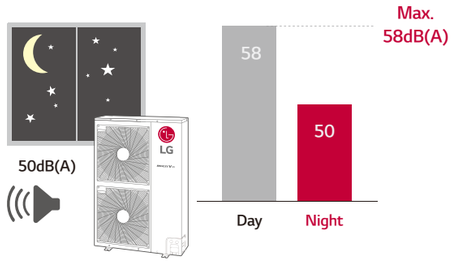


Low Noise Operation

Free from noise at any time with low noise operation function

At night mode, noise reduced maximum 14% compared to normal mode.





※ Normal mode noise level (28kW) : 58dB(A)
※ Night 3 step noise level (28kW) : 56dB(A), 53dB(A), 50dB(A)
※ Sound pressure tested by following conditions : 1m distance / 1.5m height

Biomimetic Fan

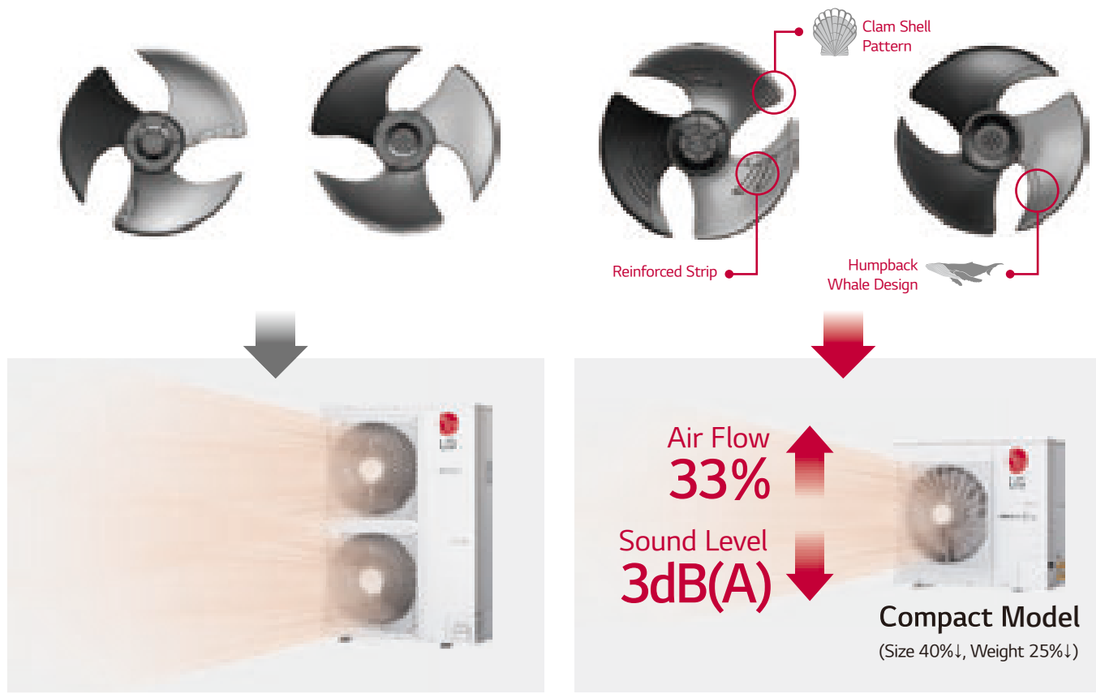
With biomimetic fan design, newly developed fan blows higher air volume, also operating noise is decreased.
This technology enables a highly efficient compact model.

Previous

- General fan design
- Sound pressure level 53.1dB(A) (110CMM / 2 fan)
- Max. Air flow up to 60CMM (800RPM / 124W Motor x 1EA)

New

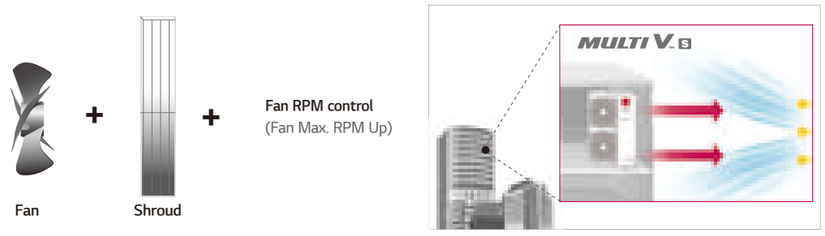
- Biomimetic fan design
- Sound pressure level 49.6dB(A) (110CMM / 2 fan)
- Max. Air flow up to 86CMM* (1,000RPM / 200W Motor x 1EA)



* The value is based on 4, 5, 6 model. (ARUN***GSS5, ARUN***LSS5)

Fan RPM Control

Flow of air has straightness due to fan shroud and Fan RPM control even in high-rise building.



- Straight air flow
  - New shroud adopted
  - Performs high static pressure

MULTI V S

COMPACT MODEL

HEAT PUMP (1 PHASE)

ARUN040GSS5 / ARUN050GSS5 / ARUN060GSS5

HP			4	5	6
Model Name	Combination Unit		ARUN040GSS5	ARUN050GSS5	ARUN060GSS5
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
		kcal/h	10,400	12,000	13,300
		Btu/h	41,300	47,800	52,900
	Heating (Rated)	kW	12.1	16.0	18.0
		kcal/h	10,400	13,800	15,500
		Btu/h	41,300	54,600	61,400
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m³/min	60	80	80
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)	Net	mm x No.	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1
Net Weight		kg x No.	64.7 x 1	72 x 1	72 x 1
Sound Pressure Level	Cooling	dB(A)	50	51	52
Communication Cable		mm² 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
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

HEAT PUMP (3 PHASE)

ARUN040LSS5 / ARUN050LSS5 / ARUN060LSS5

HP			4	5	6
Model Name	Combination Unit		ARUN040LSS5	ARUN050LSS5	ARUN060LSS5
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
		kcal/h	10,400	12,000	13,300
		Btu/h	41,300	47,800	52,900
	Heating (Rated)	kW	12.1	16.0	18.0
		kcal/h	10,400	13,800	15,500
		Btu/h	41,300	54,600	61,400
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m³/min	60	80	80
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)	Net	mm x No.	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1
Net Weight		kg x No.	64.7 x 1	72 x 1	72 x 1
Sound Pressure Level	Cooling	dB(A)	50	51	52
Communication Cable		mm² 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
	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			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. 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. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

MULTI V S

STANDARD MODEL

HEAT PUMP (3 PHASE)

JRUN080LSS0 / JRUN100LSS0 / JRUN120LSS0

HP			8	10	12
Model Name	Combination Unit		JRUN080LSS0	JRUN100LSS0	JRUN120LSS0
Capacity	Cooling(Rated)	kW	22.4	28.0	33.6
		kcal/h	19,300	24,100	28,900
		Btu/h	76,400	95,900	114,700
	Heating(Rated)	kW	25.2	31.5	37.8
		kcal/h	21,700	27,100	32,500
		Btu/h	86,000	107,500	129,000
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m³/min	140	190	190
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1 1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
	Heating	°C (°F)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)	-20 ~ 18 (-4 ~ 64)
Dimensions (W x H x D)	Net	mm x No.	(950 x 1,380 x 330) x 1	(1,090 x 1,625 x 380) x 1	(1,090 x 1,625 x 380) x 1
Net Weight		kg x No.	115 x 1	144 x 1	157 x 1
Sound Pressure Level	Cooling	dB(A)	57	58	60
Communication Cable		mm² 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
	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			13	16	20

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

COOLING ONLY (1, 3 PHASE)

JRUV050GSD5 / JRUV060GSD5 / JRUV140LSS0

HP			5	6	14
Model Name	Combination Unit		JRUV050GSD5	JRUV060GSD5	JRUV140LSS0
Capacity	Cooling (Rated)	kW	14.5	17.0	38.0
		kcal/h	12,470	14,620	32,700
		Btu/h	49,500	58,000	129,700
	Heating (Rated)	kW	-	-	-
		kcal/h	-	-	-
		Btu/h	-	-	-
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m³/min	70	70	190
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)	-5 ~ 53 (23 ~ 127)
Dimensions (W x H x D)		mm x No.	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(1,090 x 1,625 x 380) x 1
Net Weight		kg x No.	72 x 1	72 x 1	157 x 1
Sound Pressure Level	Cooling	dB(A)	53	53	63
Communication Cable		mm² 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
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	3, 380-415, 50
Number of maximum connectable indoor units			8	9	23

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. 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
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

MULTI V™ WATER IV

Highly efficient & Economical water source system

- Water Cooled VRF Heat Pump & Cooling Only (Shell & Coil)
- 8 ~ 80HP (22.4 ~ 224.0kW) : Cooling capacity based
- 3Ø, 380 ~ 415V, 50Hz
- Outdoor unit should be installed indoors

Economical, Efficient system

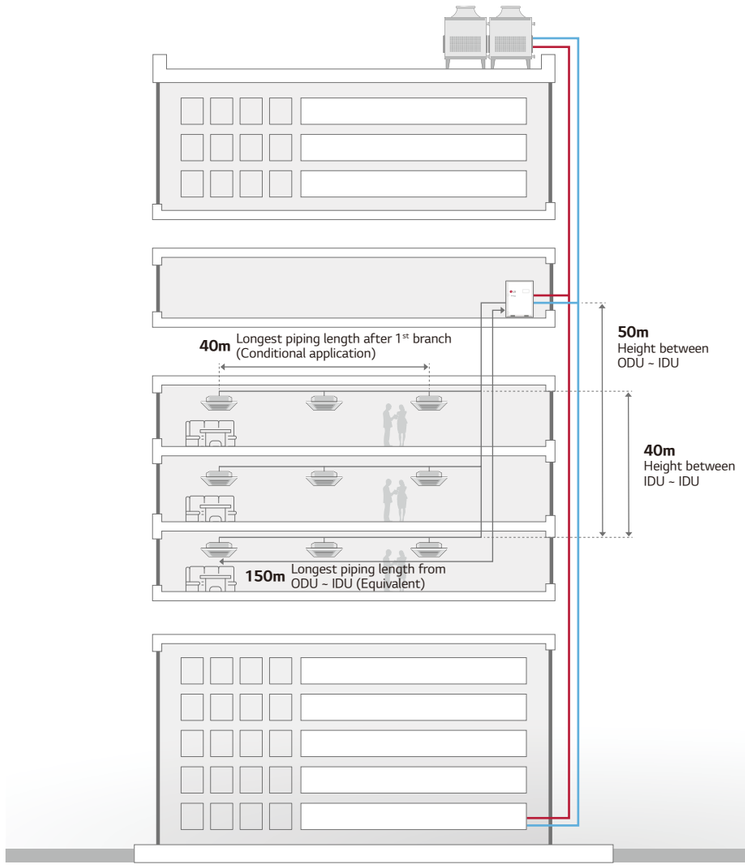
Energy savings

Space savings

Convenient installation

MULTI V WATER IV

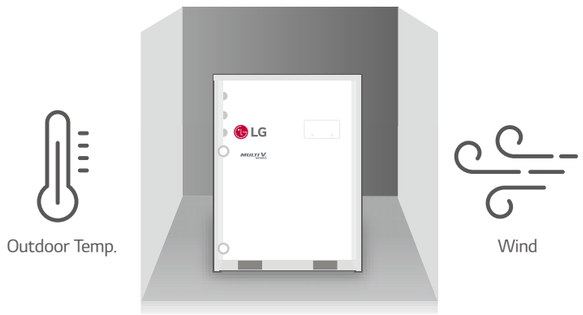
Piping Length



Total Piping Length	300m
Longest piping length from ODU ~ IDU (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height between ODU ~ IDU	50m
Height between IDU ~ IDU	40m

High Efficiency System Regardless of External Conditions

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

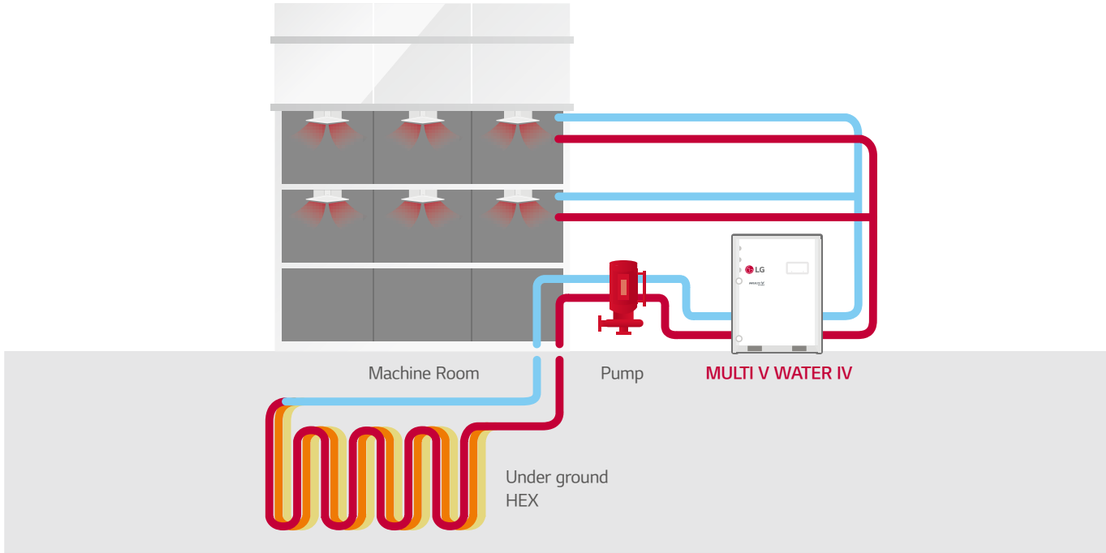


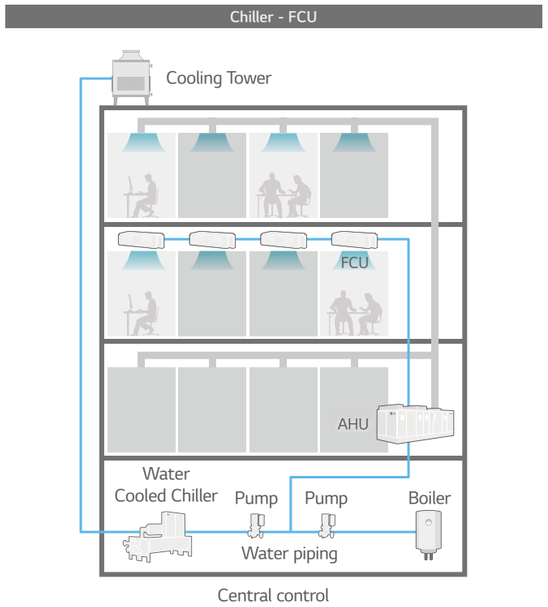
MULTI V WATER IV System for Geothermal Applications

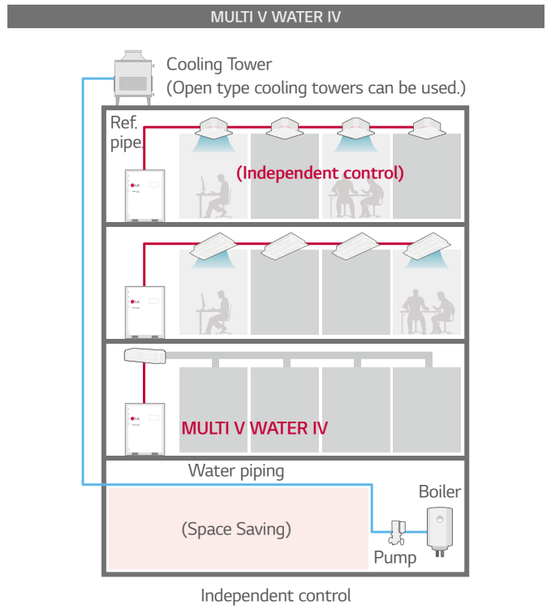
Uses underground heat sources such as soil, ground water, lake, river, etc. as renewable energy for cooling and Heating of a building. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface. It is a highly efficient and eco-friendly MULTI V system.

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

※ Please contact local LG office for application availability.





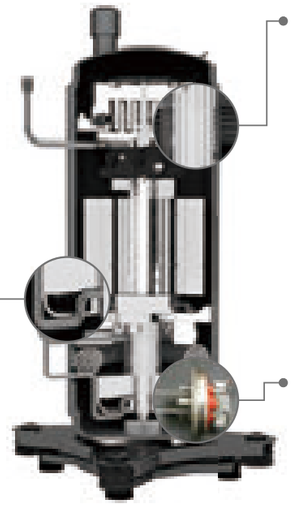


MULTI V WATER IV

Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

Adopting a water-based cooling method, this unit optimizes performance in comparison to compressor capacity.
It also ensures heat exchange performance for high-rise buildings, thus allowing electrical-savings.



Extended Compressor Speed 20Hz ~ 140Hz
- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency

HiPOR™ (High Pressure Oil Return)
- Eliminating loss in suction gas by returning oil directly to compressor
- Resolve compressor efficiency loss caused by oil return

Active Oil Control (Oil level sensor)
- Oil recovery operation occurs only when required
- Enhanced compressor reliability & continuous heating
- Oil distribution between compressors

Wide Capacity

Wide Capacity makes it easy to apply to large building and large systems

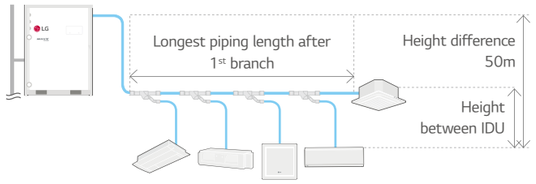
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

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 of immense variety of building

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



Total piping length	300m
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

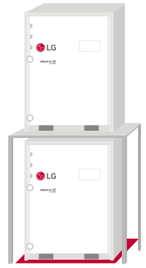
Significant uptake of construction space that can be used for commercial use or public space as much as possible

The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 61% saving in installation space.

Company B

28kW x 4EA
Per Each
880 x 550 mm

MULTI V WATER IV



61% Reduced

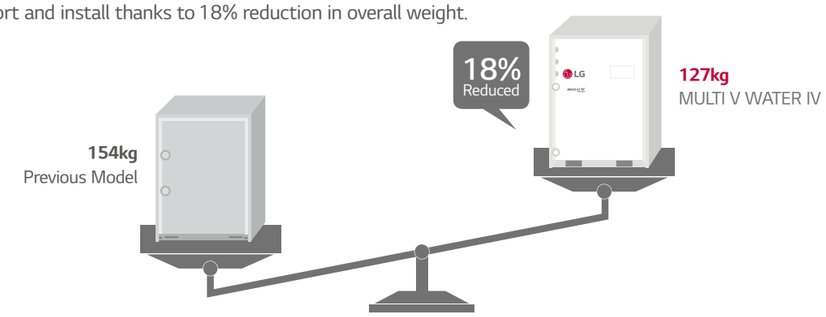
56kW x 2EA
Per Each
755 x 500 mm

※ 112kW, Floor area based

Light Weight

Nothing or Decrease additional load reinforcement work at building

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



※ Based on 28kW

MULTI V WATER IV

The Benefits of Shell & Coil Heat Exchange

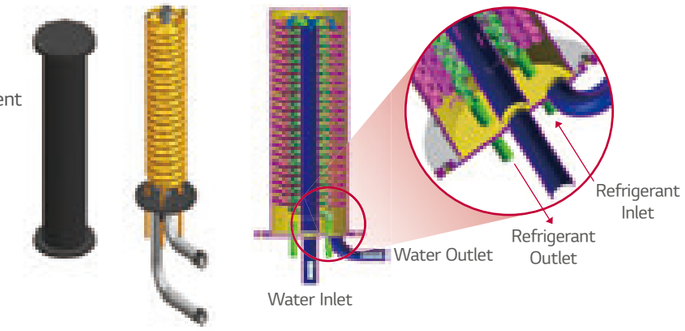
Shell & Coil type heat exchanger can be removed from the rest of the equipment and washed separately.
This resolves the problem of decrease in performance, thereby providing easy maintenance.

Easy Maintenance
- Detachable from the shell & coil

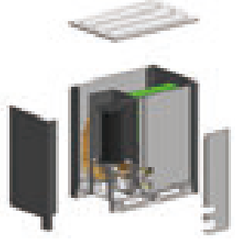
Operation Cost Saving
- Performance improvement after washing treatment

Less Dependence on Water Quality
- Not affected by water quality

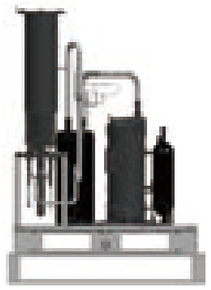
※ Please contact local LG office for application availability.



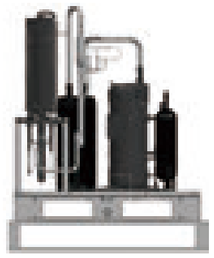
Disassembly Sequence and Washing of Shell & Coil Heat Exchanger



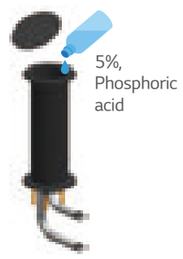
- Remove the upper and side panel.



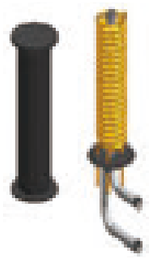
- Lift case in the vertical direction in order to avoid the damage of the coil.



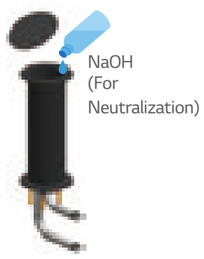
- Strip the O-ring



- Put 5% Phosphoric acid aqueous solution in the case and close the upper plate.
- After about 1hour, discharge 5% Phosphoric acid aqueous solution through the drain pipe.



- Scrub the Coil in the horizontal direction with size 6~8mm brush.
- Spray the Water in the horizontal direction for washing of the entire coil.



- Open the upper plate then circulate the water intermixed with NaOH, discharge the water through the drain pipe.

Precaution of Installation

1. Do not install the unit at the outdoors. (Otherwise it may cause fire, electric shock and trouble.)
   Recommended ambient temperature of outdoor unit is between 0 ~ 40°C.

2. Keep the water temperature between **10 ~ 45°C**. Other it may cause the breakdown.
   Standard water supply temperature is 30°C for Cooling and 20°C for heating.

3. Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.

4. Be careful of the **water purity control**. Otherwise it may cause the breakdown due to water pipe corrosion.
   (Refer to 'Standard Table for Water Purity Control.')

5. The water pressure resistance of the water pipe system of this product is **1.98MPa.**

6. Always install **a trap** so that the drained water does not back flush.

7. Install **a pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.

8. **Flexible joints** must be installed not to cause any leakage from the vibration of pipes.

9. Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.

10. It is recommended 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.)

11. 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%**.)

12. 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.
    1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
    2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
    3) 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.
    4) And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
    5) 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.

MULTI V WATER IV

HEAT PUMP

ARWN080LAS4 / ARWN100LAS4 / ARWN140LAS4 / ARWN200LAS4

HP			8	10	14	20
Model Name	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4	ARWN200LAS4
	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4	ARWN200LAS4
Capacity	Cooling (Rated)	kW	22.4	28.0	39.2	56.0
		kcal/h	19,300	24,100	33,700	48,200
		Btu/h	76,400	95,900	133,800	191,100
	Heating (Rated)	kW	25.2	31.5	44.1	63.0
		kcal/h	21,700	27,100	37,900	54,200
		Btu/h	86,000	107,500	150,500	215,000
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45	45
	Rated Water Flow	LPM	77	96	135	192
	Head Loss	kPa	10.7	15.8	28.6	30.1
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		1	1	1	1
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
	Gas Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	25.4 (1)	28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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	(755 x 997 x 500) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1	140 x 1
Sound Pressure Level	Cooling	dB(A)	47	50	58	54
	Heating	dB(A)	51	53	57	60
Communication Cable		mm^2 x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			13 (20)	16 (25)	23 (35)	32 (50)
Maximum Indoor Unit Combination Ratio*			200%	200%	200%	200%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

HEAT PUMP

ARWN160LAS4 / ARWN180LAS4 / ARWN220LAS4 / ARWN240LAS4

HP			16	18	22	24
Model Name	Combination Unit		ARWN160LAS4	ARWN180LAS4	ARWN220LAS4	ARWN240LAS4
	Independent Unit		ARWN080LAS4 ARWN080LAS4	ARWN100LAS4 ARWN080LAS4	ARWN080LAS4 ARWN140LAS4	ARWN100LAS4 ARWN140LAS4
Capacity	Cooling (Rated)	kW	44.8	50.4	61.6	67.2
		kcal/h	38,600	43,400	53,000	57,800
		Btu/h	152,800	172,300	210,200	229,700
	Heating (Rated)	kW	50.4	56.7	69.3	75.6
		kcal/h	43,400	48,800	59,600	65,000
		Btu/h	172,000	193,500	236,500	258,000
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45	45
	Rated Water Flow	LPM	77 + 77	96 + 77	135 + 77	135 + 96
	Head Loss	kPa	10.7 + 10.7	15.8 + 10.7	28.6 + 10.7	28.6 + 15.8
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		2	2	2	2
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	12.7 (1/2)	12.7 (1/2)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	34.9 (1-3/8)	34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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	(755 x 997 x 500) x 2
Net Weight		kg x No.	127 x 2	127 x 2	127 x 2	127 x 2
Sound Pressure Level	Cooling	dB(A)	50	52	58	59
	Heating	dB(A)	54	55	58	58
Communication Cable		mm^2 x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			26 (40)	29 (45)	35 (44)	39 (48)
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

MULTI V WATER IV

HEAT PUMP

ARWN280LAS4 / ARWN300LAS4 / ARWN340LAS4 / ARWN400LAS4

HP			28	30	34	40
Model Name	Combination Unit		ARWN280LAS4	ARWN300LAS4	ARWN340LAS4	ARWN400LAS4
	Independent Unit		ARWN140LAS4 ARWN140LAS4	ARWN100LAS4 ARWN200LAS4	ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4
Capacity	Cooling (Rated)	kW	78.4	84.0	95.2	112.0
		kcal/h	67,400	72,300	81,900	96,400
		Btu/h	267,600	287,000	324,900	382,200
	Heating (Rated)	kW	88.2	94.5	107.1	126.0
		kcal/h	75,800	81,300	92,100	108,400
		Btu/h	301,000	322,500	365,500	429,900
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45	45
	Rated Water Flow	LPM	135 + 135	192 + 96	192 + 135	192 + 192
	Head Loss	kPa	28.6 + 28.6	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		2	2	2	2
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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	(755 x 997 x 500) x 2
Net Weight		kg x No.	127 x 2	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2
Sound Pressure Level	Cooling	dB(A)	59	55	59	55
	Heating	dB(A)	58	61	61	61
Communication Cable		mm^2 x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			45 (56)	49 (60)	55 (64)	64
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

HEAT PUMP

ARWN420LAS4 / ARWN440LAS4 / ARWN480LAS4 / ARWN500LAS4

HP			42	44	48	50
Model Name	Combination Unit		ARWN420LAS4	ARWN440LAS4	ARWN480LAS4	ARWN500LAS4
	Independent Unit		ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN100LAS4
Capacity	Cooling (Rated)	kW	117.6	123.2	134.4	140.0
		kcal/h	101,200	106,000	115,600	120,500
		Btu/h	401,300	420,800	458,700	478,100
	Heating (Rated)	kW	132.3	138.6	151.2	157.5
		kcal/h	113,800	119,200	130,000	135,500
		Btu/h	451,500	473,000	516,000	537,500
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45	45
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135	192 + 192 + 96
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 15.8
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		3	3	3	3
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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	(755 x 997 x 500) 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)	(140 x 2) + (127 x 1)
Sound Pressure Level	Cooling	dB(A)	60	60	60	58
	Heating	dB(A)	62	62	62	63
Communication Cable		mm^2 x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

MULTI V WATER IV

HEAT PUMP

ARWN540LAS4 / ARWN600LAS4
ARWN620LAS4 / ARWN640LAS4

HP			54	60	62	64
Model Name	Combination Unit		ARWN540LAS4	ARWN600LAS4	ARWN620LAS4	ARWN640LAS4
	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN100LAS4
Capacity	Cooling (Rated)	kW	151.2	168.0	173.6	179.2
		kcal/h	130,100	144,600	149,400	154,200
		Btu/h	516,000	573,300	592,400	611,900
	Heating (Rated)	kW	170.1	189.0	195.3	201.6
		kcal/h	146,300	162,600	168,000	173,400
		Btu/h	580,500	645,000	666,500	688,000
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45	45
	Rated Water Flow	LPM	192 + 192 + 135	192 + 192+ 192	192 + 192 + 135 + 77	192 + 192 + 135 + 96
	Head Loss	kPa	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		3	3	4	4
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	44.5 (1-3/4)	44.5 (1-3/4)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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 4	(755 x 997 x 500) x 4
Net Weight		kg x No.	(140 x 2) + (127 X 1)	140 x 3	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)
Sound Pressure Level	Cooling	dB(A)	60	56	61	61
	Heating	dB(A)	62	62	64	64
Communication Cable		mm² x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

HEAT PUMP

ARWN680LAS4 / ARWN700LAS4 / ARWN740LAS4 / ARWN800LAS4

HP			68	70	74	80
Model Name	Combination Unit		ARWN680LAS4	ARWN700LAS4	ARWN740LAS4	ARWN800LAS4
	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Capacity	Cooling (Rated)	kW	190.4	196.0	207.2	224.0
		kcal/h	163,800	168,700	178,300	192,800
		Btu/h	649,800	669,200	707,100	764,400
	Heating (Rated)	kW	214.2	220.5	233.1	252.0
		kcal/h	184,200	189,700	200,500	216,800
		Btu/h	731,000	752,500	795,500	860,000
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45	45
	Rated Water Flow	LPM	192 + 192 + 135 + 135	192 + 192 + 192 + 96	192 + 192 + 192 + 135	192 + 192 + 192 + 192
	Head Loss	kPa	30.1 + 30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		4	4	4	4
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)	-5 ~ 45 (23 ~ 113)
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (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	(755 x 997 x 500) x 4
Net Weight		kg x No.	(140 x 2) + (127 x 2)	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4
Sound Pressure Level	Cooling	dB(A)	61	59	61	57
	Heating	dB(A)	63	65	63	63
Communication Cable		mm² x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic expansion valve	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	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

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. 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, Water inlet temp. 30°C
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Water Inlet temp. 20°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.

MULTI V WATER IV

COOLING ONLY (SHELL&COIL)

ARWV100LAL4

HP			10
Model Name	Combination Unit		ARWV100LAL4
	Independent Unit		ARWV100LAL4
Capacity	Cooling (Rated)	kW	28.0
		kcal/h	24,100
		Btu/h	95,500
	Heating (Rated)	kW	-
		kcal/h	-
		Btu/h	-
Exterior	Color		Warm Gray, Morning Gray
Heat Exchanger	Type		Copper Coil
	Maximum Pressure Resistance	kgf/cm²	45
	Rated Water Flow	LPM	96
	Head Loss	kPa	36.5
Compressor	Type		LG BLDC Inverter Scroll
	Number of Compressor		1
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	9.52 (3/8)
	Gas Pipe	mm (inch)	22.2 (7/8)
Water Connecting Pipes	Inlet	mm	PT 25 (External Thread)
	Outlet	mm	PT 25 (External Thread)
	Drain Outlet	mm	PT 20 (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 1
Net Weight		kg x No.	126 x 1
Sound Pressure Level	Cooling	dB(A)	50
	Heating	dB(A)	-
Communication Cable		mm² x No. (CVV-SB)	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A
	Control Device		Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50
Number of maximum connectable indoor units			16 (25)
Maximum Indoor Unit Combination Ratio*			200%

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. 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, Water inlet temp. 30°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.
※ If it will be installed 20HP and 30HP, please contact the HQ.

COOLING ONLY (SHELL&COIL)

ARWV200LAL4 / ARWV300LAL4

HP			20	30
Model Name	Combination Unit		ARWV200LAL4	ARWV300LAL4
	Independent Unit		ARWV100LAL4 ARWV100LAL4	ARWV100LAL4 ARWV100LAL4 ARWV100LAL4
Capacity	Cooling (Rated)	kW	56.0	85.0
		kcal/h	48,200	72,300
		Btu/h	191,000	286,500
	Heating (Rated)	kW	-	-
		kcal/h	-	-
		Btu/h	-	-
Exterior	Color		Warm Gray, Morning Gray	Warm Gray, Morning Gray
Heat Exchanger	Type		Copper Coil	Copper Coil
	Maximum Pressure Resistance	kgf/cm²	45	45
	Rated Water Flow	LPM	96 + 96	96 + 96 + 96
	Head Loss	kPa	36.5 + 36.5	36.5 + 36.5 + 36.5
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		2	3
Temp. Range of Circulation Water	Cooling	°C (°F)	10 ~ 45 (50 ~ 113)	10 ~ 45 (50 ~ 113)
	Heating	°C (°F)	-	-
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	12.7 (1/2)	19.05 (3/4)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 25 + PT 25 (External Thread)	PT 25 + PT 25 + PT 25 (External Thread)
	Outlet	mm	PT 25 + PT 25 (External Thread)	PT 25 + PT 25 + PT 25 (External Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 3
Net Weight		kg x No.	126 x 2	126 x 3
Sound Pressure Level	Cooling	dB(A)	54	59
	Heating	dB(A)	-	-
Communication Cable		mm² x No. (CVV-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A
	Control Device		Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			32 (44)	49 (60)
Maximum Indoor Unit Combination Ratio*			160%	130%

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. 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, Water inlet temp. 30°C
• Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m
5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5
* The recommended ratio is 130%.
※ If it will be installed 20HP and 30HP, please contact the HQ.

INDOOR UNITS

- WALL MOUNTED UNIT
- ROUND CASSETTE
- CEILING MOUNTED CASSETTE
- CEILING CONCEALED DUCT
- FRESH AIR INTAKE UNIT
- FLOOR STANDING

Advanced Air Conditioning System

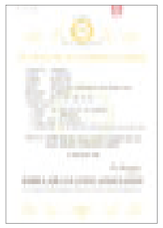
COOLING WITH PURIFIED AIR

Powerful Air Purification Performance

CAC certification guarantees powerful air purification performance to large space.

CAC certification?

The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.



Air Purification Performance Testing Result

Testing institute : Korea Institute of Machinery and Materials.
Test Standard : KACA-CAC-2011, Air purification integrated air conditioner
Maker : LG Electronics

No	Testing Item	Unit	Testing Result	Standard
1	Clean Air Delivery Rate (CADR)	m³/min	19.1	10.0 m³/min↑
		m³/h	1,145	-
2	Harmful Gas Removal Efficiency	%	63	-
3	Ozone generation density	ppm	TR	0.01↓
4	Noise Level	dB(A)	48.9	55↓
5	Treatable Area	m²	147	-

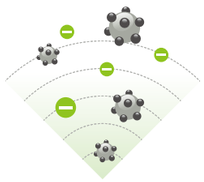
5-Step Air Purification Process

5-Steps air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment.

1st Step — Pre filter

Multi layer structure removes particle 2.5 times higher efficiency than general pre-filters and particle is reduced by 40% ↑

2nd Step — Dust Electrification

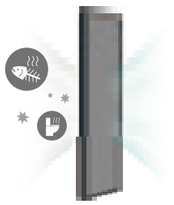


Anion increases the electrostatic force of particle & this Improves filter's collecting efficiency

3rd Step — PM1.0 Filter

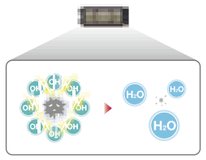
Removes up to 99% of Fine particle to ultrafine particle (Able to remove PM 1.0)

4th Step — Deodorization Filter



High efficiency gas adsorption technology removes life odor & harmful gases

5th Step — Ionizer



Deactivate bacteria and virus that cause food poisoning and pneumonia

Bacteria & Virus Removal Performance

More than 99% of bacteria and viruses can be removed by collecting them using LG Air Purification kit.

