

2021

2021

MULTI VTM

LG AIR
SOLUTION



LG Electronics

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MULTI VTM
SINGAPORE





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MULTI V 5 (Heat Pump)	038
MULTI V S (Cooling Only)	052



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UNITS**

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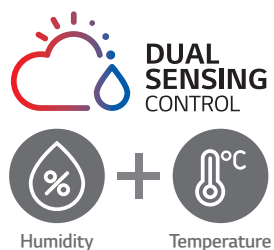
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10 ADVANTAGES OF MULTI V

1 ULTIMATE EFFICIENCY

Ultimate Energy Saving with Dual Sensing Control.



2 INNOVATIVE TECHNOLOGIES

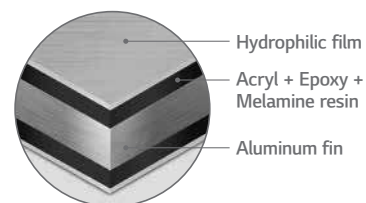
MULTI V 5

- Ultimate Inverter Compressor
- Biomimetics Technology Fan



3 SUPERIOR DURABILITY

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



Certified protection

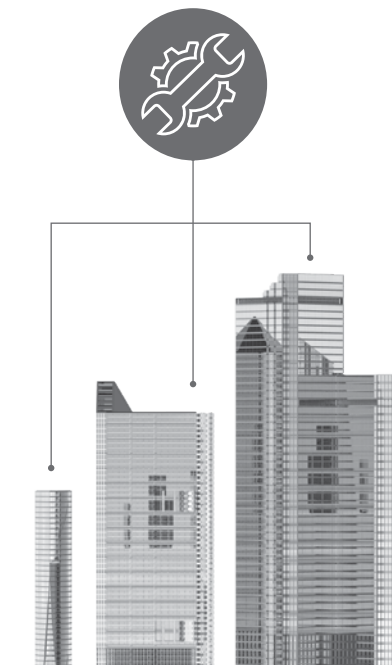


※ Verification of corrosion resistance performance
- Declared by TÜV Rheinland
- Test Method B of ISO21207
- Test condition : Salt contaminated condition + severe industrial/traffic environment

4 DESIGN FLEXIBILITY

Flexible Installation with Large Capacity Outdoor Unit.

MULTI V 5 enables easy type change-over to suit the purpose of any building.



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
- Asia Regional HQ

7 DIVERSE PRODUCT LINE UP

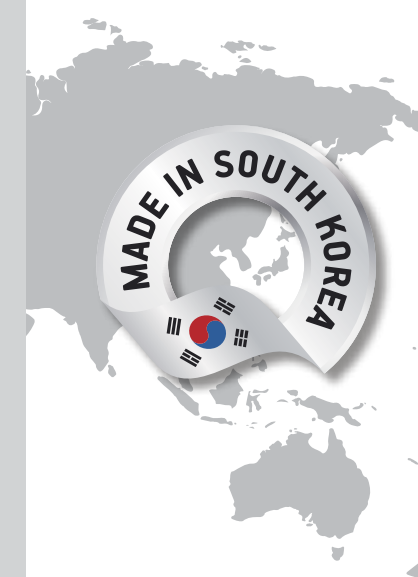
LG offers a specialized product lineup suited for various business environments, perfectly responding to the unique conditions no matter the use case.

8 DIVERSE INTEGRATED SOLUTION

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

9 MADE IN KOREA

LG MULTI V line-up emphasizing high quality and durability with Korea made products.

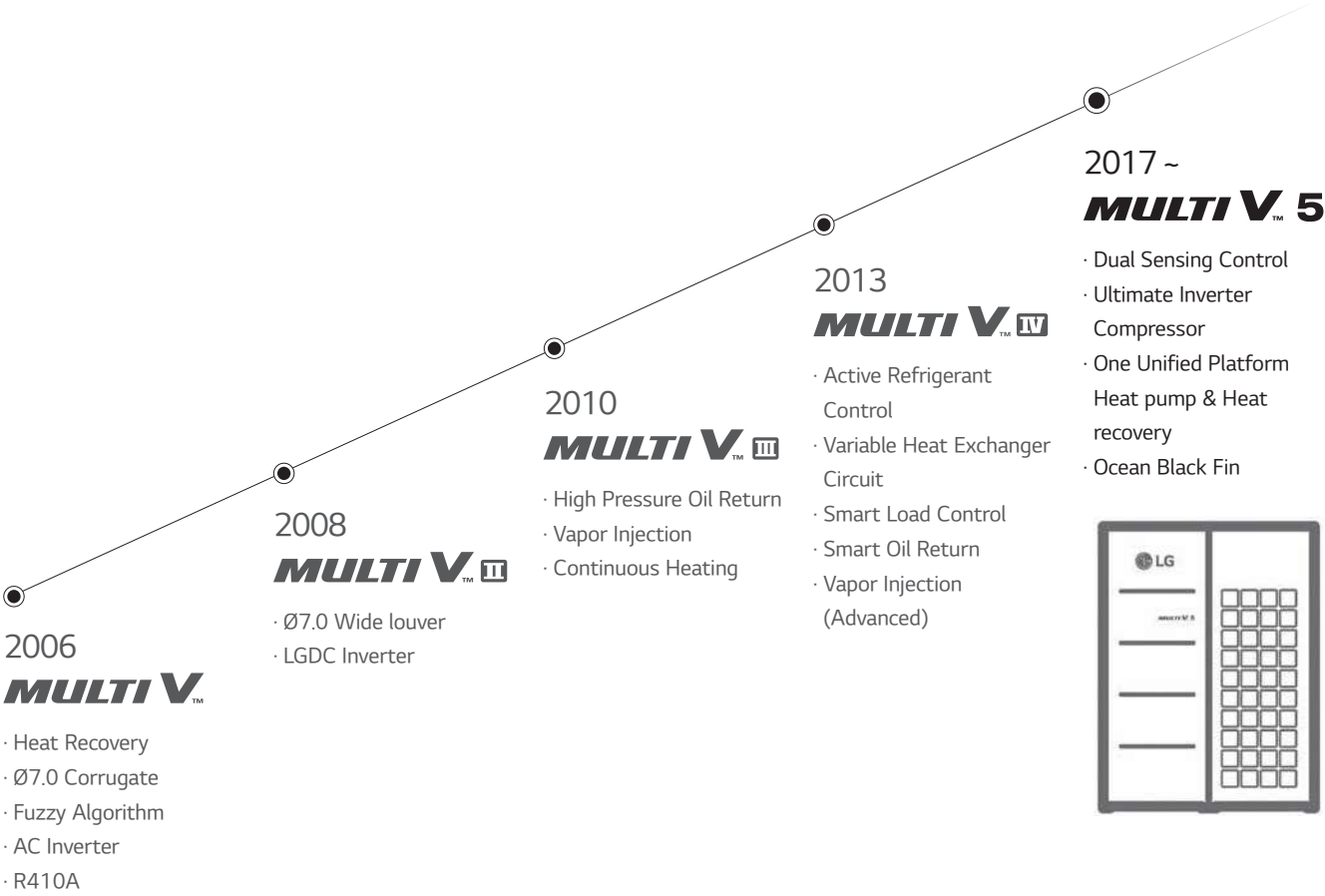


10 BRAND RELIABILITY

Global production sites facilitate world-class customer service.



MULTI V BRAND HISTORY



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

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

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

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

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

INFRASTRUCTURE IN ASIA



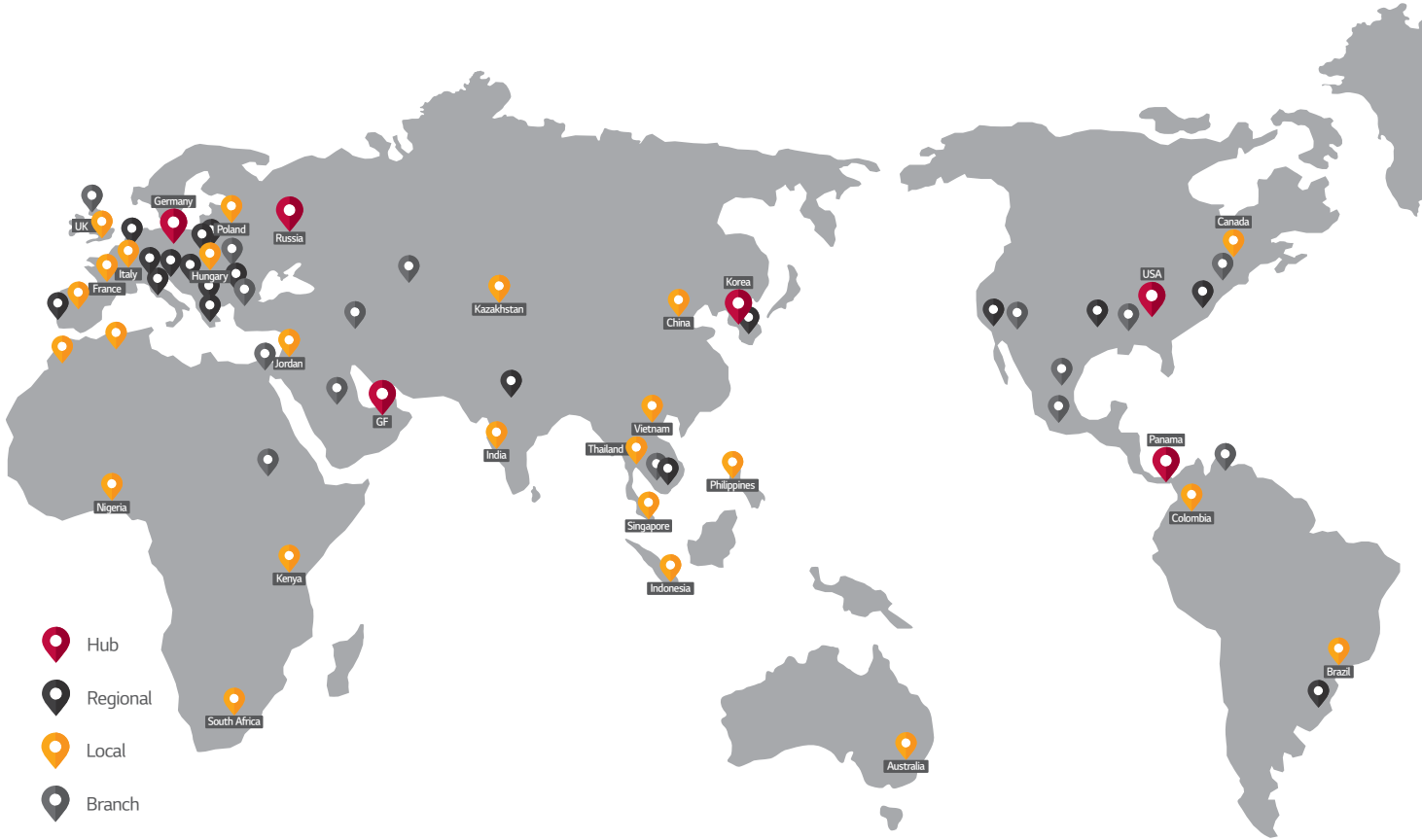
LG Singapore Air Conditioning Academy

LG Singapore, as affiliate of managing several countries which contain Bangladesh, Sri Lanka, Nepal, and other insular area like Maldives, Papua New Guinea, Fiji, runs LG air conditioning academy. LG academy is supposed of LG showroom which LG home appliance and air conditioning projects are displayed and LG practice room which we instruct LG HVAC product knowledge and software as well by using directly with LG displayed materials.



LG Whisen Park

LG Air conditioning Academy is a key infrastructure for the company's Total Climate Control business. HVAC business differs from ordinary air conditioning businesses in that as a B2B sector, the three elements of sales, installation and service must come together to create good results.



ENGINEERING TOOLS & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes through many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution possible. Given the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout their lifecycle. Dedicated to provide the best HVAC engineering support, LG Electronics Air Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers with a solution that allows for faster, easier and more accurate model selection, draft energy estimations and more.

* LATS : LG Air-conditioner Technical Solution



I

Energy Estimation
& Energy Modeling



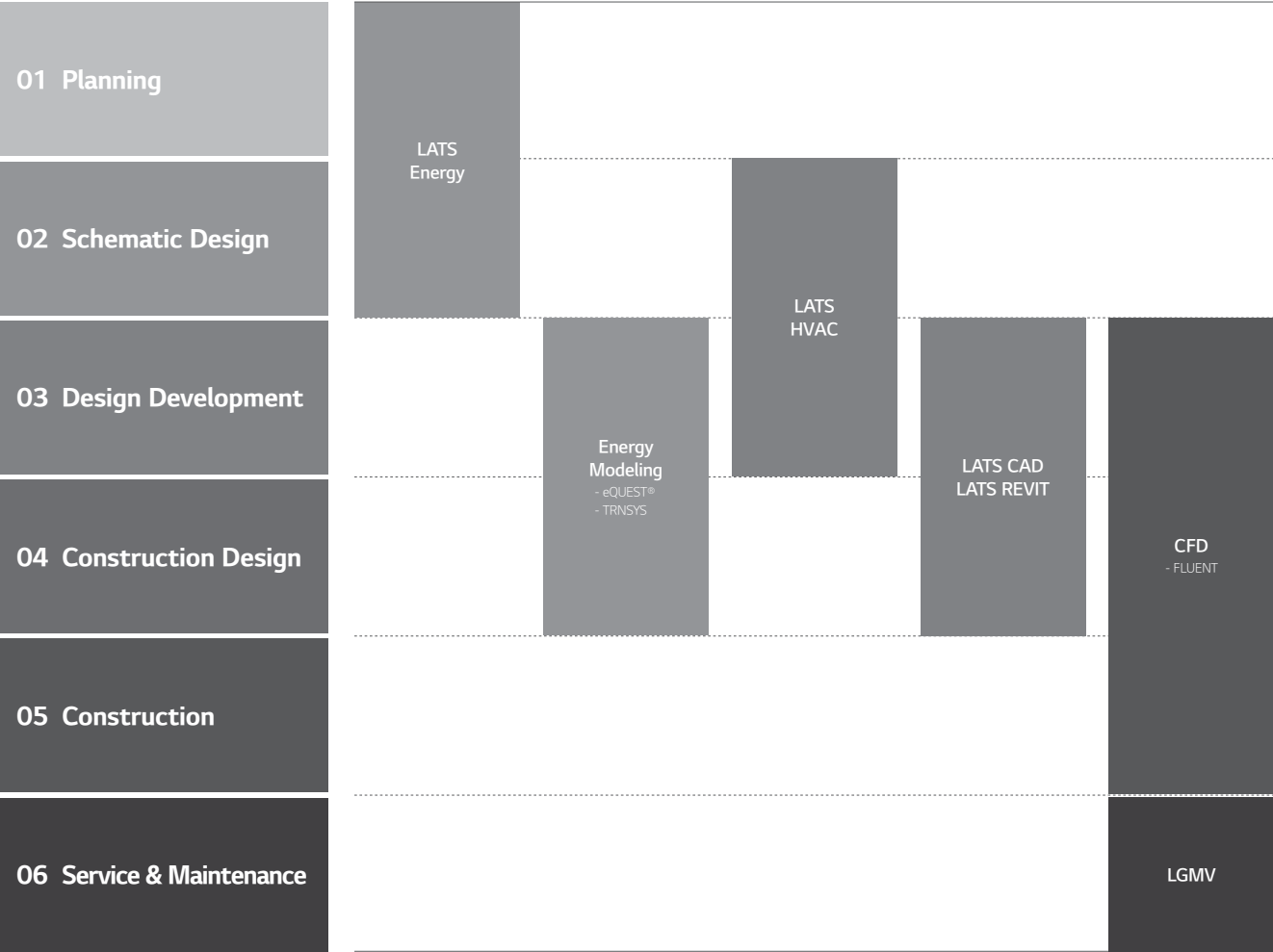
II

Model Selection
& Design



III

Installation
Environment
Simulation



01 Draft Energy Estimation

LATS Energy

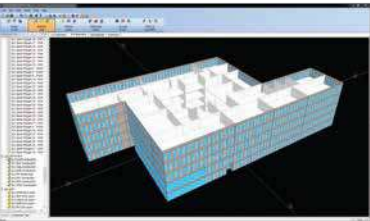
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems during a project's early stages.



02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

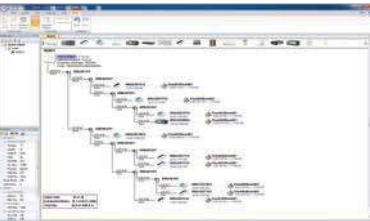
These are certified commercial programs which assess the HVAC system efficiency and building's annual energy savings for building standards or certifications, like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design wherein the overall designing is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



03 Model Selection

LATS HVAC

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



04 Design

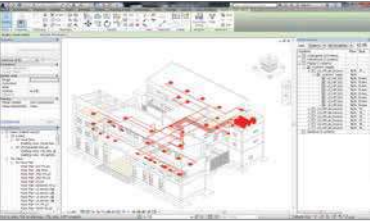
LATS CAD

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



LATS REVIT

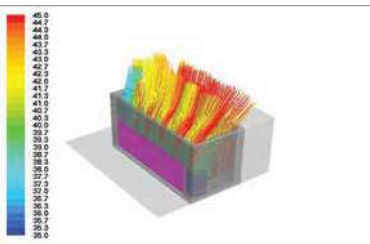
LATS REVIT allows BIM users to have an attractive 3D design of LG commercial air conditioning systems with embedded calculations for refrigerant and efficiency features.
※ AutoCAD Revit program is required.



05 Environment Simulation

CFD Analysis

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



06 Service & Maintenance

LGMV

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



BENEFITS OF LG MULTI V

Benefits for Building Owners

- **Efficient Management & Cost Reduction**
 - Fault Detection Diagnosis enables easy maintenance
 - Requires no extra manpower for regular maintenance
 - With diverse control systems, maintenance cost is minimized
- **Reliability at Every Stage**
 - Ultimate Inverter Compressor developed and manufactured in Korea
 - Corrosion resistant Ocean Black Fin for harsh conditions operation
 - Smart Oil management (Auto Oil Balancing and Active Oil return) decreases compressor damage
- **Customized Comfort and Solution**
 - Compatible option between Heat pump and Heat recovery system is possible



Benefits for Consultants

- **Versatile Solutions**
 - Air-cooled, Water-cooled, Heating, and Air Handling Unit interlocking solutions
- **Professional Design Support**
 - LATS (LG Air-conditioner Technical Solution) for draft energy estimation, model selection, HVAC design and 3D designing
 - CFD Analysis to ensure suitable solutions and prevent malfunctions
 - Energy simulation offered to find the optimal solution
- **Optimized Convenience with HVAC Design**
 - Flexible and longer piping length facilitates HVAC designing process
 - Meets any type of customer requirements of diverse environment, design conditions, and building applications



Benefits for Developers & Construction Companies

- **Green Solutions**
 - Optimized for LEED/BREEAM certification
 - Renewable energy solution provided through geothermal application
- **Maximizing Space Utilization**
 - Large capacity in compact size enhances space utilization
- **Smart Building Solutions**
 - Seamless integration with current Building Management Systems
 - Wi-Fi control available for anytime, anywhere access (via the 'LG ThinQ™' mobile app)
 - Energy management and control according to usage and planning is possible with LG's centralized control solution



Benefits for End-users

- **Cost Saving Operation**
 - High efficiency guaranteed throughout product line-up
 - Up to 31% cost savings with MULTI V's Smart Load Control*
- **Comfort Cooling & Heating**
 - Smart Load Control maximizes indoor comfort level
 - Dual Sensing Control offers pleasant and comfortable cooling and heating environment
 - Duration time of Continuous Heating is 11% longer than previous model**
- **Convenient Functions**
 - Low-noise operation provides a pleasant environment

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



APPLICATION SOLUTIONS

Office

Supporting efficiency with flexibility

High Rise Office Building



Small to Medium sized Office Building



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

Commercial

Maximizing business, minimizing cost

Shopping Mall



Retail



Quick Service Restaurant (QSR)



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

* PDI : Power Distribution Indicator ** CST : Cassette

Residential

Creating a comfortable home

Condominium



Apartments



MULTI V 5 HR/HP with various IDU enables optimal solution, providing comfort to every space through individual zone control and hot water solution.

Hospitality

Meeting diverse needs

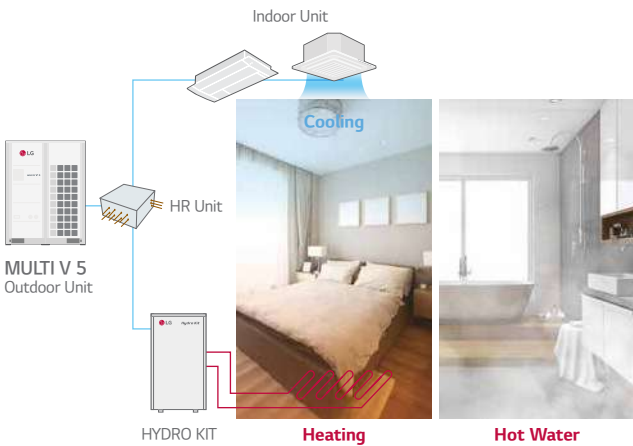


The diverse applications that can be applied to MULTI V 5 helps bring just the right solution to a sophisticated hotel business.