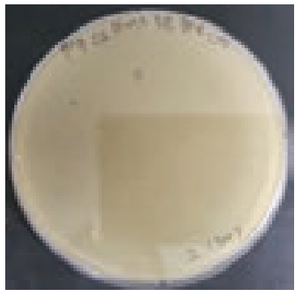
Bacteria & Virus Removal Test Summary

- Test date : April, 2020
- Test place : KTL Permanent test (Seoul, Rep. of Korea)
- Test model : PTAHMP0 (air purification kit for 4 Way cassette)
  (4 Way Cassette, Max. Air flow rate : 32 CMM)
- Test Specification : KOUVA AS 02: 2019

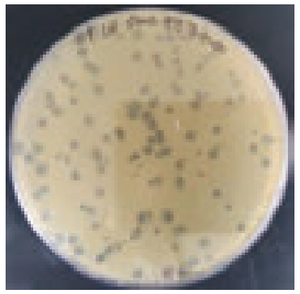
※ Test chamber size : 60m³
Test bacteria : Staphylococcus epidermidis (ATCC 12228)
- Injection quantity : 1*105 CFU
- Test time : 60min

Test virus : phi X174 (ATCC 13706-B1)
- Injection quantity : 1*109 PFU
- Test time : 30min

Air cond. & air purification kit off

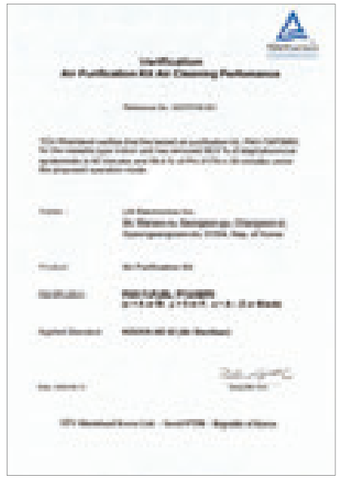


Air cond. & air purification kit on



※ Actual performance of air purification may vary depending on usage environment.

TUV Verification of Bacteria & Virus Removal



Advanced Air Conditioning System

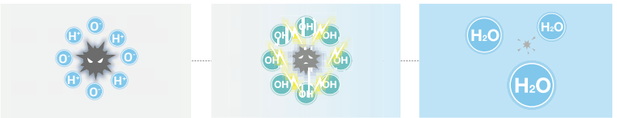
COOLING WITH PURIFIED AIR

Ionizer

The plasma ion of ionizer suppress and deactivate bacteria & viruses in the room and keeps the air clean.

How to work

The active hydrogen and the oxygen ions are directly released into the air to deactivate bacteria and virus on the surface and reduce the influence of the volatile organic compounds, combines with toxic and oxidizing active oxygen to neutralize and provide H_2O.



H+/ O_2- Is generated at carbon fiber electrodes

The plasma (OH Radical) oxidizes the H element that makes up the harmful virus surface

Converts the ions to H_2O

Type	LG [1]	Others [2]	Note
Shape			-
Electrode Type	PCB : (-) PCB : (+)	Bed : (-) PCB : (+)	-
Ozone [3] Concentration	2 ppb	10 ppb	80 % ↓
Avg. ion generation (counts / cc)	300 Million	300 Million	-

1) Based on Internal sterilization test
2) Based on third-party catalog
3) Ozone Guideline - WHO Air Quality Guideline : 100ug/m³ ↓(50ppb)
- UL867 Standard : 0.050 ppm ↓(50 ppb)
※ Result can be varied on actual state

Easy Maintenance with Washable filter

The cleaning filter does not need to be replaced and can be used semi-permanently.

2 weeks
Pre-filter
Cleaning every 2 weeks, washing with water

Dust electrification
No need of replacement

6 month
PM1.0 filter
Cleaning every 6 months, washing with water

6 month
Deodorization filter
Cleaning every 6 months, dry

Ionizer
No need of replacement

※ Cleaning cycle may vary depending on the usage environment.

Real time Air Quality Monitoring

The condition of the air is displayed in different colors on the LED display. The remote control can check the dust concentration in numerical values PM1.0 sensor detects dust particles of three sizes (PM10, PM2.5, PM1.0). You can check the indoor air condition on the cassette panel and the remote control.

Wired Remote Controller

You can check the air quality level by the remote controller.

LG ThinQ App

Air quality monitoring and operation control can be managed easily through Wi-Fi mobile application LG ThinQ.

Air Quality Monitoring
Easy monitoring of indoor air quality
(PM10, PM2.5, PM1.0)
Day / Week / Month / Yearly trend

Smart Remote Control
Control air conditioner with smart phone at any time any where
Mode / Temp. / Air speed / Wind direction

Energy Consumption Monitoring
Energy consumption and trend monitoring
Setting target Energy consumption

※ Wi-Fi Module needed.

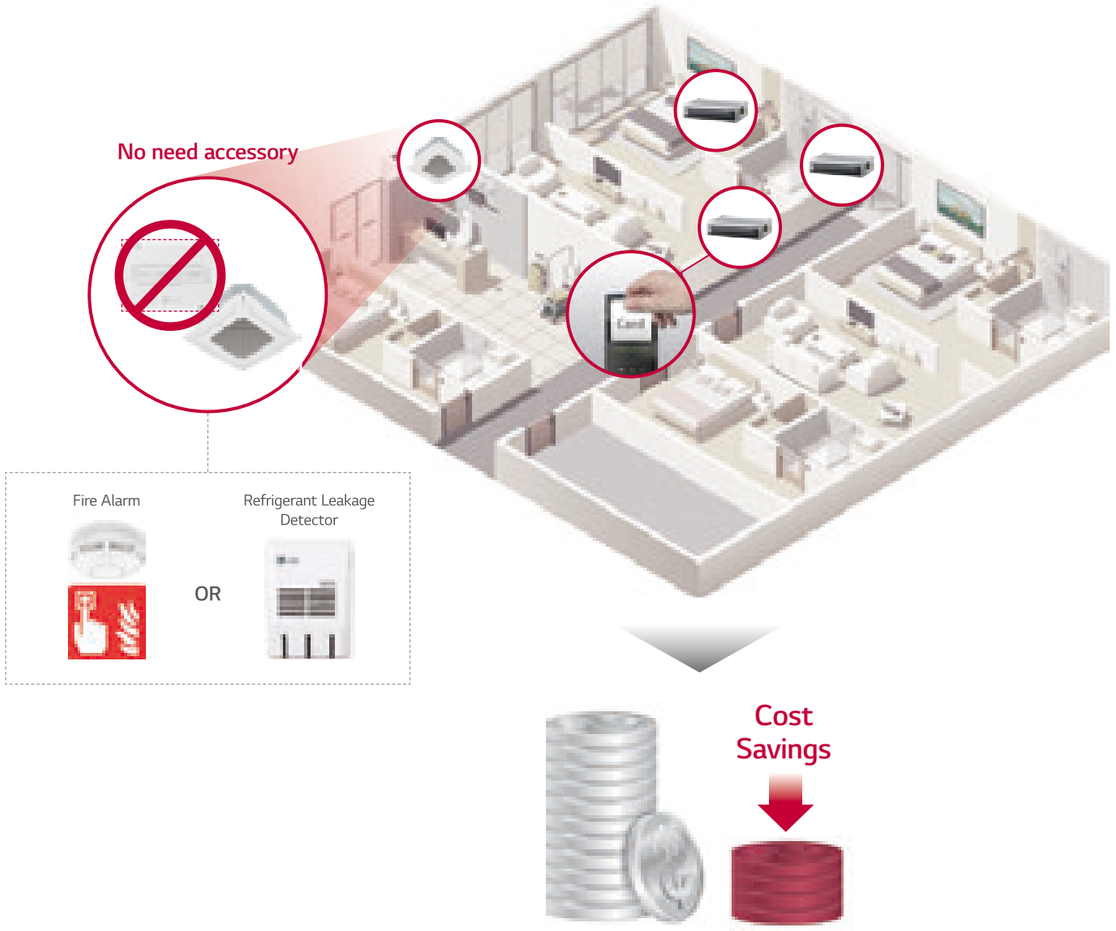
Advanced Air Conditioning Technology

ENERGY EFFICIENCY

1 Point External Input (On / Off Control)

Indoor units can control external devices without dry contact, so customer can save cost of installation.

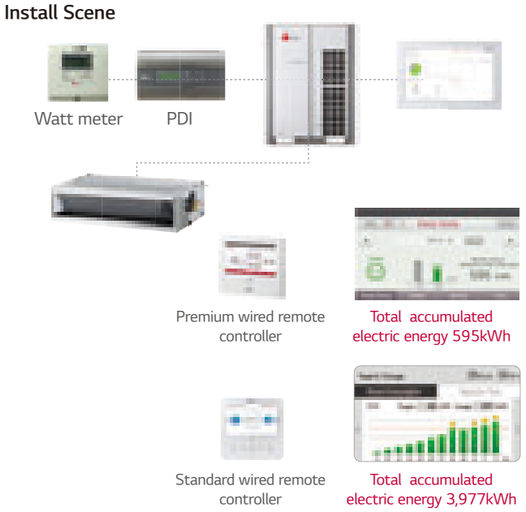
Connection between an indoor unit and external devices directly



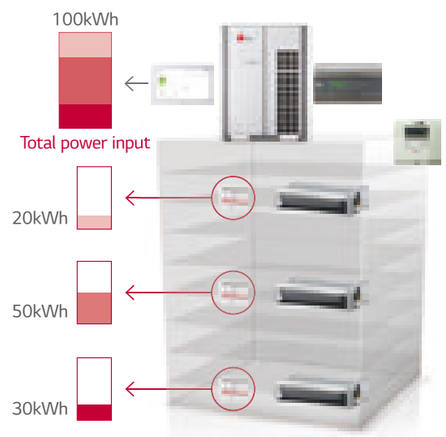
Energy Monitoring (Accumulated Electric Energy Check)

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.

Filter Sign (Remaining Time)

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

Remain time until indoor filter cleaning + alarm

Standard wired remote controller

Remain time until indoor filter cleaning 2,400hr.

Premium wired remote controller

Remain time until indoor filter cleaning 1,729hr.

WALL MOUNTED UNIT

Features & Benefits

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

Key Applications

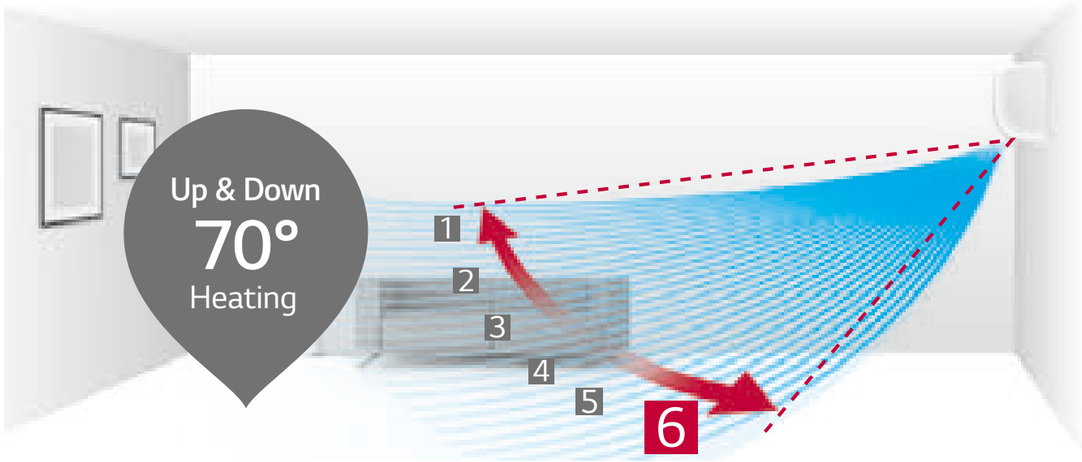
- Retail
- Restaurant
- Office
- Hotel
- Multi-family Residence

Wall Mounted Unit		Standard
Smart	Wi-Fi	△*
Fast Cooling & Heating	Jet Cool	○
	Auto Swing (Up & Down)	○
Health	Ionizer	-
	Pre Filter	○
	Auto Cleaning	○
Comfort	Sleep Mode	○
	Timer (On / Off)	○
	Timer (Weekly)	○
	Two Thermistor Control	○
	Group Control	○

※ ○: Applied, - : Not applied
* 30k, 36k model, Wi-Fi module is embedded

6-Step Vane, Control up to 70°

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



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

Jet Cool

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

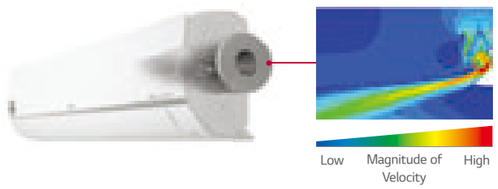
※ Specifications may vary for each model.
※ Depending on the experimental conditions.

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 airflow is increased to 13.0 CMM.



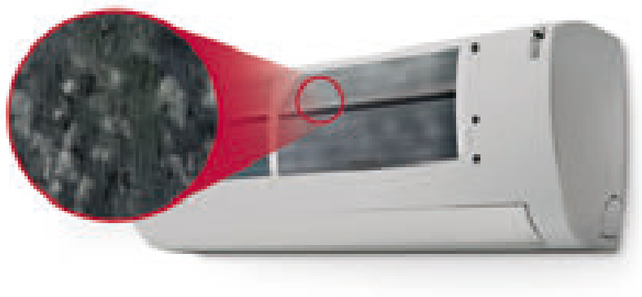
WALL MOUNTED UNIT

Auto Cleaning

The interior of the air conditioner is maintained clean by drying off the heat exchanger, then sterilizing the interior once more.

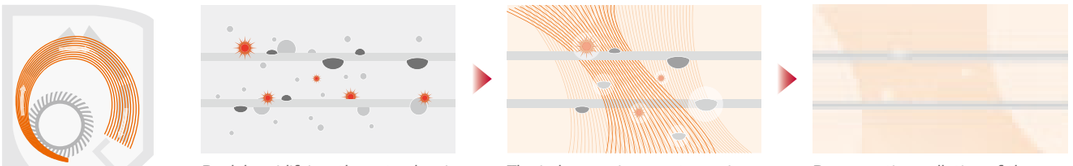
Pain Point

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, providing an enhancing environment.



By dehumidifying, the auto cleaning function eliminates substances that might be harmful.

The indoor environment remains odorless with the advanced deodorizing function.

By preventing polluting of the heat exchanger caused by various germs and bacteria, the performance and life span of the air conditioner do not wither away even after a period of 10 years.

Removes Harmful Particles

Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.

Bacteria Prevention

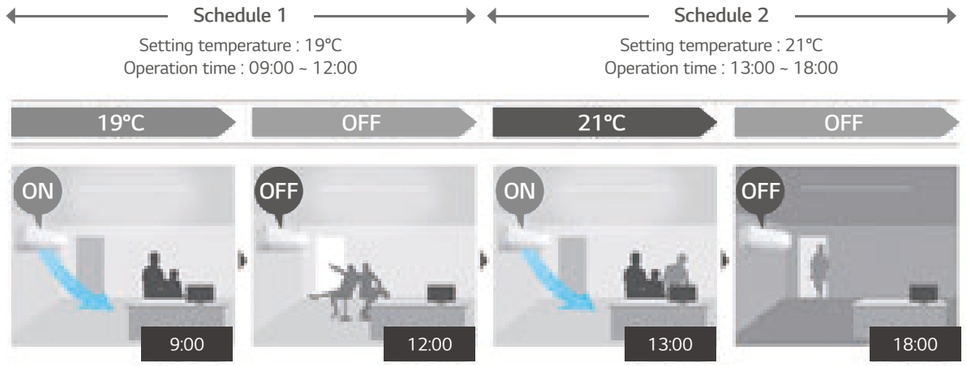
Odor Elimination

Mold Elimination

Scheduled Operation

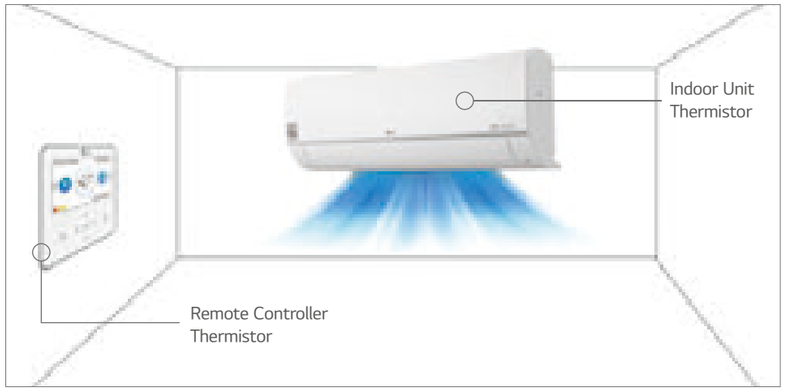
You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user or after setting period.

※ 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 optimize indoor air temperature for a more comfortable environment.



Group Control

In case of group control, user can control much more function than conventional.

Cooling / Heating Dehumidification Fan only operating setting temp.

Standard Operation
+
In case of Group Control

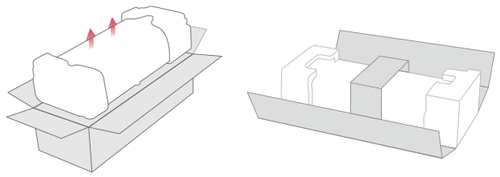
WALL MOUNTED UNIT

Quick & Easy Installation

LG air conditioner is designed for an easy and efficient installation, making possible to install several units in a short period of time.

※ Specifications may vary for each model.

One Simple Packing Box

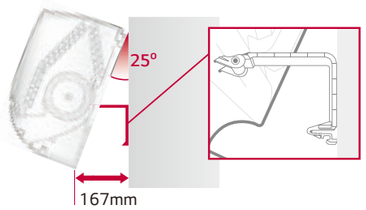


Installation Plate Improvement

LG's installation plate is larger and customized to reduce installation time.

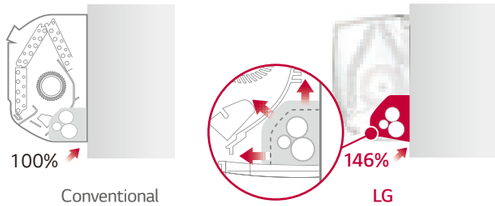
Installation Support Clip

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



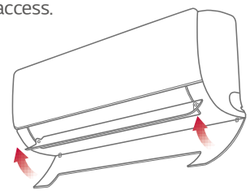
Wider Tubing Space

The space provided for tubing facilitates the whole installation process and hides the unorganized parts, making it appear clean and tidy.



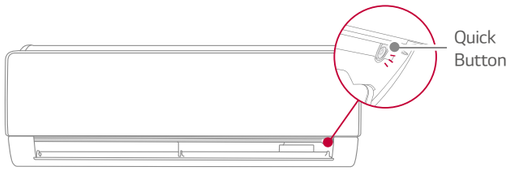
Detachable Bottom Cover

The air conditioner's bottom cover is detachable for easier Installation and access.



Quick Button for Running Test

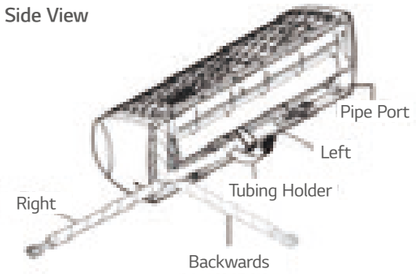
The test button is conveniently located and easy to find.



3 Way Flexible Installation

It is possible to install and connect the outdoor unit in 3 different ways (Left, Right, Back).

Back Side View



STANDARD

JRNU09GSJA4 / JRNU12GSJA4 / JRNU15GSJA4 / JRNU18GSKA4 / JRNU24GSKA4 / ARNU30GSVA4 / ARNU36GSVA4

Model		Unit	JRNU09GSJA4	JRNU12GSJA4	JRNU15GSJA4	JRNU18GSKA4	JRNU24GSKA4	ARNU30GSVA4	ARNU36GSVA4
Cooling Capacity		kW	2.8	3.6	4.5	5.6	7.1	8.8	10.4
		kcal/h	2,400	3,100	3,900	4 800	6,100	7,500	9,000
		Btu/h	9,600	12,300	15,400	19,100	24,200	30,000	35,500
Heating Capacity		kW	3.2	4.0	5.0	6.3	7.5	9.4	10.8
		kcal/h	2,800	3,400	4,300	5,400	6,400	8,100	9,300
		Btu/h	10,900	13,600	17,100	21,500	25,500	32,000	37,000
Dimensions (W x H x D)	Body (Net)	mm	837 x 302 x 189	837 x 302 x 189	837 x 302 x 189	998 x 330 x 210	998 x 330 x 210	1,190 x 346 x 265	1,190 x 346 x 265
	Body (Gross)	mm	892 x 381 x 246	892 x 381 x 246	892 x 381 x 246	1,063 x 420 x 271	1,063 x 420 x 271	1,238 x 419 x 314	1,238 x 419 x 314
Air Flow Rate (SH / H / M / L)		m³/min	9.5 / 8.2 / 7.0 / 6.5	12.5 / 9.5 / 8.2 / 6.5	12.5 / 10.5 / 9.0 / 7.0	15.2 / 14.0 / 12.0 / 10.5	18.0 / 15.2 / 12.7 / 10.5	25.1 / 23.0 / 20.0 / 17.0	28.5 / 26.0 / 23.0 / 19.0
		ft³/min	336 / 289 / 247 / 229	442 / 335 / 289 / 229	442 / 370 / 317 / 247	537 / 494 / 423 / 371	636 / 536 / 448 / 371	886 / 812 / 706 / 600	1,007 / 918 / 812 / 671
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe(Internal Dia.)	mm (inch)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)
Weight	Body (Net)	kg	8.6	8.6	8.6	12.4	12.4	16.6	16.6
	Body (Gross)	kg	11.5	11.5	11.5	15.5	15.5	21.2	21.2
Sound Pressure Levels (H / M / L)		dB(A)	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32	43 / 39 / 34	46 / 41 / 34	49 / 44 / 42	52 / 47 / 43
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	1, 220-240, 50
Color			White	White	White	White	White	White	White

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.
- Super High mode available for max 30 min. and will auto shift to previous mode for comfort operation.
- Due to continuous improvement above function may be subjected to change without any prior notice.

Accessories

Chassis	JRNU09GSJA4	JRNU12GSJA4	JRNU15GSJA4	JRNU18GSKA4	JRNU24GSKA4	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-						
Refrigerant Leakage Detector	PRLDNVS0						
Independent Power Module	PRIP0						
Pre Filter (Washable / Anti-fungus)	○						
Ventilation Kit	-						
IR Receiver	-						
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)						
External Input (1 Point)	○						
Wi-Fi	△*						

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
* 30k, 36k model, Wi-Fi module is embedded

ROUND CASSETTE

Features & Benefits

- Premium design to match your interior space.
- Pleasant airflow for optimal comfort.
- Improved and simple installation.

Key Applications

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

Air Purification Kit

Smart Indicator

Color display by Air quality

Step 4. Deodorization filter

High efficiency gas adsorption technology removes life odor & harmful gases

Step 3. PM1.0 filter

Removes up to 99% of fine particle to ultrafine particle (Able to remove PM 1.0)

Step 2. Dust Electrification 3)

Anion increases the electrostatic force of particle & this improves filter's collecting efficiency

Step 1. Pre-filter

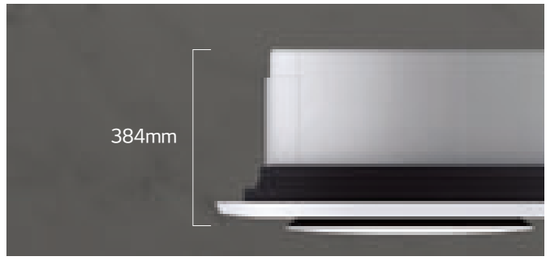
Multi layer structure removes particle 2.5 times higher efficiency than general pre-filters and particle is reduced by 40% ↑

※ Normally HEPA filter type must be replaced regularly. It means that it costs expensive for maintenance.

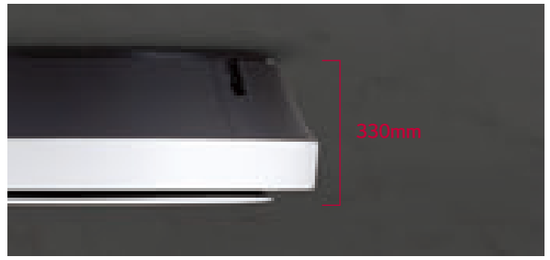
Slim and Compact design

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

Other Brand



LG Round Cassette



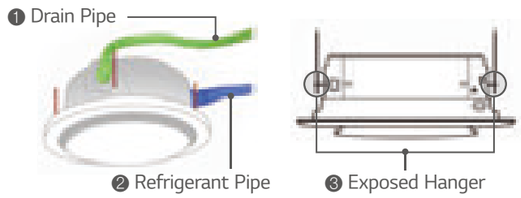
15% less body height makes room more higher

※ Product : 48 kBtu

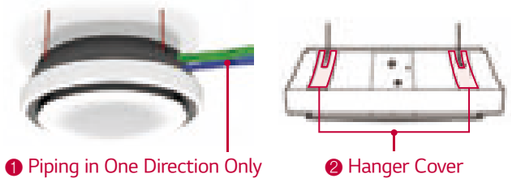
Minimal Exposure Design

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

Other Brand



LG Round Cassette



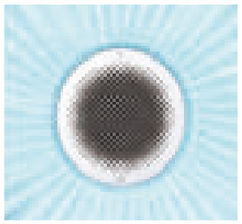
Perfect Round Air Flow

Perfect round flow without blind spots.

Other Brand

3 Way airflow with blind spot.

LG Round Cassette



Perfect circular airflow without blind spots.

ROUND CASSETTE

Visible Air Flow

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

Other Brand

Wind direction control 1 • • 2 • • 3

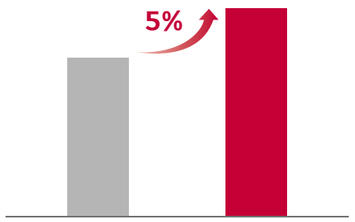
LG Round Cassette

Wind direction control 1 2 3 4 5 6

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% ↑

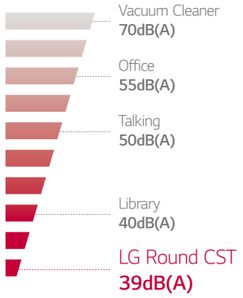


Previous (4 Way) **New** (Round)

Full 3D Fan, Low noise

Normal communication
Noise level 50dB(A)

Library
Noise level 40dB(A)

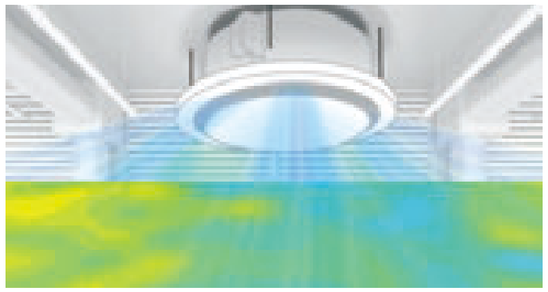


※ 48 kBtu, Low flow rate

30% Faster in Cooling

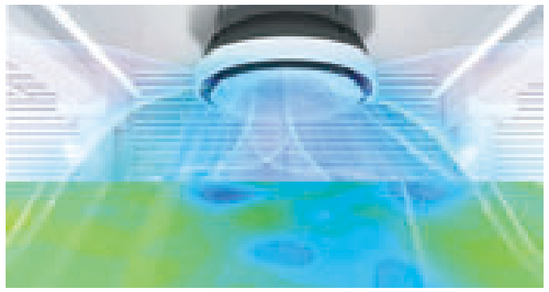
Larger airflow rate, cooling rate is faster than 30%.

Other Brand



Set temperature reach time 18 minutes (Height 1.1m)

LG Round Cassette

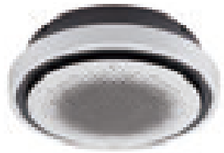


Set temperature reach time 12 minutes (Height 1.1m)

※ 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

ROUND CASSETTE

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



Model		Unit	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Cooling Capacity	Rated	kW	7.1	10.6	14.1
		Btu/h	24,200	36,200	48,100
Heating Capacity	Rated	kW	8.0	11.9	15.9
		Btu/h	27,300	40,600	54,200
Air Flow Rate (H / M / L)		m^3/min	22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
		ft^3/min	777 / 742 / 671	954 / 848 / 742	1,131 / 989 / 813
Dimensions (W x H x D)	Body (Net)	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050
	Body (Gross)	mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132	1,137 x 395 x 1,132
Exterior	Color (RAL Code)	-	White (9003)	White (9003)	White (9003)
Drain Pipe	O.D / I.D	mm (inch)	32 / 25	32 / 25	32 / 25
Piping Connection	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Weight	Body (Net)	kg	30.0	30.0	30.0
	Body (Gross)	kg	36.0	36.0	36.0
Sound Pressure Levels (H / M / L)		dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.
3. I.D : 'Internal Diameter'
4. LG Round cassette with black color panel is also available so LG Sales office can be contacted for further information.

Accessories

Chassis	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump	○		
Refrigerant Leakage Detector	PRLDNVS0		
Independent Power Module	PRIP0		
Pre Filter (Washable / Anti-fungus)	○		
Ventilation Kit	PTVK430		
IR Receiver	-		
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Air Purification Kit	NEW PTAHYP0		

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

CEILING MOUNTED CASSETTE

Features & Benefits

- Human detection control allowing energy savings through saving operation & comfort through wind direction operation.
- New multi-functional 4 Way cassette panel for large sizes with aesthetic shape.
- The independent vane operation feature allows user to control vanes by desired and perceptible comfort flow.

Key Applications

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

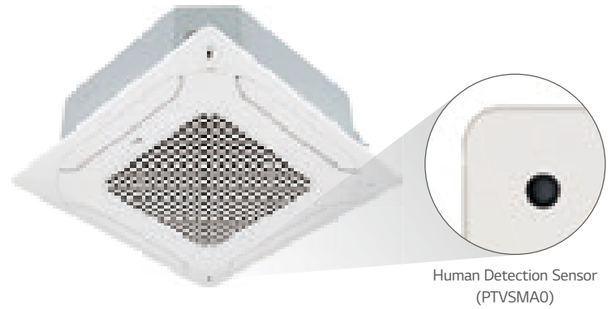
Cassette		4 Way (570 x 570)	4 Way (840 x 840)	2 Way	1 Way
Smart	Wi-Fi	○	○	○	○
Energy Efficiency	Human Detection	-	○	-	-
Health	Air Purification	-	○	-	○
	Auto Cleaning	-	-	○	-
Comfort	Drain Pump	○	○	○	○
	Sleep Mode	○	○	○	○
	Timer (On / Off)	○	○	○	○
	Timer (Weekly)	○	○	○	○
	Two Thermistor Control	○	○	○	○
	Group Control	○	○	○	○

※ ○ : Applied, - : Not applied

Human Detection Sensor

4 Way Cassette (840 x 840)

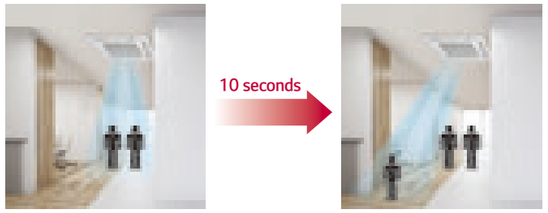
Panel Name (Accessory)
: PT-MCGW0 / PT-MPGW0
(For Human Detection)



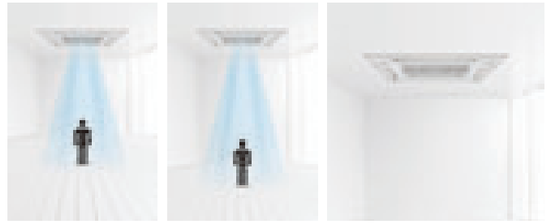
Apply human detect sensor
- Saving energy
- Supply comfortable flow
- Sensor is optional accessory only can be applied to PT-MCGW0, PT-MPGW0

Direction control based on human motion

Air flow direction is controlled automatically by motion sensor that detects the activity of people every 10 seconds.



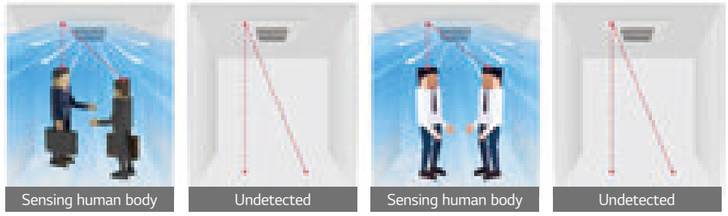
Detection range (~ Height 4.2m)

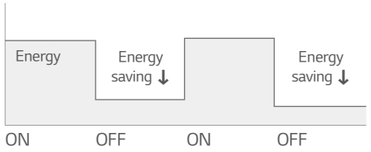


Height 2.7m (12 x 6m) | Height 3.2m (15 x 8m) | A sensor is installed 90˚rotation 12 x 6m → 6 x 12m detecting

On / Off mode

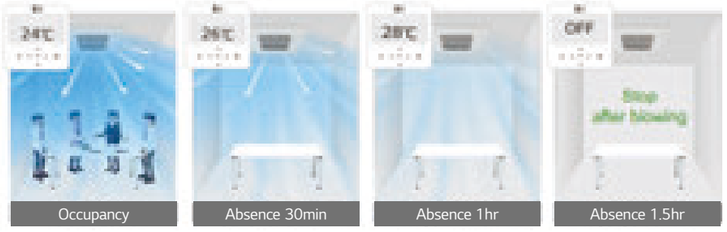
The indoor unit automatically stops when detecting absence. It runs again when sensing human body. (Judgement time : 5 ~ 90min)

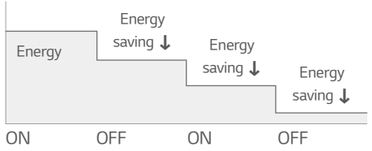




Temperature control mode

Energy savings by automatically setting target temperature during absence. (Judgement time : 5 ~ 90min)

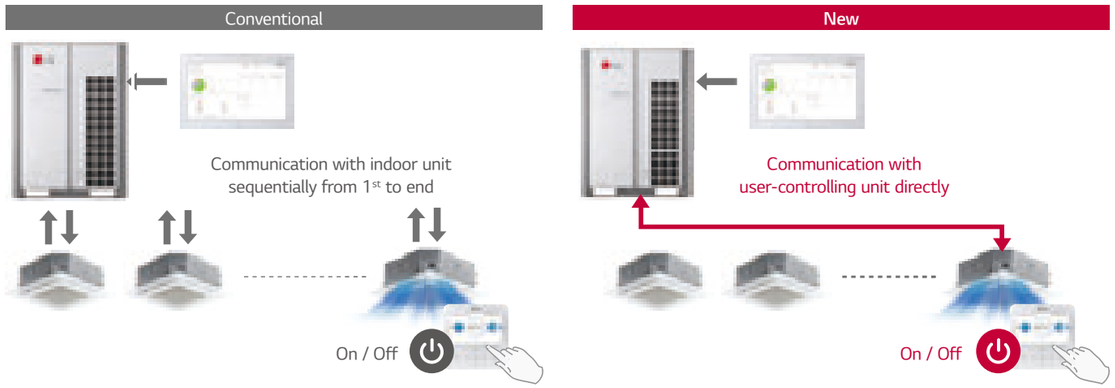


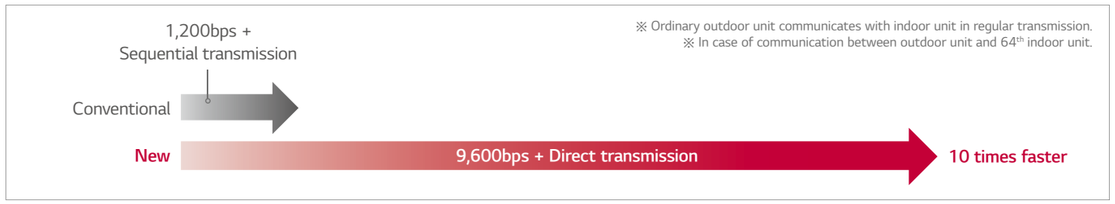


CEILING MOUNTED CASSETTE

Quick Control

4th Generation indoor unit offers rapid heating and cooling about 10 times faster than conventional through communication mode change and improved communication speed.