DIVERSE INTEGRATED SOLUTION

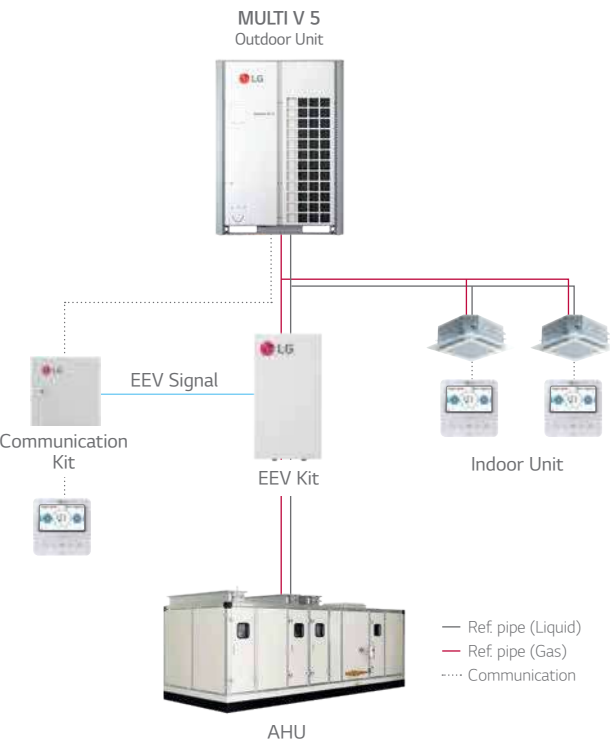
Hot Water Solution

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



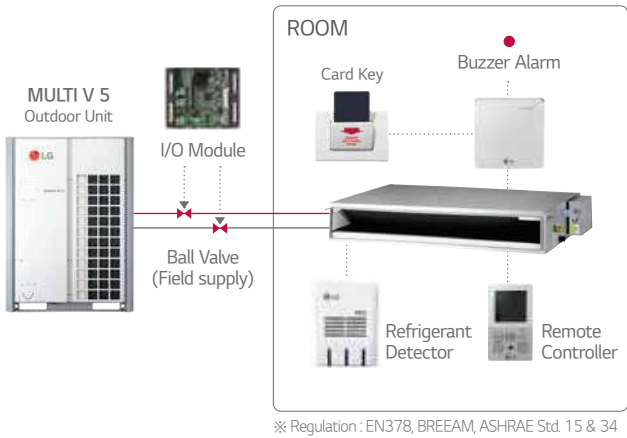
Air Handling Unit (AHU) Solution

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



Refrigerant Leak Detection Solution

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



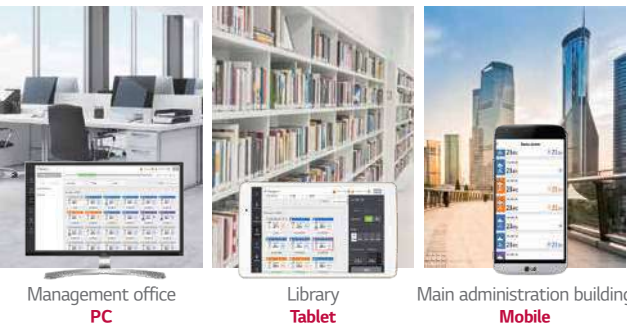
Power Consumption Distribution Solution

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



Total Control of Any Device

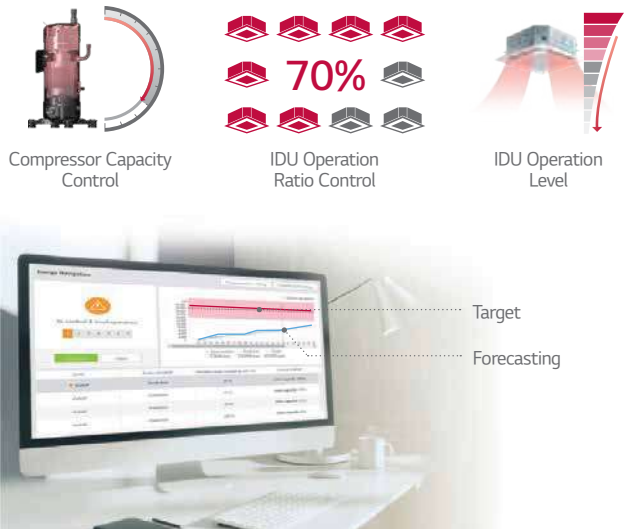
In order to manage multiple spaces and multiple buildings, the administrators should be able to control systems from wherever they are. The LG central controller can be controlled from any web browser that supports HTML5. Now through the implementation of HTML5, the interface will look great and perform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



DIVERSE INTEGRATED SOLUTION

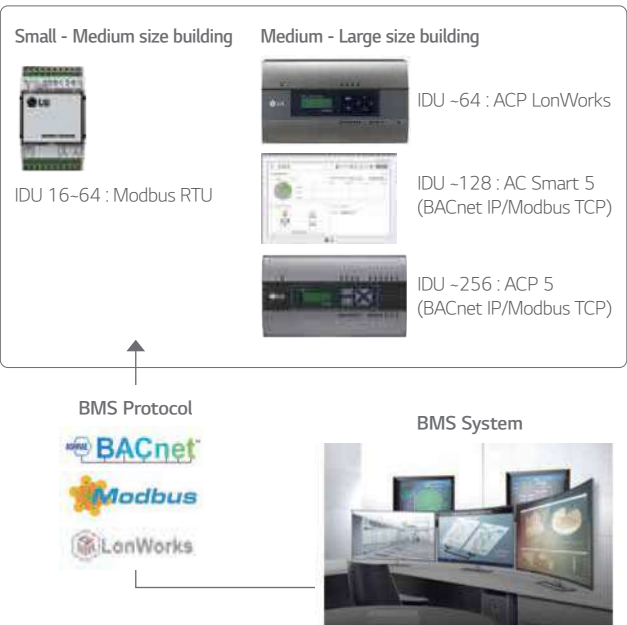
Energy Management Solution

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 by Using ACU Module

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



Interlocking Solution Using Dry Contact

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.



OUTDOOR UNITS LINE-UP

Unit : HP / ● 380V, 3Ø

Features	Appearance	8	10	12	14	16	18	20	22	24	26	28	30	32
MULTI V™ 5 HEAT PUMP • Dual Sensing Control • Large capacity ODU (Up to 26HP) • Continuous Heating • Black Fin heat exchanger • Heat pump function • For large space, high rise building and individual control building		●	●	●										
					●	●	●	●	●	●	●			
									●	●	●	●	●	●
														
														

34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96		104

OUTDOOR UNITS LINE-UP

Features	Appearance	3	4	5	6	8	10	12	14	16	18	20
MULTI V™ S • Space saving • Flexible design applications - Slim, light, and broad range (3 to 6HP) - Large number of connectable indoor units (Up to 20 Units) • For small / medium building		○	○	○								
					○							

INDOOR UNITS LINE-UP

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	17.5	22.4	28.0
Type		Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	60k	76k	96k
4 th generation Wall Mounted	Standard		●	●	●	●	●	●		●		●	●						
	4 Way Cassette (570 x 570)		●	●	●	●	●	●	●										
	4 Way Cassette (840 x 840)									●	●	●	●	●	●	●			
	4 Way Cassette High Sensible (840 x 840)			●	●	●	●	●		●	●		●	●	●				
	Round Ceiling Cassette									●			●		●				
	2 Way Cassette				●	●		●		●									
	1 Way Cassette			●	●	●		●		●									
4 th generation Ceiling Concealed Duct	High Statics										●		●	●	●	●		●	●
	Mid Static			●	●	●	●	●		●									
	Low Statics		●	●	●	●	●	●	●	●									
4 th generation Fresh Air Intake																		●	●
4 th generation Ceiling Suspended							●		●			●		●					
4 th generation Console			●	●	●	●													
4 th generation Floor Standing	Floor Standing with Case			●	●	●	●	●		●									
4 th generation HYDRO KIT	Low Temperature													●					●
	High Temperature													●				●	
4 th generation Energy Recovery Ventilator with DX Coil	with Humidifier						●			●		●							
	without Humidifier						●			●		●							

INDOOR UNITS FEATURE OVERVIEW

[illegible]

※ If 4th generation indoor units are connected to MULTI V WATER S, several functions are not available.
 ※ 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"

LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White)		NEW	AC Ez	ACP 5	ACP LonWorks
					
PREMTB100	PQRCVCL0QW	PWLSSB21H (H/P)	PQCSZ250S0 (Indoor Unit ~32)	PACP5A000 (Indoor Unit ~256) BACnet IP / Modbus TCP	PLNWKB000 (Indoor Unit ~64)
		Wi-Fi Controller			
Standard III (Black)		LG Wi-Fi Modem	AC Ez Touch	AC Manager 5	Modbus RTU Gateway
					
PREMTBB10	PQRCVCL0Q	For Indoor Unit PWFMD200	PACEZA000 (Indoor Unit ~64)	PACM5A000 (Indoor Unit ~8,192)	PMBUSB00A
Standard II (White)			AC Smart 5		PI-485
					
PREMTB001	PQRCHCA0QW (Simple for Hotel)		PACSSA000 (Indoor Unit ~128) BACnet IP / Modbus TCP		For Indoor Unit (ERV) PHNFP14A0
Standard II (Black)					
					
PREMTBB01	PQRCHCA0Q (Simple for Hotel)				
Premium					
					
PREMTA000 PREMTA000A PREMTA000B					

CENTRALIZED CONTROL	INTEGRATION DEVICE			
Facility Integrator	Indoor Unit		Outdoor Unit	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator)  Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	 Simple Dry Contact PDRYCB000	 PZCWRCG3	 IO Module (Input / Output Module) For MULTI V 5 PVDSMN000	 Communication Kit Return / Room Air control PAHCMR000
ACS IO Module (Input / Output Module)  PEXPMB000				
Chiller Option Kit  PCHLLN000	 Dry Contact for Thermostat PDRYCB300	 PQRSTA0 Low Profile Remote Temperature Button Sensor ZRTBS01	 Variable Water Flow Control kit For MULTI V WATER IV PWFCKN000	 Discharge / Supply Air control PAHCMS000
ACU IO Module				
UIO  PEXPMB300	 2 Points Dry Contact (For Setback) PDRYCB400	 Zone Controller 4 Zones by thermostat ABZCA	 PRDSBM	 Communication module PAHCMC000
UO  PEXPMB200				
UI  PEXPMB100	 For Modbus PDRYCB500		 NEW PAHCMW000	 PRLK048A0 (3 - 10 HP) PRLK096A0 (12 - 20 HP) PRLK396A0 (20 - 40 HP) PRLK594A0 (40 - 60 HP)

OUTDOOR UNITS

MULTI V 5 (HEAT PUMP)
MULTI V 5 (COOLING ONLY)



INNOVATIVE TECHNOLOGIES

Dual Sensing Smart Load Control (SLC) Enhanced energy saving & increased indoor comfort

Cooling loads vary according to both temperature and humidity. With Dual Sensing SLC, work exerted to meet the load depends on both temperature and humidity. As a result, less capacity will be required in lower humidity conditions.

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 responds to :

- 1) Outdoor ambient dry bulb temperature
- 2) Outdoor ambient relative humidity (when enabled)

Cooling Indoor Units - adjusts target low pressure

Raises the target low pressure value as cooling load falls and/or ambient temperature falls. Lowers the target low pressure value as cooling load rises and/or ambient temperature rises.

Heating Indoor Units - adjusts target high pressure

Lowers the target high pressure as heating load falls and/or ambient temperature rises. Raises the target high pressure as heating load rises and/or ambient temperature falls.

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.

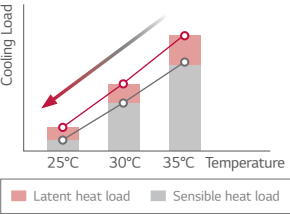
- Heating Mode

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.

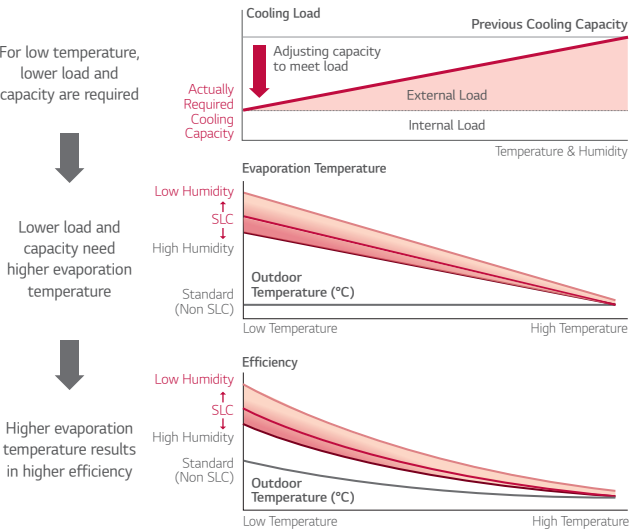
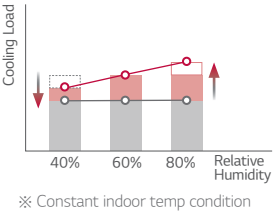
Increased indoor comfort

Smart Load Control uses one (or two) sensors to measure changing outdoor weather conditions and prepares the VRF system for operation under the revised weather conditions before changing conditions impact indoor comfort.

Cooling load according to temperature change



Cooling load according to humidity change



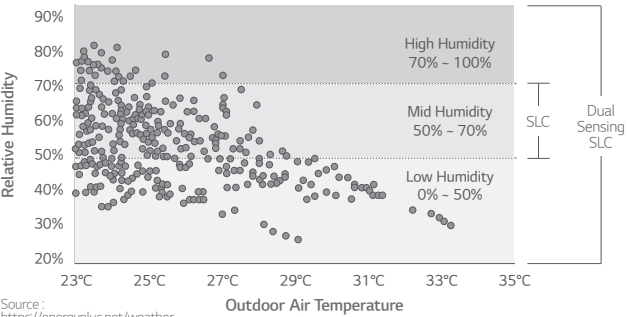
Energy Savings with Dual Sensing Control (Temperature & Humidity)

Case study

Weather characteristics of Warsaw, Poland

The portion of cooling operation hours at low humidity condition (Below 50% RH) is big. The cooling load of this condition is less than the load at standard (50 ~ 70% RH) or high (over 70% RH) humidity condition even in the same outdoor air temperature. MULTI V 5 raises the evaporating Temp up at low load (Low humidity) condition to enable energy saving and prevent over-cooling which can happen when the system is controlled only by using outdoor air Temp.

Warsaw weather in Summer



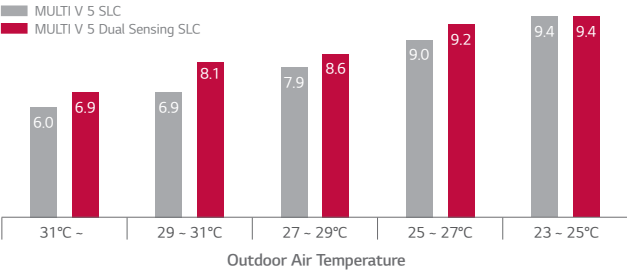
Time Portion of Relative Humidity in Summer (Warsaw, Poland)

RH (%)	Portion
70% ~ 100%	8%
50% ~ 70%	45%
0% ~ 50%	47%

Energy Consumption in Cooling Season

When we compared the energy consumption between SLC (Outdoor air Temp sensing only) and Dual sensing SLC (Outdoor air Temp and humidity sensing), Dual sensing SLC control can save 6% more energy compared to SLC. So dual sensing control is more efficient than SLC.

EER



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

Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

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

6% more energy saving compared to SLC

INNOVATIVE TECHNOLOGIES

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

First reference use Indoor Unit (IDU) is operating in a season when its load is less than the design load, the comfort cooling algorithm controls the indoor unit's coil superheat, thus raising the discharged 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.

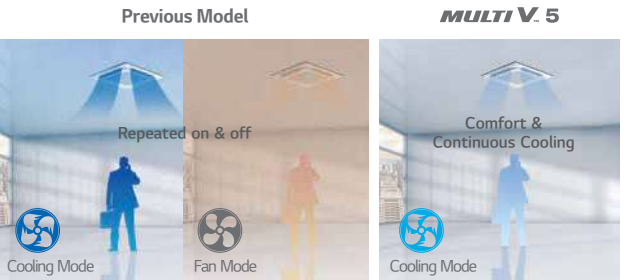
What are the benefits?

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

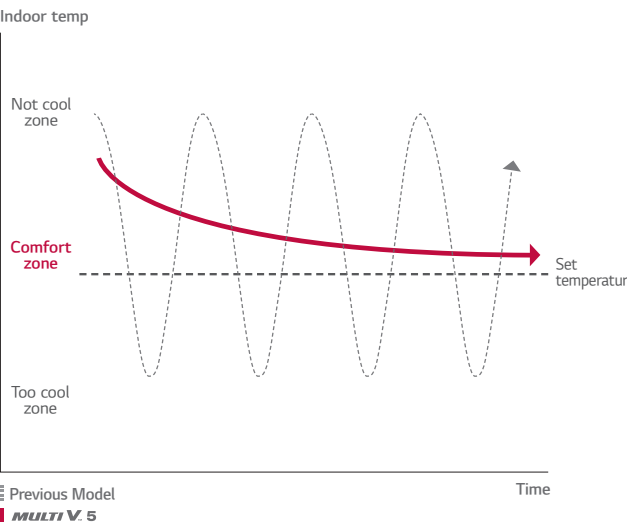
Enhanced operating efficiency

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



Preventing cold draft & repeated turn On / Off

Improved Indoor Comfort



Intelligent Defrost

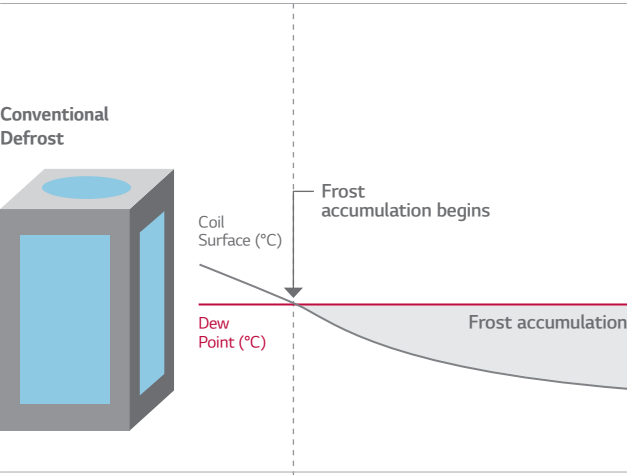
Increased heating run-hours

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

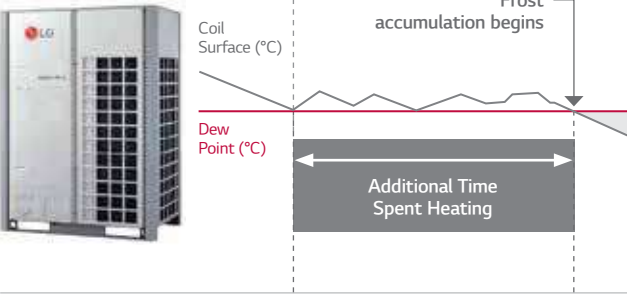
MULTI V 5 computes the current ambient air dew point temperature - the temperature at which frost will form on the outdoor unit coil in during winter operation. MULTI V 5 makes continuous adjustments to the refrigeration cycle's operating parameters to keep the outdoor coil surface temperature above actual dew point which can be calculated by using dry bulb Temp and relative humidity. When the refrigeration cycle's operating parameters can be adjusted no further without sacrificing heating comfort, further adjustment is stopped and frost is allowed to build on the coil, therefore activating defrost.

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.



LG Intelligent Defrost / Smart Heating



※ Increased heating operation time per day : Up to 1.7%
• LG Internal Test result,
• Test condition (MULTI V 5 vs MULTI V IV, 22HP)
- Outdoor : 2/1°C, Indoor : 20/15°C
- Humidity : 83%, Dew Point : -0.5°C

INNOVATIVE TECHNOLOGIES

Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

MULTI V 5 outdoor units (ODU) are manufactured with horizontally split ODU coil consisting of two independent circuit sections. Each half of the coil is independently controlled.

This split coil feature makes it possible for MULTI V 5 to provide continuous heating during defrost. The split coil and valve arrangement also makes it possible for the MULTI V 5 to change the flow path of refrigerant through one of the two coils only, or through both coils in either a series or parallel arrangement. Based on system pressures, ambient temperature conditions, and mode of operation, the system controller may modify the selected path at any time.