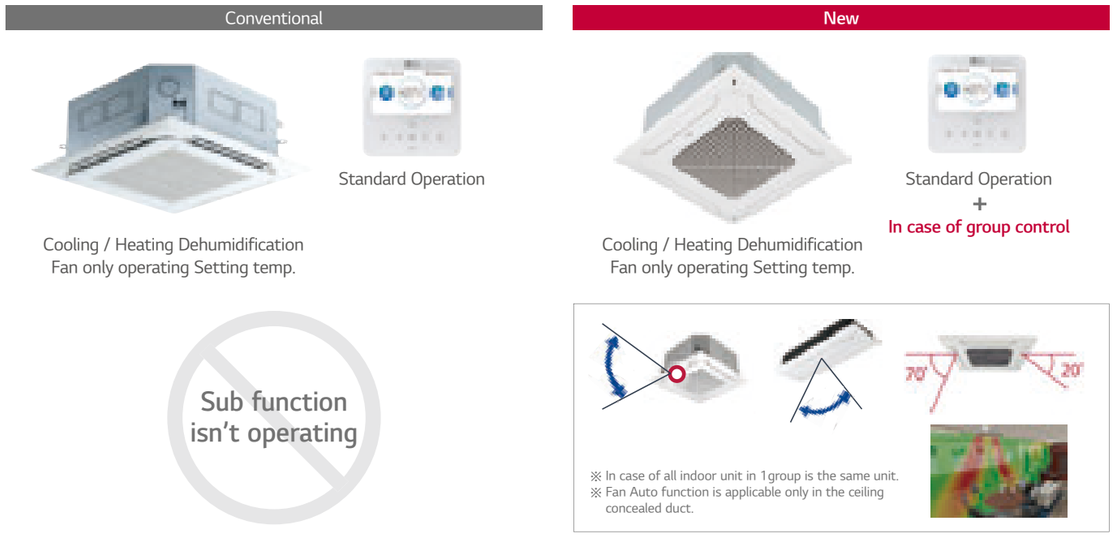




※ Ordinary outdoor unit communicates with indoor unit in regular transmission.
※ In case of communication between outdoor unit and 64th indoor unit.

Group Control

In case of group control, user can control much more function than conventional.

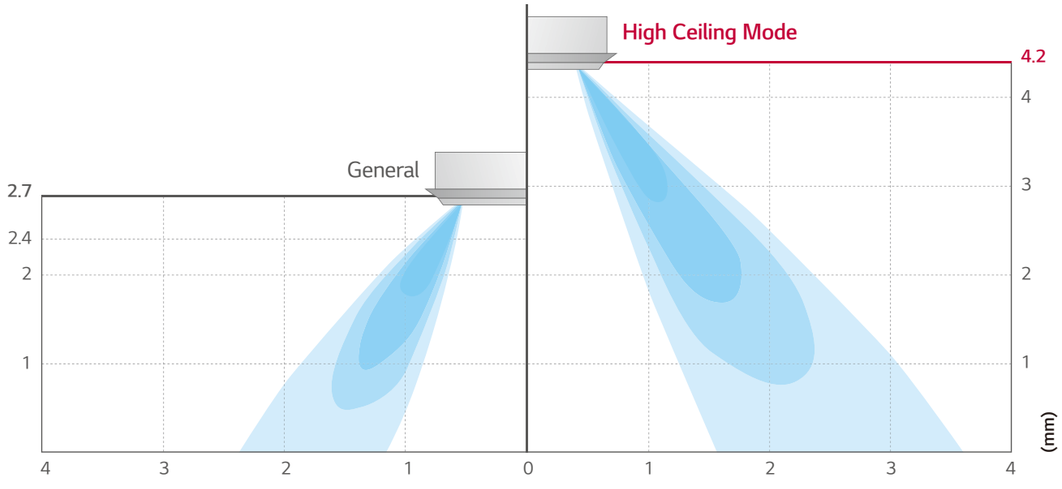


Independent Vane Control

The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.

High Ceiling Mode

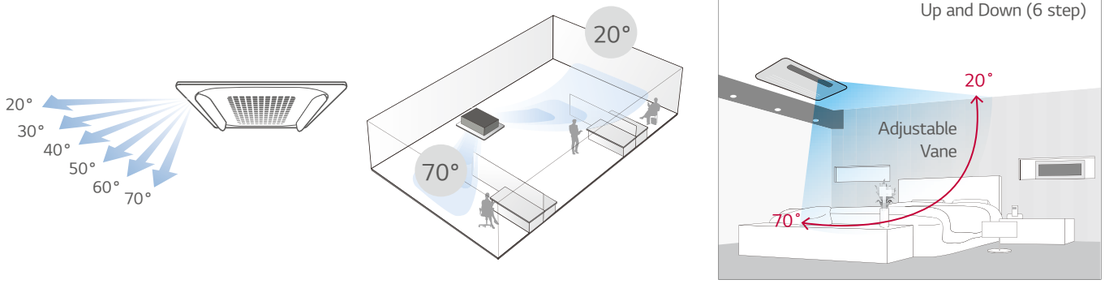
High ceiling mode provides powerful cooling and heating up to 4.2m in height, from ceiling to floor.



CEILING MOUNTED CASSETTE

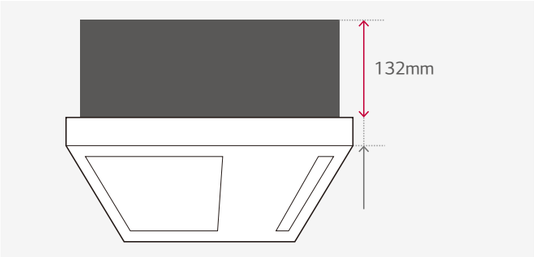
6-Step Vane Control

The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently. There are 6 different steps to control air flow direction. Also 1 Way cassette has a vane able to execute auto swing between left and right as 120 degree.



Minimized Height

LG 1 Way cassette isn't affected by installation environment. LG 1 Way cassette height is 132mm, so it can provide ideal solution for installation in limited space.



Size Comparison

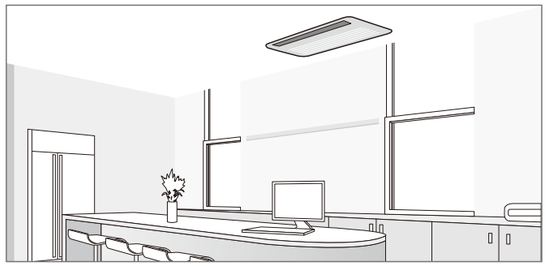
(Unit : mm)

	A company	B company	LG
1 Way cassette	215	230	132

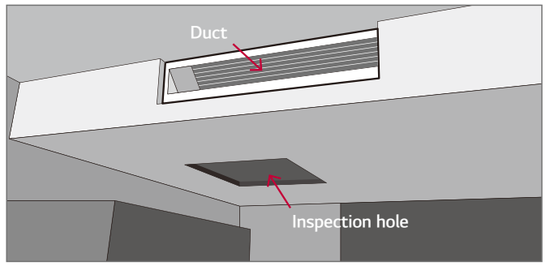
Flexible Installation

The inspection access hole doesn't require additional ducted space allowing for simple installation scene to be possible.

1 Way cassette

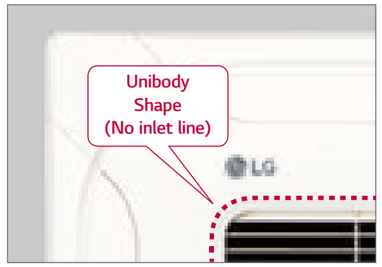


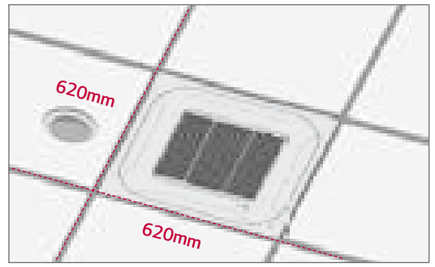
Duct



Compact and Stylish Design

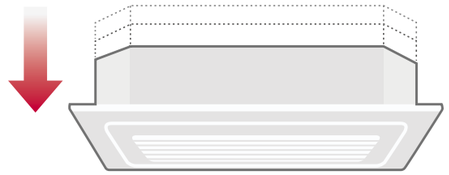
New 4 Way cassette panel adapted unibody shape and matching with into the ceiling, panel size is fit into the ceiling tile.





Compact Size

The indoor unit with slim and compact dimensions has reduced the restriction which enables successful installation in various spaces.



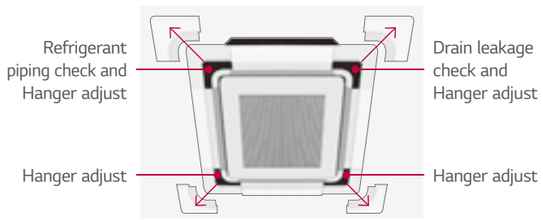
Capacity	Height
7.1 ~ 9.0kW	204mm
10.6kW	246mm
12.3 ~ 15.8kW	288mm

※ Length width : 840 x 840mm

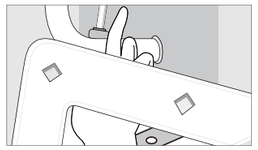
Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

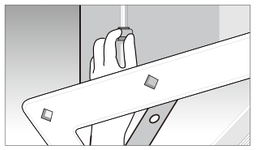
Detachable Corner Design



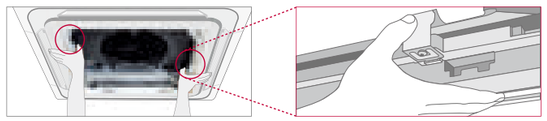
Drain leakage check



Hanger adjust

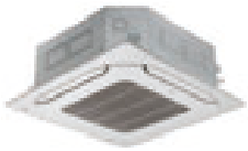


It is easy to install the panel to the body, using the button type panel design.



4 Way CASSETTE (570 X 570)

ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4



Model		Unit	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capacity		kW	1.6	2.2	2.8	3.6
		kcal/h	1,400	1,900	2,400	3,100
		Btu/h	5,500	7,500	9,600	12,300
Heating Capacity		kW	1.8	2.5	3.2	4.0
		kcal/h	1,500	2,200	2,800	3,400
		Btu/h	6,100	8,500	10,900	13,600
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
	Body (Gross)	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646
Air Flow Rate (SH / H / M / L)		m³/min	7.8 / 7.5 / 7.0 / 6.6	7.8 / 7.5 / 7.0 / 6.6	8.6 / 8.0 / 7.5 / 7.1	9.3 / 8.7 / 8.0 / 7.0
		ft³/min	275 / 265 / 247 / 212	275 / 265 / 247 / 212	303 / 283 / 265 / 251	327 / 307 / 283 / 247
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	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)	12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	12.6	12.6	13.7	13.7
	Body (Gross)	kg	15.3	15.3	16.4	16.4
Sound Pressure Levels (SH / H / M / L)		dB(A)	30 / 29 / 27 / 26	30 / 29 / 27 / 26	32 / 30 / 29 / 27	34 / 32 / 30 / 27
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)		#1 : PT-UQC, #2 : PT-QCHW0			
	Panel Color		Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions Panel #1 (W x H x D)	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Dimensions Panel #2 (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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model

PT-UQC

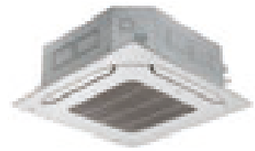
NEW PT-QCHW0

Accessories

Chassis	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump	○			
Refrigerant Leakage Detector	PRLDNVS0			
Independent Power Module	PRIP0			
Pre Filter (Washable / Anti-fungus)	○			
Air Purification Kit	-			
Human Detection Kit	-			
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 Point)	○			
Wi-Fi	PWFMDD200			

※ ○ : 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
		kcal/h	3,900	4,800	5,100
		Btu/h	15,400	19,100	20,500
Heating Capacity		kW	5.0	6.3	6.8
		kcal/h	4,300	5,400	5,800
		Btu/h	17,100	21,500	23,200
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Body (Gross)	mm	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Air Flow Rate (SH / H / M / L)		m³/min	12.8 / 11.0 / 10.0 / 9.3	12.7 / 11.2 / 11.0 / 10.0	13.9 / 12.0 / 11.1 / 9.4
		ft³/min	453 / 388 / 353 / 328	447 / 396 / 388 / 353	490 / 424 / 392 / 332
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	15.0	15.0	15.0
	Body (Gross)	kg	17.9	17.9	17.9
Sound Pressure Levels (SH / H / M / L)		dB(A)	40 / 36 / 34 / 32	39 / 37 / 35 / 34	44 / 40 / 38 / 34
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)		#1 : PT-UQC, #2 : PT-QCHW0		
	Panel Color		Morning fog	Morning fog	Morning fog
	Dimensions Panel #1 (W x H x D)	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Dimensions Panel #2 (W x H x D)	mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model

PT-UQC

NEW PT-QCHW0

Accessories

Chassis	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump	○		
Refrigerant Leakage Detector	PRLDNVS0		
Independent Power Module	PRIP0		
Pre Filter (Washable / Anti-fungus)	○		
Air Purification Kit	-		
Human Detection Kit	-		
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		

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

4 Way CASSETTE (840 X 840)

JRNU09GTPA4 / JRNU12GTPA4 / JRNU15GTPA4 / JRNU18GTPA4 / JRNU24GTPA4

Model		Unit	JRNU09GTPA4	JRNU12GTPA4	JRNU15GTPA4	JRNU18GTPA4	JRNU24GTPA4
Cooling Capacity		kW	2.8	3.6	4.5	5.6	7.1
		kcal/h	2,400	3,100	3,900	4,800	6,100
		Btu/h	9,600	12,300	15,400	19,100	24,200
Heating Capacity		kW	3.2	4.0	5.0	6.3	8.0
		kcal/h	2,800	3,400	4,300	5,400	6,900
		Btu/h	10,900	13,600	17,100	21,500	27,300
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Body (Gross)	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
Air Flow Rate (SH / H / M / L)		m^3/min	13 / 12 / 11 / 10	14 / 13 / 12 / 11	17 / 15 / 14 / 12	18 / 16 / 15 / 13	21 / 17 / 15 / 13
		ft^3/min	459 / 424 / 388 / 353	494 / 459 / 424 / 388	600 / 530 / 494 / 424	636 / 565 / 530 / 459	742 / 600 / 530 / 459
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25	25	25	25	25 (1)
Weight	Body (Net)	kg	20.8	20.8	20.8	20.8	20.8
	Body (Gross)	kg	23.7	23.7	23.7	23.7	23.7
Sound Pressure Levels (SH / H / M / L)		dB(A)	31 / 29 / 27 / 25	33 / 31 / 29 / 27	36 / 34 / 33 / 29	36 / 35 / 34 / 31	39 / 36 / 34 / 31
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
Panel	Panel Name (Accessory)		#1 : PT-UMC2, #2 : PT-MCGW0 (Human detection), #3 : PT-MPGW0 (Human detection, Air Purification)				
	Panel Color		Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions Panel #1 (W x H x D)	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Dimensions Panel #2 & 3 (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	950 x 35 x 950

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model

PT-UMC2

NEW PT-MCGW0
(For Human detection)

NEW PT-MPGW0
(For Human detection,
For Air Purification)

※ Human detection and Air purification kit need to be purchased additionally.

Accessories

Chassis	JRNU09GTPA4	JRNU12GTPA4	JRNU15GTPA4	JRNU18GTPA4	JRNU24GTPA4
Drain Pump	○				
Refrigerant Leakage Detector	PRLDNVS0				
Independent Power Module	PRIP0				
Pre Filter (Washable / Anti-fungus)	○				
Air Purification Kit	NEW PTAHMP0				
Human Detection Kit	NEW PTVSMA0				
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 Point)	○				
Wi-Fi	PWFMDD200				

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

JRNU30GTPA4 / JRNU36GTNA4 / JRNU42GTMA4 / JRNU48GTMA4 / JRNU54GTMA4

Model		Unit	JRNU30GTPA4	JRNU36GTNA4	JRNU42GTMA4	JRNU48GTMA4	JRNU54GTMA4
Cooling Capacity		kW	9.0	10.6	12.3	14.1	15.8
		kcal/h	7,700	9,100	10,600	12,100	13,600
		Btu/h	30,700	36,200	42,000	48,100	54,000
Heating Capacity		kW	10.0	11.9	13.8	15.9	18.0
		kcal/h	8,600	10,200	11,000	13,200	15,500
		Btu/h	34,100	40,600	43,800	51,200	61,400
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Body (Gross)	mm	922 x 276 x 917	922 x 318 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Air Flow Rate (SH / H / M / L)		m^3/min	25 / 24 / 23 / 20	30 / 25 / 21 / 19	32 / 30 / 27 / 24	33 / 31 / 29 / 27	36 / 34 / 32 / 27
		ft^3/min	883 / 858 / 805 / 688	1,059 / 883 / 742 / 671	1,130 / 1,059 / 954 / 848	1,165 / 1,095 / 1,024 / 954	1,271 / 1,201 / 1,130 / 954
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	20.8	23.5	25.6	25.6	25.6
	Body (Gross)	kg	23.7	27.3	30.1	30.1	30.1
Sound Pressure Levels (SH / H / M / L)		dB(A)	40 / 40 / 36 / 33	46 / 43 / 40 / 37	46 / 44 / 41 / 38	48 / 46 / 43 / 41	51 / 50 / 48 / 44
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
Panel	Panel Name (Accessory)		#1 : PT-UMC2, #2 : PT-MCGW0 (Human detection), #3 : PT-MPGW0 (Human detection, Air Purification)				
	Panel Color		Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions Panel #1 (W x H x D)	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Dimensions Panel #2 & 3 (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	950 x 35 x 950

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model

PT-UMC2

NEW PT-MCGW0
(For Human detection)

NEW PT-MPGW0
(For Human detection,
For Air Purification)

※ Human detection and Air purification kit need to be purchased additionally.

Accessories

Chassis	JRNU30GTPA4	JRNU36GTNA4	JRNU42GTMA4	JRNU48GTMA4	JRNU54GTMA4
Drain Pump	○				
Refrigerant Leakage Detector	PRLDNVS0				
Independent Power Module	PRIP0				
Pre Filter (Washable / Anti-fungus)	○				
Air Purification Kit	NEW PTAHMP0				
Human Detection Kit	NEW PTVSMA0				
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 Point)	○				
Wi-Fi	PWFMDD200				

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

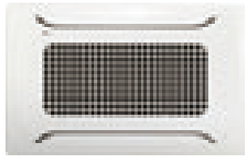
2 Way CASSETTE

ARNU09GTSA4 / ARNU12GTSA4 / ARNU18GTSA4 / ARNU24GTSA4

Model		Unit	ARNU09GTSA4	ARNU12GTSA4	ARNU18GTSA4	ARNU24GTSA4
Cooling Capacity		kW	2.8	3.6	5.6	7.1
		kcal/h	2,400	3,100	4,800	6,100
		Btu/h	9,600	12,300	19,100	24,200
Heating Capacity		kW	3.2	4.0	6.3	8.0
		kcal/h	2,800	3,400	5,400	6,900
		Btu/h	10,900	13,600	21,500	27,300
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600
	Body (Gross)	mm	1,055 x 290 x 682	1,055 x 290 x 682	1,055 x 290 x 682	1,055 x 290 x 682
Air Flow Rate (SH / H / M / L)		m³/min	11.6 / 10.8 / 9.8 / 9.1	11.9 / 11.1 / 10.3 / 9.1	13.2 / 11.8 / 10.8 / 9.8	17.2 / 14.5 / 12.4 / 10.3
		ft³/min	410 / 381 / 346 / 321	420 / 392 / 364 / 321	465 / 417 / 381 / 346	608 / 512 / 438 / 364
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	18.1	18.1	18.1	18.1
	Body (Gross)	kg	22.5	22.5	22.5	22.5
Sound Pressure Levels (SH / H / M / L)		dB(A)	35 / 33 / 31 / 29	36 / 34 / 32 / 29	37 / 35 / 33 / 31	44 / 40 / 37 / 33
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)		PT-USC			
	Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model



PT-USC

Accessories

Chassis	ARNU09GTSA4	ARNU12GTSA4	ARNU18GTSA4	ARNU24GTSA4
Drain Pump	○			
Refrigerant Leakage Detector	PRLDNVS0			
Independent Power Module	PRIP0			
Pre Filter (Washable / Anti-fungus)	○			
Air Purification Kit	-			
Human Detection Kit	-			
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 Point)	○			
Wi-Fi	PWFMDD200			

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

1 Way CASSETTE

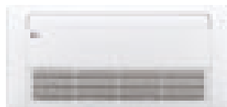
ARNU07GTUB4 / ARNU09GTUB4 / ARNU12GTUB4 / ARNU18GTTB4 / ARNU24GTTB4

Model		Unit	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Cooling Capacity		kW	2.2	2.8	3.6	5.6	7.1
		kcal/h	1,900	2,400	3,100	4,800	6,100
		Btu/h	7,500	9,600	12,300	19,100	24,200
Heating Capacity		kW	2.5	3.2	4.0	6.3	7.1
		kcal/h	2,200	2,800	3,400	5,400	6,100
		Btu/h	8,500	10,900	13,600	21,500	24,200
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
	Body (Gross)	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	1,449 x 259 x 538	1,449 x 259 x 538
Air Flow Rate (SH / H / M / L)		m³/min	8.7 / 8.2 / 7.3 / 6.4	10.2 / 9.2 / 8.6 / 8.2	10.9 / 10.0 / 9.2 / 8.2	14.2 / 13.3 / 12.1 / 10.9	15.4 / 14.6 / 13.3 / 11.5
		ft³/min	305 / 290 / 258 / 226	359 / 325 / 304 / 290	386 / 353 / 325 / 290	500 / 470 / 427 / 385	545 / 516 / 470 / 406
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	13.6	13.6	13.6	15.6	15.6
	Body (Gross)	kg	15.7	15.7	15.7	19.7	19.7
Sound Pressure Levels (SH / H / M / L)		dB(A)	34 / 32 / 29 / 25	38 / 35 / 34 / 32	41 / 38 / 35 / 32	42 / 40 / 37 / 35	45 / 43 / 40 / 36
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)		#1 : PT-UAHW0, #2 : PT-UPHG0 (Air Purification)			#1 : PT-TAHW0, #2 : PT-TPHG0 (Air Purification)	
	Dimensions Panel #1 (W x H x D)	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500	1,420 x 34 x 500	1,420 x 34 x 500
	Dimensions Panel #2 (W x H x D)	mm	1,160 x 34 x 500	1,160 x 34 x 500	1,160 x 34 x 500	1,480 x 34 x 500	1,480 x 34 x 500

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Panel Model

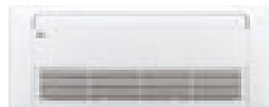
For ARNU - GTUB4 (860 x 450)



NEW PT-UAHW0

NEW PT-UAHG0
(Glossy, For Air Purification)

For ARNU - GTTB4 (1,180 x 450)



NEW PT-TAHW0

NEW PT-TAHG0
(Glossy, For Air Purification)

Accessories

Chassis	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Drain Pump	○				
Refrigerant Leakage Detector	PRLDNVS0				
Independent Power Module	PRIP0				
Pre Filter (Washable / Anti-fungus)	○				
Air Purification Kit	NEW PTAHTP0				
Human Detection Kit	-				
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 Point)	○				
Wi-Fi	PWFMDD200				

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

CEILING CONCEALED DUCT

Features & Benefits

• E.S.P. control function can make air volume controlled easily with remote controller.

Key Applications

• Hotel / Conference Center
• Retail / Shopping Center
• School
• Office
• Restaurant
• Church
• Historic Building

Duct		High	Low
Smart	Wi-Fi	○	○
Energy Efficiency	E.S.P. Control	○	○
Comfort	Drain Pump	○	○
	Timer (On / Off)	○	○
	Timer (Weekly)	○	○
	Two Thermistor Control	○	○
	Group Control	○	○

※ ○ : Applied, - : Not applied

Auto E.S.P.

The product can control airflow volume by automatically sensing the discordance between the airflow volume and the external static pressure.

※ A wired remote controller is required.
※ Applied to the 24k to 48k models of Ceiling Concealed Duct.

Comfort Cooling & Heating

Installers can easily set the airflow rate of the duct system thanks to the auto E.S.P. setting, so end users can be in a comfort environment with the appropriate airflow rate.

Conventional E.S.P Setting

Product Installation
↓
Manual ESP setting
↓
Test Operation
↓
Measure Air Volume
↓
Proper air volume
Finish
Not proper

▼ Not performed

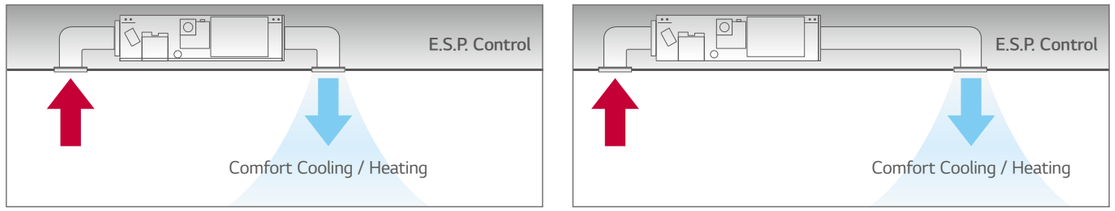
Auto E.S.P. Setting

▼ Automatically

CEILING CONCEALED DUCT

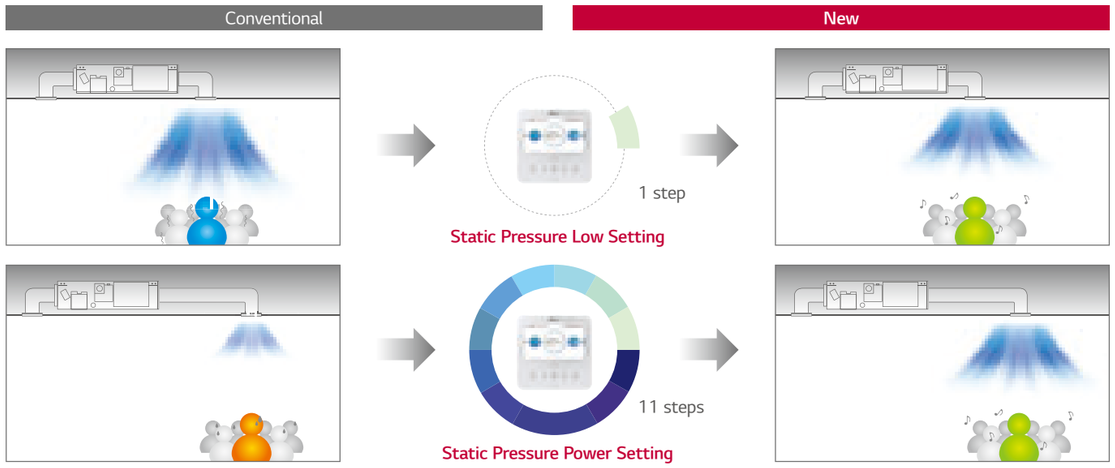
E.S.P.(External Static Pressure) Control

User has an easy access to air volume selection via remote controller secured by the E.S.P. control function. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



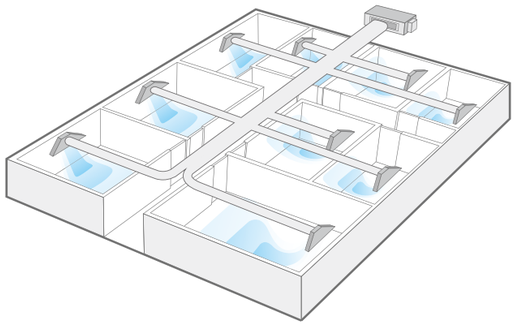
Static Pressure 11 Steps Control

Depending on the installation environment, 4 series ceiling concealed duct is controlled the static pressure to 11 step, for providing comfortable environment suitable for any case scenario.



Operation for Multiple Rooms

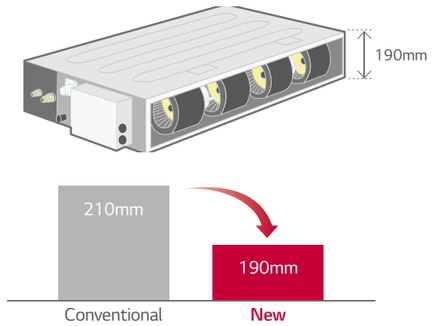
Using a spiral duct (Embedded or Flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



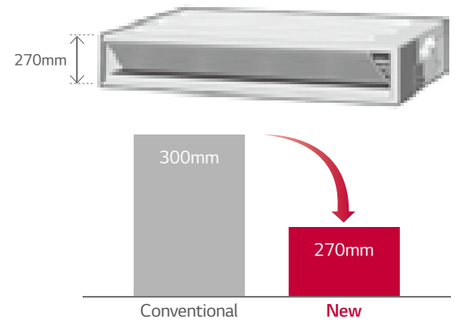
Minimized Height

New low-static and high-static ducts provide ideal solution for installation in limited space.

LOW STATIC

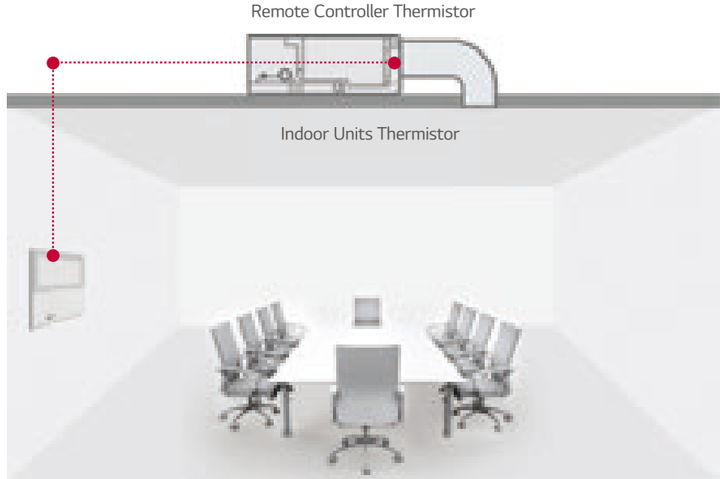


HIGH STATIC



Two Thermistors Control

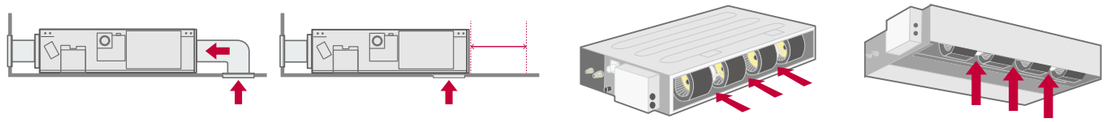
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimize indoor air temperature for a more comfortable environment.



Flexible Installation (Low Static Duct Only)

The low static duct allows the air intake at the rear or bottom under installation condition.

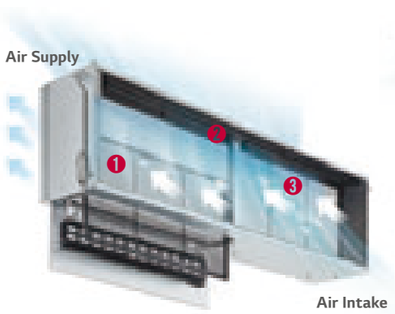
Air intake at the rear or bottom



CEILING CONCEALED DUCT

Air Purification Operation

LG Duct UVnano Filter Box can effectively create a safe indoor environment by trapping and removing various harmful substances such as fine dust, bacteria and viruses in the form of droplets.



Pre-Filter
- Trap large particles
  - Fine dust
  - Bacteria
  - Viruses in the form of droplets

UVnano
- Sterilize bacteria and viruses parasitized on bacteria up to 99.99%[1] by irradiating ultraviolet rays

MERV 13 Filter
- Trap particles as small as 0.3μm in size[2]
  - 0.3μm~1.0μm : 50% ↑
  - 1.0μm~3.0μm : 85% ↑
  - 3.0μm~10.0μm : 90% ↑

1) Based on TUV Rheinland test conducted according to LG test method in compliance with ISO 20743, removing 99.99 of percent of Staphylococcus aureus, Staphylococcus epidermidis, and Klebsiella pneumoniae after being exposed to UV LED lights for 4 hours
2) Based on KCL (Korea Conformity Laboratories) test conducted in compliance with ASHRAE 52.2

LG Duct UVnano Filter Box has been designed to facilitate maintenance.