What are the benefits?

Optimizes system efficiency regardless of operating modes as ambient weather conditions change.

Customizes the used area of the outdoor unit's heat exchange surface.



Low ambient cooling and / or light building load

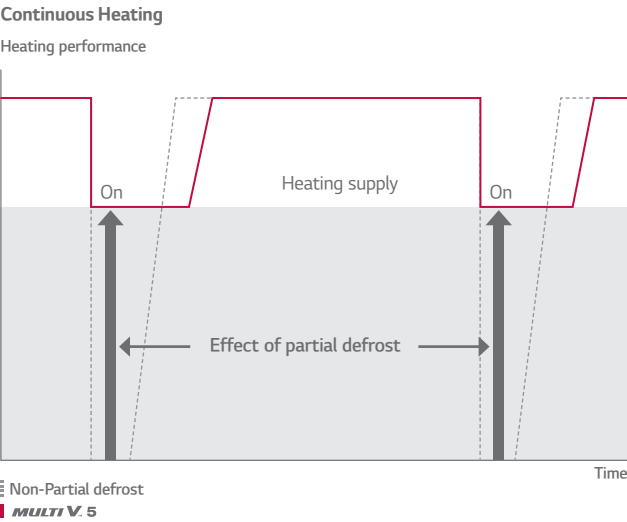
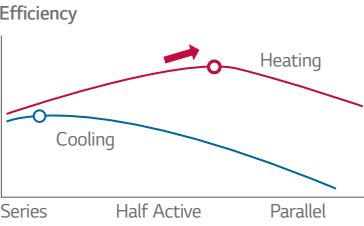
- Half active
- Lower idle

Full load cooling

- Upper & lower active
- Series circuited
- High velocity refrigerant flow

Heating - all conditions

- Upper & Lower active
- Parallel circuited
- Low velocity refrigerant flow



Active Refrigerant Control

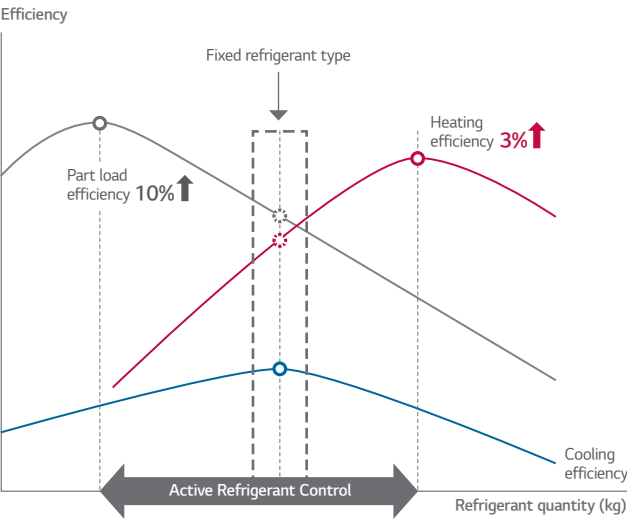
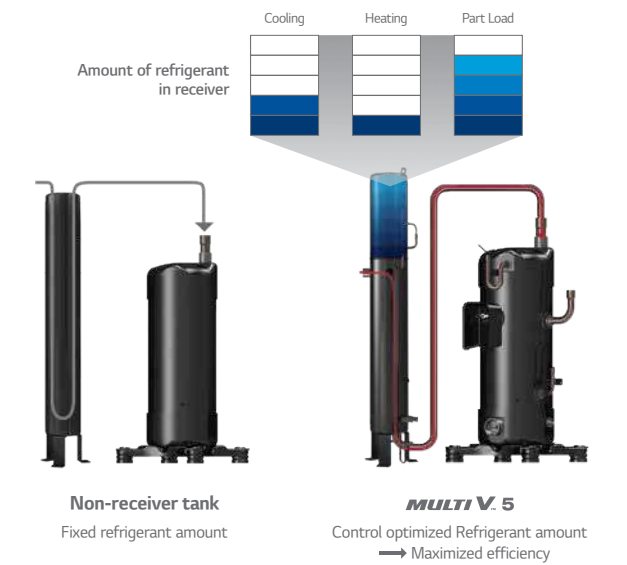
Stable operation & sustaining most efficient operation

The accumulator in the outdoor unit has a storage tank mounted inside 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 regardless of outdoor weather conditions, operating mode, or building load.



INNOVATIVE TECHNOLOGIES

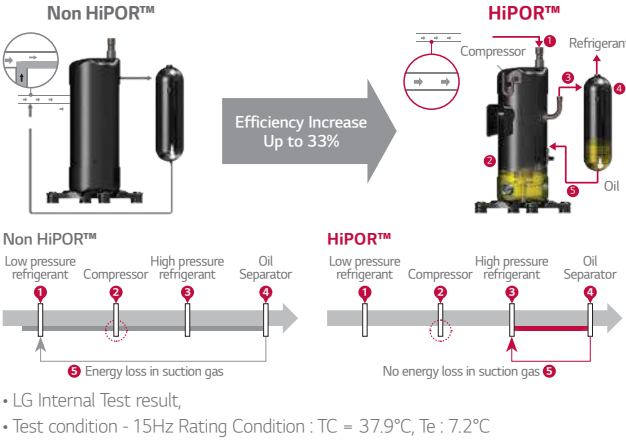
HiPOR™

Advanced compressor reliability & efficiency

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



Smart Oil Management

Energy saving, enhanced heating & increased compressor reliability

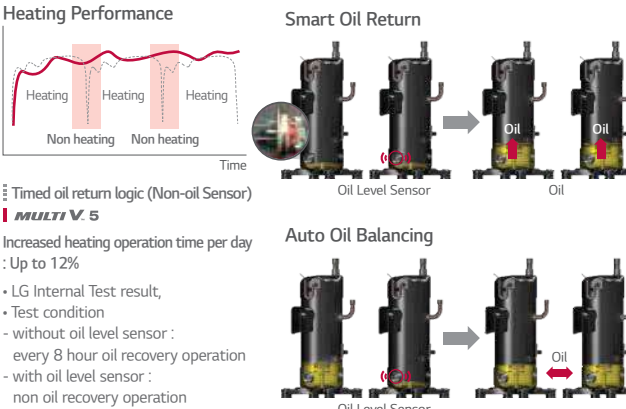
MULTI V 5 performs oil return when needed under normal operating conditions. An oil level sensor is provided in every LG VRF compressor. If the sensor indicates the compressor oil level is low, the main system processor is notified that an oil return cycle is necessary. Oil balancing cycle occurs every hour and does not hinder 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 : fewer oil return cycles eliminate unnecessary energy consumption.

Increases system heating run-time during winter operation.

Increases compressor reliability.



Sub-cooling & Vapor Injection

Increased heating performance

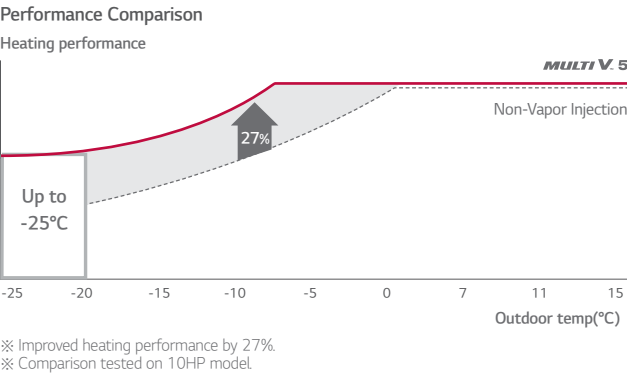
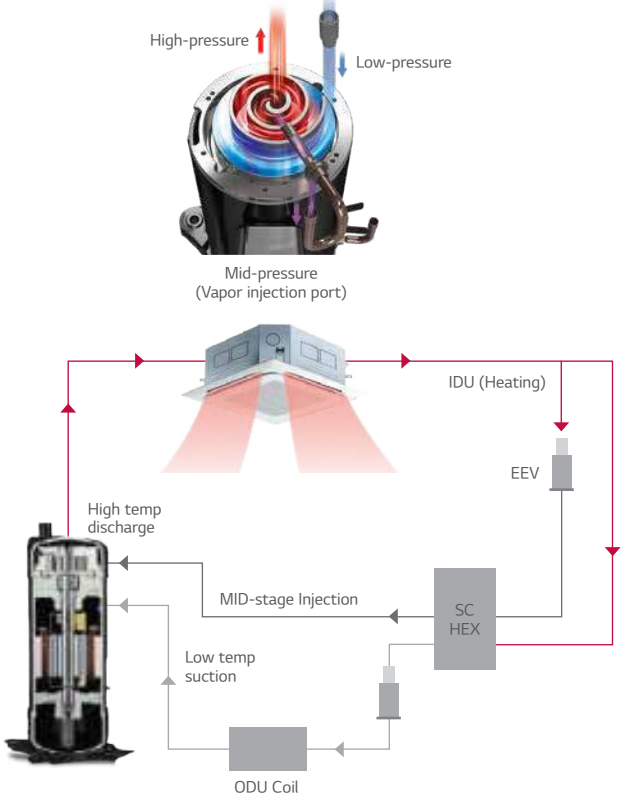
MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. During low ambient operation down to -25°C (Heating mode), 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.

Technology Mechanism



INNOVATIVE TECHNOLOGIES

Corrosion Resistance Black Fin

Improved durability

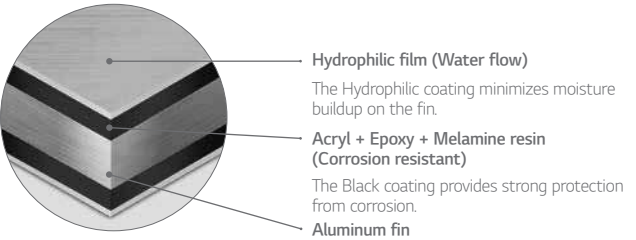
The black coating with enhanced epoxy resin is applied on the heat exchanger for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant. LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TÜV.

What are the benefits?

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

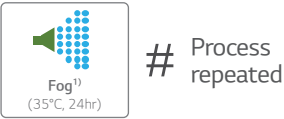


※ Verification of corrosion resistance performance
- Declared by TÜV Rheinland
- Test Method B of ISO21207
- Test condition : Salt contaminated condition
+ severe industrial/traffic environment(NO₂ / SO₂)



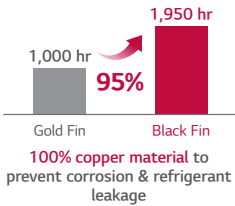
SST (Salt Spray Test)

Test Process



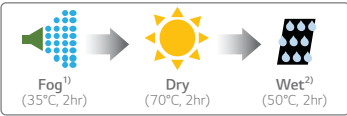
Test process is conducted according to ISO 9227.
1) Salty water concentration : NaCl aqueous solution (5%)

Test Result
(5% Area of defects compared to initial)



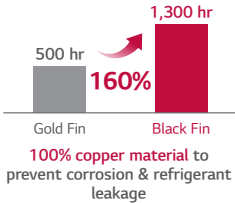
CCT (Cyclic Corrosion Test)

Test Process



※ Test process is conducted according to ISO 14933.
1) Salty water concentration : NaCl aqueous solution (5%)
※ Dry condition changed : 60°C, 4hr → 70°C, 2hr
2) Deionized water

Test Result
(5% Area of defects compared to initial)



Biomimetic Fan

Maximized performance

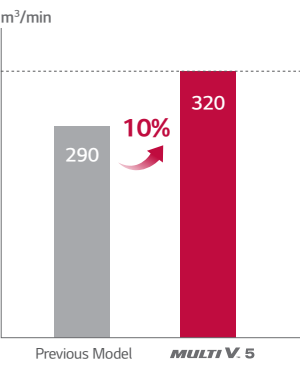
The fans in MULTI V 5's outdoor unit have been upgraded to feature a moire pattern similar to that of a clam shell's exterior that help with noise reduction. At the same time, unlike the fans installed in previous products that generate separation of flow due to absence of tubercles, the bumpy back design 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 MULTI V IV. This eventually results in maximized performance with large capacity.

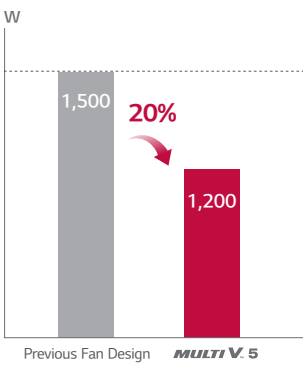


Air flow rate



※ Comparison based on 20HP model

Power consumption



※ Comparison based on air volume of 290m³/min

DESIGN FLEXIBILITY

One Unified Model

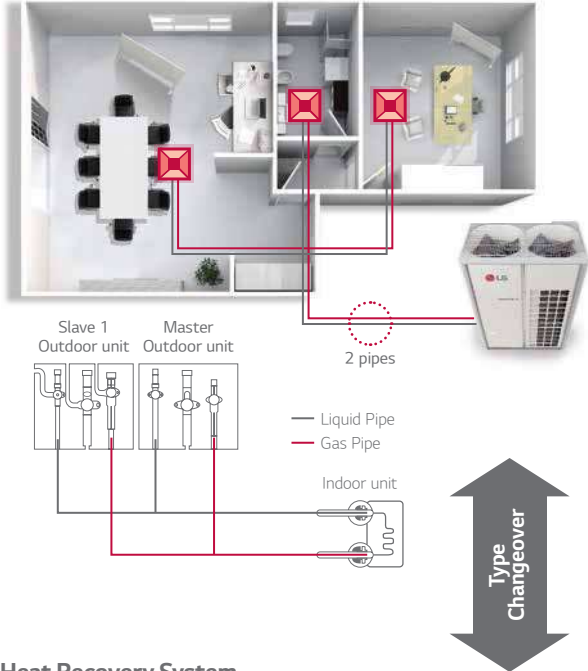
Heat pump / Heat recovery with one platform

LG MULTI V 5 satisfies users' various needs with just one platform. Heat Pump System works for the sites where either cooling or heating operation is needed, while Heat Recovery System fits perfectly to the sites wherein both the cooling and heating operations are simultaneously needed or locations installed with Hot Water Solution to provide hot water and heating via radiators.

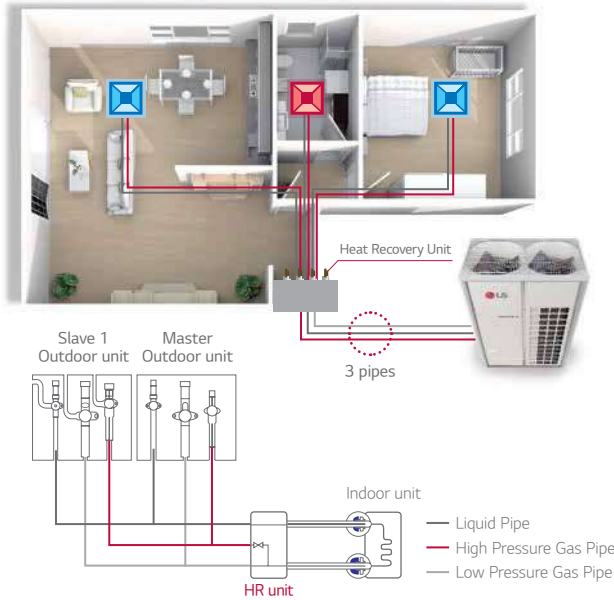
What are the benefits?

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

Heat Pump System



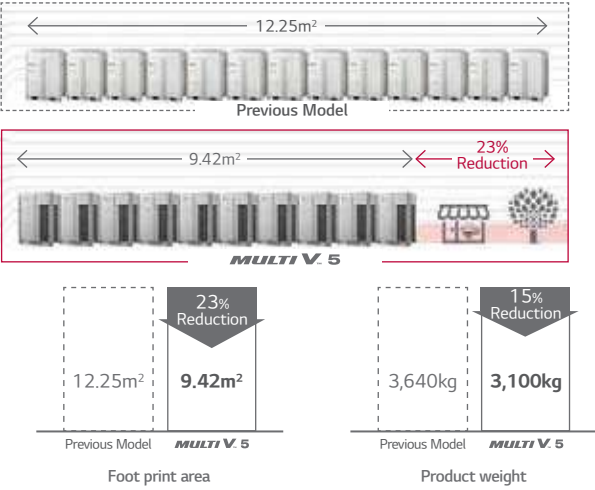
Heat Recovery System



Flexible Installation with Large Capacity Outdoor Units

More flexible design potential & space saving

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

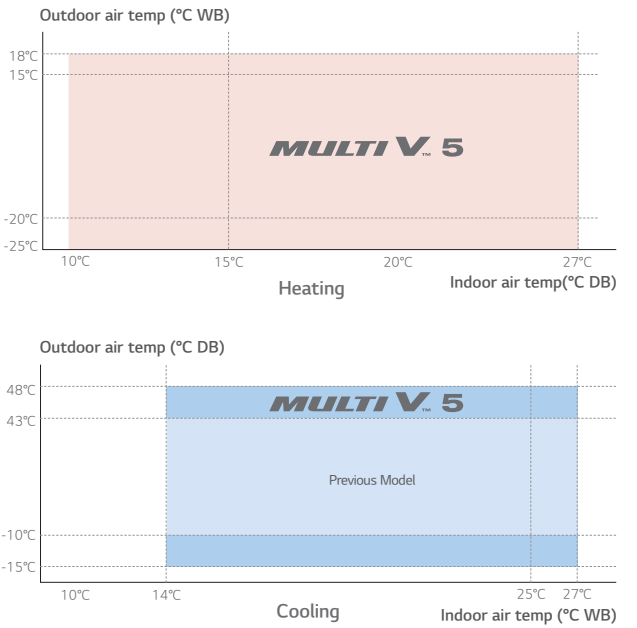


※ Comparison basis : 1 Rows of outdoor units 728kW (72.8kW x 10sets) installation case

Wider Operation Range

Able to operate at extreme conditions

With improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 offers an extended range of heating and cooling operations. It can perform normal heating operations at temperatures as low as -25°C. Cooling operations function at temperatures as low as -15°C or as high as 48°C making it an adequate solution for specialized areas like technical rooms. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C.



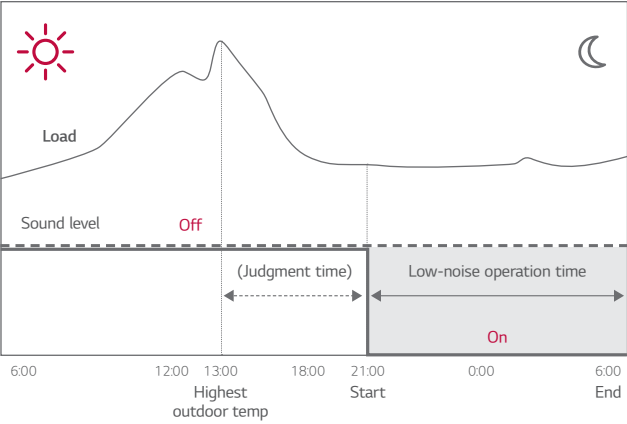
USER-FRIENDLY CONTROL

Low-Noise Operation

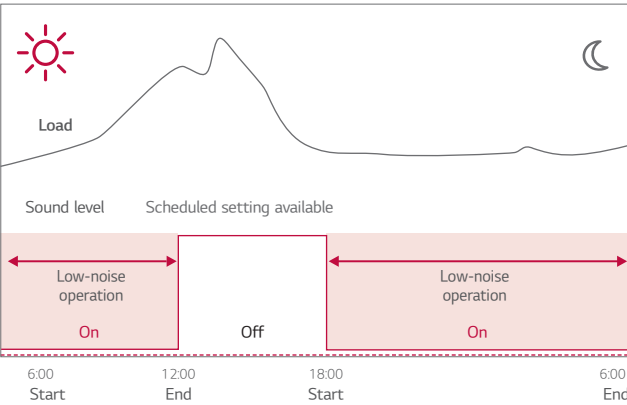
For noise sensitive environment

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. When used, the speed of the outdoor unit fans is restricted during normal operation.

Previous Model



MULTI V 5



Indoor setting available



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.

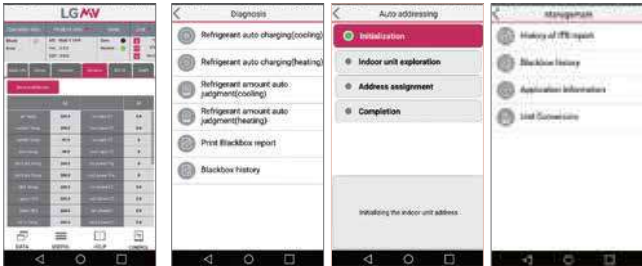
Previous



MULTI V 5



Wi-Fi MV Module

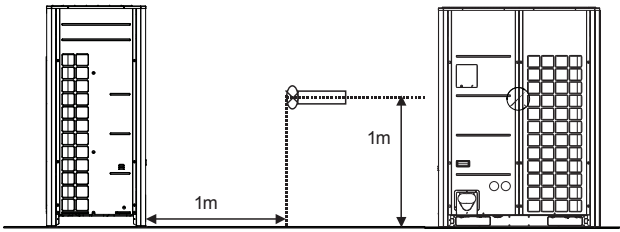


Cycle Monitoring Diagnosis Installation Smart Management

LGMV



Position of Sound Pressure Level Measuring



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

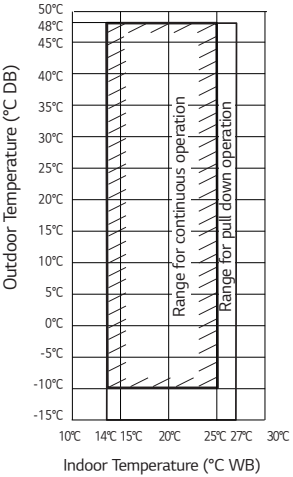
Outdoor Units Function

Category	Functions	MULTI V 5
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	○
	HiPOR™ (High Pressure Oil Return)	○
	Humidity Sensor	○
	Corrosion Resistance Black Fin	○
	Oil Sensor	○
Useful Function	Dual Sensing	○
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	○
	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	○
Reliability	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	○
	Defrost / Deicing	○
	High Pressure Switch	○
Central Controller	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	○
BNU (Building Network Unit)	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
Installation	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
	ACP Lonworks	PLNWKB000
	ACP BACnet	PQNFBI7C0
	Refrigerant Charging Kit	PRAC1
Cool / Heat Selector	Variable Water Flow Valve Control Kit	-
	Standard	PPWRDB000
Low Ambient Kit	Premium	PQNUD1S40
		PRDSBM
IO Module (ODU Dry Contact)		PRVC2
		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTILO
	Mobile LGMV	PLGMVW100

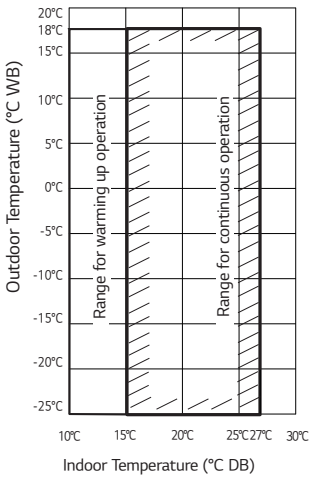
※ ○ : Applied, - : Not Applied

Cooling / Heating Operation

Cooling



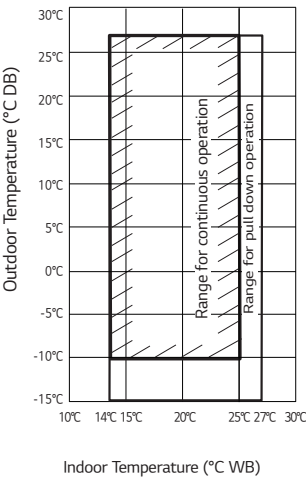
Heating



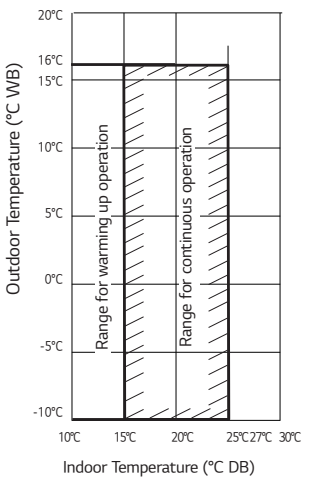
- Note
1. These figures assume the following operating conditions :
Equivalent piping length : 7.5m
Level difference : 0m
 2. Range of pull down operation :
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
 3. Warming up operation means that the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

Simultaneous Cooling / Heating Operation

Cooling



Heating



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

MULTI V 5 Q&A

Q1 What are the differences between MULTI V IV and MULTI V 5?

A1

Category	MULTI V IV H/P (ARUN***LTE4)	MULTI V 5 H/P & H/R (ARUM***LTE5)
Vapor Injection	○	○
HiPOR™	○	○
Smart Oil Control (Oil Level Sensor)	○	○
Active Refrigerant Control	○	○
Variable Heat Exchanger Circuit	○	○
Continuous Heating	○	○
Smart Load Control	○	○
Dual sensing (Humidity Sensor)	-	○
Comfort Cooling	○	○
Ocean Black Fin	-	○
Maximum Capacity (1 Unit / 4 Unit)	20 HP / 80 HP	26 HP / 96 HP
Height Difference (ODU ~ IDU / IDU ~ IDU)	110m / 40m	110m / 40m
Cooling Operating Range (OAT, °CDB)	-10 ~ 43	-15 ~ 48
Heating Operating Range (OAT, °CWB)	-25 ~ 18	-25 ~ 18
Combination ratio of IDU	1 Unit	50 ~ 200%
	2 Unit	50 ~ 160%
	3 or 4 Units	50 ~ 130%

※ ○ : Applied, - : Not Applied

Q2 Can MULTI V 5 ODU be connected with the 2 series indoor unit?

A2

Yes, MULTI V 5 ODU can be connected with the 2 series indoor unit. In this case, the ODU DIP Switch No.3 should be “OFF” which is default setting. Refer to the below table.

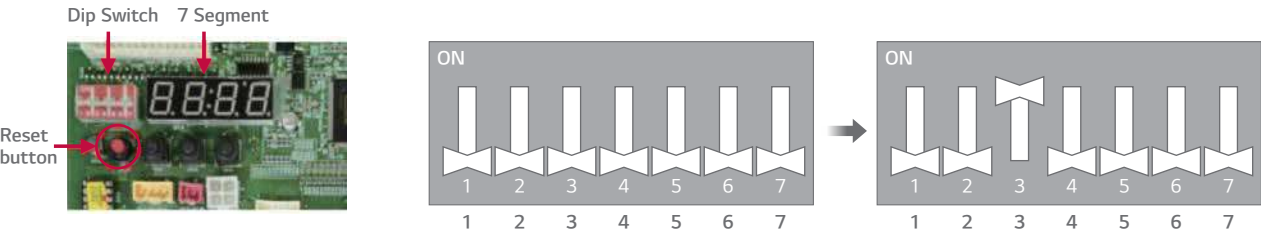
ODU	IDU	Compatibility	ODU DIP Switch No. 3	If dip switch setting is not correct	Ref.
MULTI V IV MULTI V 5	Gen. 2 (ARNU*2)	○	Must be OFF (factory default)	Can not communicate between Indoor & Outdoor unit (System will not be operated)	
	Gen. 4 (ARNU*4)	○	Must be ON to enable gen. 4 functions	When Dip Switch No.3 is OFF, System can be operated, but some function of Gen. 4 is not available	
	Gen. 2 + Gen. 4	○	Must be OFF (factory default)	When Dip Switch No.3 is ON, Can not communicate between Gen. 2 Indoor & Outdoor unit (Gen 2 units are not operated), only Gen 4 Units are operated.	Some functions of Gen.4 are not available

※ ○ : Applied, - : Not Applied

ODU dip switch setting procedure (No.3)

ODU main PCB dip switch is all “OFF” at default state

- (1) Check and make sure that all connected indoor units are 4 series. (ARNU*****4.)
- (2) Change Dip switch No. 3 from OFF → ON
- (3) Push the reset button.



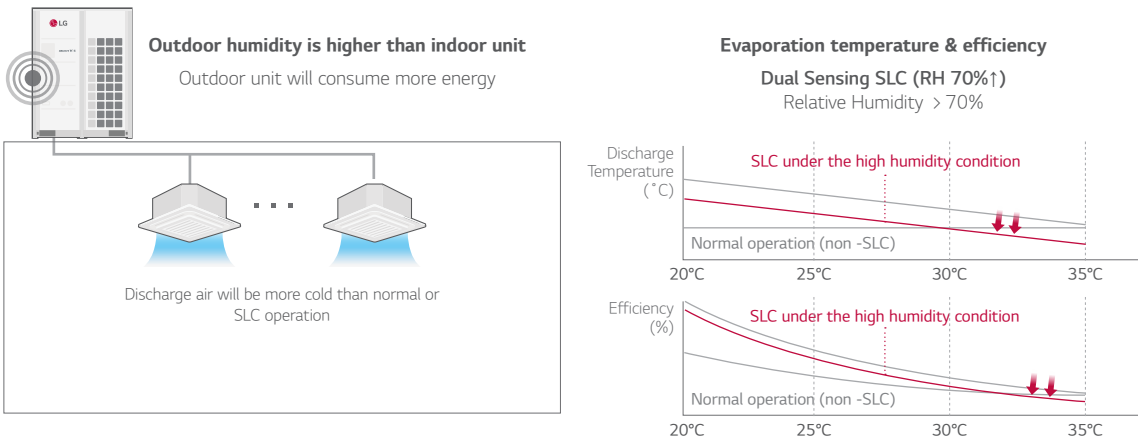
MULTI V 5 Q&A

Q3 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?

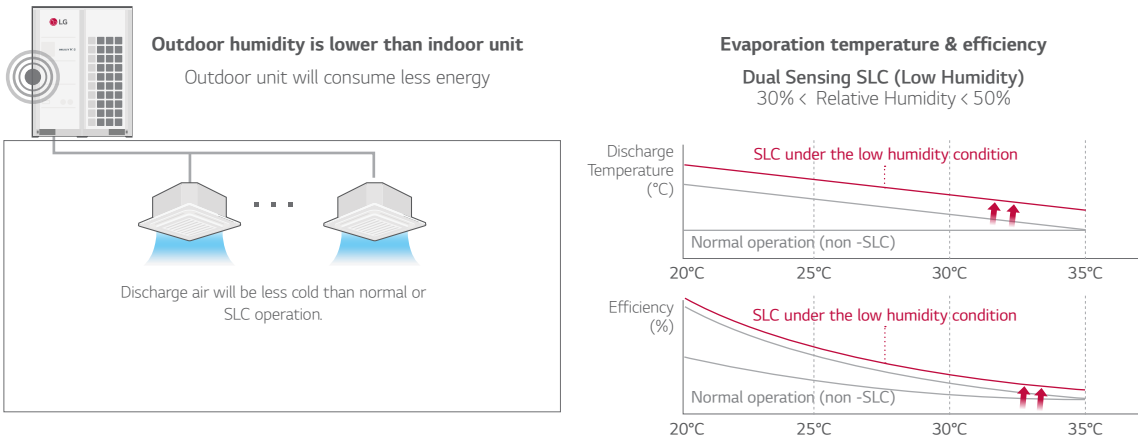
A3

During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode.

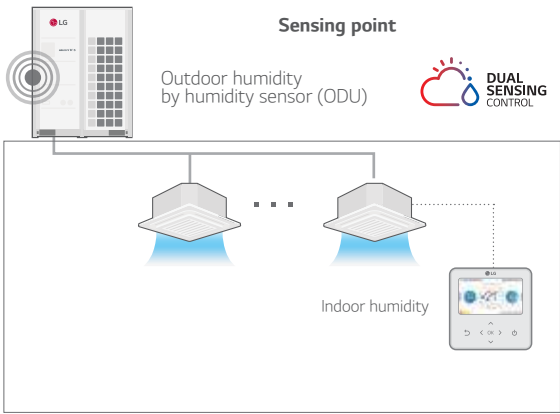
- When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but more efficiency than normal operation.



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



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



SLC Setting

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

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

Function

Comfort Cooling

ODU Refrigerant Noise Reduction

Defrost Mode

Smart Load Control

Setting summary

DIP-SW01 #5 On

Func > Fn14 > Off, op1 ~ op3

Setting summary

Function?

Smart Load Control

Off, op1 ~ op3

※ User can turn off humidity control in ODU Setting (humidity reference)

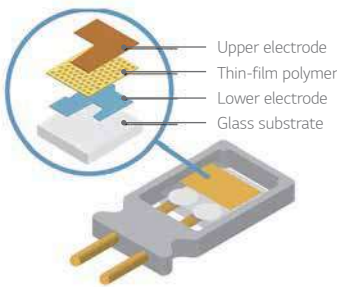
<Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

MULTI V 5 Q&A

Q4 What is the principle and accuracy of humidity sensor?

A4 Total Tolerance (%) = Sensor measurement tolerance (%) + Location of sensor tolerance (%)

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



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

Q5 What is difference in refrigerant piping connection between heat pump and heat recovery?

A5 From MULTI V 5, Low pressure gas pipe in heat pump operation changes to high pressure gas pipe in heat recovery operation due to internal cycle. So for heat pump cycle, no. 1, 3 pipe should be connected and for heat recovery operation, No. 1, 2, 3 pipe is connected. (For the heat pump operation, DO NOT connect No.2 pipe)

Heat Recovery Installation

8HP	9.52	19.05	15.88
10HP	9.52	22.2	19.05
20HP	15.88	28.58	22.2

Heat Pump Installation

8HP	9.52	No Use	19.05
10HP	9.52	No Use	22.2
20HP	15.88	No Use	28.58

Reducer for Gas Pipe

15.88	→	19.05
19.05	→	22.2
22.2	→	28.58

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

MULTI V 5 Q&A

Other Questions

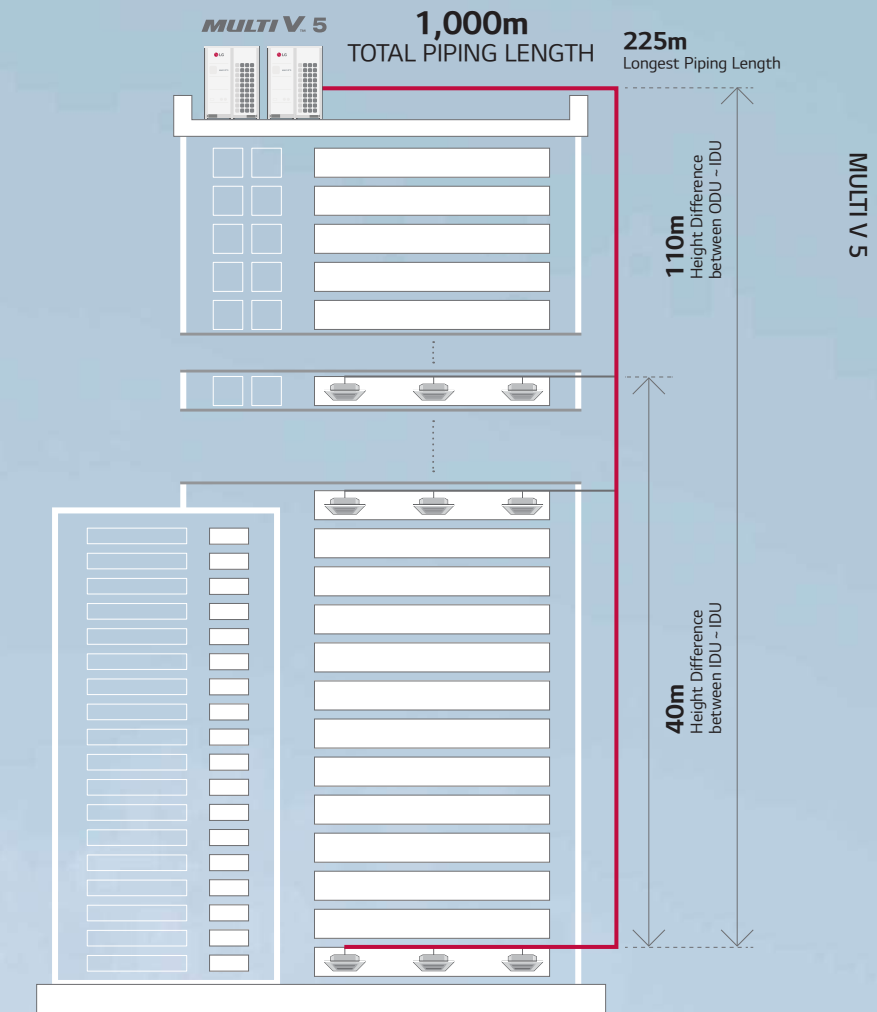
Item	Question	Answer
Fan	The static pressure of MULTI V 5 is max. 8 mmAq as MULTI V IV??	Yes, the static pressure of MULTI V 5 is the same as MULTI V IV.
Compressor	Is the limitation of Compressor max. Hz applied by the capacity of outdoor unit?	No, the limitation of comp Hz is not applied for default. But, it can be set by option for limitation of max. Hz (or current).
VI	In case of vapor injection, how much is the middle pressure?	The optimal middle pressure for vapor injection is 1.2 P _s *. *P _s : Suction pressure of compressor.
VI	By how much is heating capacity increased by vapor injection?	Generally, the heating capacity is increased up to 15 ~ 20%.
Humidity Sensor	Where is Indoor Humidity sensor?	It is placed inside of the RS3 remote controller.
Remote Controller	Does remote controller show the humidity information (Status) as well?	Yes. It shows the current humidity information on screen. (for RS3 Only) But has no function to control the humidity.
Remote Controller	Is it possible to connect the local humidity sensor with Remote controller (RS3)?	No. All of RS3 remote controller can not be connected with local humidity sensor.
SLC	Does dual sensing SLC function control the humidity ratio?	No. There is no control of humidity ratio.
SLC	Is SLC fully used on Eurovent? Isn't humidity fixed for the test? What about AHRI?	Eurovent (RH 47%) and AHRI (RH 51%) have fixed humidity test condition.
Comfort Cooling	Why is not the comfort heating applied in product?	Comfort cooling need super heating controlled and Comfort heating need sub cooling controlled. In case of controlling EEV for sub cooling, noise and stable operation may be affected and critical.
Installation	Does the IDU – Central controller direct connection for communication cable is possible? (Flat connection)	No, it is not possible.

MULTI V™ 5 HEAT PUMP

- Air Cooled VRF Heat Pump
- 22.4kW ~ 268.8kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Top discharge outdoor unit

1,000M
TOTAL PIPING LENGTH

Design
For
The Ultimate



Energy savings



Reliability



Low noise



Advanced performance

How does it work?