Easy Filter Management

Pre-Filter
- Reusable after washing with water
- Replacement recommended after washing 2~3 times

** Using the warm water and the neutral detergent

UVnano
- Semi-Permanently without replacement

MERV 13 Filter
- Replacement recommended within 3~6 months of use
- Possible to check the accumulated usage time of MERV 13 Filter through Standard III wired remote controller

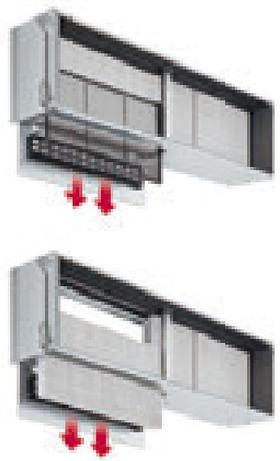
** When replacing MERV 13 Filter, additionally checking the status of Pre-Filter is recommended
** Standard III wired remote controller should be installed to check the accumulated usage time of MERV 13 Filter [If Standard III wired remote controller is not installed, the accumulated usage time of MERV 13 Filter can not be checked]

Convenient Filter Replacement

Possible to replace filters through access with 2 directions (Side direction / Bottom direction)

Side Access

Bottom Access



UV NANO FILTER BOX

PBM13M1UA0

Model		Unit	PBM13M1UA0
Applied Model			ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4 / ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4
Net Size (W x H x D)		mm	900 x 270 x 280
Shipping Size (W x H x D)		mm	1,048 x 340 x 377
Net Weight		kg	9.1
Shipping Weight		kg	11.4
Filter (1)	Size (W x H x D)	mm	600 x 251 x 50.8
	Quantity	EA	1
	Grade 1	-	ePM1 65%
	Grade 2	-	MERV 13
Filter (2)	Size (W x H x D)	mm	250 x 251 x 50.8
	Quantity	EA	1
	Grade 1	-	ePM1 65%
	Grade 2	-	MERV 13
Pre-Filter (1)	Size (W x H x D)	mm	596 x 247 x 4
	Mesh	-	34 x 39
	Color	-	Black
	Quantity	EA	1
Pre-Filter (2)	Size (W x H x D)	mm	247 x 247 x 4
	Mesh	-	34 x 39
	Color	-	Black
	Quantity	EA	1
UVnano	LED Quantity	EA	8
	Input	V	DC 12V
	Wavelenght	mm	275

Note : 1. Grade 1 : ISO EN 16890
2. Grade 2 : ASHRAE 52.5

HIGH STATIC

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
		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
	Body (Gross)	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
Fan	Air Flow Rate (H / M / L) (Factory set)	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
		ft³/min	318 / 265 / 212	336 / 265 / 212	388 / 318 / 247	565 / 424 / 318	600 / 512 / 424	671 / 565 / 494
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	25.5	25.5	25.5	25.5	25.5	26.5
	Body (Gross)	kg	31	31	31	31	31	31
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
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Accessories

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump	○					
Refrigerant Leakage Detector	PRLDNVS0					
Independent Power Module	PRIP0					
Pre Filter (Washable / Anti-fungus)	○					
Ventilation Kit	-					
IR Receiver	PWLRVN000					
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)					
External Input (1 Point)	○					
Wi-Fi	PWFMDD200					
UV Nano Filter Box (Air Purification)	NEW PBM13M1UA0					

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

HIGH STATIC

JRNU28GBGA4 / JRNU36GBGA4 / JRNU42GBGA4 / JRNU48GBGA4
JRNU54GBRA4 / JRNU76GB8A4 / JRNU96GB8A4

Model		Unit	JRNU28GBGA4	JRNU36GBGA4	JRNU42GBGA4	JRNU48GBGA4	JRNU54GBRA4	JRNU76GB8A4	JRNU96GB8A4
Cooling Capacity		kW	8.2	10.6	12.3	14.1	15.8	22.4	28.0
		kcal/h	7,100	9,100	10,600	12,100	13,600	19,300	24,100
		Btu/h	28,000	36,200	42,000	48,100	54,000	76,400	95,900
Heating Capacity		kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5
		kcal/h	8,000	10,200	11,000	13,600	15,500	21,700	27,100
		Btu/h	31,500	40,600	43,800	54,200	61,400	86,000	107,500
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
	Body (Gross)	mm	1,415 x 360 x 565	1,415 x 360 x 565	1,415 x 360 x 565	1,415 x 360 x 565	1,420 x 460 x 695	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Air Flow Rate (H / M / L) (High Mode-factory set) External Static Pressure	m³/min	25.9 / 24.1 / 21.8	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	34.6 / 31.8 / 27.9	51.0 / 44.8 / 40.6	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
		ft³/min	915 / 851 / 770	1,141 / 1,024 / 894	1,218 / 1,141 / 1,084	1,222 / 1,123 / 986	1,801 / 1,582 / 1,434	2,119 / 1,766 / 1,766	2,542 / 2,260 / 2,260
		mmAq (Pa)	10 (98)	10 (98)	10 (98)	10 (98)	14 (137)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode) External Static Pressure	m³/min	25.3 / 21.8 / 17.6	28.4 / 25.3 / 21.8	32.0 / 28.4 / 27.2	33.9 / 28.7 / 26.3	51.5 / 47.5 / 39.5	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
		ft³/min	893 / 770 / 622	1,003 / 894 / 770	1,130 / 1,003 / 961	1,198 / 1,014 / 929	1,819 / 1,678 / 1,395	2,260 / 1,766 /1,766	2,684 / 2,260 / 2,260
		mmAq (Pa)	8 (78)	8 (78)	8 (78)	8 (78)	10 (98)	15 (147)	15 (147)
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	38	38	38	38	53	87	87
	Body (Gross)	kg	42.5	42.5	42.5	42.5	57	100	100
Sound Pressure Levels (H / M / L)		dB(A)	33 / 31 / 28	33 / 31 / 28	36 / 33 / 30	41 / 38 / 37	39 / 37 / 35	45 / 41 / 40	47 / 42 / 41
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	1, 220-240, 50

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Accessories

Chassis	JRNU28GBGA4	JRNU36GBGA4	JRNU42GBGA4	JRNU48GBGA4	JRNU54GBRA4	JRNU76GB8A4	JRNU96GB8A4
Drain Pump	○						
Refrigerant Leakage Detector	PRLDNVS0						
Independent Power Module	PRIP0						
Pre Filter (Washable / Anti-fungus)	○						
Ventilation Kit	-						
IR Receiver	PWLRVN000						
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)						
External Input (1 Point)	○						
Wi-Fi	PWFMDD200						

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

LOW STATIC

JRNU09GL5G4 / JRNU12GL5G4 / JRNU15GL5G4 / JRNU18GL5G4 / JRNU24GL6G4

Model		Unit	JRNU09GL5G4	JRNU12GL5G4	JRNU15GL5G4	JRNU18GL5G4	JRNU24GL6G4
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1
		kcal/h	2,400	3,100	3,900	4,800	6,100
		Btu/h	9,600	12,300	15,400	19,100	24,200
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0
		kcal/h	2,800	3,400	4,300	5,400	6,900
		Btu/h	10,900	13,600	17,100	21,500	27,300
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	900 x 190 x 460	900 x 190 x 460	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
	Body (Gross)	mm	1,125 x 255 x 561	1,125 x 255 x 561	1,125 x 255 x 561	1,125 x 255 x 561	1,325 x 255 x 561
	Air Flow Rate (H / M / L) (High Mode-Factory set) External Static Pressure	m³/min	8.5 / 8.0 / 7.0	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
		ft³/min	300 / 283 / 247	360 / 310 / 250	450 / 360 / 300	530 / 450 / 360	710 / 570 / 430
		mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode) External Static Pressure	m³/min	8.5 / 8.0 / 7.0	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
		ft³/min	300 / 283 / 247	360 / 310 / 250	450 / 360 / 300	530 / 450 / 360	710 / 570 / 430
		mmAq (Pa)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm	25.0	25.0	25.0	25.0	25.0
Weight	Body (Net)	kg	20	20	20	20	22.2
	Body (Gross)	kg	22.2	22.2	22.2	22.2	25.8
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 26	29 / 27 / 25	32 / 29 / 27	35 / 32 / 29	36 / 33 / 29
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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Accessories

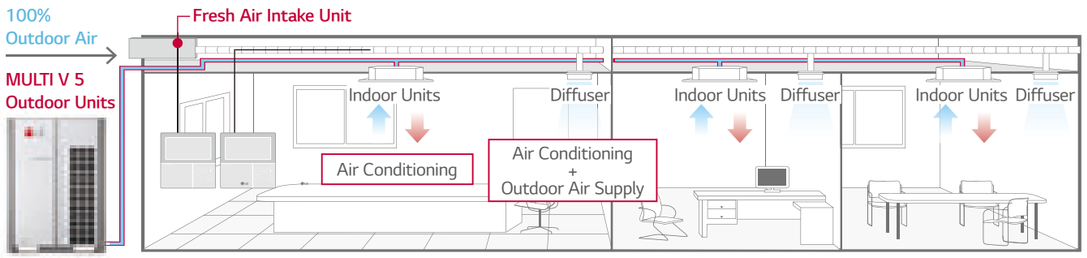
Chassis	JRNU09GL5G4	JRNU12GL5G4	JRNU15GL5G4	JRNU18GL5G4	JRNU24GL6G4
Drain Pump	○				
Refrigerant Leakage Detector	PRLDNVS0				
Independent Power Module	PRIP0				
Pre Filter (Washable / Anti-fungus)	○				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 Point)	○				
Wi-Fi	PWFMDD200				

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

FRESH AIR INTAKE UNIT

Fresh Outdoor Air Supply

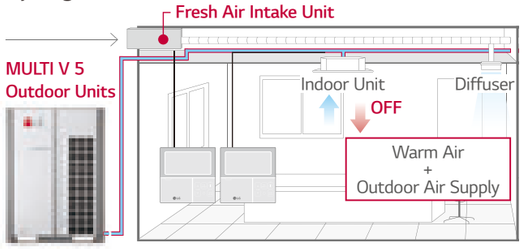
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated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



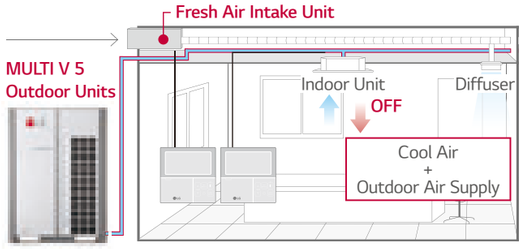
Economic Operation

Using the cooling and heating can save costs by blowing the natural outdoor air inside when the season change.

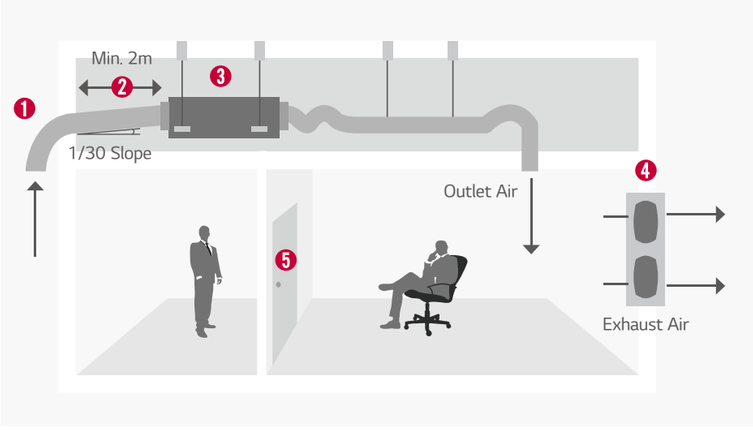
Spring Season



Autumn Season



Installation Scene



❶ Inlet Hood
❷ Intake Air Duct
❸ Fresh Air Intake Unit
❹ Exhaust Fan
❺ Door

FRESH AIR INTAKE UNIT

ARNU76GB8Z4 / ARNU96GB8Z4

Model		Unit	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity		kW	22.4	28.0
		kcal/h	19,300	24,100
		Btu/h	76,400	95,900
Heating Capacity		kW	21.4	26.7
		kcal/h	18,410	23,000
		Btu/h	73,080	91,360
Casing			Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Body (Gross)	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Air Flow Rate (H / M / L) (High static Mode-factory set)	m³/min	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
		ft³/min	837 / 446 / 446	1,261 / 837 / 837
	External Static Pressure	mmAq(Pa)	22	22
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	19.05 (3/4)	22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm	25	25
Weight	Body (Net)	kg	73	73
	Body (Gross)	kg	81.65	87
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43	47 / 45 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. 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
2. 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. 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. 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	-	
Refrigerant Leakage Detector	PRLDNVS0	
Independent Power Module	PRIP0	
Pre Filter (Washable / Anti-fungus)	○	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 Point)	○	
Wi-Fi	PWFMDD200	

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

FLOOR STANDING

Features & Benefits

- The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.

Key Applications

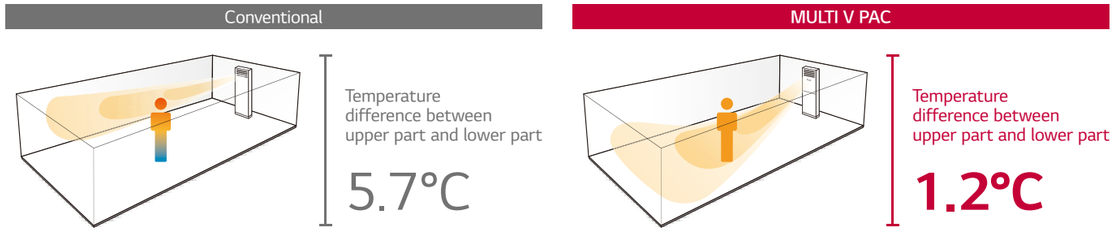
- Factory
- Retail
- Shop
- Office
- Restaurant

Simple & Elegant Design

With its stylish design, LG's new floor standing air conditioner enhances the overall indoor interior.

Less Temperature Difference

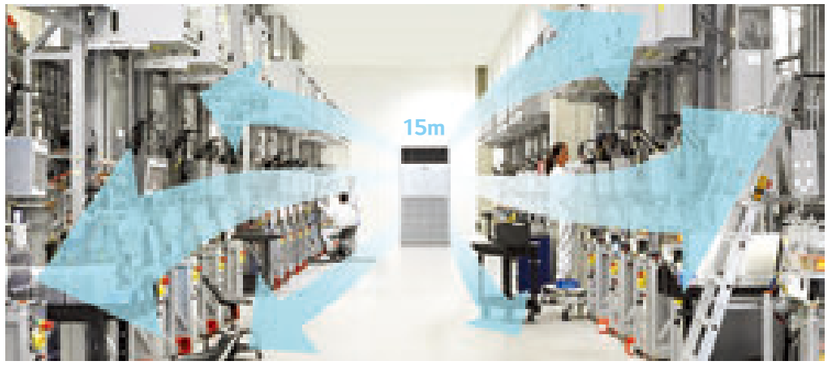
Power cooling and heating will minimize the temperature difference between upper part and lower part of the room.



※ Temperature difference between upper part and lower part.
※ Test Condition : Indoor temperature 12°C, Outdoor temperature 7°C, Setting Temperature 30°C
※ Measure Condition : After 3 hours heating operation (Average temperature)

15m Long Power Cooling

The new LG floor standing unit is efficient for using in large areas due to its powerful cooing and heating operation.
The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.



Type	Floor Standing
Air Flow (m^3/min)	68

※ Based on 131.8m^2

FLOOR STANDING

ARNU48GPTA4 / ARNU96GPFA4

Model		Unit	ARNU48GPTA4	ARNU96GPFA4
Cooling Capacity		kW	14.1	28.0
		kcal/h	12,100	24,100
		Btu/h	48,100	95,900
Heating Capacity		kW	15.9	31.5
		kcal/h	13,600	27,100
		Btu/h	54,200	107,500
Casing			Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	590 x 1,840 x 440	1,050 x 1,880 x 495
	Body (Gross)	mm	690 x 1,946 x 531	1,144 x 2,020 x 583
Air Flow Rate (SH / H / M / L) (Standard Mode)		m³/min	37 / 33 / 28 / 24	68 / 61 / - / 50
		ft³/min	1,307 / 1,166 / 989 / 848	2,402 / 2,154 / - / 1,766
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm	19	19
Weight	Body (Net)	kg	48	113
	Body (Gross)	kg	68	133
Sound Pressure Level (SH / H / M / L)		dB(A)	54 / 51 / 49 / 45	60 / 57 / - / 53
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. 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.

Accessories

Chassis	ARNU48GPTA4	ARNU96GPFA4
Drain Pump	○	
Refrigerant Leakage Detector	PRLDNVS0	
Independent Power Module	PRIP0	
Pre Filter (Washable / Anti-fungus)	○	
Ventilation Kit	-	
IR Receiver	-	
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 Point)	○	
Wi-Fi	PWFMDD200	

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

COMPATIBILITY

No.	New Function Name (4th 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
		Monitoring accumulated power consumption by Central Control Device / PDI	-	○	* Necessary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	2 Set Point	1) 2 set point control by Indoor and Central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring)	○	○	* Wired remote controller and central controller must be installed
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronization according to occupied / unoccupied by Indoor and Central control 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) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.)
4	Group Control	Group Control can use Additional function	○	○	* Check more details in PDB (Product Data Book) * 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) * Without Central Controller, it is able to recognize with wired remote controller (CH230) * Accessory PRLDNVS0 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 Steps)	○	-	* 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 control external devices without purchasing Dry contact as an accessory (All 4th generation indoors)	○	-	* Simple On / Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit / FAU / Floor Standing : 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
20	Human Detection	Detect human existence, location. 1. Unoccupied off / power saving temp. 2. Direct / In-direct wind.	○	○	* Available only with 4th generation 4 Way CST.
21	Air Purification	Clean indoor dust automatically	○	○	* Available for 4th generation 1 Way, 4 Way CST.

Note : 1. No.1, 2, 3, 8 : Functions are available to use together with 4th generation Indoor units only. If used together 2nd generation indoor unit and 4th generation indoor unit functions will not be activate.
2. No. 4, 5, 6, 7, 9, 10, 11, 12, 13, 14 : If used together 2nd generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor
3. No.20,21 : When Using "Centralized Controller" IDU and ODU communication speed have to be set as 9,600bps.

FEATURE FUNCTIONS

Wired Remote Controller				Centralized Controller				
Premium (PREMTA000)	Standard III (PREMTB100)	Standard II (PREMTB001)	Simple (PQRCVCL0QW)	AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart 5 (PACS5A000)	ACP 5 (PACP5A000)	AC Manager 5 (PACM5A000)
○	○	○	-	-	○	○	○	○
-	-	-	-	-	○	○	○	○
○	○	-	-	-	○	○	○	○
○	○	-	-	-	○	○	○	○
○	○	○	○	-	-	○	○	○
○	○	○	-	-	-	-	-	-
○	○	○	-	-	-	-	-	-
○	○	○	○	-	-	-	-	-
○	○	○	○	-	-	○	○	-
○	○	○	-	-	-	-	-	-
○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	-	-	-	-	-
○	○	○	○	-	-	-	-	-
-	○	○	-	-	-	-	-	-
○	○	-	-	○	○	○	○	○
○	○	○	-	-	-	-	-	-
-	○	-	-	-	-	○	○	-
-	○	-	-	-	-	○	○	-
-	○	-	-	-	-	○	○	-
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-	○	-	-	-	○	○	○	-
-	○	-	-	-	-	○	○	-
-	○	-	-	-	-	○	○	-

※ ○ : Applied, - : Not applied

COMPATIBILITY

Product \ Controller			Premium	Standard III	Standard II	Simple	Wireless	Dry Contact			
			PREMTA000	PREMTB100	PREMTB001	PQRCVC0QW	PWLSSB21H	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB320	For Modbus PDRYCB500
MULTI V	Ceiling Mounted Cassette	Round Cassette	○	○	○	○	○	○	○	○	○
MULTI V	Ceiling Mounted Cassette	4 Way	○	○	○	○	○	○	○	○	○
MULTI V	Ceiling Mounted Cassette	2 Way / 1 Way	○	○	○	○	○	○	○	○	○
MULTI V	Ceiling Concealed Duct	High Static	○	○	○	○	△	○	○	○	○
MULTI V	Ceiling Concealed Duct	Low Static	○	○	○	○	△	○	○	○	○
MULTI V	FAU (Fresh Air intake Unit)		○	○	○	○	△	○	○	○	○
MULTI V	Wall Mounted Unit		○	○	○	○	○	○	○	○	○
MULTI V	Floor Standing		○	○	○	○	○	○	○	○	○
MULTI V	HYDRO KIT [1]		-	-	-	-	-	○	-	○	-
MULTI V	Ventilation	Energy Recovery Ventilator with DX coil	○	○	○	-	-	○	-	-	○
MULTI V	AHU Communication Kit		○	○	○	-	△	-	-	-	-

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

FEATURE FUNCTIONS

Controller Name		Wired Remote Controller				Wireless Remote Controller	Wi-Fi Controller
		Premium	Standard III	Standard II	Simple		
Model Name							
		PREMTA000	PREMTB100	PREMTB001	PQRCVCL0QW	PWLSSB21H	PWFMDD200
Basic	On / Off	○	○	○	○	○	○
Basic	Fan Speed Control	○	○	○	○	○	○
Basic	Temperature Setting	○	○	○	○	○	○
Basic	Mode Change	○	○	○	○	○	○
Basic	Auto Swing	○	○	○	○	○	
Basic	Vane Control (Louver Angle)	○	○	○	○	○	○
Basic	E.S.P (External Static Pressure)	○	○	○	○	-	-
Basic	Electric Failure Compensation	○	○	○	○	-	○
Basic	Indoor Temperature Display	○	○	○	○	○	
Basic	ALL Button Lock (Child Lock)	○	○	○	○	-	-
Advanced	Schedule / Timer	Weekly~Yearly	Weekly~Yearly	Weekly	-	Sleep / On / Off	Weekly
Advanced	Additional Mode Setting [1]	○	○	○	-	-	-
Advanced	Time Display	○	○	○	-	○	-
Advanced	Humid. Display	○	○	-	-	-	-
Advanced	Advanced Lock (mode, set point, set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-
Advanced	Filter Sign	○	○	○	-	-	-
Advanced	Energy Management [2]	○	○	○	-	-	○
Advanced	Dual Set Point	○	○	-	-	-	-
Advanced	Human Detection	-	○	-	-	-	-
Advanced	Temp., Humidity Compensation	○	○	-	-	-	-
Advanced	Wi-Fi AP mode setting	○	○	○	○	○	-
ETC	Operation Status LED	○	○	○	○	-	-
ETC	Wireless Remote Controller Receiver	○[3]	-	○[3]	○[3]	-	-
ETC	Display	5 inch Color	4.3 inch Color	4.3 inch Mono	2.6 inch Mono	2 inch Mono	-
ETC	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	51 x 153 x 26	-
ETC	Black Light Control for Screen Saver	○	○	-	-	-	-

※ ○: Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) 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://partner.lge.com: Home> Doc.Library> Manual)

HOT WATER SOLUTIONS

HYDRO KIT

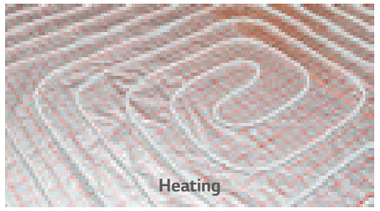
HYDRO KIT Features

Features & Benefits

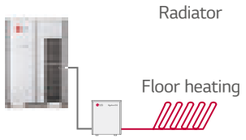
- Lower operation cost compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V system.

Key Applications

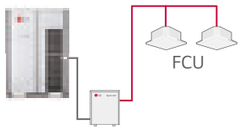
- Where hot water is needed such as domestic hot water, in-floor or radiant heat. Where cold water is needed such as fan coil unit and chilled beam.



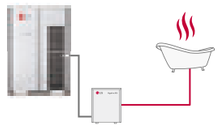
Radiant Heating / Cooling



Fan Coil Unit Heating / Cooling

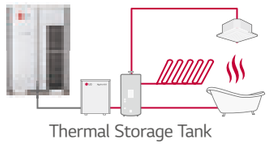


Hot Water / Cooled Water



Combination

Hot water + Radiant heating



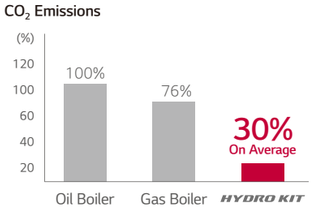
Thermal Storage System

Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO_2 emissions.

Conventional System

HYDRO KIT



High Temperature Concept of HYDRO KIT

Provides high temperature up to 80°C with dual inverter cascade cycle, applicable for buildings that require large amount of hot water supply.

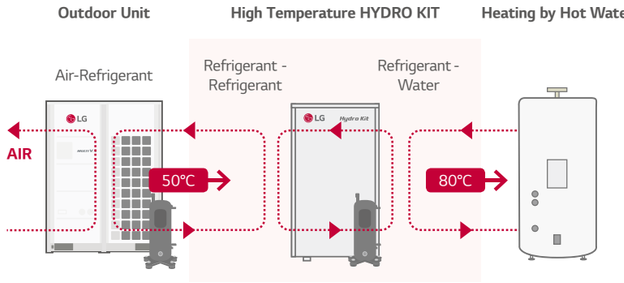
Dual Inverter Cascade Cycle Technology

- Max. 55% improved capacity compared to mid-temp. of HYDRO KIT.
  - Max. 20% reduced heating operating cost compared to mid-temp. of HYDRO KIT.
  - Cascade R410A to R134A BLDC compressor technology.

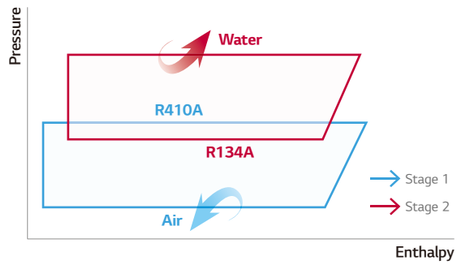
High Volume of Hot Water

Compared to lower temperature, storing high temperature water in a sanitary tank increases the quantity of mixed water available for the user.

High Temperature HYDRO KIT Cycle Diagram

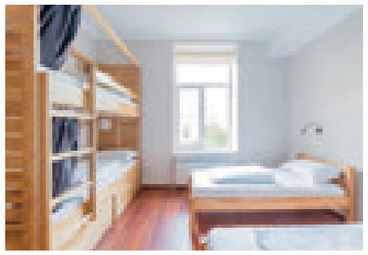


High Temperature Technology

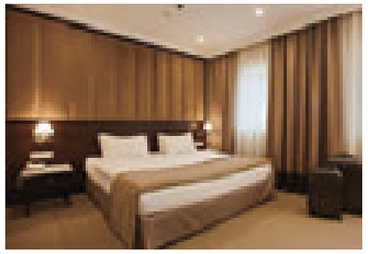


Various Applications

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



Dormitory

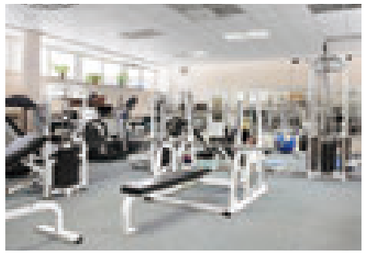


Hotel

Office

Residential

Restaurant



Fitness

Factory

Hospital

HYDRO KIT

MEDIUM TEMPERATURE

ARNH04GK2A4 / ARNH10GK2A4

Model			Unit	ARNH04GK2A4	ARNH10GK2A4
Capacity (Rated)		Cooling	kW	12.3	28.0
			kcal/h	10,580	24,100
			Btu/h	42,000	95,900
		Heating	kW	13.8	31.5
			kcal/h	11,870	27,100
			Btu/h	47,000	107,500
Casing		Material	-	Painted Steel Plate	Painted Steel Plate
		Color (RAL code)	-	RAL 7030	
Dimensions	Net	Body (W x H x D)	mm	520 x 631 x 330	520 x 631 x 330
Weight	Net	Body	kg (lbs)	29.2 (64.4)	33.7 (74.3)
Heat Exchanger	Refrigerant to Water	Type	-	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1
		Number of Plate	EA	26	48
		Rated Water Flow	ℓ / min	39.6	92.0
		Head Loss	kPa	41.0	69.0
Piping Connections	Water Side	Inlet	A(inch)	25A (Male PT1)	25A (Male PT1)
		Outlet	A(inch)	25A (Male PT1)	25A (Male PT1)
	Refrigerant Side	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	22.2 (7/8)
Drain Piping Connection			A (inch)	25A (Male PT1)	25A (Male PT1)
Sound Pressure Level		Cooling	dB(A)	26	26
		Heating	dB(A)	26	26
Power Supply			Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Capacities are based on the following conditions : Specifications for calculating the real capacity.
• Cooling Temperature : Outdoor 35℃(95°F) DB / 24℃(75.2°F) WB, Water Inlet 23℃(73.4°F) / Outlet18℃(64.4°F)
• Heating Temperature : Outdoor 7℃(44.6°F) DB / 6℃(42.8°F) WB, Water Inlet 30℃(86°F) / Outlet 35℃(95°F)
• Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

HIGH TEMPERATURE

ARNH04GK3A4 / ARNH08GK3A4

Model			Unit	ARNH04GK3A4	ARNH08GK3A4
Capacity (Rated)		Heating	kW	13.8	25.2
			kcal/h	11,870	21,700
			Btu/h	47,000	86,000
Casing		Material	-	Painted Steel Plate	Painted Steel Plate
		Color (RAL code)	-	RAL 7030	RAL 7030
Dimensions	Net	Body (W x H x D)	mm	520 x 1,074 x 330	520 x 1,074 x 330
Weight	Net	Body	kg (lbs)	86.0 (189.6)	90.0 (198.4)
Heat Exchanger	Refrigerant to Refrigerant	Type	-	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1
		Number of Plate	EA	50	60
	Refrigerant to Water	Type	-	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1
		Number of Plate	EA	76	48
		Rated Water Flow	ℓ / min	19.8	36
		Head Loss	kPa	5	20
Compressor		Type	-	LG BLDC Inverter Compressor	LG BLDC Inverter Compressor
		Starting Method	-	Direct On Line	Direct On Line
Piping Connections	Water Side	Inlet	A (inch)	25A (Male PT1)	25A (Male PT1)
		Outlet	A (inch)	25A (Male PT1)	25A (Male PT1)
	Refrigerant Side	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	19.05 (3/4)
Drain Piping Connection			A (inch)	25A (Male PT1)	25A (Male PT1)
Sound Pressure Level		Cooling	dB(A)	-	-
		Heating	dB(A)	44	46
Refrigerant	Refrigerant to Water	Refrigerant Name	-	R134a	R134a
Power Supply			Ø, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.
2. Capacities are based on the following conditions : Specifications for calculating the real capacity.
• Cooling Temperature : Outdoor 35℃(95°F) DB / 24℃(75.2°F) WB, Water Inlet 23℃(73.4°F) / Outlet18℃(64.4°F)
• Heating Temperature : Outdoor 7℃(44.6°F) DB / 6℃(42.8°F) WB, Water Inlet 30℃(86°F) / Outlet 35℃(95°F)
• Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

Accessories

Chassis	ARNH04GK2A4	ARNH10GK2A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Independent Power Module	○	
Robot Cleaner	-	
Pre Filter (Washable / Anti-fungus)	-	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320(8 points for thermostat compatible)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

Accessories

Chassis	ARNH04GK3A4	ARNH08GK3A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Independent Power Module	○	
Robot Cleaner	-	
Pre Filter (Washable / Anti-fungus)	-	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320(8 points for thermostat compatible)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

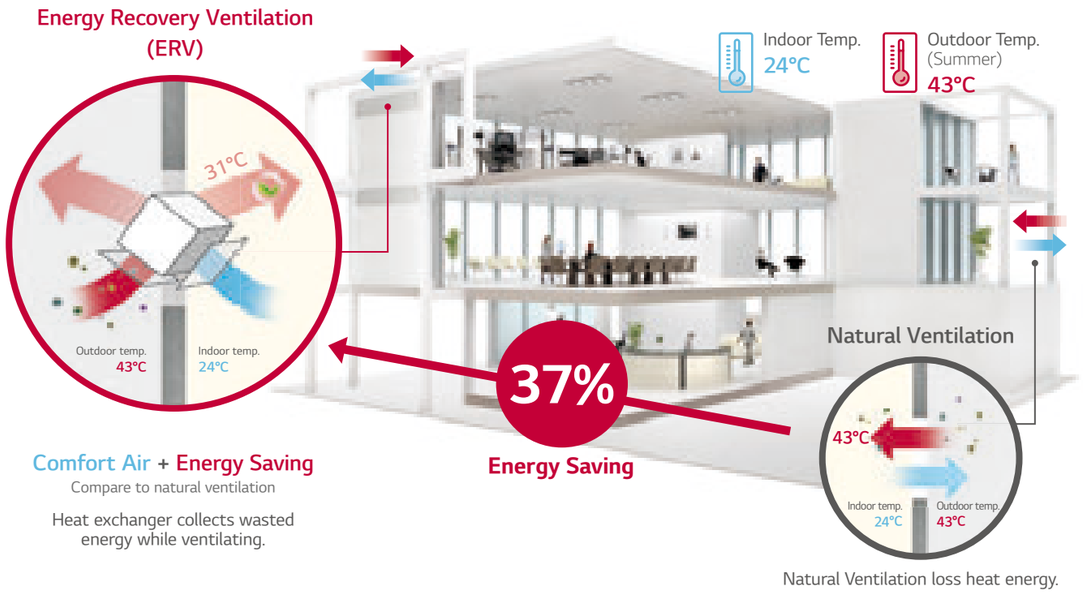
※ ○ : Applied, - : Not applied
Option : Refer to model name in table

VENTILATION SOLUTIONS

ERV WITH DX COIL

Necessity of ERV

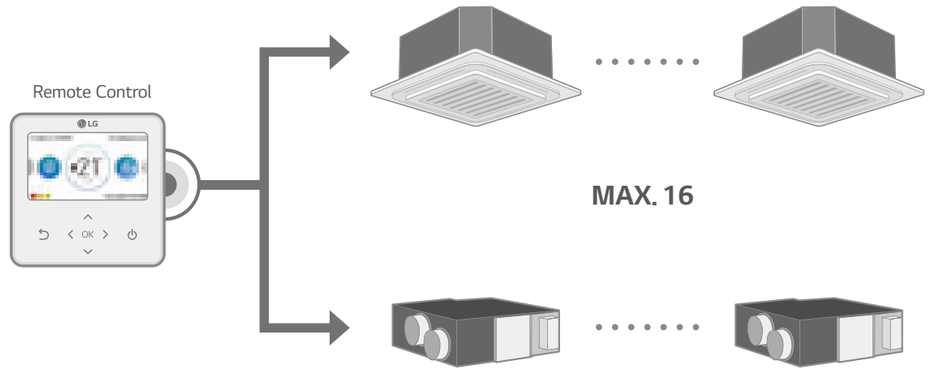
Natural ventilation loss cooling, heating energy when exhausting polluted air inside. Heat exchanger in ERV collects the cooling, heating energy to save energy while supplying fresh air.



※ Product : MULTI V 5 12HP, ERV 1,000CMH
※ Temperature condition
- OA : 42.8°CDB / 31.7°CWB (ASHRAE Climate, New Delhi)
- RA : 24.0°CDB / 17.2°CWB (Indoor design condition)

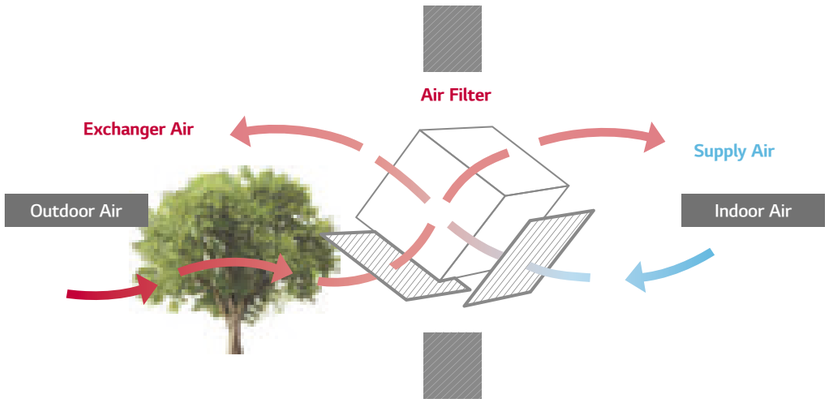
Interlocking with Air Conditioning System

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



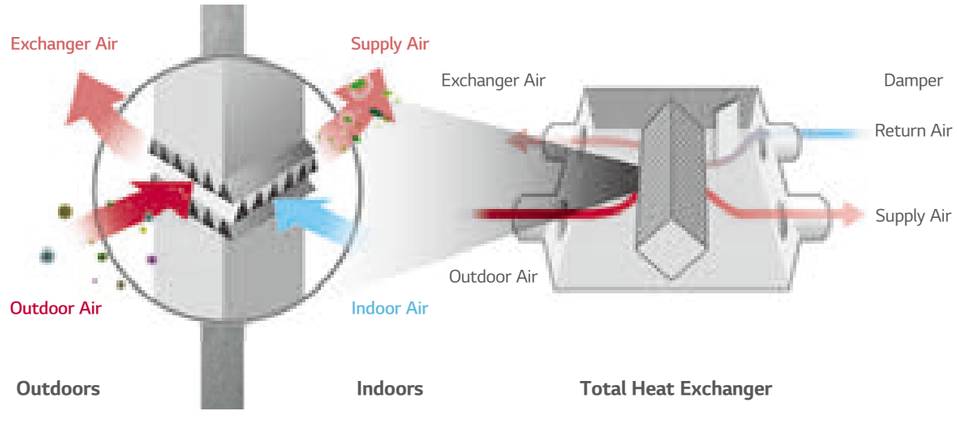
High Efficiency Heat Exchanger

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



Compulsory Exhausting System

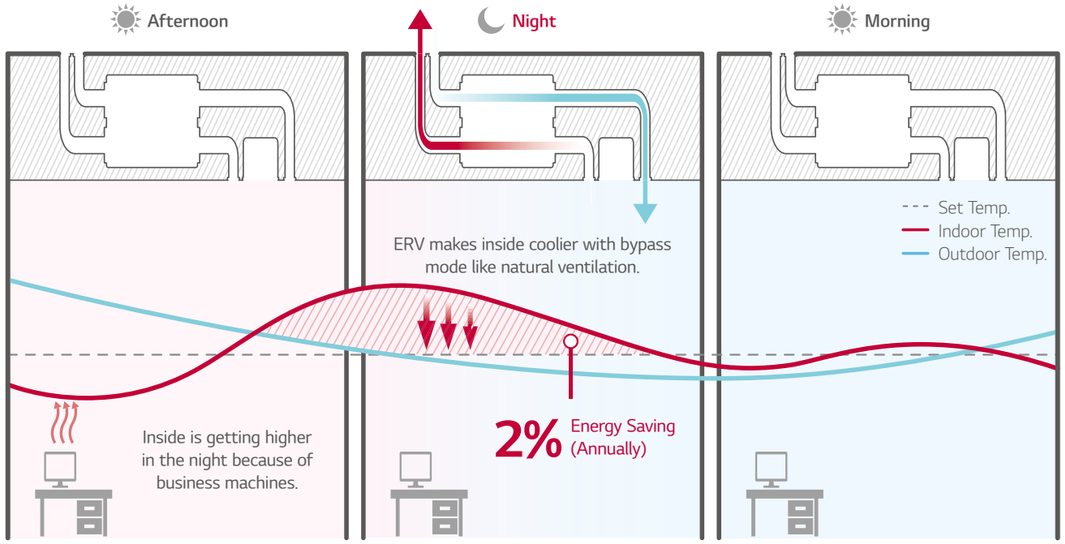
The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air.
Supply and exhaust air flows are completely separated in the total heat exchanger, LG ERV can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



ERV WITH DX COIL

Night Time Free Cooling

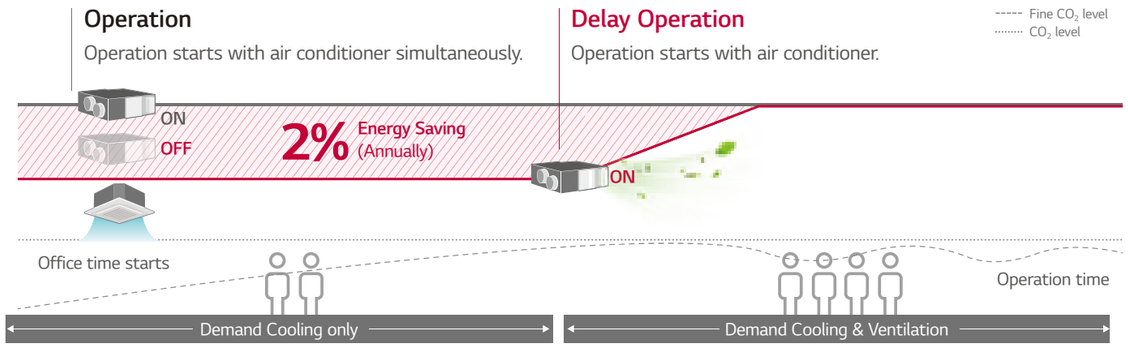
Discharge the indoor heat in the summer night and supply cool outdoor air to indoors, so it can save energy.