Dual Sensing



Partial Defrost



MULTI V 5 HEAT PUMP

ARUN08LTE5 / ARUN100LTE5
ARUN120LTE5 / ARUN140LTE5



HP			8	10	12	14
Model Name	Combination Unit		ARUN08LTE5	ARUN100LTE5	ARUN120LTE5	ARUN140LTE5
	Independent Unit		ARUN080LTE5	ARUN100LTE5	ARUN120LTE5	ARUN140LTE5
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	Heating (Rated)	kW	25.2	31.5	37.8	44.1
		Btu/h	86,000	107,500	129,000	150,500
Input	Cooling (Rated)	kW	4.59	5.70	7.91	9.12
	Heating (Rated)	kW	4.74	5.78	8.06	9.78
EER (Rated)			4.88	4.91	4.25	4.30
COP (Rated)			5.32	5.45	4.69	4.51
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
	Air Flow Rate (High)	m³/min	240 x 1	240 x 1	240 x 1	320 x 1
		ft³/min	8,476 x 1	8,476 x 1	8,476 x 1	11,301 x 1
	External Static Pressure (Max, Pa)		80	80	80	80
	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)
Dimensions (W x H x D)		mm x No.	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1
Net Weight			kg	188 x 1	188 x 1	220 x 1
			lbs	448 x 1	448 x 1	507 x 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.0	59.0	60.0
	Heating	dB(A)	59.0	59.0	60.0	61.0
Sound Power Level	Cooling	dB(A)	78.0	78.0	79.0	82.0
	Heating	dB(A)	79.0	79.0	80.0	84.0
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	10.0	10.0	10.0	13.0
		lbs	22.0	22.0	22.0	28.7
	t-CO₂eq		20.9	20.9	20.9	27.1
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			13 (20)	16 (25)	20 (30)	23 (35)

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN160LTE5 / ARUN180LTE5
ARUN200LTE5 / ARUN220LTE5



HP			16	18	20	22
Model Name	Combination Unit		ARUN160LTE5	ARUN180LTE5	ARUN200LTE5	ARUN220LTE5
	Independent Unit		ARUN160LTE5	ARUN180LTE5	ARUN200LTE5	ARUN220LTE5
Capacity	Cooling (Rated)	kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	Heating (Rated)	kW	50.4	56.7	63.0	69.3
		Btu/h	172,000	193,500	215,000	236,500
Input	Cooling (Rated)	kW	10.80	10.96	12.31	14.84
	Heating (Rated)	kW	11.59	12.06	15.52	17.54
EER (Rated)			4.15	4.60	4.55	4.15
COP (Rated)			4.35	4.70	4.06	3.95
Power Factor		Rated	-	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2	5,300 x 2
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rate (High)	m³/min	320 x 1	320 x 1	320 x 1	320 x 1
		ft³/min	11,301 x 1	11,301 x 1	11,301 x 1	11,301 x 1
	External Static Pressure (Max, Pa)		80	80	80	80
	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1
Net Weight		kg	220 x 1	260 x 1	274 x 1	274 x 1
		lbs	507 x 1	595 x 1	635 x 1	635 x 1
Sound Pressure Level	Cooling	dB(A)	60.5	61.0	62.0	64.5
	Heating	dB(A)	61.5	62.0	64.5	65.5
Sound Power Level	Cooling	dB(A)	83.0	85.0	86.0	86.0
	Heating	dB(A)	85.0	86.0	87.0	88.0
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0	13.0	14.0	14.0
		lbs	28.7	28.7	30.9	30.9
	t-CO₂eq		27.1	27.1	29.2	29.2
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			26 (40)	29 (45)	32 (50)	35 (56)

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

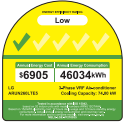
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN24OLTE5 / ARUN26OLTE5



HP			24	26
				
Model Name	Combination Unit		ARUN24OLTE5	ARUN26OLTE5
	Independent Unit		ARUN24OLTE5	ARUN26OLTE5
Capacity	Cooling (Rated)	kW	67.2	72.8
		Btu/h	229,300	248,400
	Heating (Rated)	kW	74.3	74.3
		Btu/h	253,400	253,400
Input	Cooling (Rated)	kW	16.76	19.41
	Heating (Rated)	kW	18.85	19.49
EER (Rated)			4.01	3.75
COP (Rated)			3.94	3.81
Power Factor		-	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2
	Type		Propeller fan	Propeller fan
Fan	Motor Output x Number	W	900 x 2	900 x 2
	Air Flow Rate (High)	m³/min	320 x 1	320 x 1
		ft³/min	11,301 x 1	11,301 x 1
	External Static Pressure (Max, Pa)		80	80
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	15.88 (5/8)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1
Net Weight		kg	276 x 1	276 x 1
		lbs	639 x 1	639 x 1
Sound Pressure Level	Cooling	dB(A)	65.0	65.0
	Heating	dB(A)	67.0	67.0
Sound Power Level	Cooling	dB(A)	88.0	88.0
	Heating	dB(A)	90.0	90.0
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount in factory	kg	16.0	16.0
		lbs	35.3	35.3
	t-CO₂eq		33.4	33.4
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50
			3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			39 (61)	42 (64)

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN261LTE5 / ARUN28OLTE5
ARUN300LTE5 / ARUN32OLTE5



HP			26'	28	30	32
Model Name	Combination Unit		ARUN261LTE5	ARUN28OLTE5	ARUN300LTE5	ARUN32OLTE5
	Independent Unit		ARUN14OLTE5 ARUN12OLTE5	ARUN16OLTE5 ARUN12OLTE5	ARUN18OLTE5 ARUN12OLTE5	ARUN20OLTE5 ARUN12OLTE5
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0	89.6
		Btu/h	248,400	267,500	286,600	305,700
	Heating (Rated)	kW	81.9	88.2	94.5	100.8
		Btu/h	279,500	301,000	322,500	344,000
Input	Cooling (Rated)	kW	17.02	18.70	18.86	20.21
	Heating (Rated)	kW	17.84	19.65	20.12	23.58
EER (Rated)			4.28	4.19	4.45	4.43
COP (Rated)			4.59	4.49	4.70	4.28
Power Factor		Rated -	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	(5,300 x 2) + (4,200 x 1)	(5,300 x 2) + (4,200 x 1)
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
	Air Flow Rate (High)	m³/min	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)
		ft³/min	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)
	External Static Pressure (Max, Pa)		80	80	80	80
	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1
Net Weight		kg	(220 x 1) + (188 x 1)	(220 x 1) + (188 x 1)	(260 x 1) + (188 x 1)	(274 x 1) + (188 x 1)
		lbs	(507 x 1) + (448 x 1)	(507 x 1) + (448 x 1)	(595 x 1) + (448 x 1)	(635 x 1) + (448 x 1)
Sound Pressure Level	Cooling	dB(A)	62.5	62.8	63.1	63.8
	Heating	dB(A)	63.5	63.8	64.1	65.8
Sound Power Level	Cooling	dB(A)	83.8	84.5	86.0	86.8
	Heating	dB(A)	85.5	86.2	87.0	87.8
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0 + 10.0	13.0 + 10.0	13.0 + 10.0	14.0 + 10.0
		lbs	28.7 + 22.0	28.7 + 22.0	28.7 + 22.0	30.9 + 22.0
	t-CO₂eq		48.0	48.0	48.0	50.1
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			42 (52)	45 (56)	49 (60)	52 (64)

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN340LTE5 / ARUN360LTE5
ARUN380LTE5 / ARUN400LTE5



HP			34	36	38	40
Model Name	Combination Unit		ARUN340LTE5	ARUN360LTE5	ARUN380LTE5	ARUN400LTE5
	Independent Unit		ARUN220LTE5 ARUN120LTE5	ARUN240LTE5 ARUN120LTE5	ARUN240LTE5 ARUN140LTE5	ARUN240LTE5 ARUN160LTE5
Capacity	Cooling (Rated)	kW	95.2	100.8	106.4	112.0
		Btu/h	324,800	343,900	363,100	382,200
	Heating (Rated)	kW	107.1	112.1	118.4	124.7
		Btu/h	365,500	382,400	403,900	425,400
Input	Cooling (Rated)	kW	22.75	24.66	25.87	27.55
	Heating (Rated)	kW	25.60	26.91	28.62	30.43
EER (Rated)			4.18	4.09	4.11	4.06
COP (Rated)			4.18	4.16	4.13	4.10
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3	5,300 x 3
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	900 x 4	900 x 4
	Air Flow Rate (High)	m³/min	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	320 x 2	320 x 2
		ft³/min	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)	11,301 x 2	11,301 x 2
	External Static Pressure (Max, Pa)		80	80	80	80
	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)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2
Net Weight		kg	(274 x 1) + (188 x 1)	(276 x 1) + (188 x 1)	(276 x 1) + (220 x 1)	(276 x 1) + (220 x 1)
		lbs	(635 x 1) + (448 x 1)	(639 x 1) + (448 x 1)	(639 x 1) + (507 x 1)	(639 x 1) + (507 x 1)
Sound Pressure Level	Cooling	dB(A)	65.6	66.0	66.2	66.3
	Heating	dB(A)	66.6	67.8	68.0	68.1
Sound Power Level	Cooling	dB(A)	86.8	88.5	89.0	89.2
	Heating	dB(A)	88.6	90.4	91.0	91.2
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 10.0	16.0 + 10.0	16.0 + 13.0	16.0 + 13.0
		lbs	30.9 + 22.0	35.3 + 22.0	35.3 + 28.7	35.3 + 28.7
	t-CO₂eq		50.1	54.3	60.5	60.5
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			55 (64)	58 (64)	61 (64)	64

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN420LTE5 / ARUN440LTE5
ARUN460LTE5 / ARUN480LTE5



HP			42	44	46	48
Model Name	Combination Unit		ARUN420LTE5	ARUN440LTE5	ARUN460LTE5	ARUN480LTE5
	Independent Unit		ARUN240LTE5 ARUN180LTE5	ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN220LTE5	ARUN240LTE5 ARUN240LTE5
Capacity	Cooling (Rated)	kW	117.6	123.2	128.8	134.4
		Btu/h	401,300	420,400	439,500	458,600
	Heating (Rated)	kW	131.0	137.3	143.6	148.5
		Btu/h	446,900	468,400	489,900	506,800
Input	Cooling (Rated)	kW	27.71	29.07	31.60	33.52
	Heating (Rated)	kW	30.91	34.36	36.39	37.69
EER (Rated)			4.24	4.24	4.08	4.01
COP (Rated)			4.24	3.99	3.94	3.94
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	(5,300 x 3) + (4,200 x 1)	5,300 x 4	5,300 x 4	5,300 x 4
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 4	900 x 4	900 x 4	900 x 4
	Air Flow Rate (High)	m³/min	320 x 2	320 x 2	320 x 2	320 x 2
		ft³/min	11,301 x 2	11,301 x 2	11,301 x 2	11,301 x 2
	External Static Pressure (Max, Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connections	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Dimensions (W x H x D)	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2
Net Weight		kg	(276 x 1) + (260 x 1)	(276 x 1) + (274 x 1)	(276 x 1) + (274 x 1)	276 x 2
		lbs	(639 x 1) + (595 x 1)	(639 x 1) + (635 x 1)	(639 x 1) + (635 x 1)	639 x 2
Sound Pressure Level	Cooling	dB(A)	66.5	66.8	67.8	68.0
	Heating	dB(A)	68.2	68.9	69.3	70.0
Sound Power Level	Cooling	dB(A)	89.8	90.1	90.1	91.0
	Heating	dB(A)	91.5	91.8	92.1	93.0
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 13.0	16.0 + 14.0	16.0 + 14.0	16.0 + 16.0
		lbs	35.3 + 28.7	35.3 + 30.9	35.3 + 30.9	35.3 + 35.3
	t-CO₂eq		60.5	62.6	62.6	66.8
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN500LTE5 / ARUN520LTE5
ARUN540LTE5 / ARUN560LTE5



HP			50	52	54	56
Model Name	Combination Unit		ARUN500LTE5	ARUN520LTE5	ARUN540LTE5	ARUN560LTE5
	Independent Unit		ARUN240LTE5 ARUN140LTE5 ARUN120LTE5	ARUN240LTE5 ARUN160LTE5 ARUN120LTE5	ARUN240LTE5 ARUN180LTE5 ARUN120LTE5	ARUN240LTE5 ARUN200LTE5 ARUN120LTE5
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2	156.8
		Btu/h	477,700	496,800	515,900	535,000
	Heating (Rated)	kW	156.2	162.5	168.8	175.1
		Btu/h	532,900	554,400	575,900	597,400
Input	Cooling (Rated)	kW	33.78	35.46	35.62	36.97
	Heating (Rated)	kW	36.68	38.49	38.97	42.42
EER (Rated)			4.14	4.11	4.24	4.24
COP (Rated)			4.26	4.22	4.33	4.13
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 4	5,300 x 4	(5,300 x 4) + (4,200 x 1)	5,300 x 5
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)
	Air Flow Rate (High)	m³/min	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)
		ft³/min	(11,301 x 2) + (8,476 x 1)	(11,301 x 2) + (8,476 x 1)	(11,301 x 2) + (8,476 x 1)	(11,301 x 2) + (8,476 x 1)
	External Static Pressure (Max, Pa)		80	80	80	80
	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1
Net Weight		kg	(276 x 1) + (220 x 1) + (188 x 1)	(276 x 1) + (220 x 1) + (188 x 1)	(276 x 1) + (260 x 1) + (188 x 1)	(276 x 1) + (274 x 1) + (188 x 1)
		lbs	(639 x 1) + (507 x 1) + (448 x 1)	(639 x 1) + (507 x 1) + (448 x 1)	(639 x 1) + (595 x 1) + (448 x 1)	(639 x 1) + (635 x 1) + (448 x 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.1	67.2	67.4
	Heating	dB(A)	68.6	68.7	68.8	69.5
Sound Power Level	Cooling	dB(A)	89.4	89.6	90.1	90.4
	Heating	dB(A)	91.3	91.5	91.8	92.0
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 13.0 + 10.0	16.0 + 13.0 + 10.0	16.0 + 13.0 + 10.0	16.0 + 14.0 + 10.0
		lbs	35.3 + 28.7 + 22.0	35.3 + 28.7 + 22.0	35.3 + 28.7 + 22.0	35.3 + 30.9 + 22.0
	t-CO₂eq		81.4	81.4	81.4	83.5
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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN580LTE5 / ARUN600LTE5
ARUN620LTE5 / ARUN640LTE5



HP			58	60	62	64
Model Name	Combination Unit		ARUN580LTE5	ARUN600LTE5	ARUN620LTE5	ARUN640LTE5
	Independent Unit		ARUN240LTE5 ARUN220LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN140LTE5	ARUN240LTE5 ARUN240LTE5 ARUN160LTE5
Capacity	Cooling (Rated)	kW	162.4	168.0	173.6	179.2
		Btu/h	554,100	573,200	592,400	611,500
	Heating (Rated)	kW	181.4	186.3	192.6	198.9
		Btu/h	618,900	635,800	657,300	678,800
Input	Cooling (Rated)	kW	39.51	41.42	42.63	44.31
	Heating (Rated)	kW	44.45	45.75	47.47	49.28
EER (Rated)			4.11	4.06	4.07	4.04
COP (Rated)			4.08	4.07	4.06	4.04
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 5	5,300 x 5	5,300 x 5	5,300 x 5
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	900 x 6	900 x 6
	Air Flow Rate (High)	m³/min	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	320 x 3	320 x 3
		ft³/min	(11,301 x 2) + (8,476 x 1)	(11,301 x 2) + (8,476 x 1)	11,301 x 3	11,301 x 3
	External Static Pressure (Max, Pa)		80	80	80	80
	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)	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3
Net Weight		kg	(276 x 1) + (274 x 1) + (188 x 1)	(276 x 2) + (188 x 1)	(276 x 2) + (220 x 1)	(276 x 2) + (220 x 1)
		lbs	(639 x 1) + (635 x 1) + (448 x 1)	(639 x 2) + (448 x 1)	(639 x 2) + (507 x 1)	(639 x 2) + (507 x 1)
Sound Pressure Level	Cooling	dB(A)	68.3	68.5	68.6	68.7
	Heating	dB(A)	69.8	70.4	70.5	70.6
Sound Power Level	Cooling	dB(A)	90.4	91.3	91.5	91.6
	Heating	dB(A)	92.4	93.2	93.5	93.6
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 14.0 + 10.0	16.0 + 16.0 + 10.0	16.0 + 16.0 + 13.0	16.0 + 16.0 + 13.0
		lbs	35.3 + 30.9 + 22.0	35.3 + 35.3 + 22.0	35.3 + 35.3 + 28.7	35.3 + 35.3 + 28.7
	t-CO₂eq		83.5	87.7	93.9	93.9
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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN660LTE5 / ARUN680LTE5
ARUN700LTE5 / ARUN720LTE5



HP			66	68	70	72
Model Name	Combination Unit		ARUN660LTE5	ARUN680LTE5	ARUN700LTE5	ARUN720LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN180LTE5	ARUN240LTE5 ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN240LTE5 ARUN220LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5
Capacity	Cooling (Rated)	kW	184.8	190.4	196.0	201.6
		Btu/h	630,600	649,700	668,800	687,900
	Heating (Rated)	kW	205.2	211.5	217.8	222.8
		Btu/h	700,300	721,800	743,300	760,200
Input	Cooling (Rated)	kW	44.47	45.82	48.36	50.27
	Heating (Rated)	kW	49.76	53.21	55.24	56.54
EER (Rated)			4.16	4.16	4.05	4.01
COP (Rated)			4.12	3.97	3.94	3.94
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	(5,300 x 5) + (4,200 x 1)	5,300 x 6	5,300 x 6	5,300 x 6
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 x 6	900 x 6
	Air Flow Rate (High)	m³/min	320 x 3	320 x 3	320 x 3	320 x 3
		ft³/min	11,301 x 3	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressure (Max, Pa)		80	80	80	80
	Drive		DC INVERTER	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)	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)
Dimensions (W x H x D)			mm x No.	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3
Net Weight		kg	(276 x 2) + (260 x 1)	(276 x 2) + (274 x 1)	(276 x 2) + (274 x 1)	276 x 3
		lbs	(639 x 2) + (595 x 1)	(639 x 2) + (635 x 1)	(639 x 2) + (635 x 1)	639 x 3
Sound Pressure Level	Cooling	dB(A)	68.8	69.0	69.6	69.8
	Heating	dB(A)	70.6	71.1	71.3	71.8
Sound Power Level	Cooling	dB(A)	92.0	92.2	92.2	92.8
	Heating	dB(A)	93.8	94.0	94.2	94.8
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 13.0	16.0 + 16.0 + 14.0	16.0 + 16.0 + 14.0	16.0 + 16.0 + 16.0
		lbs	35.3 + 35.3 + 28.7	35.3 + 35.3 + 30.9	35.3 + 35.3 + 30.9	35.3 + 35.3 + 35.3
	t-CO₂eq		93.9	96.0	96.0	100.2
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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN740LTE5 / ARUN760LTE5
ARUN780LTE5 / ARUN800LTE5



HP			74	76	78	80
Model Name	Combination Unit		ARUN740LTE5	ARUN760LTE5	ARUN780LTE5	ARUN800LTE5
	Independent Unit		ARUN240LTE5	ARUN240LTE5	ARUN240LTE5	ARUN240LTE5
			ARUN240LTE5	ARUN240LTE5	ARUN240LTE5	ARUN240LTE5
			ARUN140LTE5	ARUN160LTE5	ARUN180LTE5	ARUN200LTE5
		ARUN120LTE5	ARUN120LTE5	ARUN120LTE5	ARUN120LTE5	
Capacity	Cooling (Rated)	kW	207.2	212.8	218.4	224.0
		Btu/h	707,000	726,100	745,200	764,300
	Heating (Rated)	kW	230.4	236.7	243.0	249.3
		Btu/h	786,300	807,800	829,300	850,800
Input	Cooling (Rated)	kW	50.54	52.22	52.38	53.73
	Heating (Rated)	kW	55.53	57.34	57.82	61.27
EER (Rated)			4.10	4.08	4.17	4.17
COP (Rated)			4.15	4.13	4.20	4.07
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 6	5,300 x 6	(5,300 x 6) + (4,200 x 1)	5,300 x 7
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)
	Air Flow Rate (High)	m³/min	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)
		ft³/min	(11,301 x 3) + (8,476 x 1)	(11,301 x 3) + (8,476 x 1)	(11,301 x 3) + (8,476 x 1)	(11,301 x 3) + (8,476 x 1)
	External Static Pressure (Max, Pa)		80	80	80	80
	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1
Net Weight		kg	(276 x 2) + (220 x 1) + (188 x 1)	(276 x 2) + (220 x 1) + (188 x 1)	(276 x 2) + (260 x 1) + (188 x 1)	(276 x 2) + (274 x 1) + (188 x 1)
		lbs	(639 x 2) + (507 x 1) + (448 x 1)	(639 x 2) + (507 x 1) + (448 x 1)	(639 x 2) + (595 x 1) + (448 x 1)	(639 x 2) + (635 x 1) + (448 x 1)
Sound Pressure Level	Cooling	dB(A)	69.1	69.2	69.2	69.4
	Heating	dB(A)	70.9	70.9	71.0	71.4
Sound Power Level	Cooling	dB(A)	91.8	91.9	92.2	92.4
	Heating	dB(A)	93.7	93.8	94.0	94.2
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 14.0 + 10.0
		lbs	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 30.9 + 22.0
	t-CO₂eq		114.8	114.8	114.8	116.9
	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
			3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN820LTE5 / ARUN840LTE5
ARUN860LTE5 / ARUN880LTE5



HP			82	84	86	88
Model Name	Combination Unit		ARUN820LTE5	ARUN840LTE5	ARUN860LTE5	ARUN880LTE5
	Independent Unit		ARUN240LTE5	ARUN240LTE5	ARUN240LTE5	ARUN240LTE5
			ARUN240LTE5	ARUN240LTE5	ARUN240LTE5	ARUN240LTE5
			ARUN220LTE5	ARUN240LTE5	ARUN240LTE5	ARUN240LTE5
		ARUN120LTE5	ARUN120LTE5	ARUN140LTE5	ARUN160LTE5	
Capacity	Cooling (Rated)	kW	229.6	235.2	240.8	246.4
		Btu/h	783,400	802,500	821,700	840,800
	Heating (Rated)	kW	255.6	260.6	266.9	273.2
		Btu/h	872,300	889,200	910,700	932,200
Input	Cooling (Rated)	kW	56.27	58.18	59.39	61.07
	Heating (Rated)	kW	63.30	64.60	66.32	68.13
EER (Rated)			4.08	4.04	4.05	4.03
COP (Rated)			4.04	4.03	4.02	4.01
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 7	5,300 x 7	5,300 x 7	5,300 x 7
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	900 x 8	900 x 8
	Air Flow Rate (High)	m³/min	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	320 x 4	320 x 4
		ft³/min	(11,301 x 3) + (8,476 x 1)	(11,301 x 3) + (8,476 x 1)	11,301 x 4	11,301 x 4
	External Static Pressure (Max, Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connections	Discharge	Side / Top	TOP	TOP	TOP	TOP
	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)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4
Net Weight		kg	(276 x 2) + (274 x 1) + (188 x 1)	(276 x 3) + (188 x 1)	(276 x 3) + (188 x 1)	(276 x 3) + (220 x 1)
		lbs	(639 x 2) + (635 x 1) + (448 x 1)	(639 x 3) + (448 x 1)	(639 x 3) + (507 x 1)	(639 x 3) + (507 x 1)
Sound Pressure Level	Cooling	dB(A)	70.0	70.1	70.2	70.3
	Heating	dB(A)	71.6	72.1	72.1	72.2
Sound Power Level	Cooling	dB(A)	92.4	92.9	93.1	93.2
	Heating	dB(A)	94.4	94.9	95.1	95.2
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	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 14.0 + 10.0	16.0 + 16.0 + 16.0 + 10.0	16.0 + 16.0 + 16.0 + 13.0	16.0 + 16.0 + 16.0 + 13.0
		lbs	35.3 + 35.3 + 30.9 + 22.0	35.3 + 35.3 + 35.3 + 22.0	35.3 + 35.3 + 35.3 + 28.7	35.3 + 35.3 + 35.3 + 28.7
	t-CO₂eq		116.9	121.1	127.3	127.3
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50 3, 380, 60	3, 380-415, 50 3, 380, 60	3, 380-415, 50 3, 380, 60	3, 380-415, 50 3, 380, 60
Number of maximum connectable indoor units			64	64	64	64

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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V 5 HEAT PUMP

ARUN900LTE5 / ARUN920LTE5
ARUN940LTE5 / ARUN960LTE5



HP			92	94
Model Name	Combination Unit		ARUN920LTE5	ARUN940LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN220LTE5
Capacity	Cooling (Rated)	kW	257.6	263.2
		Btu/h	879,000	898,100
	Heating (Rated)	kW	285.8	292.1
		Btu/h	975,200	996,700
Input	Cooling (Rated)	kW	62.58	65.12
	Heating (Rated)	kW	72.06	74.08
EER (Rated)			4.12	4.04
COP (Rated)			3.97	3.94
Power Factor	Rated	-	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output x Number	W x No.	5,300 x 8	5,300 x 8
	Type		Propeller fan	Propeller fan
Fan	Motor Output x Number	W	900 x 8	900 x 8
	Air Flow Rate (High)	m³/min	320 x 4	320 x 4
		ft³/min	11,301 x 4	11,301 x 4
	External Static Pressure (Max, Pa)		80	80
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4
Net Weight	kg		(276 x 3) + (274 x 1)	(276 x 3) + (274 x 1)
	lbs		(639 x 3) + (635 x 1)	(639 x 3) + (635 x 1)
Sound Pressure Level	Cooling	dB(A)	70.4	70.9
	Heating	dB(A)	72.5	72.7
Sound Power Level	Cooling	dB(A)	93.6	93.6
	Heating	dB(A)	95.4	95.6
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 16.0 + 14.0	16.0 + 16.0 + 16.0 + 14.0
		lbs	35.3 + 35.3 + 35.3 + 30.9	35.3 + 35.3 + 35.3 + 30.9
	t-CO₂eq		129.4	129.4
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50 3, 380, 60	3, 380-415, 50 3, 380, 60
Number of maximum connectable indoor units			64	64

Note

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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. Power factor could vary less than ±1% according to the operating conditions.

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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 Zero.

6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

INDOOR UNITS

WALL MOUNTED

CEILING MOUNTED CASSETTE

CEILING MOUNTED ROUND CASSETTE

CEILING CONCEALED DUCT

FRESH AIR INTAKE

CEILING SUSPENDED

CONSOLE



WALL MOUNTED



Features & Benefits

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

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

※ ○: Applied, - : Not applied

Key Applications

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

SMART

Wi-Fi Control

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



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

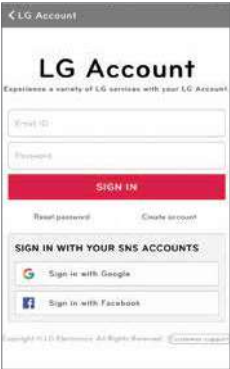
Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Easy Registration and Log-in

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



* Wi-Fi modem (Option) is necessary for this function

Simple operation for various functions



On/Off, Current Temp



Mode, Set Temp



Vane Control

Straight forward Management



Reservation



Energy Monitoring



Smart Diagnosis



Filter Management

Access your air conditioner anytime and from anywhere

With a Wi-Fi equipped device and LG's exclusive control app, LG ThinQ™.



Wi-Fi Connectivity

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

Multiple Devices



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

Multi-Control



FRESH AIR

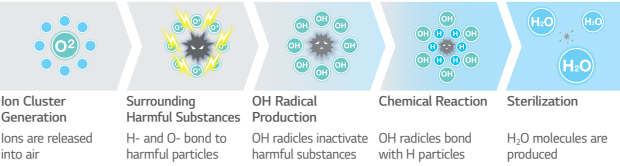
Ionizer^{PLUS}

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

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

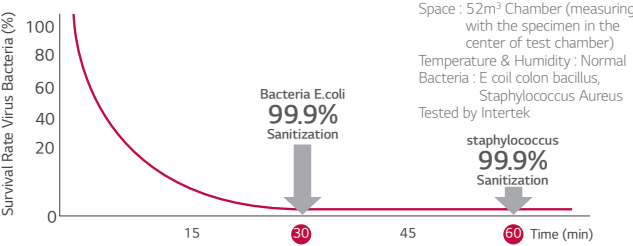
Sterilization and Deodorization (Utilizes Over 3 Million Ions)

Ionizer^{PLUS} reduces E.coli and Staphylococcus in the surface with over 3 million ions.



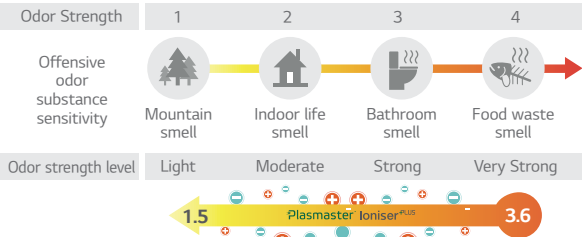
Sterilization Performance Evaluations

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



2.1 odor strength decrease in 60 minutes

An odor of measured as 2 European odor units (ouE/m³) or less indicates that the level of odor falls within permissible limits.



※ Test conditions :
Space: 8m³ Chamber
Temperature & Humidity : Normal
Tested by Intertek

Auto Cleaning

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

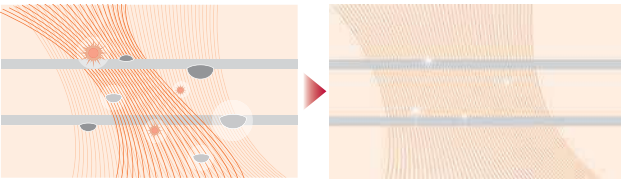
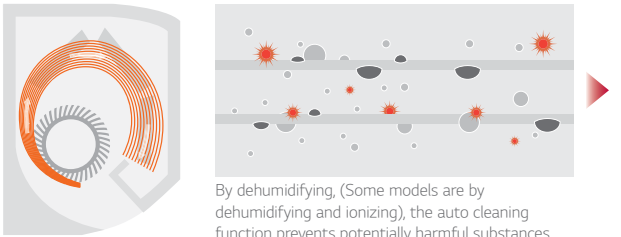
Pain Point

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



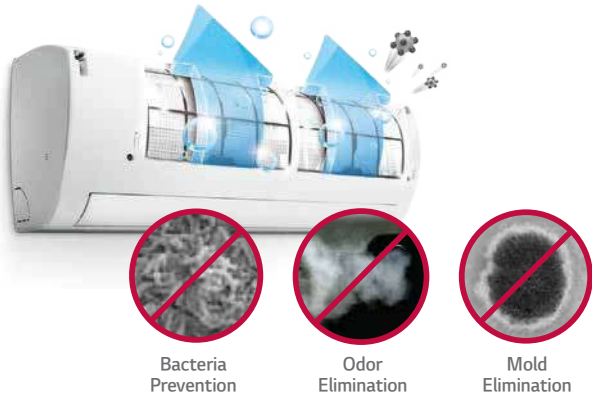
Cleans Filter with Regular Airflow

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



Auto cleaning

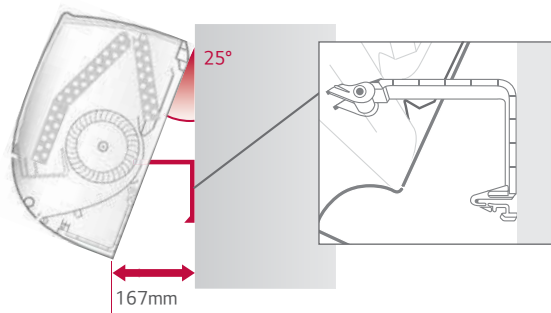
Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



Installation

Installation Support Clip

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



FAST COOLING & HEATING

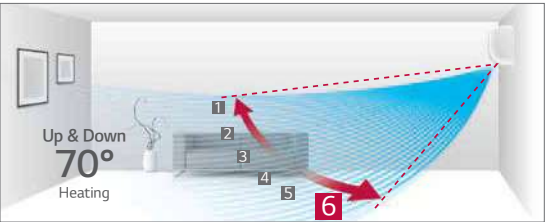
Auto Swing

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

※ Specifications may vary for each model.

6-Step Vane Control up to 70°

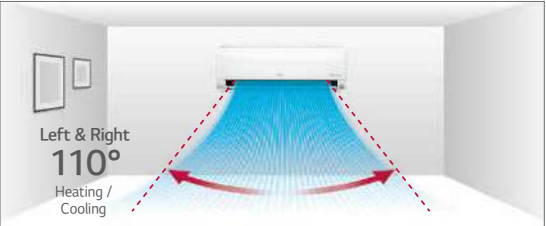
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control up to 110°

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



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

Easy and Simple Control

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



Jet Cool

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

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

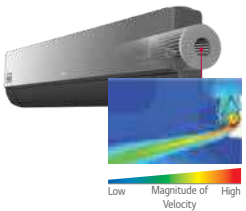
One Click “Jet Mode”

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



More Powerful Performance

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

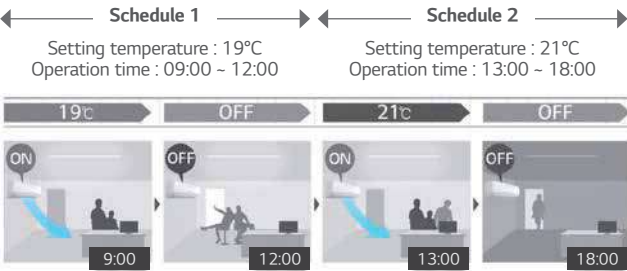


COMFORT

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 canceled by the user.

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



Two Thermistors Control

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



Group Control

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



STANDARD

ARNU05GSJN4 / ARNU07GSJN4
ARNU09GSJN4 / ARNU12GSJN4
ARNU15GSJN4



Model		Unit	ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Exterior Color			White	White	White	White	White
RAL Code			RAL 9016	RAL 9016	RAL 9016	RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189
	Shipping	mm	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249
	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	8.4	8.4	8.4	8.4	8.4
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNV50		
EEV Kit			PRGK024A0		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			○		
CO ₂ Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			○		

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

STANDARD

ARNU18GSK*4 / ARNU24GSK*4
ARNU30GSVA4 / ARNU36GSVA4



Model		Unit	ARNU18GSK*4	ARNU24GSK*4	ARNU30GSVA4	ARNU36GSVA4
Cooling Capacity		kW	5.6	7.1	8.8	10.4
Heating Capacity		kW	6.3	7.5	9.4	10.8
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16	54 / 43 / 31	85 / 51 / 36
Exterior Color			White	White	White	White
RAL Code			RAL 9016	RAL 9016	RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	975 x 354 x 209	975 x 354 x 209	1,190 x 346 x 265	1,190 x 346 x 265
	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274	1,265 x 432 x 335	1,265 x 432 x 335
	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	58 x 1	58 x 1	113 x 1	113 x 1
	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	12.2	12.2	16.6	16.6
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34	49 / 44 / 42	52 / 47 / 43
Sound Power Levels (H / M / L)		dB(A)	63 / 57 / 54	65 / 60 / 54		
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU18GSK*4	ARNU24GSK*4	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-		-	
Cassette Cover	-		-	
Refrigerant Leakage Detector	PRLDNV50		PRLDNV50	
EEV Kit	PRGK024A0		-	
Independent Power Module	PRIP0		PRIP0	
Robot Cleaner	-		-	
Pre Filter (Washable)	○		○	
Ion Generator	○		-	
CO ₂ Sensor	-		-	
Ventilation Kit	-		-	
IR Receiver	-		-	
Zone Controller	-		-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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 MOUNTED CASSETTE



Features & Benefits

- New Dual Vane 4 Way cassette allows comfortable air flow.
- Full 3D Turbo fan decreases air resistance, providing high air flow and low sound levels.

Key Applications

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

Cassette		4 Way	2 Way	1 Way
Smart	Wi-Fi	○	○	○
	Human Detect Sensor	○	-	-
	Drain Pump	○	○	○
	Sleep Mode	○	○	○
Comfort	Timer (On / Off)	○	○	○
	Timer (Weekly)	○	○	○
	Two Thermistor Control	○	○	○
	Group Control	○	○	○

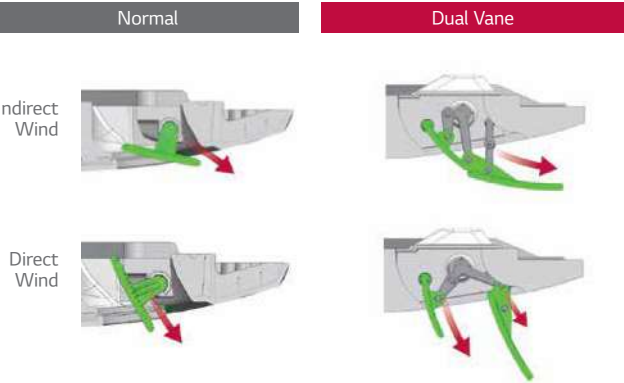
NEW DESIGN

4 Way Air Flow with New Design

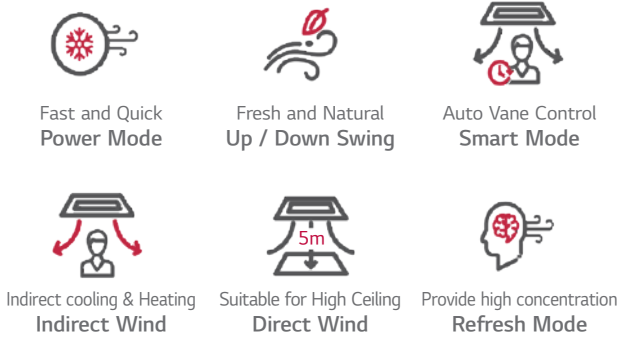
New Excellent Technology (NET) certifies new 4 Way dual vane design that promotes comfortable and convenient airflow.



*New types wind

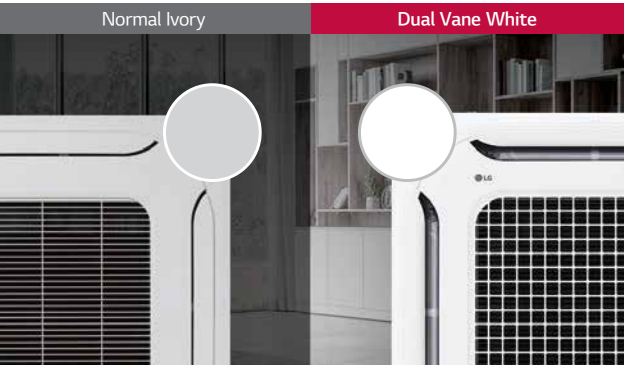


*6 Airflows mode



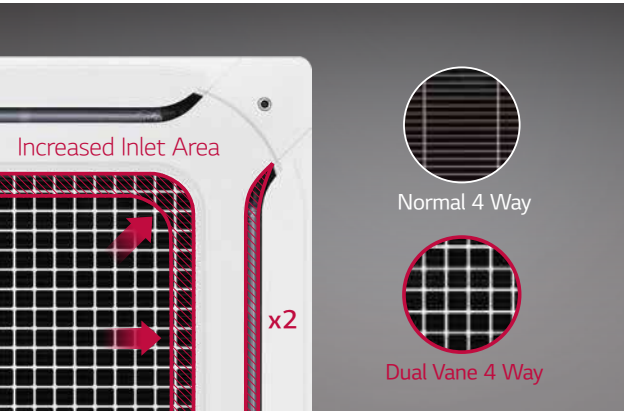
Brighter Color

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



Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



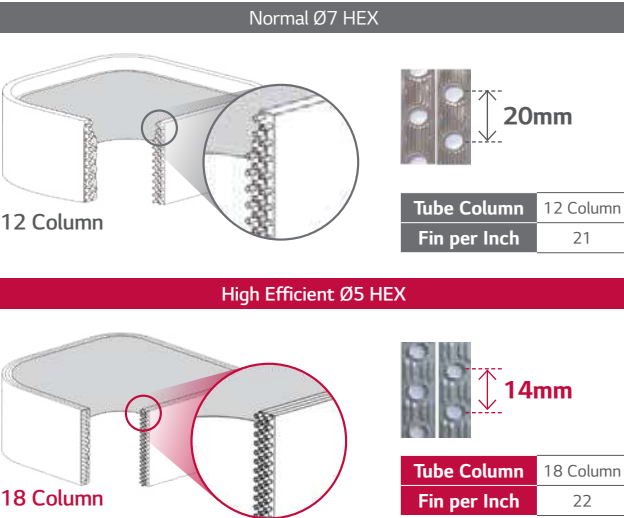
Full 3D Turbo Fan

Full 3D Turbo fan decreases air resistance, so it makes High Efficient and reduces noise level.



High Efficiency Heat Exchanger (HEX)

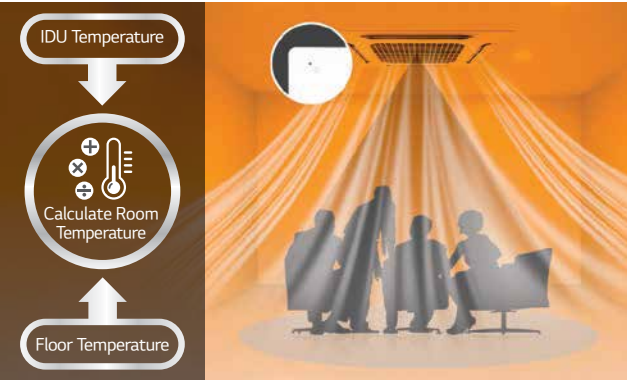
Ø5 High Density Heat Exchanger increases cooling / heating efficiency by 10%.



SMART

Ceiling to Floor Temperature Sensing

With a special sensor that sense both ceiling and floor temperature, Dual Vane 4 Way cassette provides comfort air.



※ Available only for products with floor temperature sensor.

Human-detection Air Flow

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

Indirect comfort

Provides air flow that blows away from user for comfort.



No touch
Indirect airflow
Comfort

Direct cooling

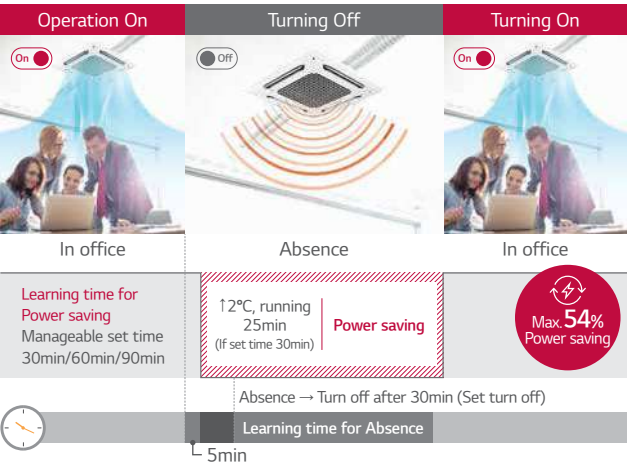
Provides air flow that blows directly onto user for cooling.



Direct airflow
2°C
Cooler

Human Detection for Optimized Efficiency

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



※ Smart Dual Vane Indoor Unit '20 Line up.
※ Data Based on actual test of LG, single product 2 hours measurement result.
(Cooling 26 °C, strong wind)

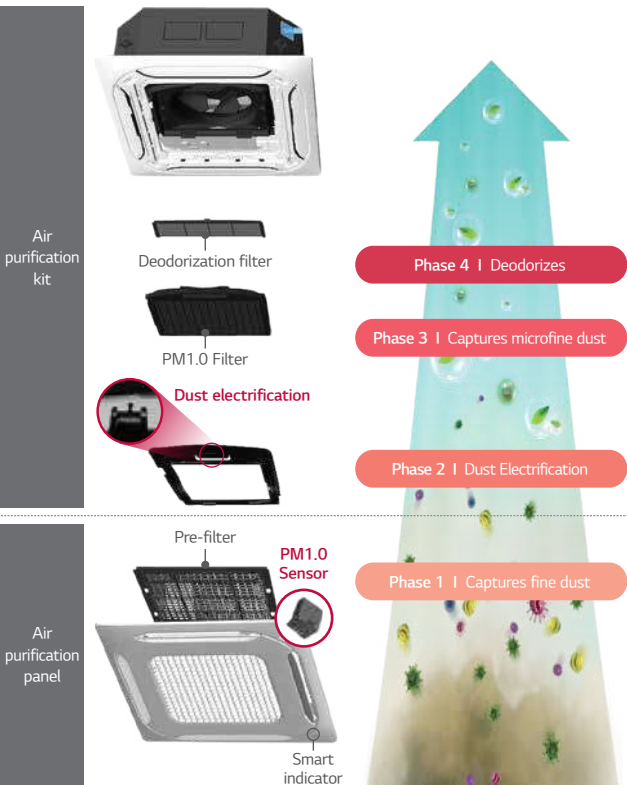
High-performance Air purification

Air cleaning function provides fresh, filtered air.