※ 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 (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM.

Delay Operation

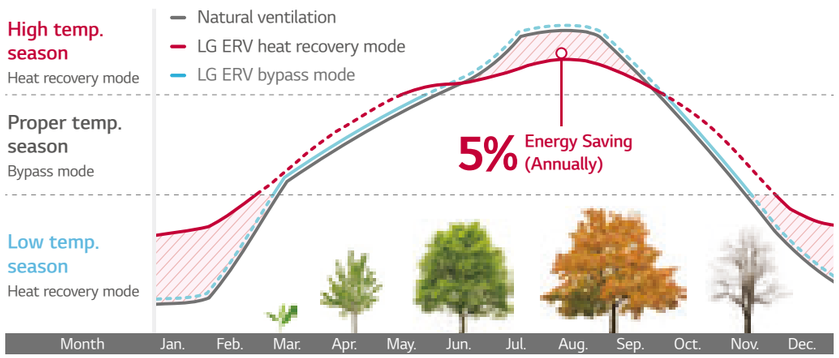
When you turn on the air conditioner and ERV at the same time, Delay Operation can reduce unnecessary heating and cooling energy loss slows down automatically ERV operation.

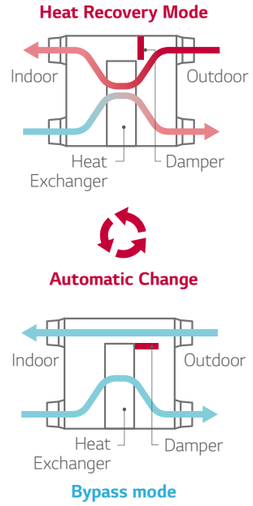


※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition
- Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM.

Seasonal Auto Operation

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

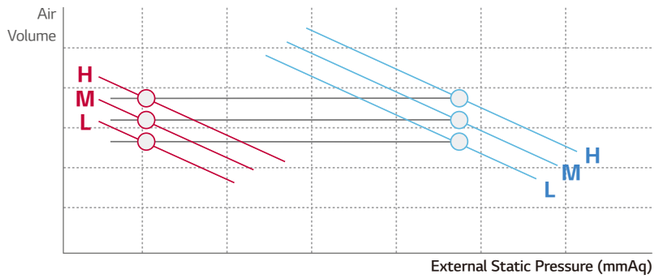




※ This function is operated with 'Auto' mode by wired remote control.
※ Energy saving ratio can be differed by weather condition.
※ Test Condition
- Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM.

External Static Pressure Control

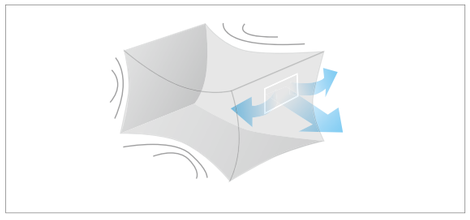
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



Fast Ventilation Mode

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

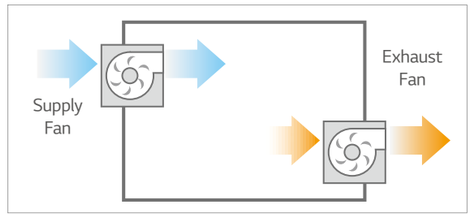
Only Exhausting



Exhausting operation causes negative indoor air pressure, and cannot fully ventilate.

Exhausting and Supplying Simultaneously

Fast Ventilation Mode

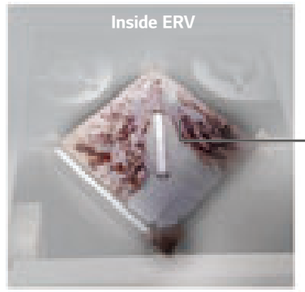


ERV WITH DX COIL

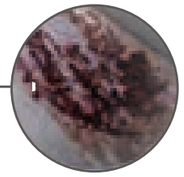
High Durability

LG ERV durability is increased through bacteria-resistant material of heat exchanger and corrosion protection coating.
It prevents shortening product life due to corrosion and mold and supplies high quality air to inside by minimizing the bacteria.

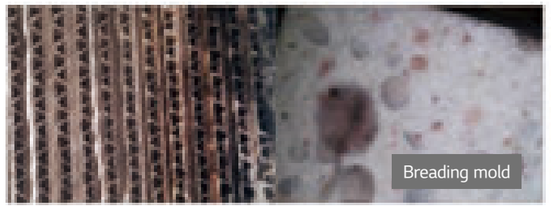
Others



Corrosion occurrence



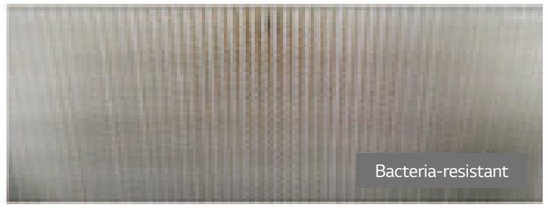
Heat exchanger and filter



LG ERV

Corrosion protection coating + Finish insulator

Heat exchanger

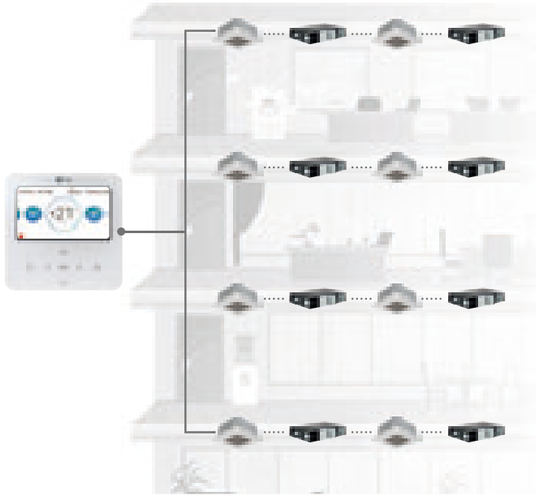


Group Control

One wired remote control up to sixteen ERV (Including air conditioning) you can reduce the remote installation costs and enjoy good looking interior wall effect.

Several units combination

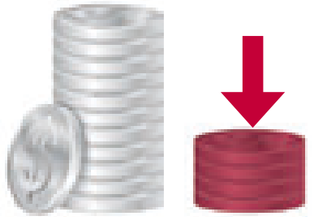
16 units group control is available with 1 remote controller.



※ 16 units (Including ERV, air conditioner) + 1 remote controller

Good looking interior

Controller & installation cost saving



Easy Controller

Wired remote controller is easy for usage.

Easy

- Navigation buttons, easy to use
- Easy installation setting

Convenient

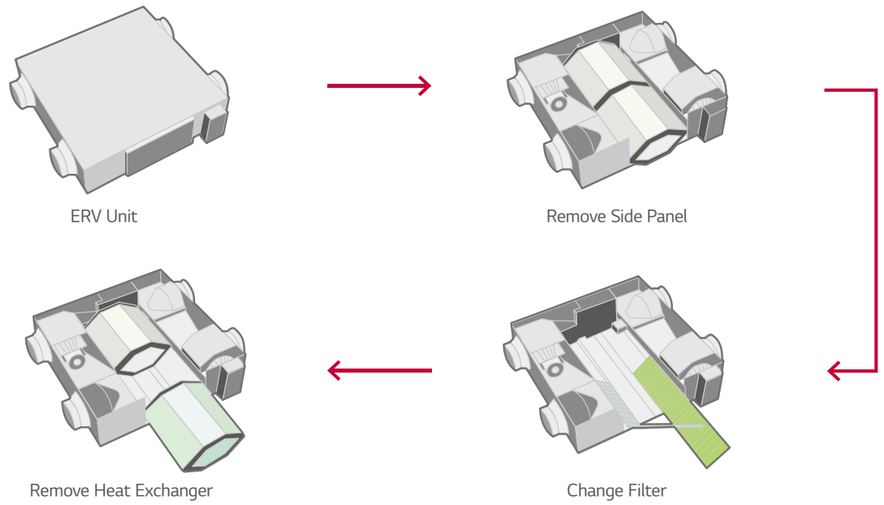
- Flexible display
  - Dual display with air conditioner
  - Zoom selected directory to increase legibility

Visible

- Indoor CO_2 level
- Alarm for filter change / Remained time to change filters

Easy Cleaning and Filter Change

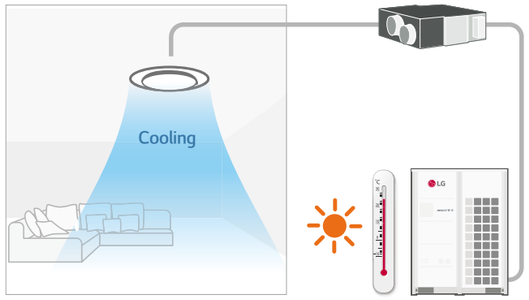
It is easy and convenient to change and clean the filter.

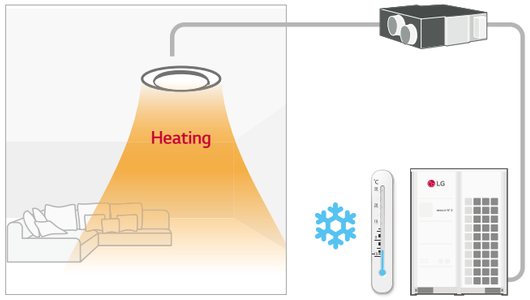


ERV WITH DX COIL

Providing Cool & Warm Fresh Air

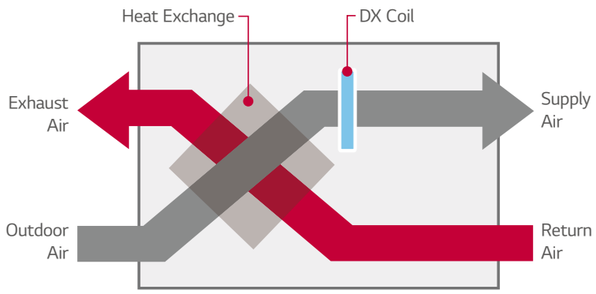
During the summer, ERV DX can transform outdoor warm air into cool air for indoors, and it can prevent cold drafts during the winter by supplying warm air.





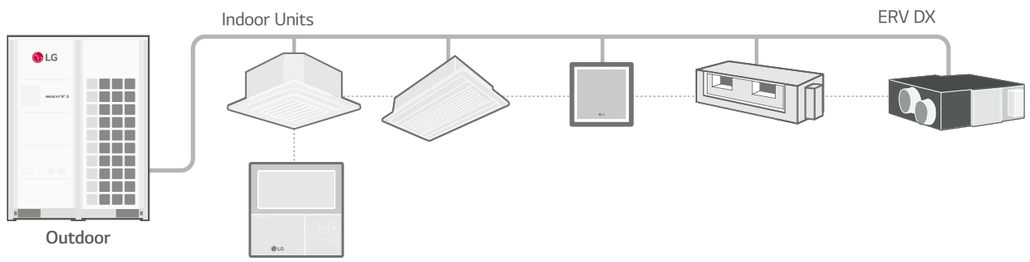
Total Air Conditioning Solution

LG ERV DX can be used as a Total Air Conditioning Solution. It can control condition of incoming air with the DX coil for making comfortable indoor 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.



ERV WITH DX COIL

LZ-H050GXN4 / LZ-H080GXN4 / LZ-H100GXN4

Model		Unit	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air Conditioning Load	Cooling (Coil)	kW	4.93 (3.7)	7.46 (5.6)	9.12 (6.6)
	Heating (Coil)	kW	6.73 (3.7)	9.80 (5.6)	11.72 (6.6)
Temperature Exchange Efficiency	SH / H / L	%	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
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66
Operation Range	Outdoor air Temperature	°C	-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
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	180 / 150 / 110	170 / 120 / 80	150 / 100 / 70
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant			R410A		
Power Supply		Ø, V, Hz	1, 220-240, 50 / 60		
Heat Exchange System			Air to air cross flow total heat (Sensible + Latent heat) exchange		
Heat Exchange Element			Specially processed non-flammable paper		
Air Filter			Multidirectional fibrous fleeces		
Dimensions	W x H x D	mm	1,667 x 365 x 1,140		
Net Weight		kg	98		
Piping Connection	Liquid	mm	6.35		
	Gas	mm	12.7		
	Water	mm	-		
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)		
Connection Duct Diameter		mm	250		

Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°CDB, 19°CWB / Outdoor temperature : 35°CDB
2. Heating Capacity Test condition - Indoor temperature : 20°CDB / Outdoor temperature : 7°CDB, 6°CWB
3. Cooling and heating capacities are based on the following conditions. : Fan is based on High and Super-high.
4. 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.
5. The specifications, designs and information here are subject to change without notice.
6. Consider only Coil capacity when calculate combination ratio.

Accessories

Chassis	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	-		
Independent Power Module	-		
Robot Cleaner	-		
Pre Filter (Washable / Anti-fungus)	-		
Ion Generator	-		
CO_2 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

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.

ENERGY SAVING

SMART MANAGEMENT

EASY EXPANDABILITY

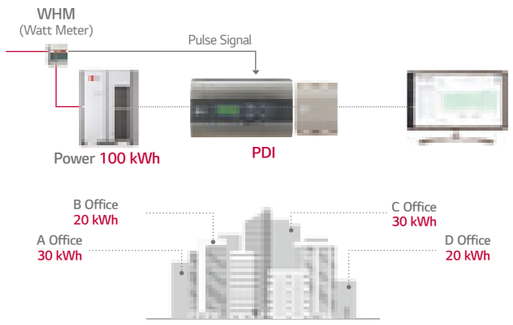
VARIOUS INTEGRATED SOLUTIONS

Retail

AC Ez Touch, PDI
Customized operation maintains the comfort of retail space

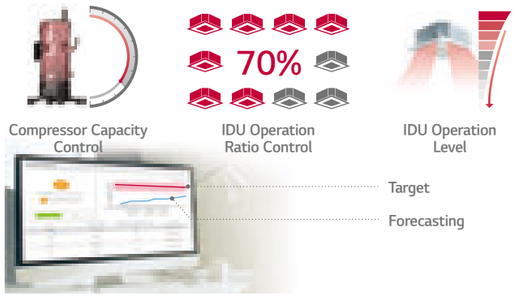
Power Consumption Distribution Solution

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 Distribution 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.



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 through out the building.

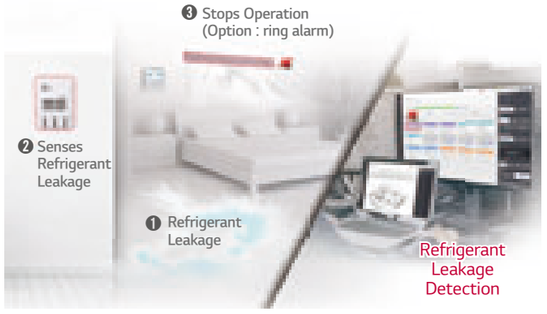


Hospitality

Dry Contact
Meeting diverse needs

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).



Interlocking Solution Using Dry Contact

3rd 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 3rd party devices such as lighting, a fan, or a radiator, based on things 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.

VARIOUS INTEGRATED SOLUTIONS

Residential

Standard III, Wi-Fi Modem
Creating a comfortable home

Easy Control

Wired remote controller is easy for usage.

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

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

Visible
- Indoor CO_2 level, Air Purify quality level, Humidity
- Alarm for filter change / Remained time to change filters

Energy Management

Users can check power consumption and running time report. (Weekly, Monthly, Yearly) Various energy managing settings such as energy target setting, alarm pop-up indication, time limit control and home leave operation are available for efficient management.

Air Purify Solution

Anywhere! Anytime! Control IDU with Wi-Fi Modem through LG ThinQ.

Air Quality Level Monitoring
- Easily Check Air Quality Status
  - PM10
  - PM2.5
  - PM1.0
  - Graph View of measurement history Day, Week, Month, Year

Air Purify Control
- Air Purify Set / Clear

Purification

Mobile Remote Control
- Using a Wi-Fi modem, control and monitor air purify from your LG ThinQ App.
  - Temp. / Mode / Fan / Air Flow and so on

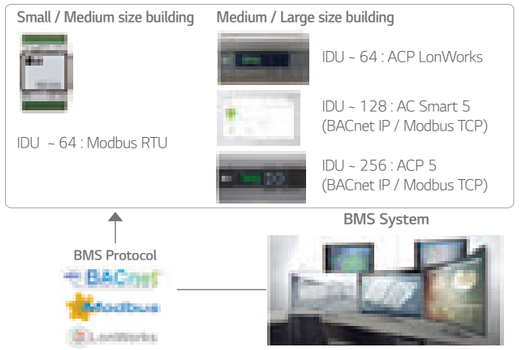
※ Wi-Fi modem (PWFMDD200) is an accessory.

Office

AC Smart 5
Supporting efficiency with flexibility

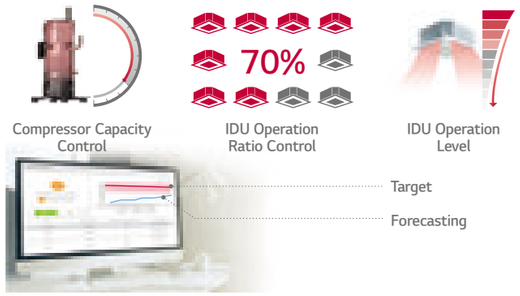
Integration Solution with BMS

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.



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 through out the building.



VARIOUS INTEGRATED SOLUTIONS

Education

AC Manager 5
Large capacity in compact size enhances space utilization

Total Control of 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.

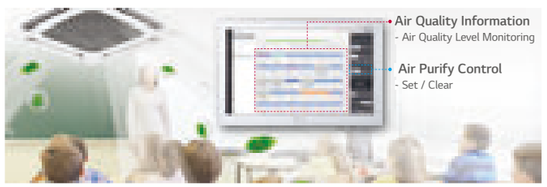
Management office
PC

Library
Tablet

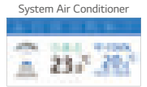
Main administration building
Mobile

Air Purify Total Solution

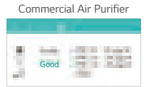
Total management of air purify creates clean school environment for everyday. Using LG central controller, you can check the air condition of multiple zones at once and improve the overall air quality through simple control.



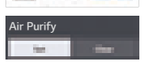
Air Quality Level Monitoring
System Air Conditioner



Commercial Air Purifier



Air Purify Control



- Easy setting of Air Purify function (Set / Clear)

View Air Quality Trends

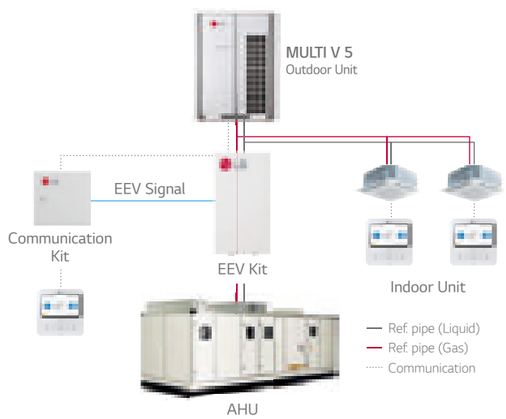
- Daily (per hour), Period (30 days) shows trends
- Excel output / easy to manage

Public Facility

AHU Comm.Kit
Suitable for large public facilities through group control

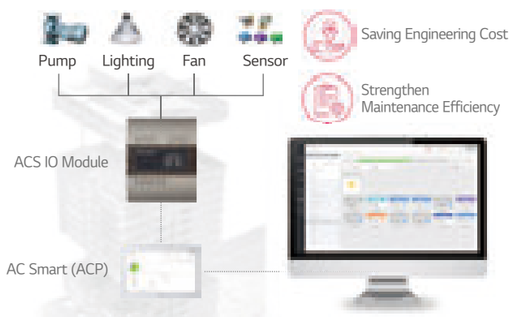
Air Handling Unit (AHU) Solution

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.



Interlocking Solution by Using ACS IO Module

It is costly to introduce a BMS system to control multiple devices or systems in a small building. With the ACS / ACU IO 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.



INDIVIDUAL CONTROL

Feature Functions

Controller Name		Wired Remote Controller				Wireless Remote Controller	Wi-Fi Modem
		Premium	Standard III	Standard II	Simple		
Model Name							
		PREMTA000	PREMTB100	PREMTB001	PQRCVCL0QW	PWLSSB21H	PWFMDD200
Basic	On / Off	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○
	Mode	○	○	○	○	○	○
	Auto Swing	○	○	○	○	○	
	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
	Wi-Fi AP Mode Setting	○	○	○	○	○	-
Advanced	Additional Mode Setting 1)	○	○	○	-	-	-
	Time Display	○	○	○	-	○	-
	Humidity Display	○	○	-	-	-	-
	Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-
	Filter Sign	○	○	○	-	-	-
	Energy Management 2)	○	○	○	-	-	○
	Dual Set Point	○	○	-	-	-	-
	Human Detection	-	○	-	-	-	-
	Temp., Humidity Compensation	○	○	-	-	-	-
	Air Purify Control	○	○	-	-	○	○
	Air Quality Level	-	○	-	-	-	○
ETC	Operation Status LED	○	○	○	○	-	-
	Wireless Remote Controller Receiver	○ 3)	-	○ 3)	○ 3)	-	-
	Display	5 inch Color	4.3 inch Color	4.3 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 120 x 16	64 x 120 x 15	51 x 153 x 26	-
	Black Light Control for Screen Saver	○	○	-	-	-	-

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product.
2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) 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://partner.lge.com : Home > Doc.Library > Manual)

INDIVIDUAL CONTROL

Standard III Wired Remote Controller

New Modern Design

Convenience

Schedule

Comfort & Reliability (Air Purify)

Energy Management

Interlocking

Provides optimized control performance in any business environment
Excellent usability with modern design & easy interface

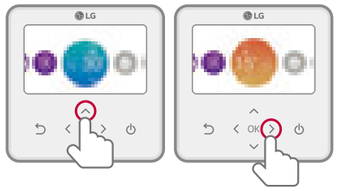
Design
- 4.3 inch color LCD / Intuitive GUI
- Seamless design / Touch button
- Humidity sensor embedded

Comfort & Air Purification
- CO_2 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

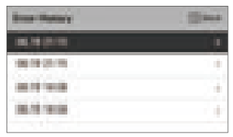
Touch Button



Cool Heat Dry Fan Auto

Comfort Level

Energy Contents



Error History

PREMTB100

4.3 inch colored screen with modern design.

Model Name	PREMTB100
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting [1]	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) [2]	○
Schedule	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 [3] / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Pop-up / Initialization Usage Data
Operation Status LED	○
Air Purify Control [4]	○
Air Quality Level [4]	○
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	○

※ ○ : 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 : Indoor unit needs to have functions requested by the controller.

INDIVIDUAL CONTROL

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	Very Poor	Severe
* PM10 (㎍ / m³)	0~50	51~150	151~250	251~350	351~420	421~
* PM2.5 (㎍ / m³)	0~35	36~75	76~115	116~150	151~250	251~
* PM1.0 (㎍ / m³)	0~35	36~75	76~115	116~150	151~250	251~

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_2 concentration

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

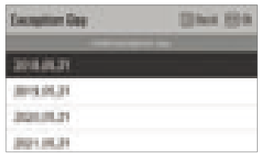
Energy Usage Target Setting

Time Limit Control
- Monitoring the unit's continuous running time and prevent the wasting energy by turning the unit off automatically.

Schedule Function

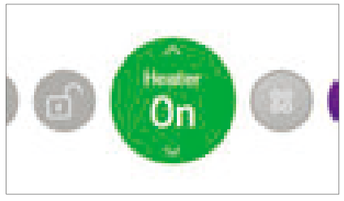
Simple Schedule Status
Standard III remote controller provides clock type daily schedule.

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 controlling the external heater switches on when temperature drops below or rises above a certain temperature.

INDIVIDUAL CONTROL

Premium Wired Remote Controller

PREMTA000

5 inch full touch screen with a premium design.

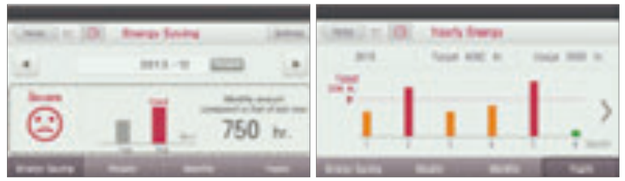
* Supported languages list : English / Portuguese / Spanish / French

Model Name	PREMTA000
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting 1)	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) 2)	○
Schedule	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage 3) / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Pop-up / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ 4)
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 : Indoor unit needs to have functions requested by the controller.

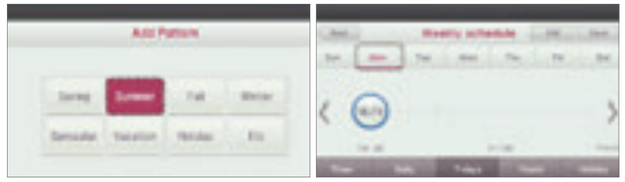
Easy Energy Management

- Check the operation hour or electricity usage
- Comparison of usage compared to last year
- Set the target usage and time



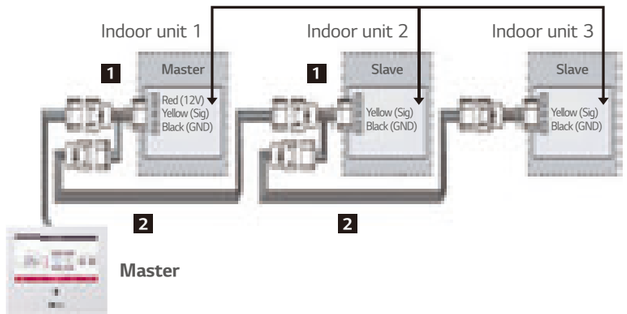
Easy Scheduling

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



Group Control

- Max. 16 Indoor units by one remote controller



INDIVIDUAL CONTROL

Standard II Wired Remote Controller

PREMTB001

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

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

Model Name	PREMTB001
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)	○
Schedule	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	○ 1)
Size (W x H x D, mm)	120 x 120 x 16
Black Light	○
Power Consumption Monitoring	○ 2)
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

PQRCVCL0QW

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

• Small remote control with minimal functionality

Model Name	PQRCVCL0QW
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	○ 1)
Size (W x H x D, mm)	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

Handy and portable wireless type

• Easy to use while moving
• Main functions are available

Model Name	PWLSSB21H
On / Off	○
Fan Speed Control	○ 1)
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting	Air Purify / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	○
Vane Control (Louver direction)	○
Schedule	Sleep / On / Off
Time Display	○
Indoor Temperature Display	○
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

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

INDIVIDUAL CONTROL

Wi-Fi Modem

PWFMDD200

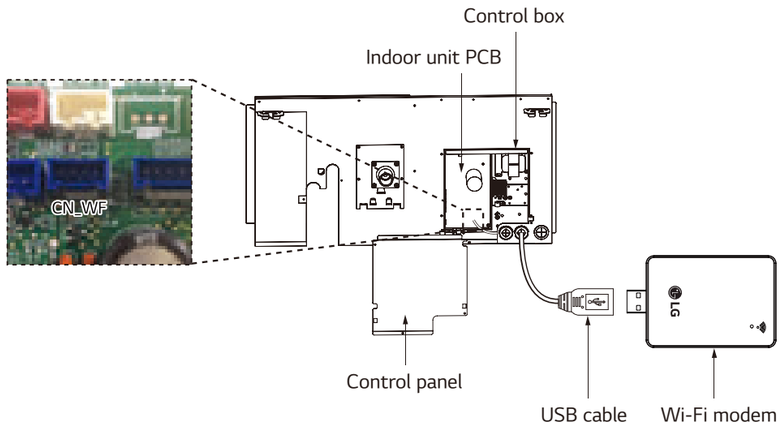
Control conditioners by using internet devices as Android or iOS smartphones.

Model Name	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	System Air Conditioner [3]
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b / g / n
Mobile Application	LG 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.

- 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 (LG ThinQ) is available.
- Simple operation for various functions.
  - On / Off
  - Operation Mode
  - Current / Set Temperature
  - Fan Speed
  - Vane Control [1]
  - Schedule (Sleep, Weekly On / Off)
  - Energy Monitoring [2]
  - Filter Management
  - Error Check
  - Air Purify [3]

Installation Scene



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

※ Search "LG ThinQ" on Google play or Appstore then download the app.
※ Internet service with Wi-Fi connection has to be available.

INDIVIDUAL CONTROL

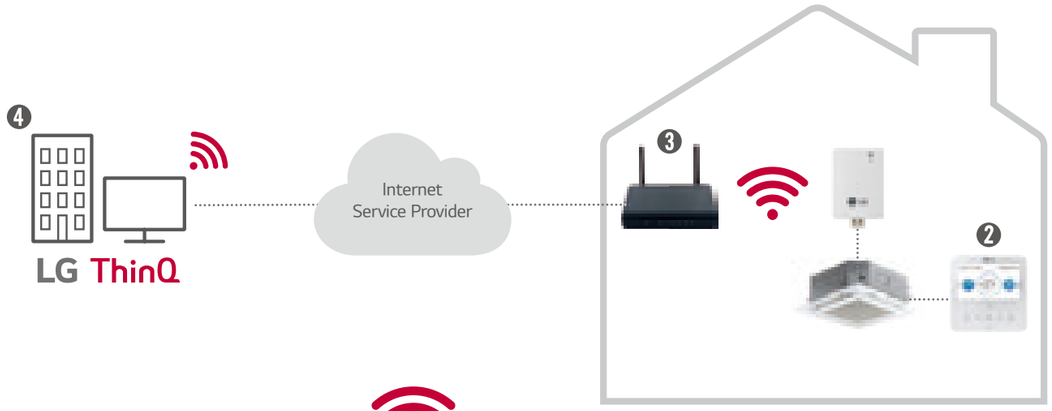
Wi-Fi Modem

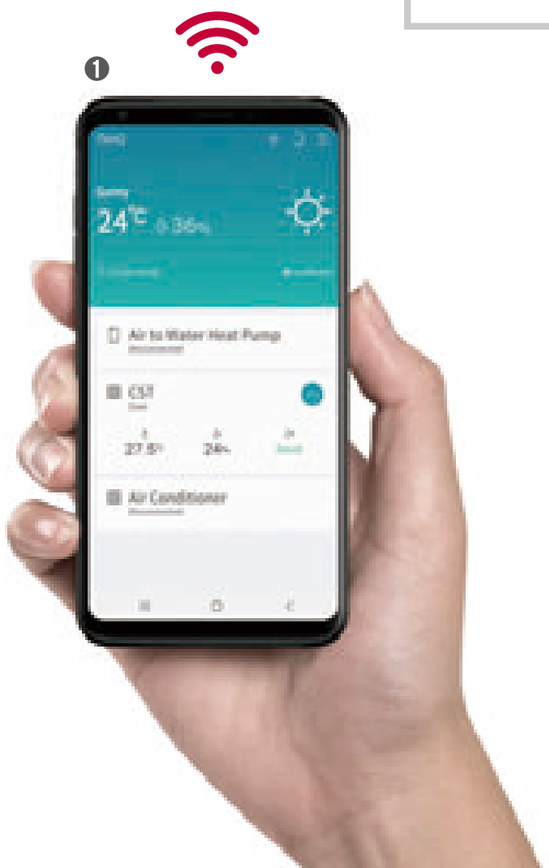
LG ThinQ Connectivity

Connection (Pairing) Order

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

* 5GHz networks may not be supported.





LG ThinQ Mobile App

Simple operation for various functions

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

<Day>

<Night>

Vane Control

Air Purify

Easy Management

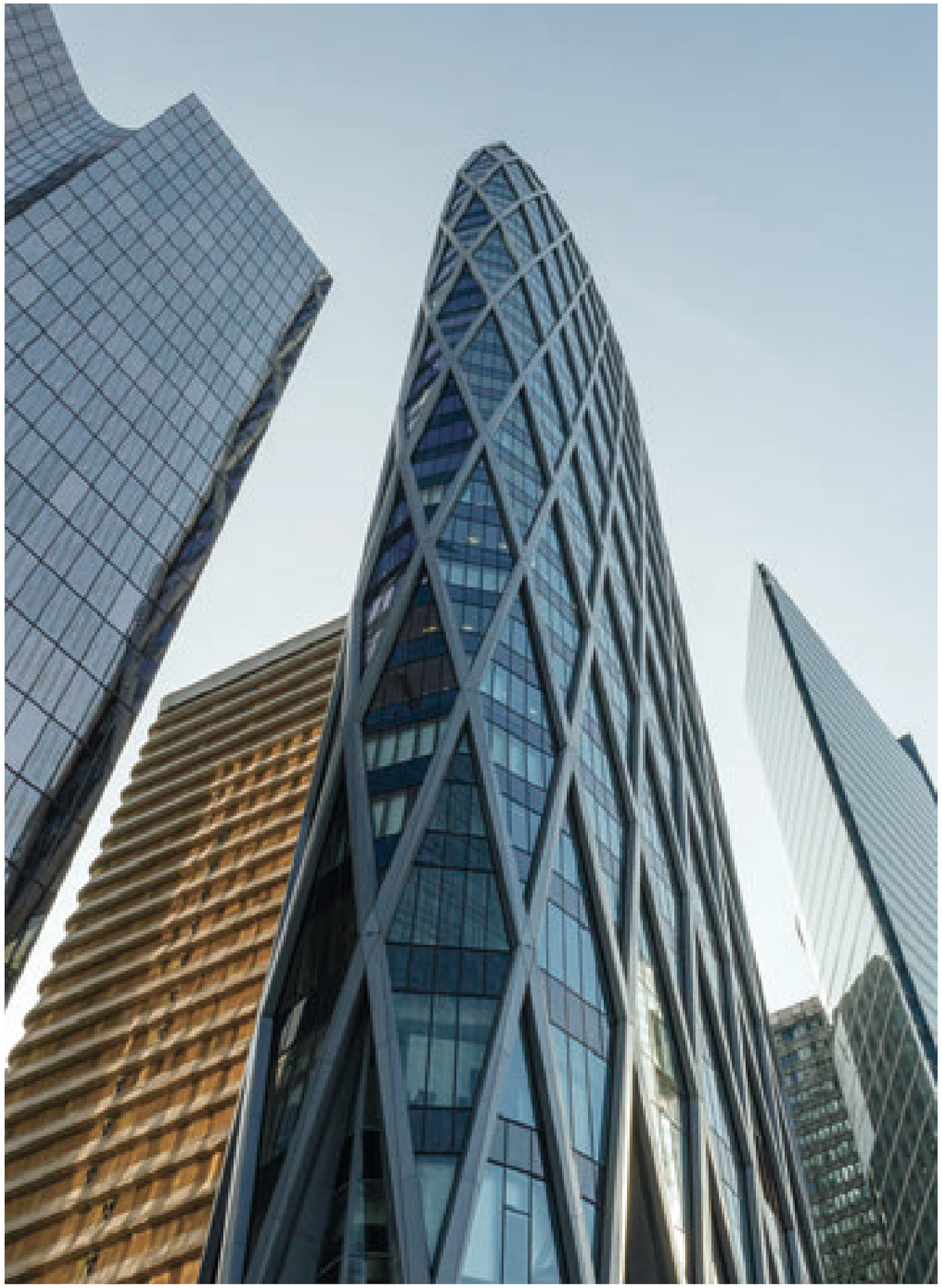
Schedule

Energy Monitoring

Smart Diagnosis

Filter Management

CENTRALIZED CONTROL



Feature Function

Controller Name			AC Ez	AC Ez Touch	AC Smart 5 [5]	ACP 5 [5]	ACP LonWorks	AC Manager 5 [6]	Cloud Gateway
Model Name									
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PLNWKB000	PACM5A000	PWFMDB200
Product	DO		-	-	2	4	2	-	-
	DI		-	1	2	10	2	-	-
	Max. Connectable No.	IDUs	32	64	128	256	64	8,192	16
		ERV	32	64	128	256	64	8,192	-
		A / C + ERV	32	64	128	256	64	8,192	-
		AHU	-	-	16	16	16 [4]	16 x 32	-
		Chiller	-	-	5 Optional [3]	10 Optional [3]	-	10 x 32	-
		Commercial Air Purifier [1]	-	-	64	128	-	128 x 32	-
Compatibility	Air Conditioner		○ [2]	○	○	○	○	○	○
	Ventilation (ERV / ERV DX)		○ [3]	○	○	○	○	○	-
	Heating		-	○	○	○	○	○	-
	AHU		-	-	○	○	○	○	-
	Chiller		-	-	○ [4]	○ [4]	-	○	-
	Commercial Air Purifier [1]		-	-	○ [4]	○ [4]	-	○	-
	ACS IO		-	-	○ [4]	○ [4]	○ [4]	○	-
Additional Function	Add Drawing		-	-	○ [4]	○ [4]	○ [4]	○	-
	Group Management		-	○	○ [4]	○ [4]	○ [4]	○	○
	Auto Changer Over		-	○	○ [4]	○ [4]	○ [4]	○	-
	Set Back		-	○	○ [4]	○ [4]	○ [4]	○	-
	Dual Setpoint		-	○	○	○	○ [4]	○	-
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter	-
	Indoor Unit Lock		○ [7]	○	○	○	○ [4]	-	-
	Cycle Monitoring		-	-	○	○	○ [4]	○	-
	Air Purify		-	○	○ [4]	○ [4]	-	○	○
Schedule			○	○	○ [4]	○ [4]	○ [4]	○	○
Auto Control	Peak Control	Priority Control	-	○	○	○	○ [4]	○	-
		Outdoor Unit Capacity Control	-	-	○ [4]	○ [4]	○ [4]	○	-
	Time Limit Control		-	-	○ [4]	○ [4]	○ [4]	○	-
	Interlocking		-	-	○ [4]	○ [4]	○ [4]	○	-
Energy Navigation			-	-	○ [4]	○ [4]	-	○	-
Energy Report	Power [8]		-	○	○	○	○ [4]	○	○
	Gas		-	-	○	○	○ [4]	○	-
	Run Time		-	-	○ [4]	○ [4]	○ [4]	○	-
	Save to PC / USB (Excel)		-	-	PC / USB [4]	PC	PC	PC	-
Trend Reporting			-	-	-	-	-	○	-
History	Report (Control / Error)		-	Error	○ [4]	○ [4]	○ [4]	○	-
	Send Email		-	-	○ [4]	○ [4]	○ [4]	○	-
	Save to PC / USB (Excel)		-	-	PC / USB	PC	○ [4]	PC	-
etc	Summer Time		-	○	○ [4]	○ [4]	○ [4]	○	-
	Outdoor Unit Oil-Return Operation		-	-	○ [4]	○ [4]	○ [4]	-	-
	User Authority		-	Password	○ [4]	○ [4]	○ [4]	○	-
	PC Access		-	○	○ [4]	○ [4]	○ [4]	○	-

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

CENTRALIZED CONTROL

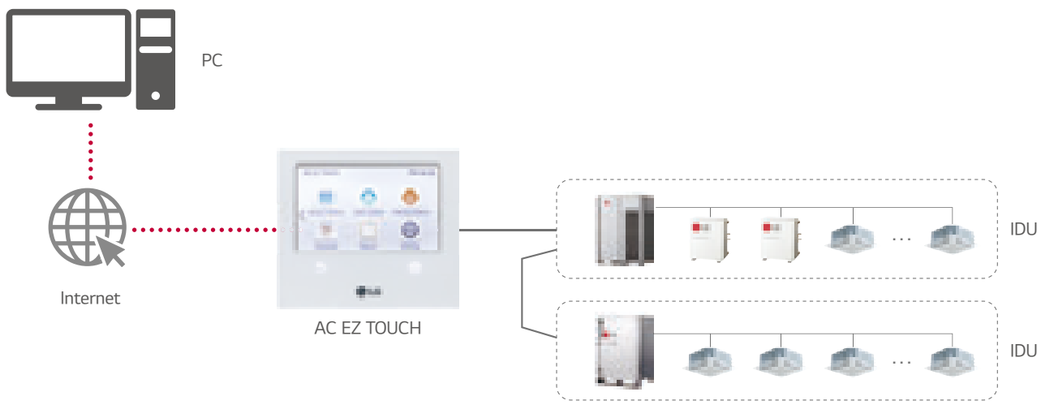
AC EZ Touch

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 DX / Hydro Kit
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
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation History	Error record
ODU Low Noise [1]	○
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

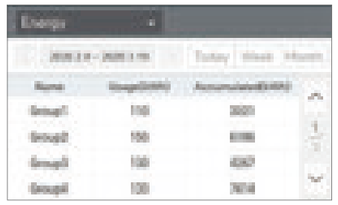
Users can control each space efficiently through PC access.

※ IPv6 supported
- Fixed Public IP is recommended. If not, router's configuration of NAT is required.
- Open port 80 & 9300

Air Purify Control & Monitoring

Energy Statistics (with PDI)

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

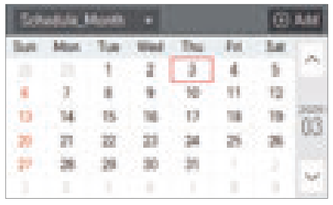


Energy Mode

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)

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.

CENTRALIZED CONTROL

AC EZ

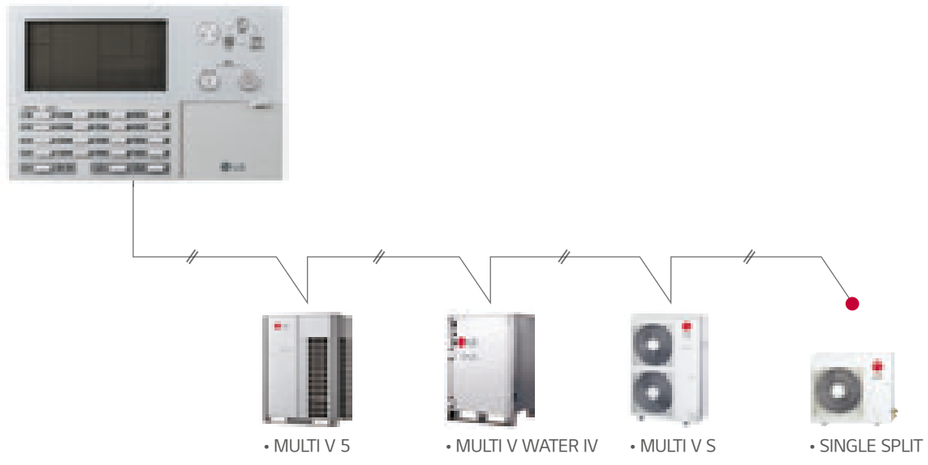
PQCSZ250S0

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

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

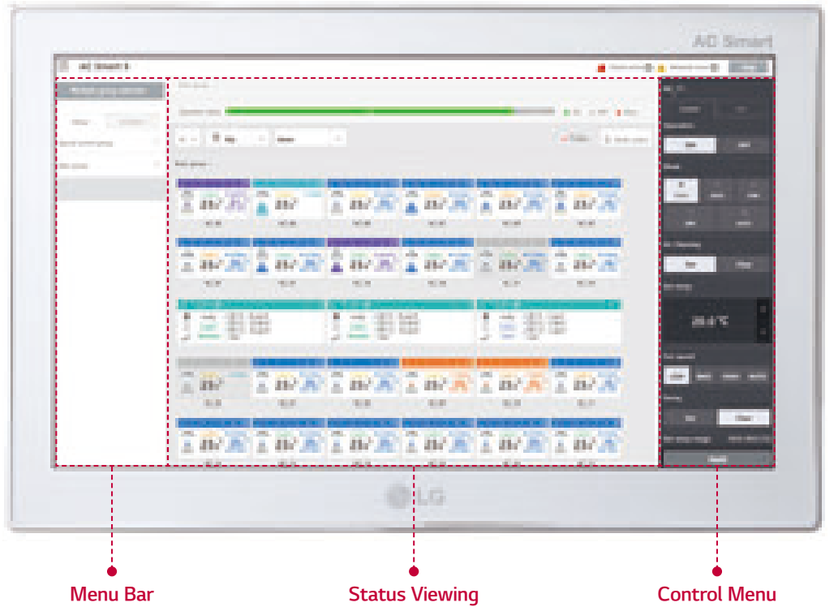
Model Name	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV DX
Display	LED / LCD Display
Power	DC 12V
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly

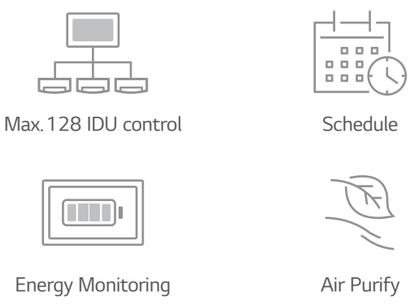
※ ○ : Applied, - : Not Applied



● Appropriate PI485 should be used according to PDB.

AC SMART 5





10" with HTML5 GUI touch screen for easy control
The central controller allows control of the LG HVAC system to various platforms (Touch screen, PC, Smartphone, Tablet)

The central controller allows control of the LG HVAC system to various platforms. (Touch screen, PC, Smartphone, Tablet)

- DI : 2 / DO : 2
- Max. 128 IDU control
- BACnet IP / Modbus TCP
- Schedule
- Map View (Visual Navigation)
- Time limit control / Auto change over
- Energy monitoring
- History / Operation Trend
- Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
- Multi level grouping
- Emergency stop & alarm
- Error alarm by E-mail

CENTRALIZED CONTROL

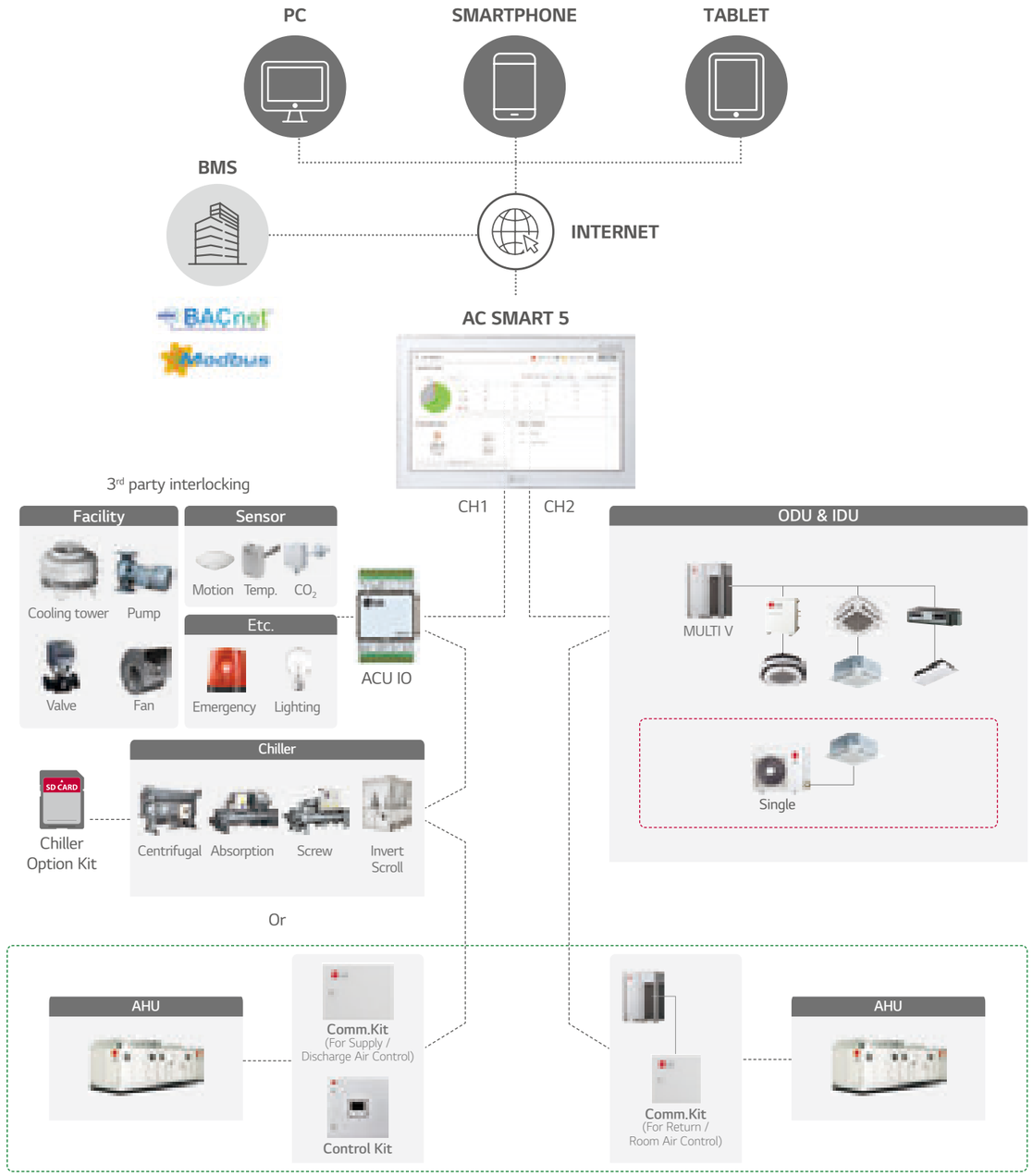
AC SMART 5

PACS5A000

10-inch touch screen with HTML5 GUI (Graphic User Interface) for easy control.

Model Name	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV DX / Hydro kit / AHU Kit / LG Chiller [1]
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 [2]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO_2 Level display (for ERV DX) / Night Time Free Cooling (for 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 [3]	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.



According to CH1 setting, normal ODU can be connected to CH1.
(Flexible wiring design with 2 ports)

Appropriate PI485 should be used according to PDB (Product Data Book).

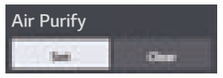
For details, refer to the product PDB or manual.

CENTRALIZED CONTROL

AC SMART 5

Air Purify Total Solution

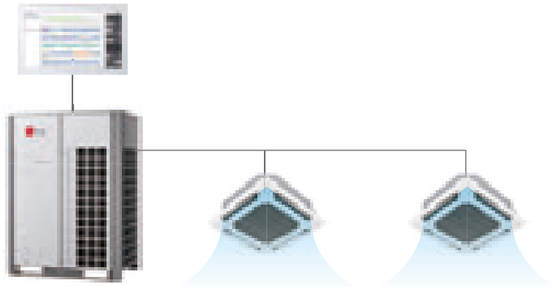
Air Purify Control



- Easy setting of Air Purify function (Set / Clear)

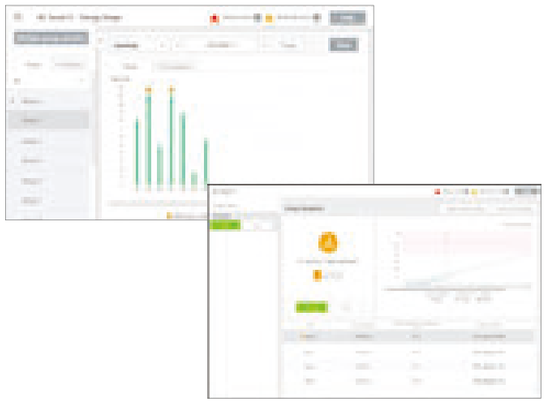
Air Quality Level Monitoring

System Air Conditioner



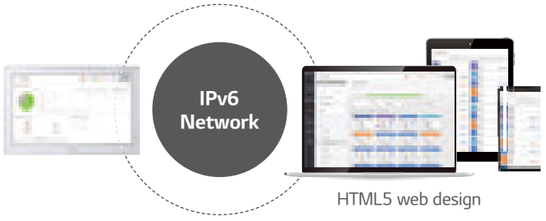
Energy Management

The energy navigation function allows the air conditioner's operational energy usage to be manged monthly, weekly and yearly. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



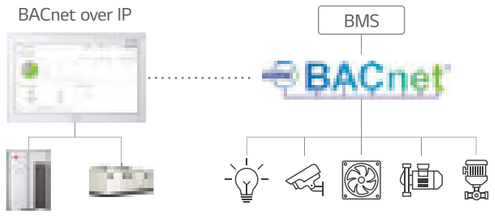
Advanced Network Accessibility

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.



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.



Visualized Control

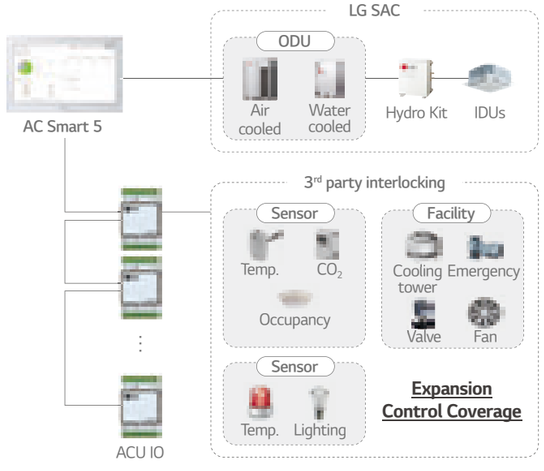
Visual navigation enables controlling and monitoring the unit on floor plan view for the intuitive management.

Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.

Interlocking with 3rd Party Equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module. Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches···)

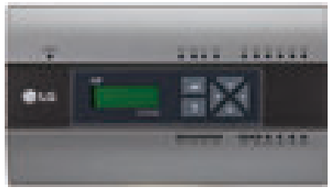


CENTRALIZED CONTROL

ACP 5

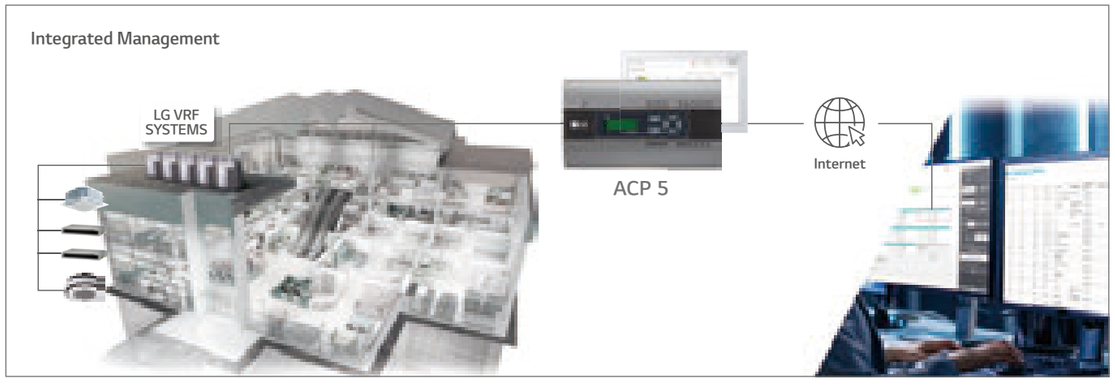
PACP5A000

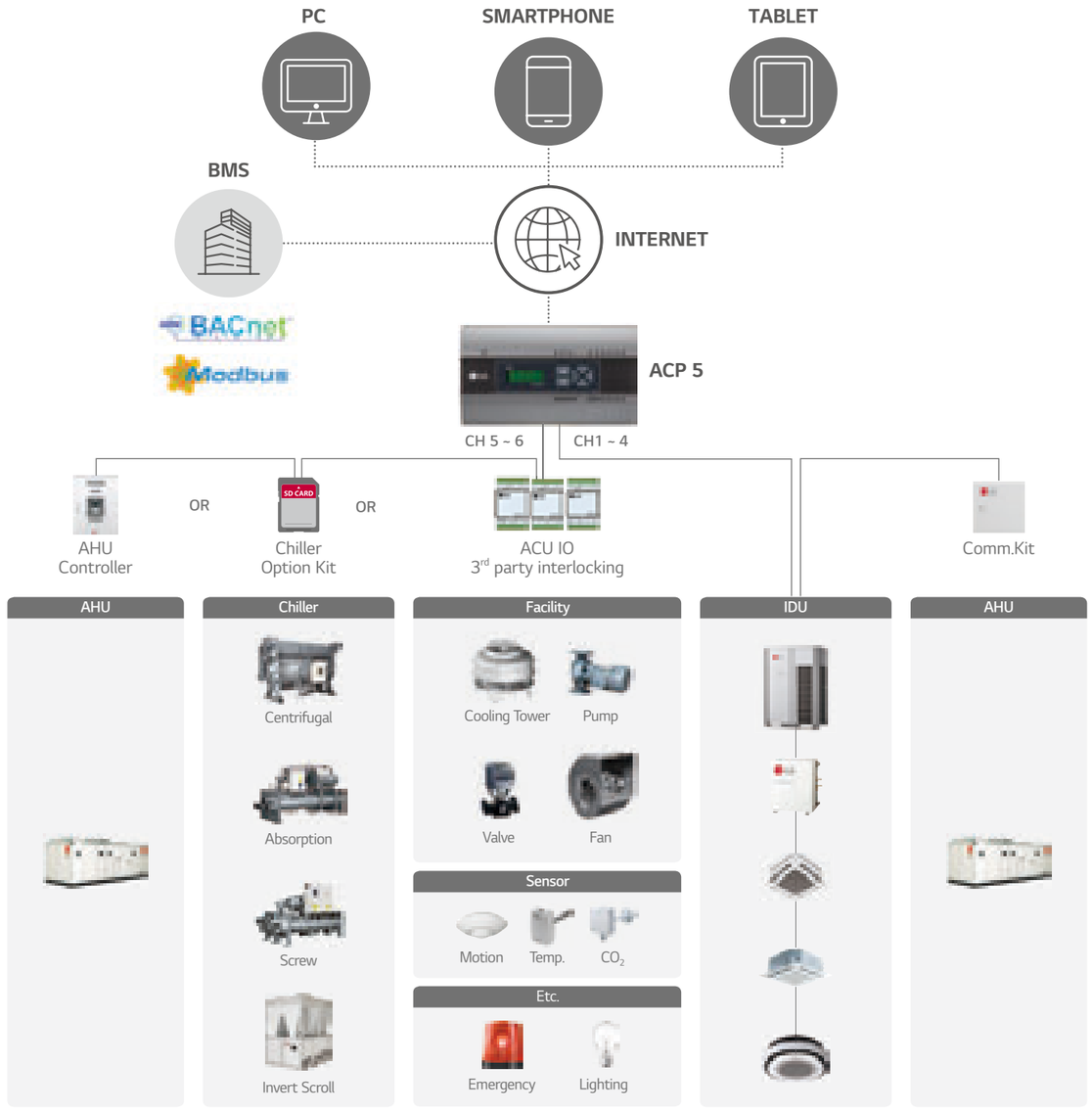
Advanced solution for BMS integration up to 256 units via BACnet and Modbus protocol as well as its own smart management function with web server interface.



Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV DX / Hydro kit / AHU Kit / LG Chiller [1]
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 [2]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO_2 Level display (for ERV DX) / Night Time Free Cooling (for 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 [3]	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.

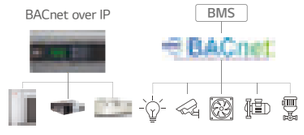




Advanced Network Accessibility

Energy Navigation

BACnet IP & Modbus TCP



Air Purify Control / Monitoring

* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

CENTRALIZED CONTROL

AC Manager 5

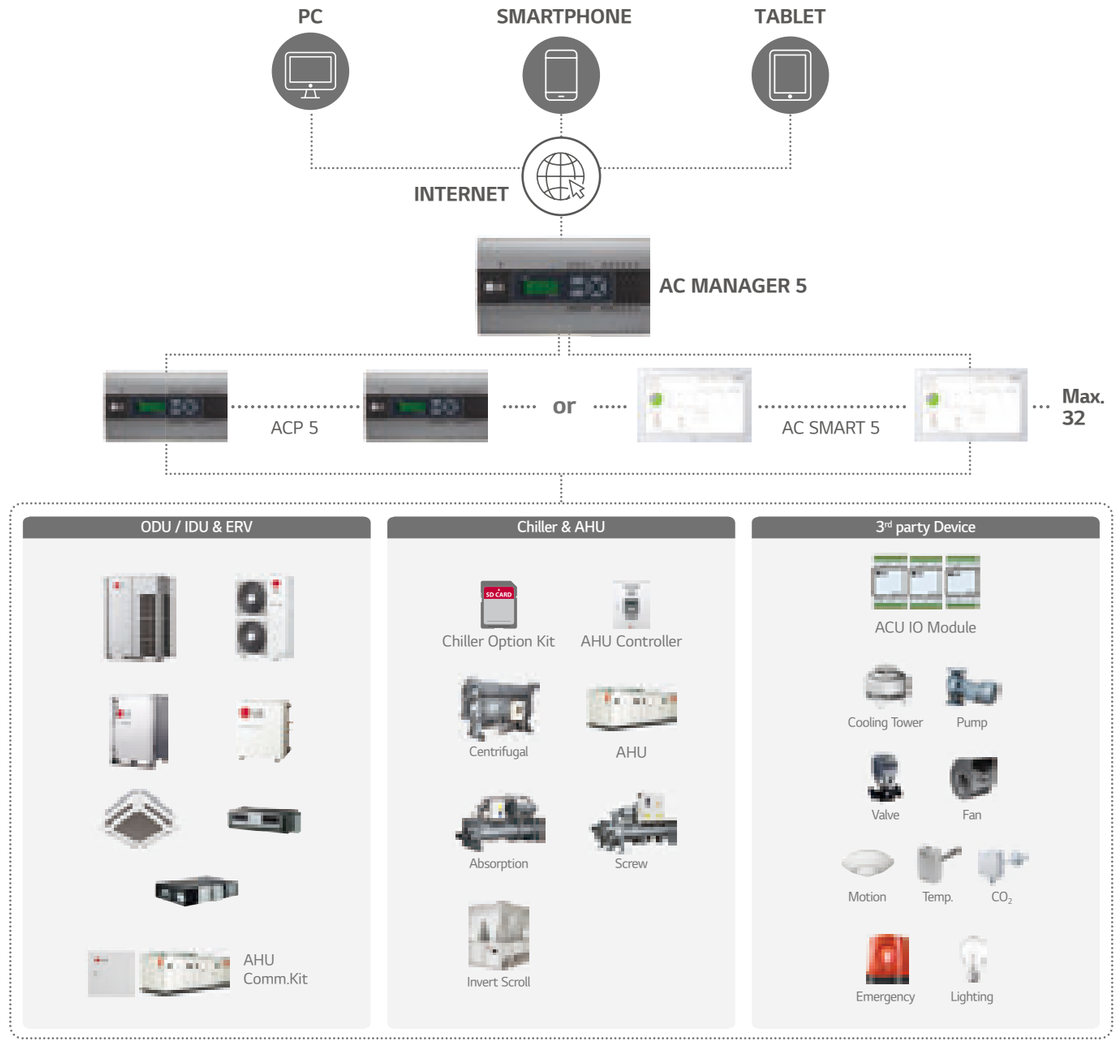
PACM5A000

Multiple ACP and AC Smart integration solution to manage multi sites up to 8,192 units as a single system.

reddot award

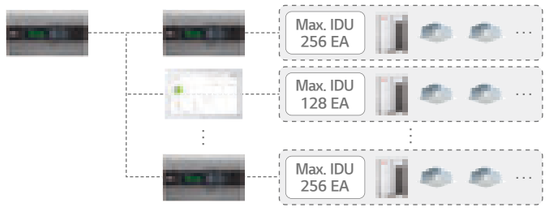
Model Name	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV DX / Hydro kit / AHU Kit / LG Chiller [1)]
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / 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.

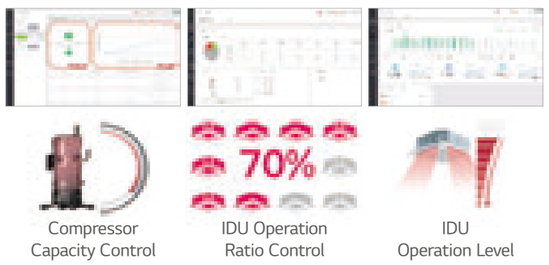


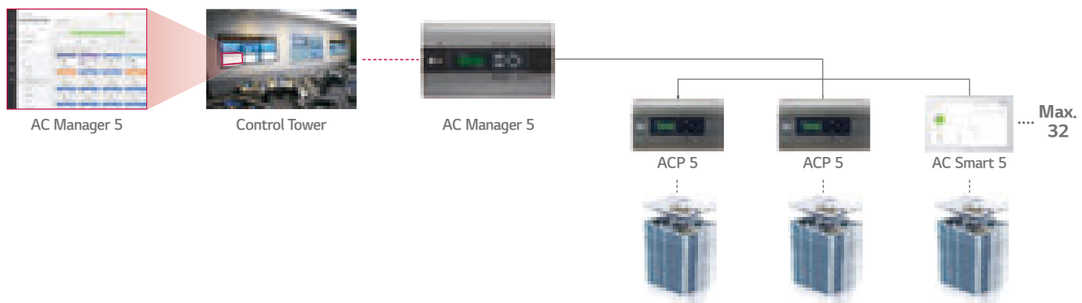
Advanced Network Accessibility & User Friendly GUI

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.





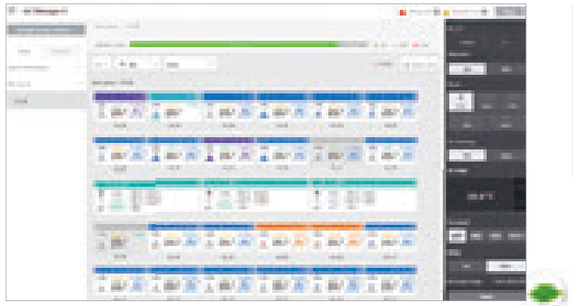
CENTRALIZED CONTROL

AC Manager 5

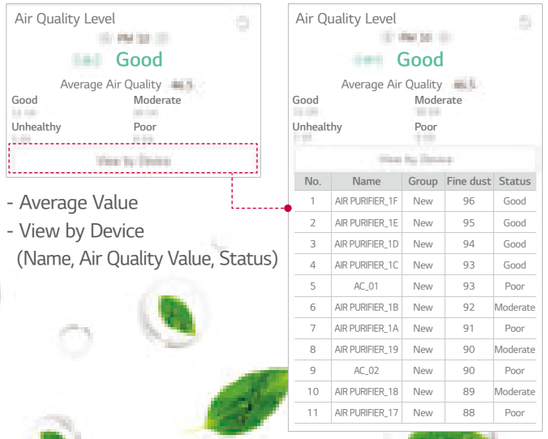
Smart Air Purify Solution

Total management of air purify function creates clean environment for everyday.

Air Quality Multi Status View



Air Quality Summary Widget



No.	Name	Group	Fine dust	Status
1	AIR PURIFIER_1F	New	96	Good
2	AIR PURIFIER_1E	New	95	Good
3	AIR PURIFIER_1D	New	94	Good
4	AIR PURIFIER_1C	New	93	Good
5	AC_01	New	93	Poor
6	AIR PURIFIER_1B	New	92	Moderate
7	AIR PURIFIER_1A	New	91	Poor
8	AIR PURIFIER_19	New	90	Moderate
9	AC_02	New	90	Poor
10	AIR PURIFIER_18	New	89	Moderate
11	AIR PURIFIER_17	New	88	Poor

- 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

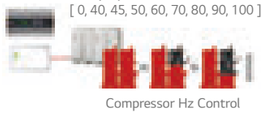
- Daily (per hour), period (30 days) shows trends
- Excel output / easy to manage

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

ODU Capacity Control



Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.

ACP LonWorks Gateway

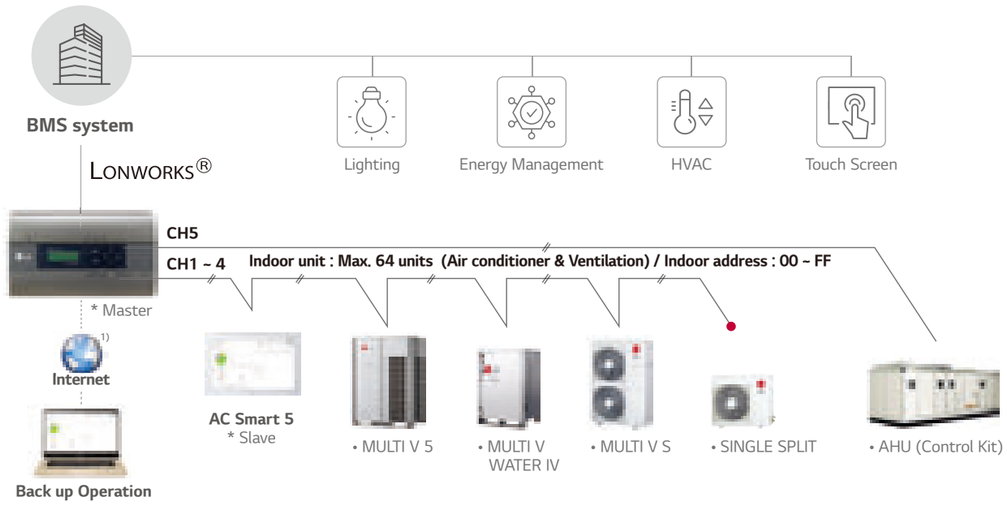
PLNWKB000

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.

- 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 In cluded) - 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



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).