Convenient & Powerful 4-Step Air purification

It captures 99% of microfine dust (PM1.0)
Besides, Easy-to-maintain system with washable filters



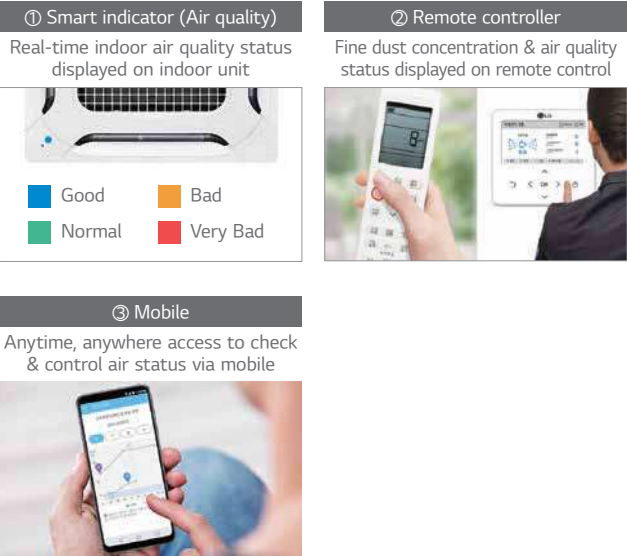
Cycle Management

Pre-filter	Dust Electrification	Ultra Fine Dust Kit	Deodorizing Filter
Easy removable pre-filter	Washable	6 months / Washable	Dry in sunlight

SMART

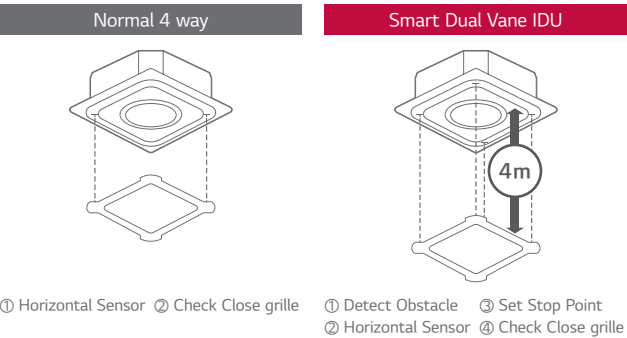
Real-time Air Quality Monitoring

Wi-Fi functionality for anytime, anywhere indoor unit control and air cleaning status display.



Dual Elevating Grille

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



LG ThinQ™ Connectivity

Anytime anywhere access to indoor units with LG ThinQ™ mobile app.

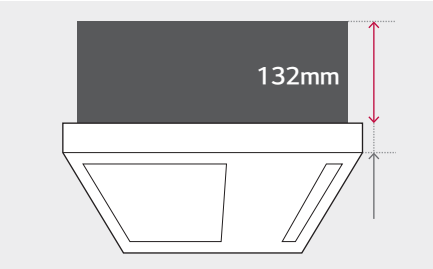


- ① Monitoring Air status
Easy to check indoor air status
• Ultra Fine / Extra Fine / Fine Dust
• Day / Week / Month / Yearly
- ② Mobile Remote Control
Remote control by using mobile phone
• Control Mode / Temperature / Air flow etc.
- ③ Display Power Consumption
Check power consumption of A/C
• Check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

INSTALLATION

Minimized Height

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

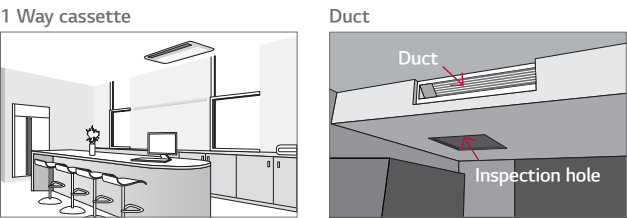


Size Comparison (Unit : mm)

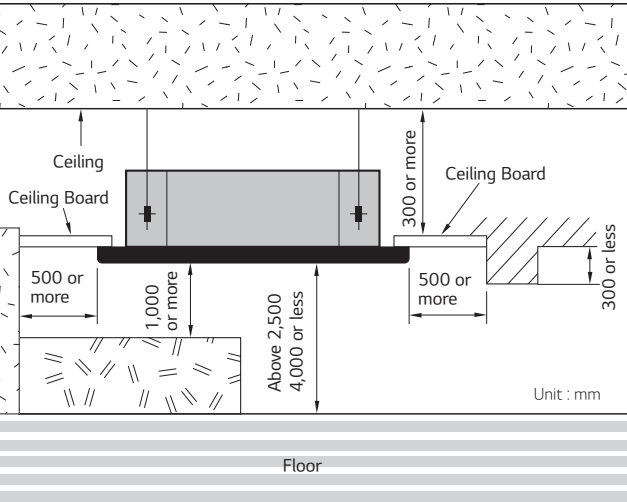
	A Company	B Company	LG
1 Way Cassette	215	230	132

Flexible Installation

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



Installation Standard



DUAL VANE 4 Way CASSETTE (840 X 840)

ARNU24GTBB4 / ARNU28GTBB4
ARNU30GTBB4



Model		Unit	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Cooling Capacity		kW	7.1	8.2	9.0
Heating Capacity		kW	8.0	9.2	10.0
Power Input (H / M / L)	Nominal	W	32 / 27 / 20	37 / 30 / 22	48 / 36 / 25
Dimensions (W x H x D)	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
Fan	Motor Output x Number	W x No.	51 x 1	51 x 1	51 x 1
	Air Flow Rate (H / M / L)	m³/min	18 / 17 / 15	19 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	21	21	21
Sound Pressure Level (H / M / L)		dB(A)	36 / 34 / 31	39 / 35 / 34	40 / 36 / 33
Sound Power Level (H / M / L)		dB(A)	46 / 44 / 42	50 / 46 / 43	53 / 50 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.25 x 2C	1.25 x 2C	1.25 x 2C
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0
	Exterior Color		White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5

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

Accessories

Chassis	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)		○	
Wi-Fi		PWFMDD200	
Human detection sensor		PTVSA0	
Floor Temperature Sensor		PT-AFGW0 : ○	
Air cleaning kit		PT-AFGW0 : PTAHMP0	
Elevation Grille		PT-AEGW0 : ○	

DUAL VANE 4 Way CASSETTE (840 X 840)

ARNU36GTAB4 / ARNU42GTAB4
ARNU48GTAB4



Model		Unit	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Cooling Capacity		kW	10.6	12.3	14.1
Heating Capacity		kW	11.9	13.8	15.9
Power Input (H / M / L)	Nominal	W	69 / 49 / 37	97 / 69 / 49	110 / 76 / 61
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
Fan	Motor Output x Number	W x No.	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m³/min	29 / 26 / 22	33 / 29 / 26	34 / 30 / 28
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	26	26	26
Sound Pressure Level (H / M / L)		dB(A)	42 / 39 / 36	44 / 41 / 39	46 / 43 / 41
Sound Power Level (H / M / L)		dB(A)	54 / 51 / 47	56 / 53 / 49	58 / 54 / 53
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.25 x 2C	1.25 x 2C	1.25 x 2C
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0
	Exterior Color		White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5

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

Accessories

Chassis	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)		○	
Wi-Fi		PWFMDD200	
Human detection sensor		PTVSA0	
Floor Temperature Sensor		PT-AFGW0 : ○	
Air cleaning kit		PT-AFGW0 : PTAHMP0	
Elevation Grille		PT-AEGW0 : ○	

DUAL VANE 4 Way CASSETTE (840 X 840) HIGH SENSIBLE

ARNU07GTAA4 / ARNU09GTAA4
ARNU12GTAA4 / ARNU15GTAA4
ARNU18GTAA4



Model		Unit	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	W	23 / 16 / 11	25 / 18 / 11	26 / 19 / 13	29 / 20 / 15	31 / 23 / 16
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W x No.	166 x 1	166 x 1	166 x 1	166 x 1	166 x 1
	Running Current	A	0.23	0.25	0.25	0.27	0.28
	Air Flow Rate (H / M / L)	m³/min	19 / 16 / 13	19 / 16 / 13	20 / 17 / 15	20 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight		kg	26	26	26	26	26
Sound Pressure Level (H / M / L)		dB(A)	32 / 30 / 26	33 / 30 / 26	34 / 31 / 27	34 / 32 / 29	35 / 32 / 30
Sound Power Level (H / M / L)		dB(A)	41 / 38 / 34	42 / 39 / 34	42 / 40 / 36	43 / 40 / 37	44 / 41 / 38
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.25 x 2C	1.25 x 2C	1.25 x 2C	1.25 x 2C	1.25 x 2C
Decoration Panel (Accessory)	Exterior Color		White	White	White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5

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

Accessories

Chassis	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Drain Pump			○		
Cassette Cover			PTDCA		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			-		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			-		
CO ₂ Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 Point)			○		
Wi-Fi			PWFMD200		
Human detection sensor			PTVSA0		
Floor Temperature Sensor			PT-AFGW0 : ○		
Air cleaning kit			PT-AFGW0 : PTAHMP0		
Elevation Grille			PT-AEGW0 : ○		

DUAL VANE 4 Way CASSETTE (840 X 840) HIGH SENSIBLE

ARNU24GTAA4 / ARNU28GTAA4
ARNU36GTAA4 / ARNU42GTAA4
ARNU48GTAA4



Model		Unit	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Cooling Capacity		kW	7.1	8.2	10.6	12.3	14.1
Heating Capacity		kW	8.0	9.2	11.9	13.8	15.9
Power Input (H / M / L)	Nominal	W	35 / 29 / 20	40 / 31 / 25	65 / 43 / 31	86 / 65 / 43	100 / 67 / 53
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W x No.	166 x 1	166 x 1	166 x 1	166 x 1	166 x 1
	Running Current	A	0.38	0.46	0.60	0.80	0.88
	Air Flow Rate (H / M / L)	m³/min	23 / 21 / 19	24 / 22 / 20	28 / 24 / 21	31 / 28 / 24	33 / 28 / 26
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight		kg	26	26	26	26	26
Sound Pressure Level (H / M / L)		dB(A)	39 / 36 / 33	40 / 37 / 34	42 / 39 / 35	46 / 42 / 39	47 / 43 / 41
Sound Power Level (H / M / L)		dB(A)	47 / 45 / 42	48 / 46 / 42	51 / 48 / 44	54 / 51 / 48	56 / 52 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.25 x 2C	1.25 x 2C	1.25 x 2C	1.25 x 2C	1.25 x 2C
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0	PT-AAGW0 PT-AFGW0 PT-AEGW0
	Exterior Color		White	White	White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5	7.1 / 7.5 / 8.5

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

Accessories

Chassis	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Drain Pump			○		
Cassette Cover			PTDCA		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			-		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			-		
CO ₂ Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 Point)			○		
Wi-Fi			PWFMD200		
Human detection sensor			PTVSA0		
Floor Temperature Sensor			PT-AFGW0 : ○		
Air cleaning kit			PT-AFGW0 : PTAHMP0		
Elevation Grille			PT-AEGW0 : ○		

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
Heating Capacity		kW	1.8	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13
Dimensions (W x H x D)	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0

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

Accessories

Chassis	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump		○		
Cassette Cover		PTDCQ		
Refrigerant Leakage Detector		PRLDNVSO		
EEV Kit		PRGK024A0 (-4.5kW)		
Independent Power Module		PRIP0		
Robot Cleaner		-		
Pre Filter (Washable)		○		
Ion Generator		-		
CO ₂ Sensor		-		
Ventilation Kit		PTVK430		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)		○		
Wi-Fi		PWFMD200		

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

4 Way CASSETTE (570 X 570)

ARNU15GTQB4 / ARNU18GTQB4
ARNU21GTQB4



Model		Unit	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Cooling Capacity		kW	4.5	5.6	6.0
Heating Capacity		kW	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
Dimensions (W x H x D)	Body	mm	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Shipping	mm	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-QCHW0	PT-QCHW0	PT-QCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0

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

Accessories

Chassis	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump		○	
Cassette Cover		PTDCQ	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		PRGK024A0 (-4.5kW)	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		PTVK430	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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

4 Way CASSETTE (840 X 840)

ARNU24GTPA4 / ARNU28GTPA4
ARNU30GTPA4 / ARNU36GTNA4



Model		Unit	ARNU24GTPA4	ARNU28GTPA4	ARNU30GTPA4	ARNU36GTNA4
Cooling Capacity		kW	7.1	8.2	9.0	10.6
Heating Capacity		kW	8.0	9.2	10.0	11.9
Power Input (H / M / L)	Nominal	W	18 / 16 / 14	20 / 17 / 15	26 / 24 / 21	70 / 53 / 43
Dimensions (W x H x D)	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
	Shipping	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	135 x 1
	Air Flow Rate (H / M / L)	m³/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25 / 21 / 19
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body	kg	20.8 (45.8)	20.8 (45.8)	20.8 (45.8)	23.5 (51.8)
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54	56 / 53 / 51
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-MCGW0 PT-MPGW0	PT-MCGW0 PT-MPGW0	PT-MCGW0 PT-MPGW0	PT-MCGW0 PT-MPGW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

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

Accessories

Chassis	ARNU24GTPA4	ARNU28GTPA4	ARNU30GTPA4	ARNU36GTNA4
Drain Pump		○		
Cassette Cover		PTDCM		
Refrigerant Leakage Detector		PRLDNVSO		
EEV Kit		-		
Independent Power Module		PRIP0		
Robot Cleaner		-		
Pre Filter (Washable)		○		
Ion Generator		-		
CO ₂ Sensor		-		
Ventilation Kit		PTVK430		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)		○		
Wi-Fi		PWFMD200		

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

4 Way CASSETTE (840 X 840)

ARNU42GTMA4 / ARNU48GTMA4
ARNU54GTMA4



Model		Unit	ARNU42GTMA4	ARNU48GTMA4	ARNU54GTMA4
Cooling Capacity		kW	12.3	14.1	15.8
Heating Capacity		kW	13.8	15.9	18.0
Power Input (H / M / L)	Nominal	W	86 / 78 / 69	89 / 84 / 78	98 / 92 / 78
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m³/min	30 / 27 / 24	31 / 29 / 27	34 / 32 / 27
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)
Weight	Body	kg	25.6 (56.4)	25.6 (56.4)	26.5 (58.4)
Sound Pressure Levels (H / M / L)		dB(A)	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power Levels (H / M / L)		dB(A)	58 / 55 / 50	60 / 56 / 55	60 / 58 / 55
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-MCGW0 PT-MPGW0	PT-MCGW0 PT-MPGW0	PT-MCGW0 PT-MPGW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

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

Accessories

Chassis	ARNU42GTMA4	ARNU48GTMA4	ARNU54GTMA4
Drain Pump		○	
Cassette Cover		PTDCM	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		PTVK430	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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

2 Way CASSETTE

ARNU09GTSA4 / ARNU12GTSA4



Model		Unit	ARNU09GTSA4	ARNU12GTSA4
Cooling Capacity		kW	2.8	3.6
Heating Capacity		kW	3.2	4.0
Power Input (H / M / L)	Nominal	W	16 / 14 / 11	18 / 14 / 11
Dimensions (W x H x D)	Body	mm	830 x 225 x 600	830 x 225 x 600
	Shipping	mm	1,055 x 290 x 682	1,055 x 290 x 682
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m³/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressure Levels (H / M / L)		dB(A)	33 / 31 / 29	34 / 32 / 29
Sound Power Levels (H / M / L)		dB(A)	42 / 40 / 38	43 / 41 / 39
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.65	4.65

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

Accessories

Chassis	ARNU09GTSA4	ARNU12GTSA4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		PRGK024A0 (~5.6kW)
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

2 Way CASSETTE

ARNU18GTSA4 / ARNU24GTSA4



Model		Unit	ARNU18GTSA4	ARNU24GTSA4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	8.0
Power Input (H / M / L)	Nominal	W	19 / 16 / 14	31 / 22 / 14
Dimensions (W x H x D)	Body	mm	830 x 225 x 600	830 x 225 x 600
	Shipping	mm	1,055 x 290 x 682	1,055 x 290 x 682
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m³/min	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)		dB(A)	44 / 42 / 40	48 / 45 / 40
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.65	4.65

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

Accessories

Chassis	ARNU18GTSA4	ARNU24GTSA4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		PRGK024A0 (~5.6kW)
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

1 Way CASSETTE

ARNU07GTUB4 / ARNU09GTUB4
ARNU12GTUB4



Model		Unit	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450
	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	13.6	13.6	13.6
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32
Sound Power Levels (H / M / L)		dB(A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UAHW0, PT-UPHG0	PT-UAHW0, PT-UPHG0	PT-UAHW0, PT-UPHG0
	Exterior Color		Noble White	Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500
	Net Weight	kg	3.3 / 4.1	3.3 / 4.1	3.3 / 4.1

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

Accessories

Chassis	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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

1 Way CASSETTE

ARNU18GTTB4 / ARNU24GTTB4



Model		Unit	ARNU18GTTB4	ARNU24GTTB4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.1
Power Input (H / M / L)	Nominal	W	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	1,180 x 132 x 450	1,180 x 132 x 450
	Shipping	mm	1,499 x 259 x 538	1,499 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	15.6	15.6
Sound Pressure Levels (H / M / L)		dB(A)	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB(A)	56 / 51 / 48	59 / 53 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-TAHW0, PT-TPHG0	PT-TAHW0, PT-TPHG0
	Exterior Color		Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,420 x 34 x 500	1,420 x 34 x 500
	Net Weight	kg	5.5 / 6.5	5.5 / 6.5

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

Accessories

Chassis	ARNU18GTTB4	ARNU24GTTB4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		-
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

CEILING MOUNTED ROUND CASSETTE



Features & Benefits

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

Key Applications

- Retail
- Restaurant
- Office
- Hotel

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

NEW DESIGN

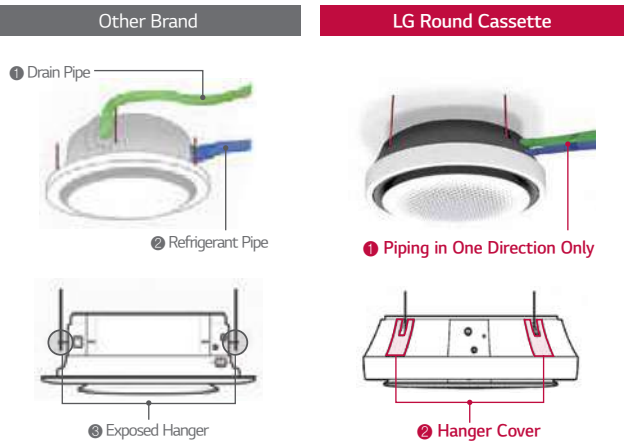
Slim and Compact design

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



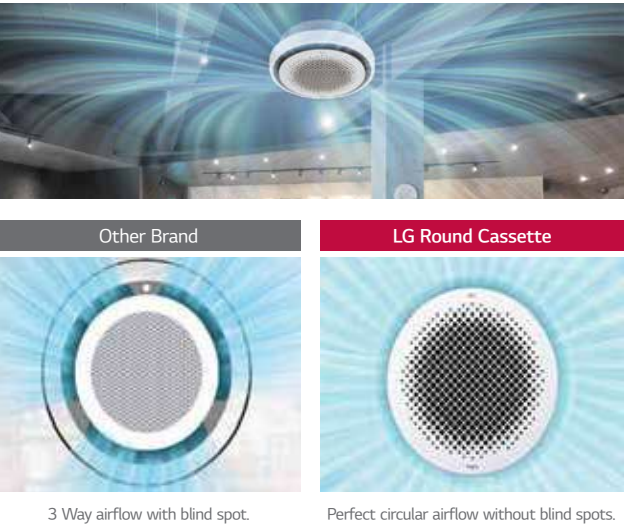
Minimal exposure design

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



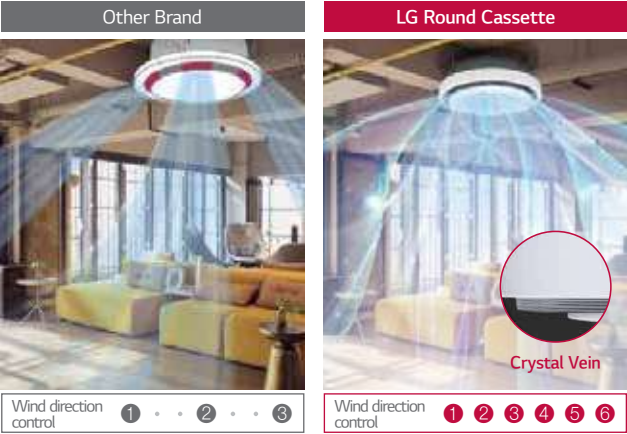
Perfect round air flow

Perfect round flow without blind spots.