CENTRALIZED CONTROL

Modbus RTU Gateway

PMBUSB00A

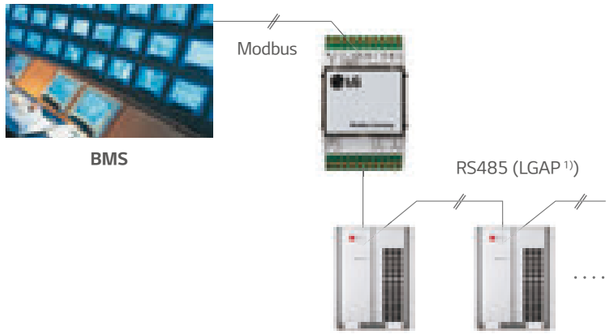
Providing Modbus RTU connection between LG Air conditioners and BMS

Function
- Modbus RTU communication with Modbus master controller
- Modbus RTU slave (RS485) / 9,600 bps
- Applicable for MULTI V 5, MULTI V S, 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

Installation Scene

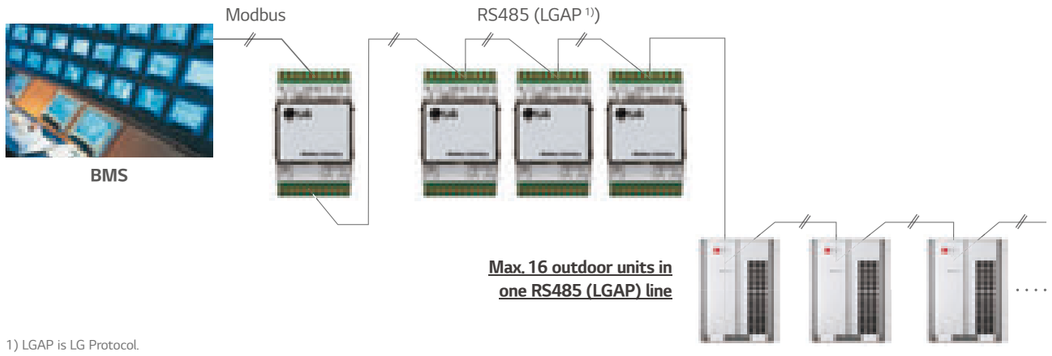
Single Module

Max. 16 indoor units with a single module



Multiple Module

Max. 64 indoor units with 4 modules in one Modbus communication line



1) LGAP is LG Protocol.

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	DX ERV	Hydro Kit		
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	Register = N X 16 + ① (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 1)	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 1)	Reserved	0 : UnLock / 1 : Lock	
6	Lock Fan Speed	Lock Fan Speed 1)	Reserved	0 : UnLock / 1 : Lock	
7	Lock Target Temp.	Lock Target Temp 1)	Reserved	0 : UnLock / 1 : Lock	
8	Lock IDU Address	Lock IDU Address 1)	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	DX ERV	Hydro Kit		
1	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
3	Filter Alarm	Filter Alarm 1)	Hot Water Only 2)	• 0 : Normal / 1 : Alarm Hydro Kit • 0 : Normal / 1 : Hot Water Only	
4	Reserved	Reserved	Target Temp. Select	0 : Air / 1 : Water	
5	Reserved	Reserved	Error Division 2)	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	DX ERV	Hydro Kit		
1	Operate Mode	Operate Mode	Connected IDU	• 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP • 0 : Cooling, 3 : Auto, 4 : Heating Hydro Kit (High Temp. DHW)	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Fan Speed	Fan Speed	Target Temp. DHW 2)	1 : Low, 2 : Mid, 3 : High, 4 : Auto	
3	Target Temp.	Target Temp 1)	Target Temp. 2)	16.0 ~ 30.0 [°C] x 10	
4	Target Temp. Limit (Upper)	Target Temp. Limit 1) (Upper)	Reserved	16.0 ~ 30.0 [°C] x 10	
5	Target Temp. Limit (Lower)	Target Temp. Limit 1) (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	DX ERV	Hydro Kit		
1	Error Code	Error Code	Error Code	0 ~ 255 ※ Please refer to the product error table.	Register = N X 20 + ① (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 1)	Water Inlet Temp.	-99.0 ~ 99.0 [°C] x 10	
4	Pipe Out Temp.	SA Temp 1)	Water Outlet Temp.	-99.0 ~ 99.0 [°C] x 10	
5	Reserved	Pipe In Temp. 1)	Sanitary Tank Temp.	-99.0 ~ 99.0 [°C] x 10	
6	Reserved	Pipe Out Temp. 1)	Solar Temp. 2)	-99.0 ~ 99.0 [°C] x 10	

1) This register value is applied 'DX Ventilator' ONLY.
2) This register value is applied 'AWHP' ONLY.

CENTRALIZED CONTROL

Cloud Gateway

PWFMDB200

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

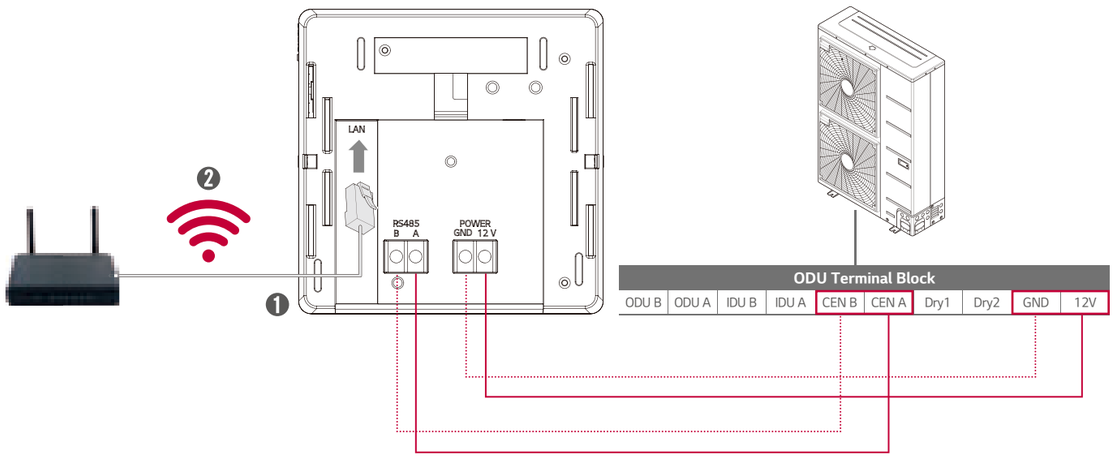
Model Name	PWFMDB200
Size (W x H x D, mm)	120 x 120 x 29
Interfaceable Products	System Air Conditioner [3]
Connection Type	Outdoor unit 1: x
Ethernet	10 / 100 Mbps
Wireless Standards	2.4 GHz, IEEE 802.11b / g / n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)

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.

- User can enjoy anytime, anywhere access with Ethernet, 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 (LG ThinQ) is available.
- Simple operation for various functions.
  - On / Off
  - Operation Mode
  - Current / Set Temperature
  - Fan Speed
  - Vane Control [1]
  - Schedule (Sleep, Weekly On / Off)
  - Energy Monitoring [2]
  - Error Check
  - Air Purify [3]

Installation Scene

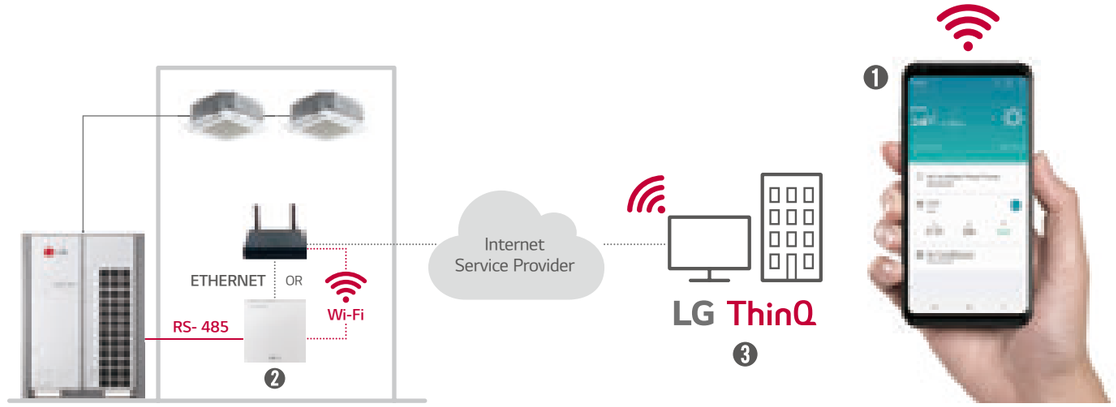
Option
❶ Ethernet ❷ Wi-Fi



LG ThinQ Connectivity

Connection (Pairing) Order
❶ Make LG account on LG ThinQ (Application) and login.
❷ Select the installed product and set AP (Access Point) mode by pushing button for 3 seconds
❸ Product registration progress is completed.

※ 5GHz networks may not be supported.



LG ThinQ Mobile App

Simple operation for various functions

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

<Day>

<Night>

Air Purify

Easy Management

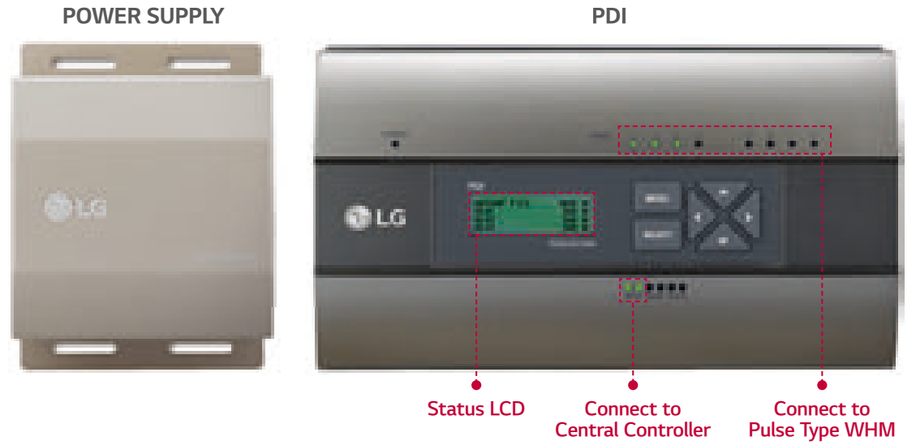
Schedule

Energy Monitoring

Smart Diagnosis

INTEGRATION DEVICE

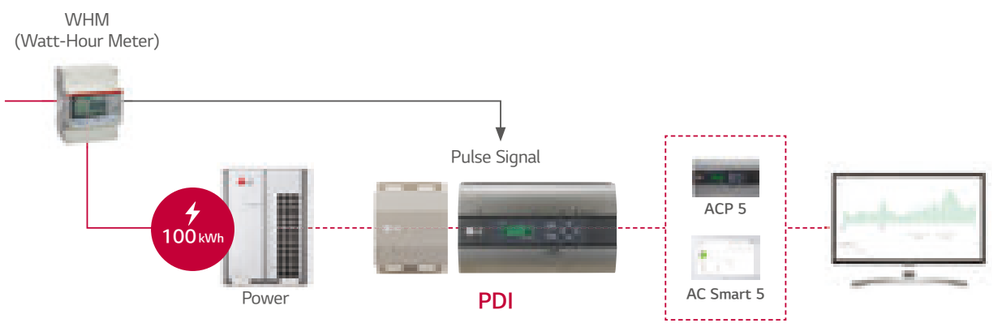
PDI (Power Distribution Indicator)



Max. 128 IDU control | Enables EHP / Gas Consumption | Energy Monitoring | Multi Level Grouping

PDI shows distributed power consumption of up to 128 indoor units.
Enables total and indoor power consumption monitoring

- Total and indoor power consumption monitoring is possible.
- When connected to the LG central controller, it is possible to expand functions such as energy monitoring, energy saving operation and target usage setting.
- It is also possible to distribute gas consumption in addition to electricity.



INTEGRATION DEVICE

PDI (Power Distribution Indicator)

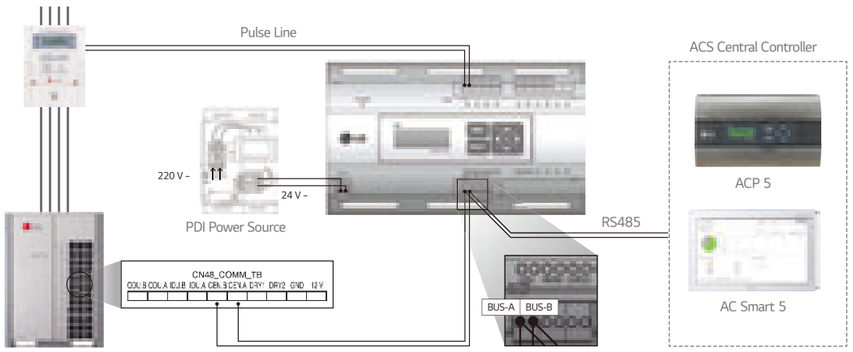
PQNUD1S40 (Premium, 8 ports) / PPWRDB000 (Standard, 2 ports)

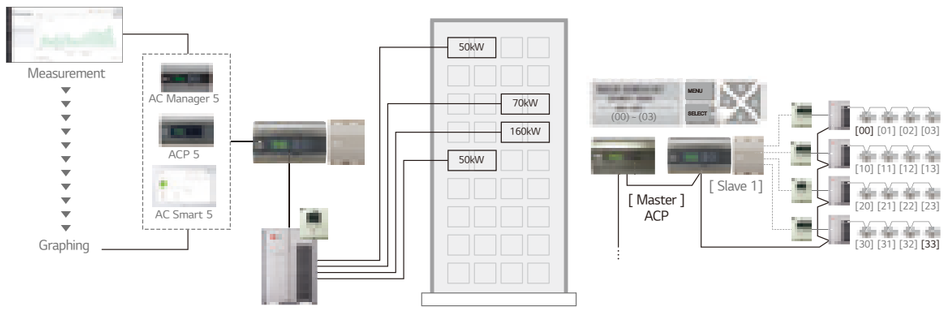
PDI shows distributed power consumption of up to 128 indoor units.

- 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	
Maximum Number of Power Meters	EHP : 8 Watt meter GHP : 4 Watt meter / 4 Gas meter	EHP : 2 Watt meter GHP : 1 Watt meter / 1 Gas meter
Maximum Number of Indoor Units	Multi V : 128	
Data Back up When Power Outage	○	
Power Input	PDI : AC 24V, Transformer : AC 220V	

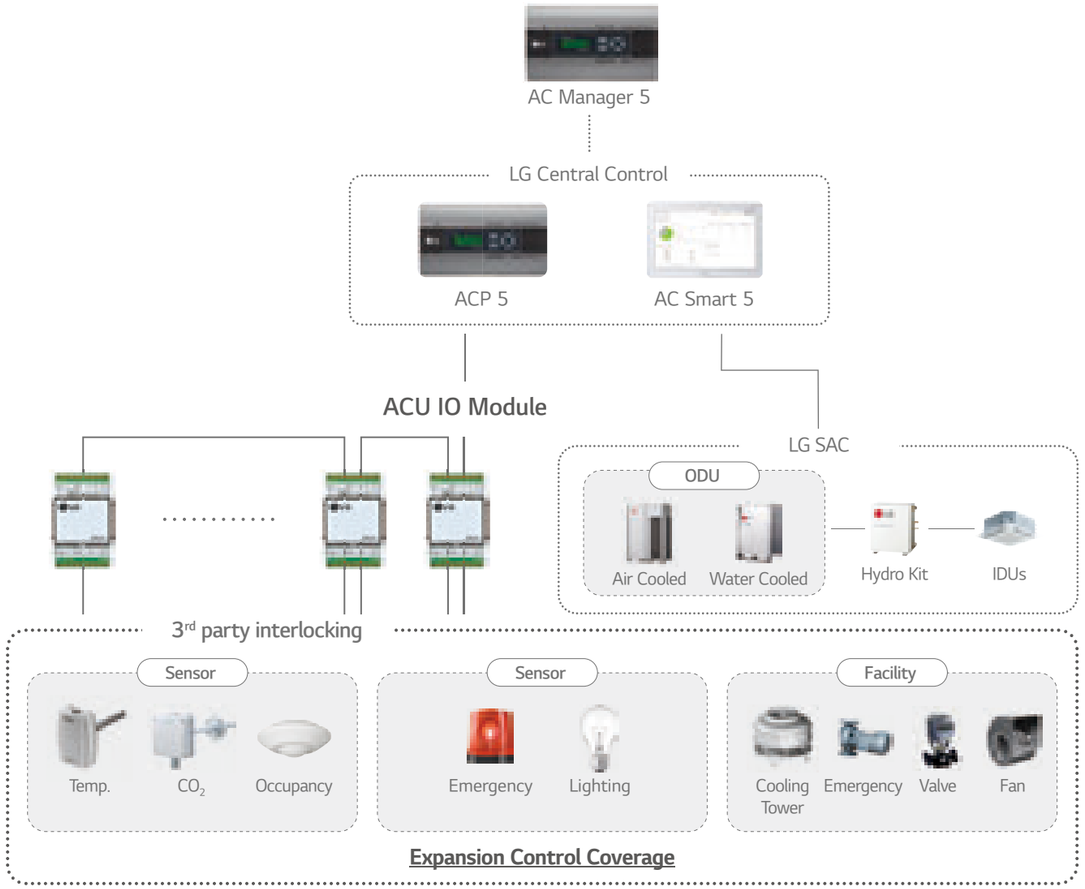
※ ○ : Applied, - : Not Applied





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)

ACU IO Module

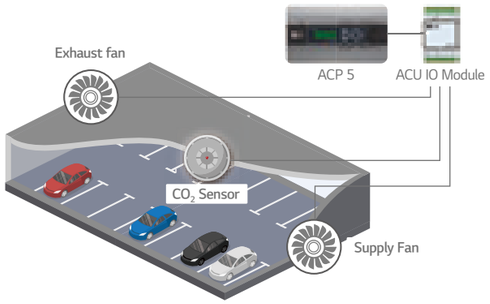


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output / Please contact our regional office to have connectable relay specification for analog output

Case. 1

Parking Lot Ventilation

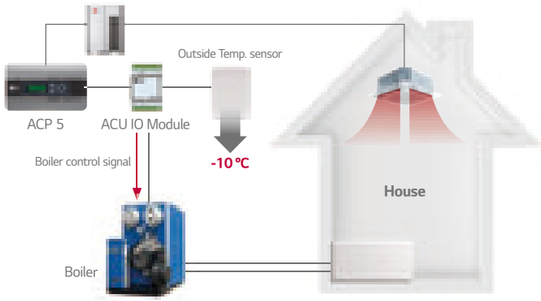
Turning on ventilator when CO_2 Level is high



Case. 2

Auxiliary Heater

Turning on aux. heater when outside temp. is very low



INTEGRATION DEVICE

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 3rd party devices control and monitoring are needed.

ACU.UIO
PEXPMB300

ACU.UO
PEXPMB200

ACU.UI
PEXPMB100

- Interlocking with 3rd party equipment LG Central controller can make operation scenario with 3rd party equipment by ACU IO Module.
- Applicable devices are expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ···)

Module Name	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PACS5A000, PACP5A000		
Communication RS-485	2 ch 1)	1 ch	1 ch
Digital Input	-	-	3 ports
Digital Output	2 ports	6 ports	-
Universal Input 2)	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) 1 ch is reserved for internal communication.
2) 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.

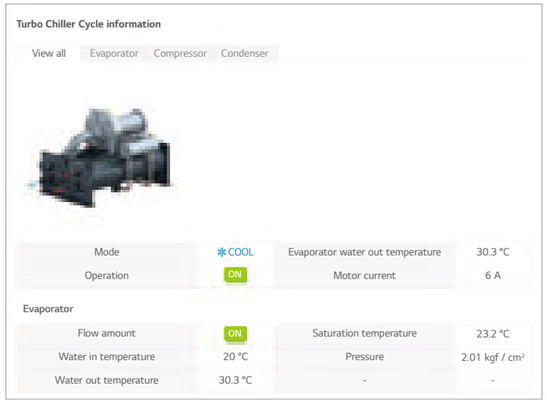
Model Name	PCHLLN000
Monitoring Points	Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) / Condenser status / Generator status (Abs. chiller only)
On / Off	○
Target Temp. setting	○
Mode	Scroll chiller only
Schedule	○
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (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 back up SD Card is inserted, replace it with a Chiller Option Kit SD Card.

Cycle Display Example

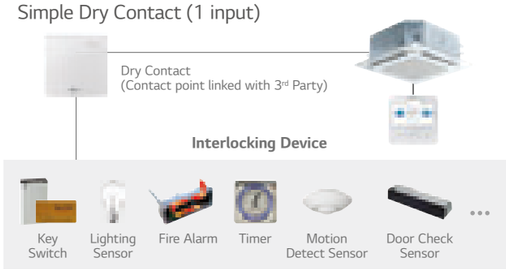


INTEGRATION DEVICE

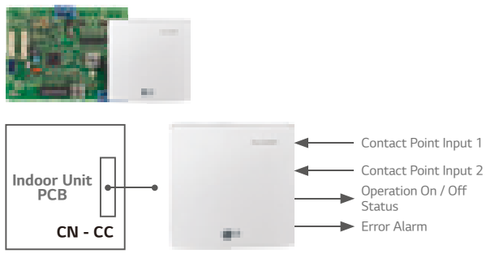
Dry Contact

PDRYCB000

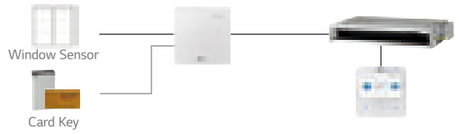
Simple Dry Contact (1 input)



PDRYCB400



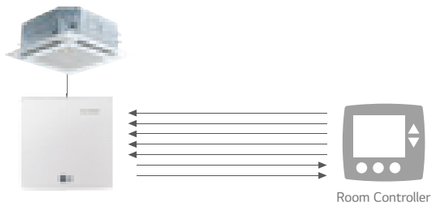
Dry Contact for 2 Input



Refrigerant Leakage Detection Alarm

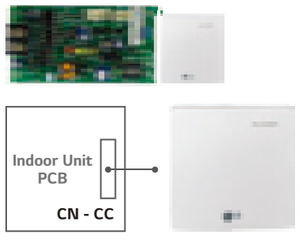
PDRYCB320

Dry Contact for Thermostat

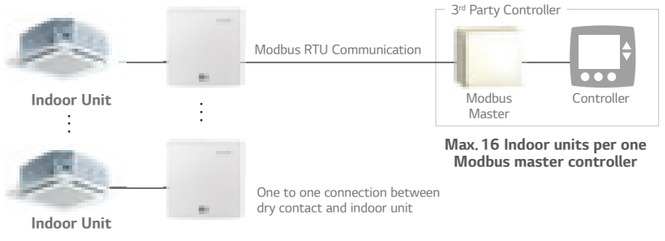


* Available only for PDRYCB320.

PDRYCB500



Dry Contact for Modbus



※ Please contact our regional office to check the compatibility with 3rd party room controller.

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		
Control	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)	-	-
	Heating	On / Off	○	-	○	-
		DHW On / Off	-	-	○	-
		Thermo-Off	-	-	○	-
		Operation Mode	-	-	○	-
		Silent Mode	-	-	○	-
		Emergency Mode	-	-	○	-
Output		Operation Status	○	○	○	○
		Error	○	○	○	○
		Room Temp.	-	-	-	○

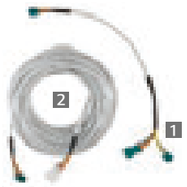
※ ○ : Applied, - : Not Applied,
1. (Select & Fix) : This function is preset by rotary switch.

INTEGRATION DEVICE

Group Control Wire

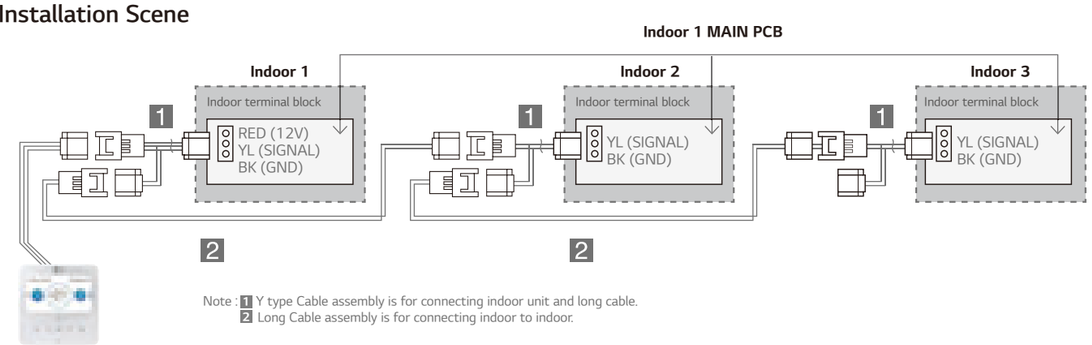
PZCWRCG3

Cables used to connect a wired remote controller up to 16 indoor units.



Model Name	PZCWRCG3
1 Y-type Cable	0.25m Length
2 Long Cable	9.6m Length

Installation Scene

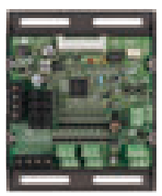


Note : 1 Y type Cable assembly is for connecting indoor unit and long cable.
2 Long Cable assembly is for connecting indoor to indoor.

IO Module

PVDSMN000

Interface module between the outdoor unit of system air conditioner and the external device.



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.

Note : IO Module is not compatible for MULTI V III.

Models Applied

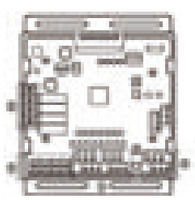
- MULTI V 5
- MULTI V S
- MULTI V WATER IV

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)

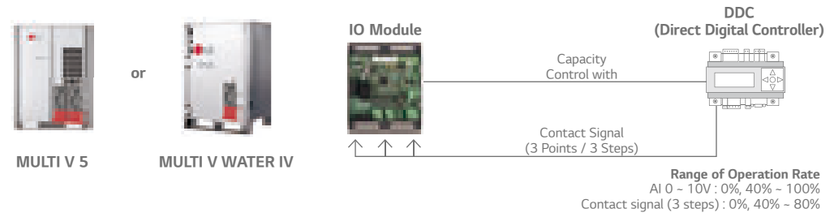
3) Digital Output Part (DO : AC 250V, Max. 1A)
   - Error status relay output
   - Operation status relay output
   - Valve control



IO Module

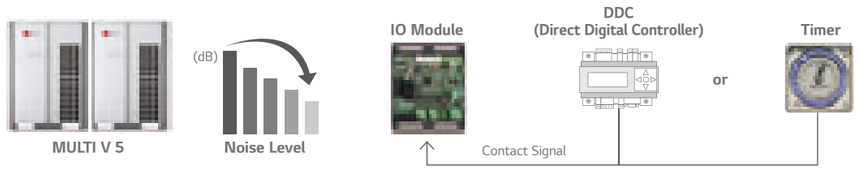
ODU Capacity Control

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)



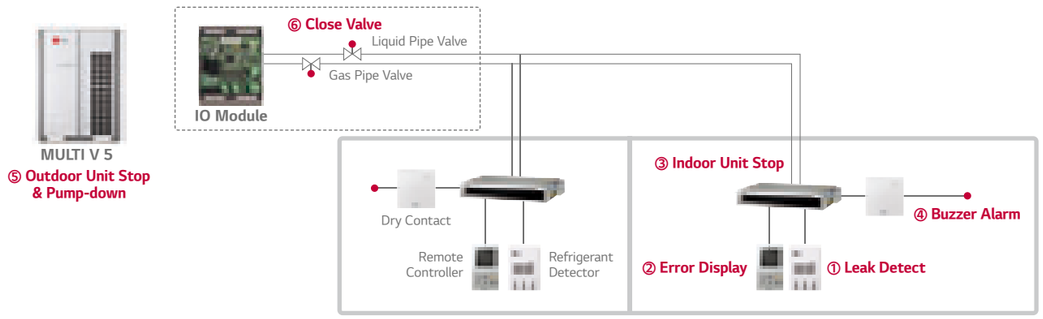
Low Noise Operation

To reduce noise level, control outdoor unit's fan speed by dry contact input.



Refrigerant Leakage Detection with Pump-down

For safety, IO module closes refrigerant valve when Pump-down operation.



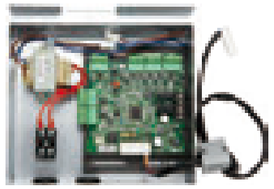
※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated.
(Refer to operation sequence which written in red, 1~6)

INTEGRATION DEVICE

Variable Water Flow Control Kit

PWFCKN000 (MULTI V WATER IV)

Accessory for controlling the water flow.



Function

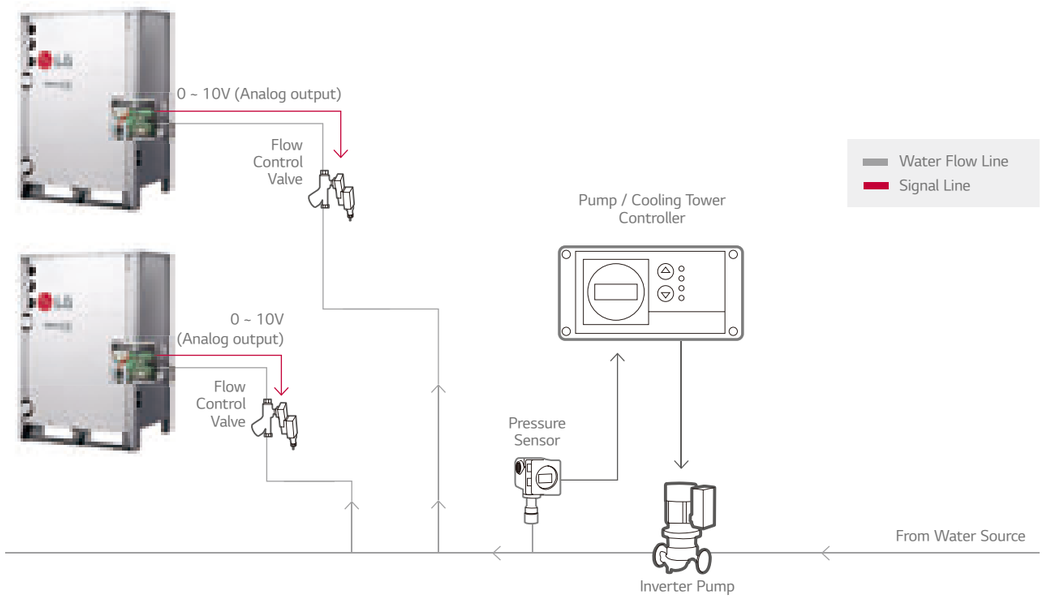
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

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.



Cool / Heat Selector

PRDSBM

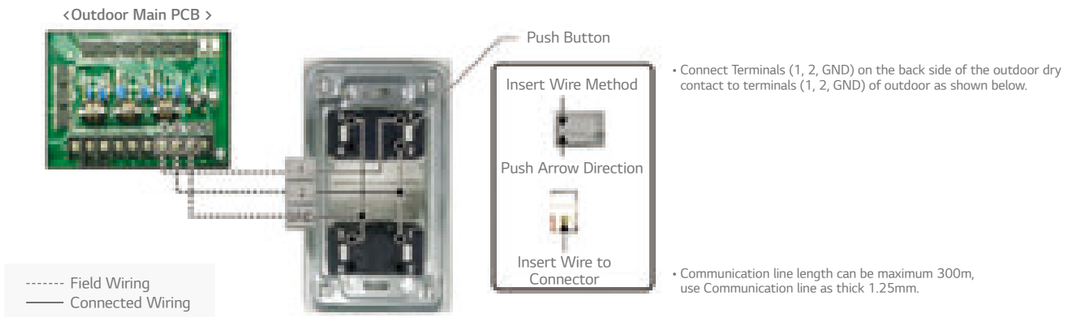
Cooling only, heating only, and fan mode can be selected.

- 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 S
- MULTI V WATER IV

Installation Scene



- Connect Terminals (1, 2, GND) on the back side of the outdoor dry contact to terminals (1, 2, GND) of outdoor as shown below.
- Communication line length can be maximum 300m, use Communication line as thick 1.25mm.

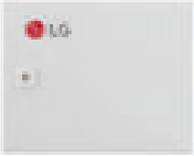
INTEGRATION DEVICE

AHU Kits

A solution to connect LG's high efficiency system to the DX coil of an air handling unit for the maximum energy savings.

COMMUNICATION KIT

PAHCMR000



PAHCMS000

CONTROL KIT

PAHCNM000

EEV KIT

PRLK048A0
PRLK096A0

PRLK396A0

PRLK594A0

Specifications

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
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

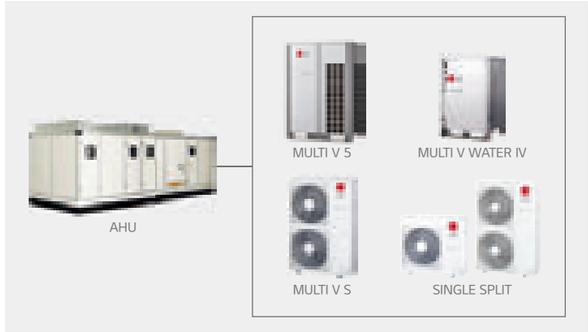
Communication Kit

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 IV, MULTI V S, SINGLE SPLIT

1) Maximum connectable EEV capacity for PAHCMR000, PAHCMC000 is 112 kW.

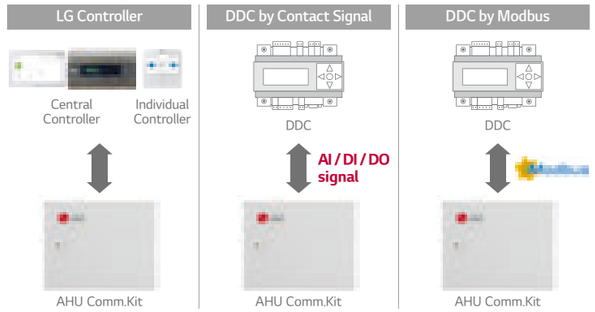


Diverse Options for Control

AHU communication kit can be connected to various control systems such as LG individual / central controller and DDC [1)].
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

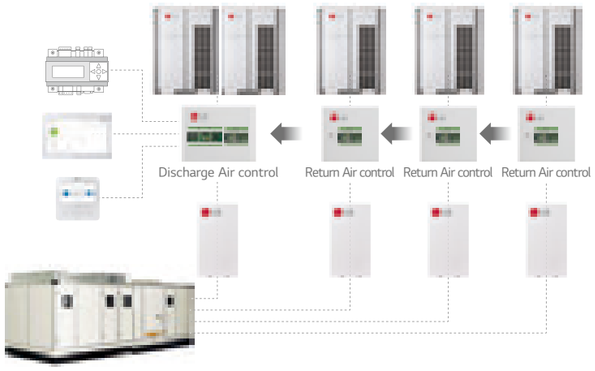
1) DDC : Direct Digital Controller



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



INTEGRATION DEVICE

AHU Kits

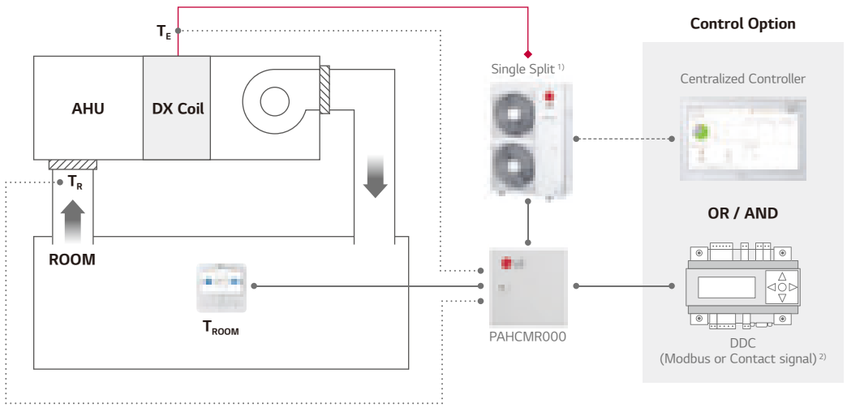
Communication Kit & Controller Module

Single Split Application (Communication Kit & Controller Module)

Single Split + Return / Room Air Temperature Control

- Temp. Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe

T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



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.

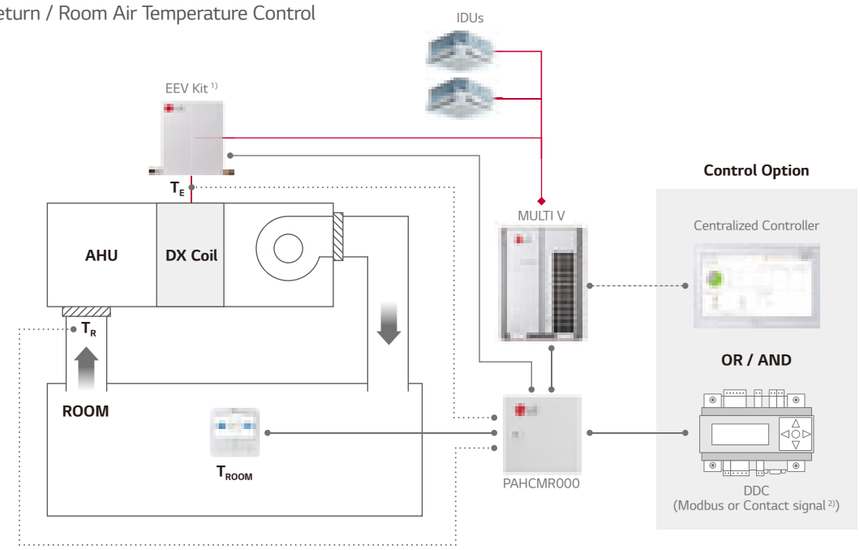
Communication Kit & Controller Module

MULTI V Application

MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control

- Temp. Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe

T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



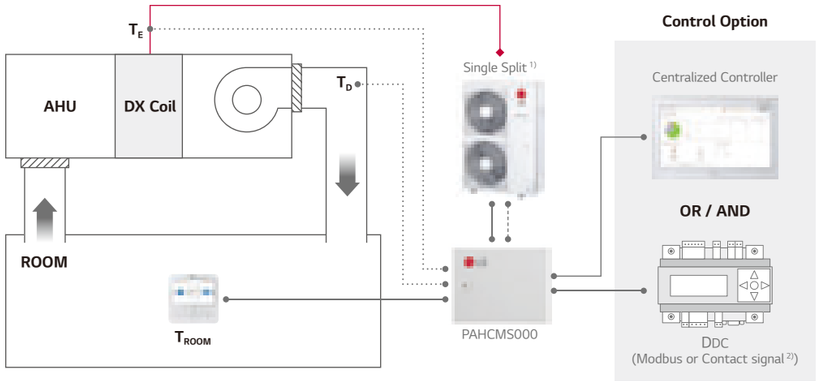
1) Multiple EEV kits can be applicable with multiple DX Coils and PAHCMR000s.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
Note : For more detail, please refer to the PDB.

Single Split Application

Single Split + Discharge Air Temperature Control

- Temp. Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe

T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_D = Discharge Air Temperature
T_{ROOM} = Room Air Temperature



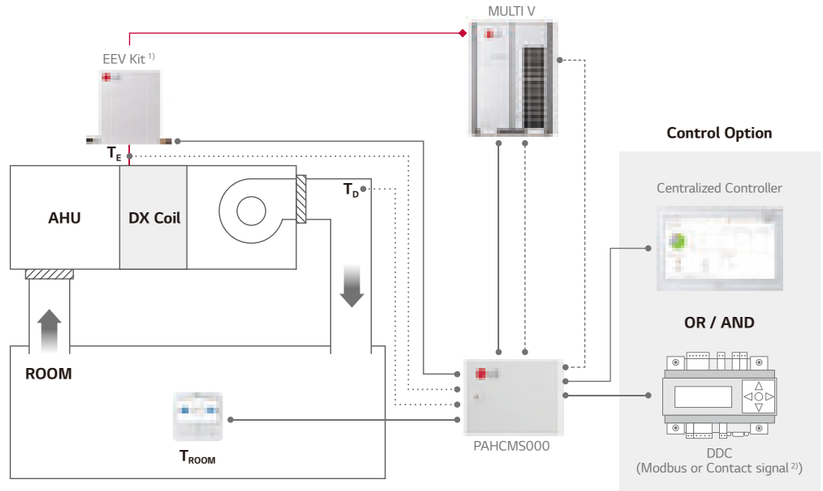
1) PI485 (PMNFP14A1) is required for centralized controller.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
Note : For more detail, please refer to the PDB.

MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control

- Temp. Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe
- Comm. Line between modules

T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_D = Discharge Air Temperature
T_{ROOM} = Room Air Temperature



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.

INTEGRATION DEVICE

AHU Kits

Communication Kit Function

Communication with DDC via Contact Signal

Function List		PAHCMR000	PAHCMS000	Type	Note
Control [1]	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 [2]	16 ~ 30 °C	-	Analog Input (DC 0 ~ 10 V / 20 mA)	-
	Discharge Air Temperature [2]	-	-	-	Discharge air temperature should be controller directly by DDC using ODU Capacity Control
	Fan Speed [3]	-	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 / 20 mA)	-
	Emergency Stop	-	Stop / Normal	Digital Input (Non Voltage)	-
Monitor	Operation	On / Off	On / Off	Digital Output (Max. : DC 30 V / 1 A, AC 250 V / 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 250 V / 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 250 V / 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 250 V / 1 A)	
	Compressor On / Off	-	On / Off	Digital Output, (Max. : DC 30 V / 1 A, AC 250 V / 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	PAHCMS000	Note
Control [1]	Operation On / Off	On / Off	On / Off	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
	Return (Room) Air Temperature	16 ~ 30 °C	-	
	Discharge Air Temperature [2]	-	○	Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C Standard III [4] : 12 ~ 50 °C
	Fan Speed [3]	High / Middle / Low	-	
	Forced Thermal On / Off	-	-	
	ODU Capacity Control [2]	-	10 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
	Emergency Stop	-	-	
Monitor	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.

Communication Kit Function

With LG Control System (Individual & Centralized Controller)

Function List		PAHCMR000	PAHCMS000	Note
Control [1]	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 [2]	16 ~ 30 °C	-	-
	Discharge Air Temperature [2]	-	○	Standard II : 16 ~ 30 °C Standard III [4] : 12 ~ 50 °C Central Controllers : 12 ~ 50 °C
	Fan Speed [3]	High / Mid / Low	High / Mid / Low	To control the AHU fan, dip switch 1-3 'DO type' should be set 'On (Fan Speed)' (PAHCMR000)
Monitor	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 Standard III [4] : 0 ~ 100.0 °C 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
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 setting temperature is different depending on the type of the controllers. And operation may different from setting range.
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 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 [1]	ACP LonWorks	Premium Standard
Model no.	PREMTA000	PREMTB100	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PACM5A000	PLNWKB000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○	○
PAHCMS000	-	○ [2]	○	-	-	○	○	○	-	-

※ ○ : Applied, - : Not Applied
1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
2) Set temperature range of this model shall be extended April, 2020.
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.

INTEGRATION DEVICE

AHU Kits

Outdoor Unit Compatibility

For Small Size Application (~ 15 kW) - Single Split

Type	Model	UUA1 (2.5 ~ 5.0 kW) 1)	UUB1 (5.0 ~ 8.0 kW) 1)	UUC1 (7.1 ~ 10.0 kW) 1)	UUD1 / UUD3 (10.0 ~ 15.0 kW) 1)
Communication Kit (Controller Module)	PAHCMR000	-	○	○	○
	PAHCMS000	-	○	○	○
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
Communication Kit (Controller Module)	PAHCMR000	○	○	○	○	○
	PAHCMS000	○	○	○	○	○
Control Kit	PAHCNM000	○	○	○	○	○

EEV Kit Compatibility

EEV Kit Model	Capacity index (kW / HP)		AHU Application Kits (Maximum connectable EEV Kits)			Connection by ODU system	
	Min.	Max.	PAHCMR000	PAHCMS000	PAHCNM000	MULTI V (Heat Pump)	Single Split
PRLK048A0	3.6 / 2	28 / 10	○ (1)	○ (1)	○ (6)	○	-
PRLK096A0	28.1 / 10	56 / 20	○ (1)	○ (1)	○ (6)	○	-
PRLK396A0	56.1 / 20	112 / 40	○ (1)	○ (1)	○ (6)	○	-
PRLK594A0	112.1 / 40	168 / 60	-	○ (1)	○ (3)	○	-

※ O : Applied, - : Not applied

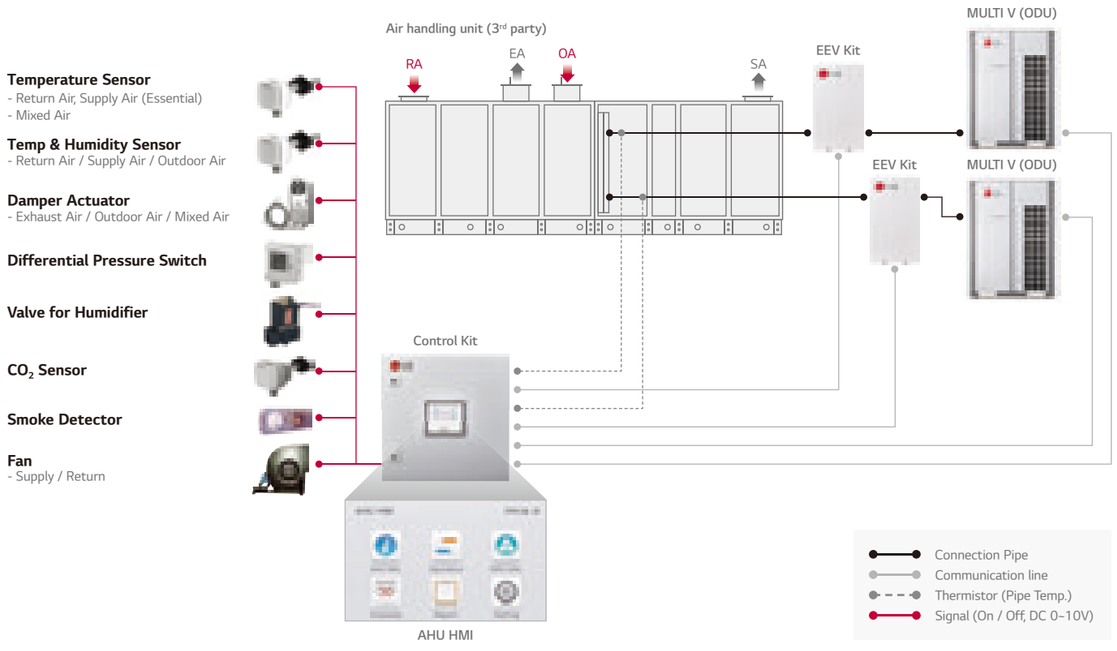
Note : 1. Table of the outdoor unit compatibility is based on European regional model.
2. When connecting outdoor units in other areas, please check whether they are compatible or not.
3. Expansion application kit compatibility is based on capacity index of the system, it may changed according to system design condition.

Control Kit

Field Supplied Item

List	Required Specification	Apply Location
Temperature / Humidity Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Temperature range : -40 °C ~ 70 °C - Humidity range : 0 ~ 95 % RH	Supply air duct, Return air duct, Outdoor air duct
Temperature Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Temperature range : -50 °C ~ 50 °C	Supply air duct, Return air duct, Mixed air duct
Damper Actuator	- Power : AC 24 V - Input / output signal : DC 0 ~ 10 V - Torque : 15 N·m - Operation time : 150 s - Rotation Angle : 90°	Outdoor air damper, Exhaust air damper, Mixed damper
Filter Differential Pressure Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range: 0 ~ 1,000 Pa	Filter
	- Switch type : Relay open / close	
Static Pressure Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 1,000 Pa	Supply air duct
CO_2 Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 2,000 ppm	Return air duct
Smoke Detector	- Power : AC 24 V - Type : Contact	Return air duct

Various Control with Control Kit – Multiple MULTI V + EEV Kits



HOTEL APPLICATION

Hotel Control Solution

Guest Rooms

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

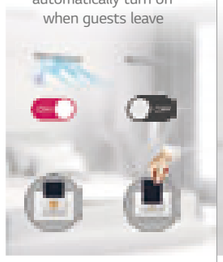
Public Areas

Centralized management of the public areas

Design Proposal

Guest Room

The air conditioner automatically turn off when guests leave



PDRYCB400
2 contact point

Input
- Operation On / Off

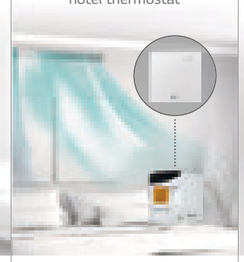
Output
- Operation On / Off status
- Error alarm

Integrated control of air conditioner with the hotel room controller

PDRYCB500
Modbus RTU (9,600bps)

Function
- Operation
- Indoor temperature
- Error alarm
- Set run mode
- Set temperature
- Set fan speed

Control with existing hotel thermostat



PDRYCB320
8 contact point

Input
- Universal Input
- Operation On / Off
- Thermo On / Off
- Operation mode (Fan / Heat / Cool)
- Fan speed (Low / Middle / High)

Output
- Operation On / Off status
- Error alarm

Guest safety is the first priority

PRLDNVS0
Refrigerant leakage detector

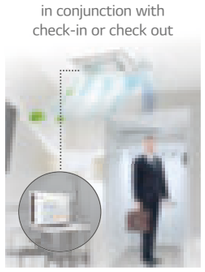
- 6,000ppm

PREMTB100
Wired remote controller

- 4.3 inch color LCD
- Touch button

Reception / Public Areas

Air conditioner control in conjunction with check-in or check out



PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)

PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

SHOPPING MALL APPLICATION

Shopping Mall Control Solution

Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alert

Maintenance Office

Reduces energy by checking operational trends

Atrium

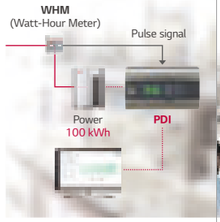
Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

Design Proposal

Retail

Rationally distribute and manage power consumption by the tenant



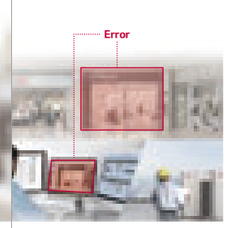
PPWRDB000
PDI Standard (2 port)

- Max. 128 IDU

PQNUD1S40
PDI Premium (8 port)

- Max. 128 IDU

Fast problem detection and alarms



PACS5A000
AC Smart 5

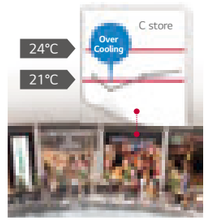
- BMS Integration (BACnet IP, Modbus TCP)

PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

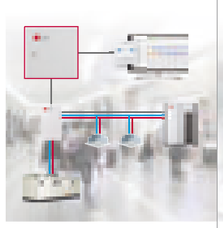
Maintenance Office

Reduces energy by checking operational trends



Atrium

Integrated management of AHU applied to large spaces



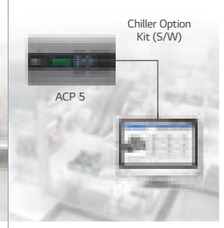
PAHCMR000
AHU Comm. Kit

- Return air

PAHCMS000
AHU Comm. Kit

- Discharge air

Chiller and VRF integrated control



PCHLLN000
Chiller Option Kit

+

PACP5A000
ACP 5

PACS5A000
AC Smart 5

HOSPITAL APPLICATION

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

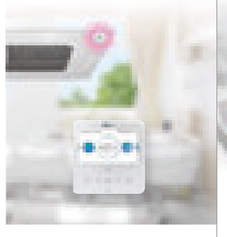
Lobby

Centralized management of AHU for large spaces

Design Proposal

Hospital Ward

Proper airflow management for patients

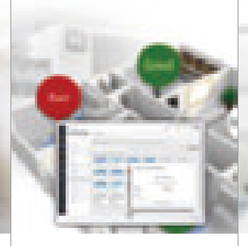


PTVSMA0
Human detection sensor

PREMTB100
Wired remote controller

- 4.3 inch color LCD
- Touch button

Monitor the comfort level for each hospital ward



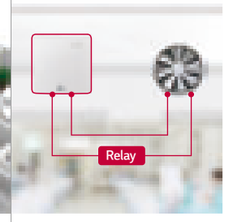
PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)

PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

External device interlock control



PDRYCB400
2 contact point

Input

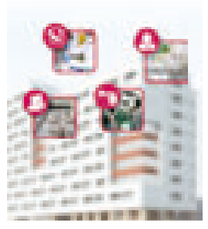
- Operation On / Off

Output

- Operation On / Off status
- Error alarm

Service Zone

Energy savings based on flexible scheduling



PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)

PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

Lobby

Centralized management of AHU for large space

PAHCMR000
AHU Comm. Kit

- Return air

PAHCMS000
AHU Comm. Kit

- Discharge air

EDUCATION APPLICATION

Education 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

Automatically save energy in the absence of students

PTVSMA0
Human detection sensor

PREMTB100
Wired remote controller

- 4.3 inch color LCD
- Touch button

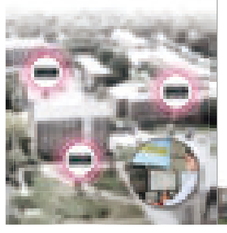
Central controls prevent students from arbitrary control

Lecture Room

Schedule management according to academic plan

Maintenance Office

Integrated management of distributed buildings



Centralized management with multiple interfaces

PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)

PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

+

PACM5A000
AC Manager 5

OFFICE APPLICATION

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

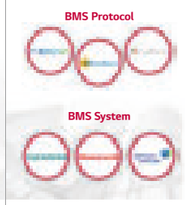
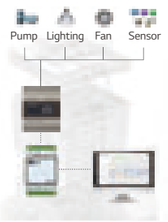
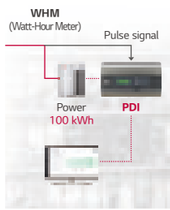
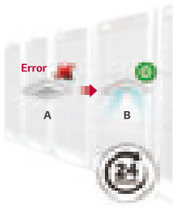
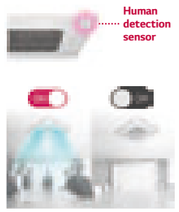
Server Room

24-hour back up management

Meeting Room

Energy savings based on occupancy detection

Design Proposal

Maintenance Office			Office Room	Server Room	Meeting Room
Energy savings and management throughout the building	Integrated management of HVAC with BMS system	Reduce costs by replacing BMS	Reasonable power distribution to tenants	Main equipment 24 hours back up management	Energy savings based on occupancy detection
					
PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PLNWKB000** LonWorks gateway	**PEXPM300** **PEXPM200** **PEXPM100** ACU IO Module	**PPWRDB000** PDI Standard (2 port) • Max. 128 IDU	**PACS5A000** AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PTVSMA0** Human detection sensor
PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PMBUSB00A** Modbus RTU gateway		**PQNUD1S40** PDI Premium (8 port) • Max. 128 IDU	**PACP5A000** ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PREMTB100** Wired remote controller • 4.3 inch color LCD • Touch button

RESIDENTIAL APPLICATION

Residential Control Solution

Home

Anytime, anywhere air conditioner control and access

Integrate systems for smart connectivity throughout

Bed Room

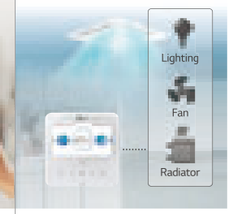
Use a familiar residential thermostat

Simple interlocking control by remote control

Apartment / Residence

Stable system operation.

Design Proposal

Home	Living Room	Bed Room		Apartment
Control your home air conditioner anytime, anywhere	Build a smart house	Use a familiar residential thermostat	Simple interlocking control by remote control	Stable system operation when indoor unit power is lost
				
PWFMDD200 LG Wi-Fi modem **Function** • On / Off • Fan speed • Operation mode • Vane control • Reservation (Sleep, Weekly On / Off) • Error check	**PDRYCB500** Modbus RTU (9,600bps) **Function** • Operation • Indoor temperature • Error alarm • Set operation mode • Set temperature • Set fan speed	**PDRYCB320** 8 contact point **Input** • Universal Input • Operation On / Off • Thermo On / Off • Operation mode (Fan / Heat / Cool) • Fan speed (Low / Middle / High) **Output** • Operation On / Off status • Error alarm	**PREMTB100** Wired remote controller • 4.3 inch color LCD • Touch button	**PRIP0** Independent power module • EEV full close function

ACCESSORIES

• MECHANICAL ACCESSORIES

• PIPING ACCESSORIES

MECHANICAL ACCESSORIES

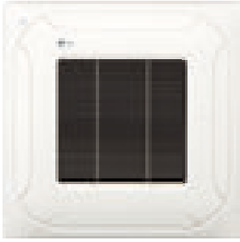
Cassette Panel

Key Features

Stylish designed panels make more unique space by various applications.

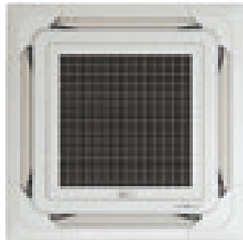
4 Way Cassette Panel (570 x 570)

PT-UQC

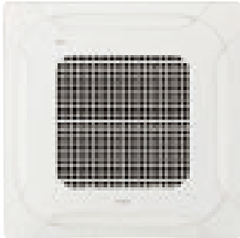


NEW PT-QCHW0

4 Way Cassette Panel (840 x 840)



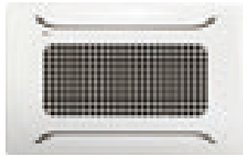
PT-UMC2



NEW PT-MCGW0
(For Human Detection)

NEW PT-MPGW0
(For Human Detection,
For Air Purification)

2 Way Cassette Panel



PT-USC

1 Way Cassette Panel (860 x 450)

NEW PT-UAHW0

NEW PT-UAHG0
(Glossy, For Air Purification)

1 Way Cassette Panel (1,180 x 450)

NEW PT-TAHW0

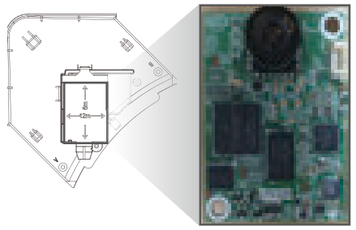
NEW PT-TAHG0
(Glossy, For Air Purification)

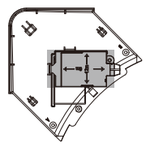
- Independent vane operation uses separate motors, making it possible to control all 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.
- Air purification kit and Human detection kit needs to be purchased additionally.

Human Detection Kit

Key Features

Human Detection Kit ensures energy saving and controls wind direction.





90-degree Rotated
Installation Position

- 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

Model Name

PTVSMA0

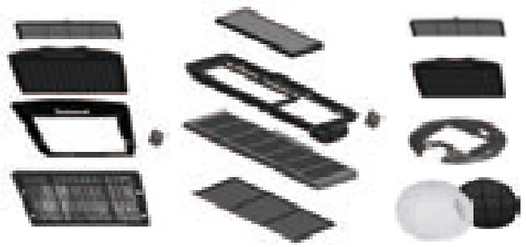
Applied Products

PT-MCGW0 (For 4 Way Panel, 840 x 840)
PT-MPGW0 (For 4 Way Panel, 840 x 840)

Air Purification Kit

Key Features

Air Purification kit removes invisible PM1.0, odor and germs to ensure a clean and healthy indoor environment.



PTAHMP0 PTAHTP0 PTAHYP0

- PM1.0 sensor detects dust density of three sizes. (PM1.0, PM2.5, PM10)
- It is possible to check the air quality level by standard III remote controller.

PREMTB100

Model Name

PTAHMP0 (For 4 Way Cassette, 840 x 840)
PTAHTP0 (For 1 Way Cassette)
PTAHYP0 (For Round CST)

Applied Products

PT-MPGW0 (4 Way Panel, 840 x 840)
PT-UPHG0 (1 Way Panel, 860 x 450)
PT-TPHG0 (1 Way Panel, 1,180 x 450)

Air Purification Kit Maintenance

Components	Period / Washing Method
Deodorization Filter	6 months / Dry
PM1.0 Filter	6 months / Washable
Pre-filter	Washable
PM1.0 Sensor	-

MECHANICAL ACCESSORIES

Refrigerant Leakage Detector

Key Features

R410A refrigerant leakage detector makes our space safer.

- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm.
  (The green and red LED lights blink simultaneously)
- Alarm is "ON" over 6,000ppm has been maintained 5 seconds, and Alarm is "OFF" under 6,000ppm has been maintained 5 seconds.
- 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.

Model Name

PRLDNVS0

Applied Products

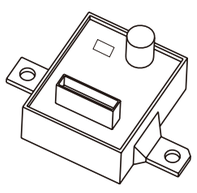
MULTI V 5
MULTI V IV
MULTI V WATER IV

Specification

Parts	Specifications	
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 (°C)	-10 ~ 50
	Preserved temperature range (°C)	-40 ~ 60
	Average power consumption (mA)	35
Connecting Cable	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

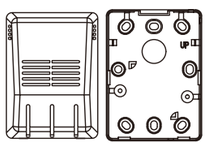
※ This function available for MULTI V 5, MULTI V IV model.

Included Parts



Sensor

Connecting Cable

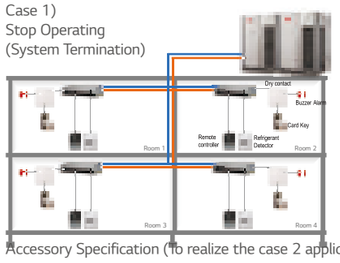


Sensor Protective Cover

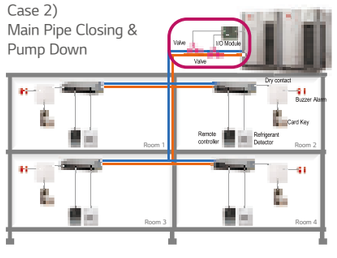
Key Application

Refrigerant Leakage Detector has three application methods.

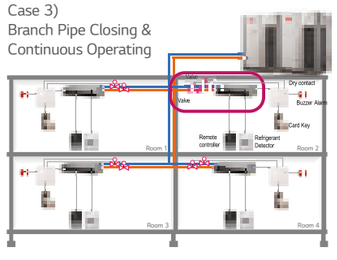
Case 1)
Stop Operating
(System Termination)



Case 2)
Main Pipe Closing &
Pump Down



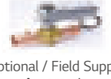
Case 3)
Branch Pipe Closing &
Continuous Operating



Accessory Specification (To realize the case 2 application)

I/O Module
PVDSMN000

PRLDNVS0
(Refrigerant leak detector)



[Optional / Field Supply]
Automatic
Ball Valve[1)]

PDRYCB400
(Dry contact)

[Optional / Field Supply]
Buzzer alarm
for central control room
(Direct connection ~ DC 30V, ~ 1A)

[Field Supply]
Buzzer alarm for room

Central Control Devices

IR Receiver

Key Features

IR Receiver can be connected to ceiling concealed duct and floor standing unit which the customer wants to control by wireless remote controller.

- Designed for wireless control.
- Indication lamps (3 colors) and Self-diagnosis function.

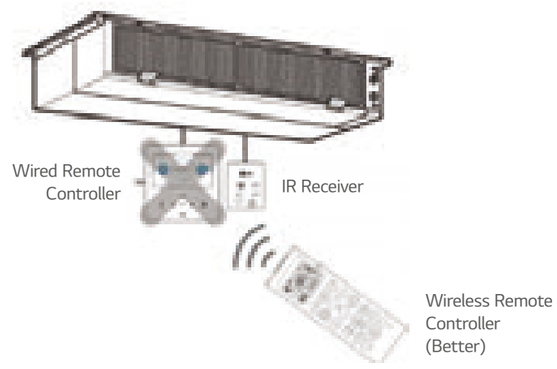
Model Name

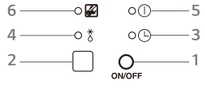
PWLRVN000

Applied Products

MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Application

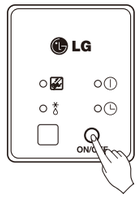




Signal Receiver

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.

Note : Do not install both the IR Receiver and Wired Remote Controller.
This may cause malfunctions.

MECHANICAL ACCESSORIES

Independent Power Module

Key Features

EEV fully close function in case of power cut.

• Independent Power Module is specially designed to close the Indoor EEV when power cut-off.
 - Supply Voltage : DC 12V ± 50%

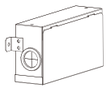
Model Name

PRIP0

Applied Products

MULTI V Indoor Units

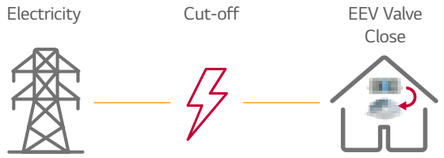
Included Parts

Model	PRIP0		
Item	Independent Power Kit	Screw	Clamp (Tie Wrap)
Q'ty	1	2	4
Figure		M4 x10	

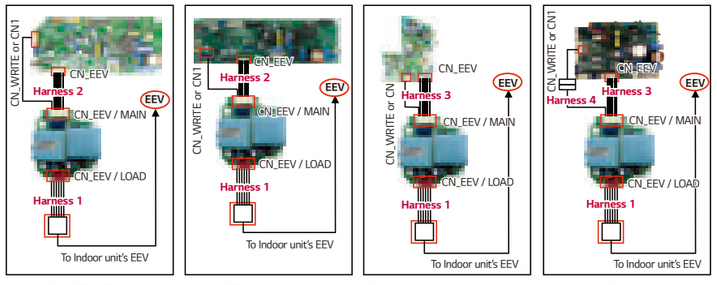
(Others)
• Harness 1 (1m)
• Harness 2 (1m)
• Harness 3 (1m)
• Installation Manual
• Insulation (PE)

Key Application

If the EEV is opened due to power cut off, liquid refrigerant flow into compressor which could damage the compressor in cooling mode. Also condensing might happened for unclosed EEV's Indoor unit due to flow of refrigerant.



How to Install



DUCT / FS / CVT / FAU | CST / Console / HYDRO KIT | Gen2 Wall Mounted / ARTCOOL | Gen4 Wall Mounted

① Turn the power off using circuit breaker.
② Disconnect the EEV cable of the indoor unit's PCB (CN-EEV)
③ Connect the independent power module (CN-EEV/LOAD) to the indoor unit's EEV, using harness 1.
④ Connect the independent power module (CN-EEV / MAIN) to the indoor unit's PCB (CN-EEV / CN-WRITE), using harness 2 or 3.
⑤ Supply the power.

※ FS : Floor Standing
※ CVT : Convertible
※ FAU : Fresh Air Intake Unit
※ CST : Cassette

PIPING ACCESSORIES

Y Branch and Header Branch

Key Features

For refrigerant distribution of indoor units.

• 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.

Model Name

Refer to specifications

Applied Products

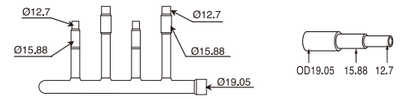
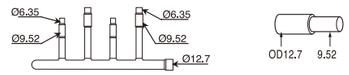
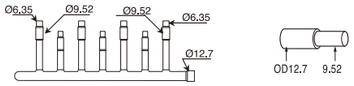
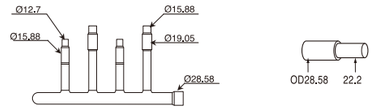
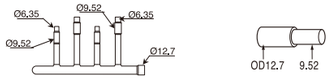
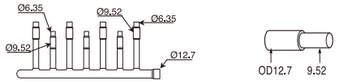
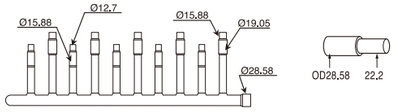
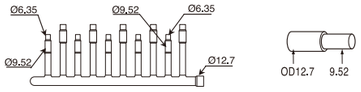
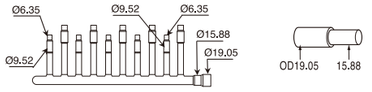
MULTI V 5
MULTI V IV
MULTI V III
MULTI V S
MULTI V WATER IV

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

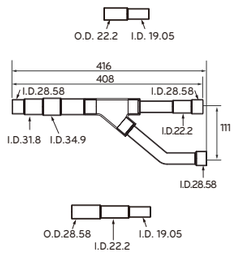
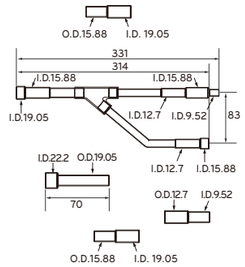
Y Branch and Header Branch

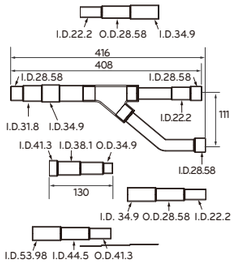
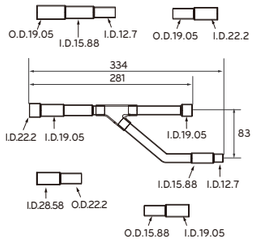
Specification

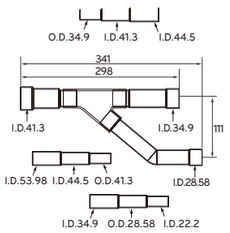
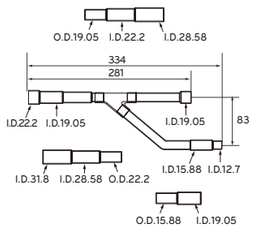
Y Branch

R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V WATER IV

(Unit : mm)

2 Outdoor Units		
Model	High Pressure Gas Pipe	Liquid Pipe
ARCNN21		

3 Outdoor Units		
Model	High Pressure Gas pipe	Liquid pipe
ARCNN31		

4 Outdoor Units		
Model	High Pressure Gas Pipe	Liquid Pipe
ARCNN41		

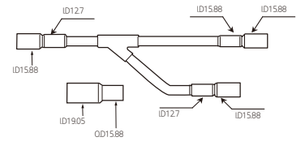
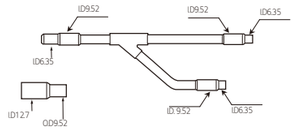
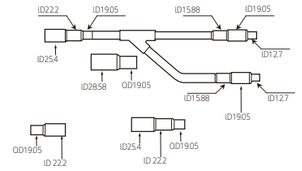
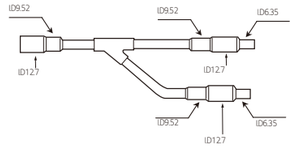
Y Branch and Header Branch

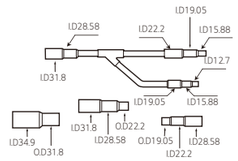
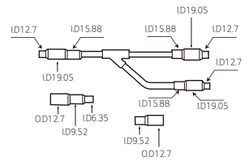
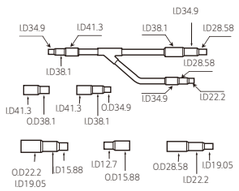
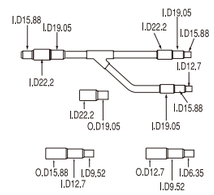
Specification

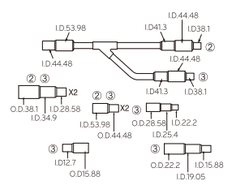
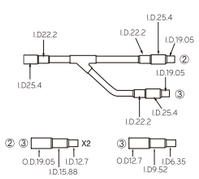
Y Branch

R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V S, MULTI V WATER IV

(Unit : mm)

Model	Gas Pipe	Liquid Pipe
JRBLN01621		
JRBLN03321		

Model	Gas Pipe	Liquid Pipe
JRBLN07121		
JRBLN14521		

Model	Gas Pipe	Liquid Pipe
JRBLN23220		

NOTE