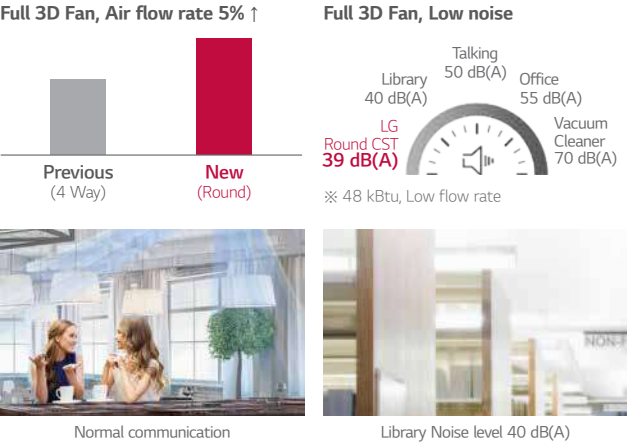
Visible air flow

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



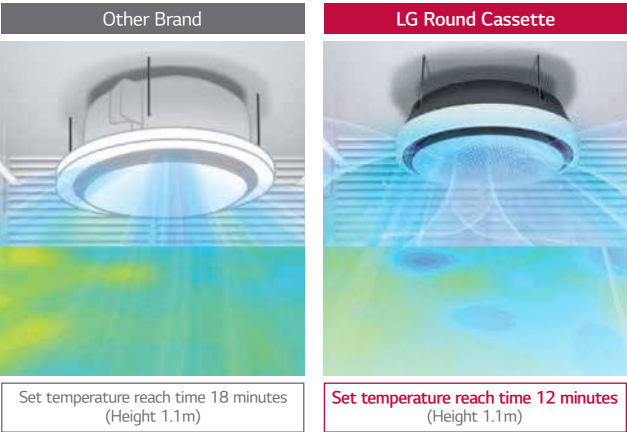
Powerful and Quiet air flow

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



30% Faster in cooling

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



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

ROUND CEILING CASSETTE

ARNU24GTYA4 / ARNU36GTYA4
ARNU48GTYA4



Model		Unit	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Cooling Capacity		kW	7.1	10.6	14.1
Heating Capacity		kW	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	44 / 36 / 29	63 / 47 / 36	98 / 70 / 44
Dimensions (W x H x D)	Body	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050
	Shipping	mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132	1,137 x 395 x 1,132
Fan	Type		3D Turbo Fan	3D Turbo Fan	3D Turbo Fan
	Motor Output x Number	W x No.	157 x 1	157 x 1	157 x 1
	Air Flow Rate (H / M / L)	m³/min	22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Long life	Long life	Long life
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	30	30	30
Sound Pressure Level (H / M / L)		dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39
Sound Power Level (H / M / L)		dB(A)	48 / 46 / 43	52 / 48 / 46	56 / 53 / 48
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO2 Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)		○	
Wi-Fi		PWFMDD200	
Human detection sensor		-	
Floor Temperature Sensor		-	
Air cleaning kit		-	
Elevation Grille		-	

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



CEILING CONCEALED DUCT



Features & Benefits

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

Key Applications

- Office
- Hotel
- Retail
- Residential building

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

※ ○ : Applied, - : Not applied

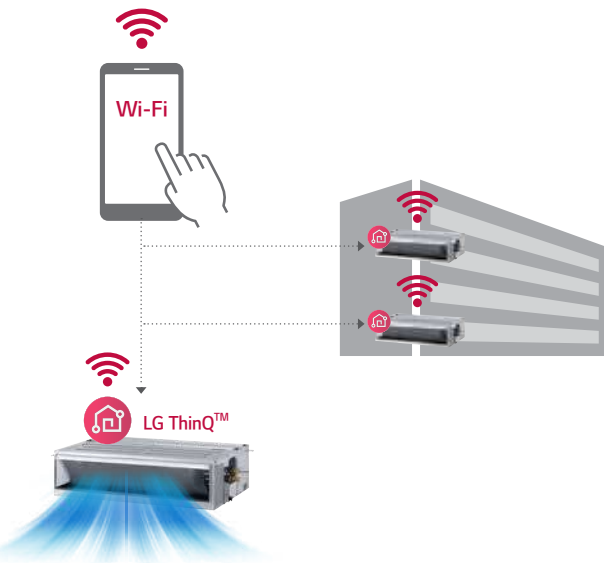
SMART

Wi-Fi Control

Anytime, anywhere access with LG ThinQ™ mobile app.

 **LG ThinQ™**

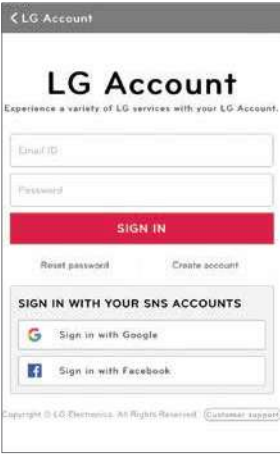
Search “LG ThinQ™” on Google market or Appstore then download the app.



* Wi-Fi modem (Option) is necessary for this function

Easy Registration and Log-in

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



Simple operation for various functions



On/Off, Current Temp



Mode, Set Temp

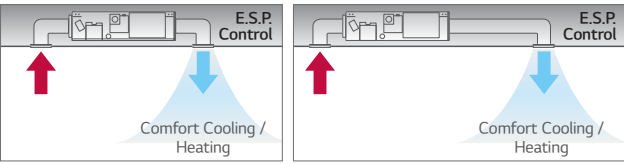


Vane Control

ENERGY EFFICIENCY

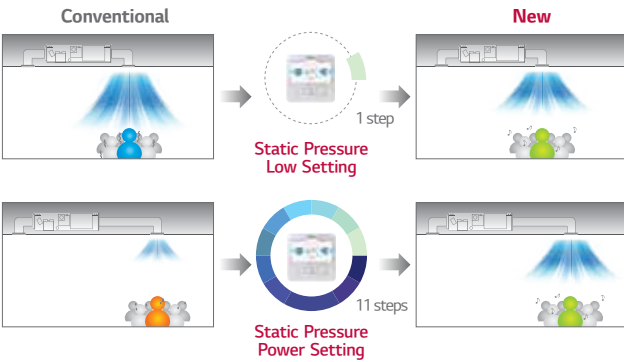
External Static Pressure (ESP) Control

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



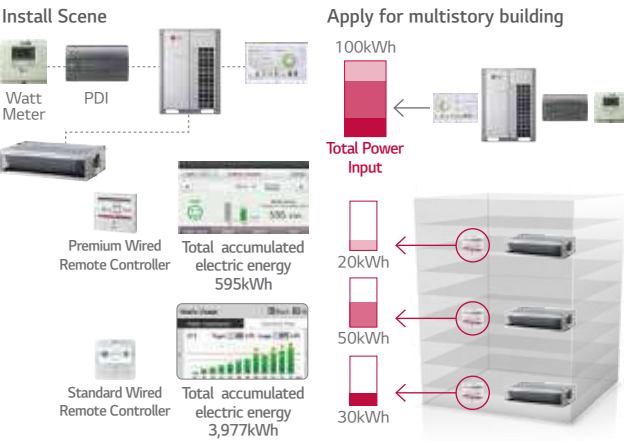
Static Pressure 11- Step Control

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



Energy Monitoring

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

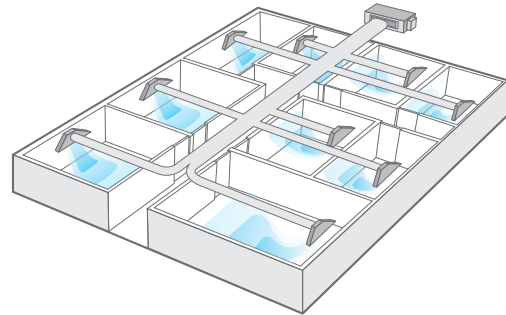


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are 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.

COMFORT

Multiple Room Operation

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



Filter Alert

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

Remain Time Until Indoor Filter Cleaning + Alarm



Remain time until indoor filter cleaning 2,400hr.

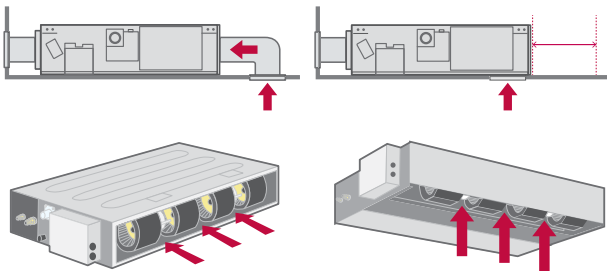


Remain time until indoor filter cleaning 1,729hr.

Flexible Installation (Low Static Duct Only)

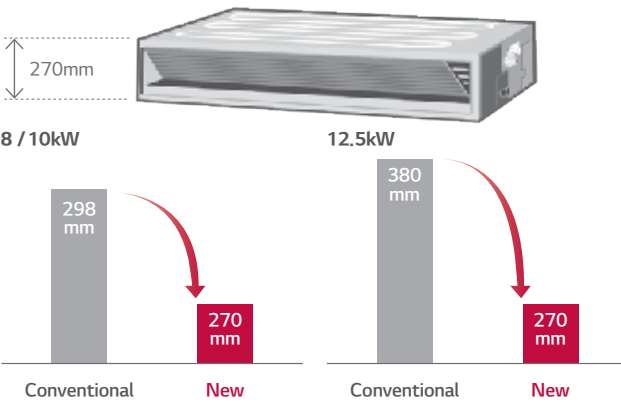
The low static duct allows the air intake at the rear or bottom under specific installation conditions.

Air intake at the rear or bottom



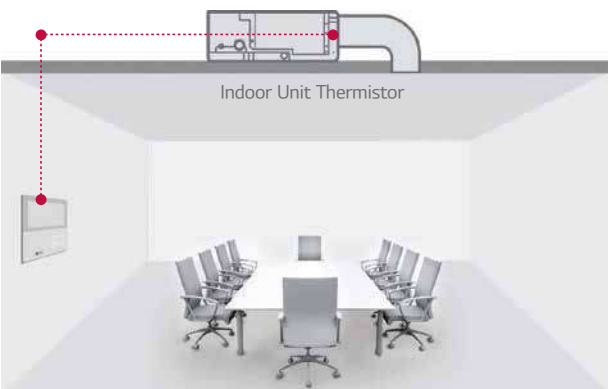
Minimized Height

New mid-static ducts provide ideal solution for installation in limited space.



Two Thermistors Control

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

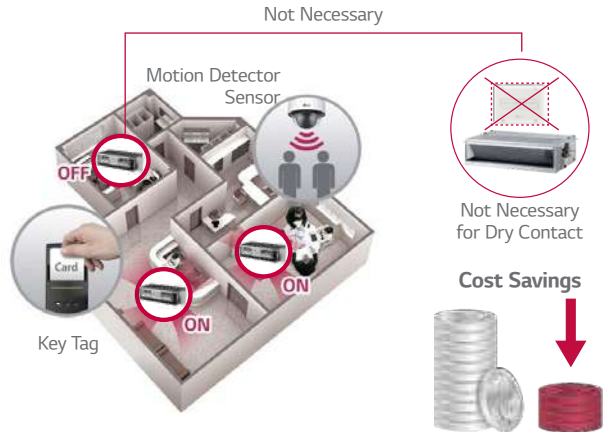


Remote Controller Thermistor

1 Point External Input (On / Off Control)

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

Connection between an indoor unit and external devices directly



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



MID 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
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58
Dimensions (W x H x D)	Body	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
	Shipping	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	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1
	Air Flow Rate (H / M / L)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.5	25.5	25.5	25.5	25.5	26.5
Sound Pressure Levels (H / M / L)		dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump	○					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNVSO					
EEV Kit	PRGK024A0 (~5.6kW)					
Independent Power Module	PRIPO					
Robot Cleaner	-					
Pre Filter (Washable)	○					
Ion Generator	-					
CO ₂ Sensor	-					
Ventilation Kit	-					
IR Receiver	PWLRVN000					
Zone Controller	ABZCA					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	○					
Wi-Fi	PWFMD200					

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

HIGH STATIC

ARNU28GM2A4 / ARNU36GM2A4
ARNU42GM2A4 / ARNU48GM3A4
ARNU54GM3A4



Model		Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Cooling Capacity		kW	8.2	10.6	12.3	14.1	15.8
Heating Capacity		kW	9.2	11.9	13.8	15.9	18.0
Power Input (H / M / L)	Nominal	W	123 / 81 / 57	184 / 123 / 81	231 / 162 / 111	172 / 105 / 65	260 / 215 / 172
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
	Shipping	mm	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	350 x 1	350 x 1
	Air Flow Rate (H / M / L)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	38.0	38.0	39.5	44.0	44.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39
Sound Power Levels (H / M / L)		dB(A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVSO				
EEV Kit	-				
Independent Power Module	PRIPO				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	-				
CO ₂ Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMD200				

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

HIGH STATIC

ARNU76GB8A4 / ARNU96GB8A4

Model		Unit	ARNU76GB8A4	ARNU96GB8A4
Cooling Capacity		kW	22.4	28.0
Heating Capacity		kW	25.2	31.5
Power Input (H / M / L)	Nominal	W	765 / 500 / 500	800 / 750 / 750
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	External Static Pressure (High Mode)	mmAq (Pa)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	15 (147)	15 (147)
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	87.0	87.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 41 / 40	47 / 42 / 41
Sound Power Levels (H / M / L)		dB(A)	70 / 68 / 68	72 / 69 / 68
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU76GB8A4	ARNU96GB8A4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		○
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		PWLRVN000
Zone Controller		ABZCA
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

ARNU05GL1G4 / ARNU07GL1G4
ARNU09GL1G4

Model		Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Cooling Capacity		kW	1.7	2.2	2.8
Heating Capacity		kW	1.9	2.5	3.2
Power Input (H / M / L)	Nominal	W	29 / 26 / 24	31 / 28 / 24	39 / 29 / 24
Dimensions (W x H x D)	Body	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
	Shipping	mm	862 x 255 x 781	862 x 255 x 781	862 x 255 x 781
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	17.5	17.5	17.5
Sound Pressure Levels (H / M / L)		dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 45	50 / 47 / 45	53 / 49 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Drain Pump			○
Cassette Cover			-
Refrigerant Leakage Detector			PRLDNVS0
EEV Kit			PRGK024A0
Independent Power Module			PRIP0
Robot Cleaner			-
Pre Filter (Washable)			○
Ion Generator			-
CO ₂ Sensor			-
Ventilation Kit			-
IR Receiver			PWLRVN000
Zone Controller			ABZCA
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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



INDOOR UNITS

CEILING CONCEALED DUCT

LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4
ARNU18GL2G4



Model		Unit	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Cooling Capacity		kW	3.6	4.5	5.6
Heating Capacity		kW	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	W	41 / 34 / 29	56 / 41 / 34	71 / 56 / 41
Dimensions (W x H x D)	Body	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700
	Shipping	mm	1,062 x 255 x 781	1,062 x 255 x 781	1,062 x 255 x 781
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	23.0	23.0	23.0
Sound Pressure Levels (H / M / L)		dB(A)	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29
Sound Power Levels (H / M / L)		dB(A)	50 / 47 / 46	54 / 51 / 47	56 / 54 / 51
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		ABZCA	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

ARNU21GL3G4 / ARNU24GL3G4



Model		Unit	ARNU21GL3G4	ARNU24GL3G4
Cooling Capacity		kW	6.2	7.1
Heating Capacity		kW	7.0	8.0
Power Input (H / M / L)	Nominal	W	72 / 53 / 48	103 / 63 / 48
Dimensions (W x H x D)	Body	mm	1,100 x 190 x 700	1,100 x 190 x 700
	Shipping	mm	1,262 x 255 x 781	1,262 x 255 x 781
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	27.0	27.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 29 / 28	36 / 33 / 28
Sound Power Levels (H / M / L)		dB(A)	59 / 55 / 54	63 / 59 / 55
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

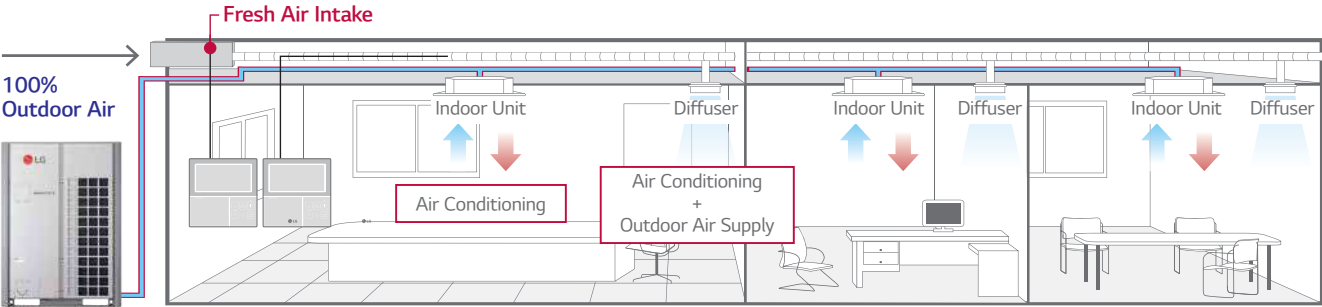
Chassis	ARNU21GL3G4	ARNU24GL3G4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		PWLRVN000
Zone Controller		ABZCA
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

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 outside. This allows the indoor space to have consistent positive air pressure blocking cold.

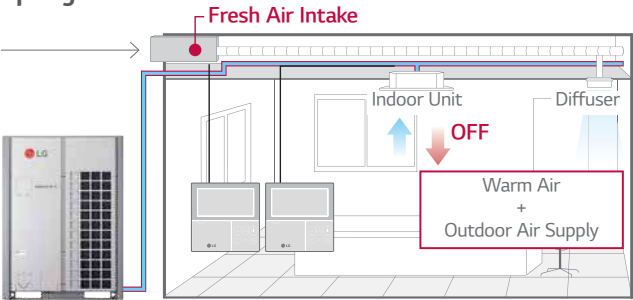


MULTI V 5 Outdoor Unit

Economic Operation

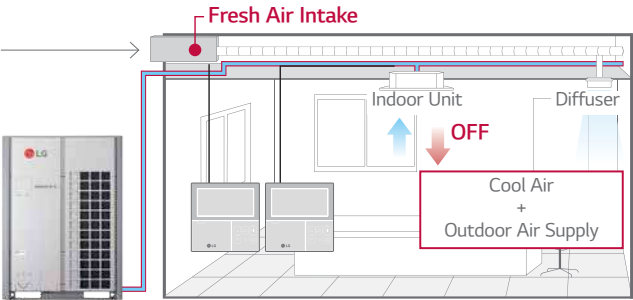
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



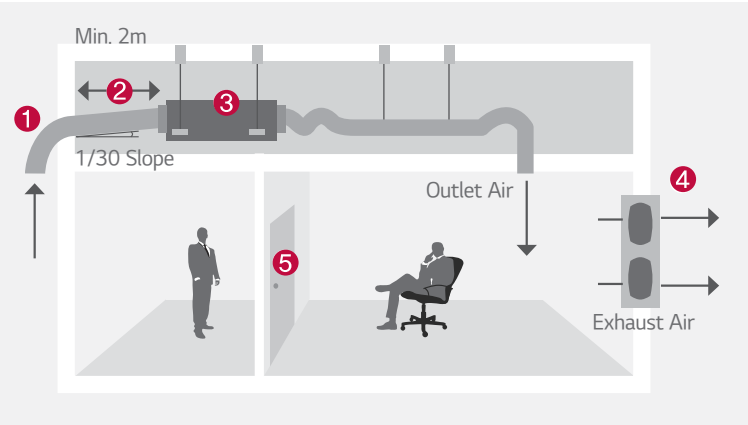
MULTI V 5 Outdoor Unit

Autumn Season



MULTI V 5 Outdoor Unit

Installation Scene



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

FRESH AIR INTAKE

ARNU76GB8Z4 / ARNU96GB8Z4



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

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

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		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		-
Independent Power Module		PRIPQ
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		PWLRVN000
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

CEILING SUSPENDED



Features & Benefits

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

Key Applications

- Retail
- Shop
- Restaurant

	Ceilings	Ceiling & Floor Convertible	Ceiling Suspended
Smart	Wi-Fi	○	○
Fast Cooling & Heating	Jet Cool	○	○
	Sleep mode	○	○
	Timer (On / Off)	○	○
Comfort	Timer (Weekly)	○	○
	Two thermistor control	○	○
	Group control	○	○

※ ○ : Applied, - : Not applied

SMART

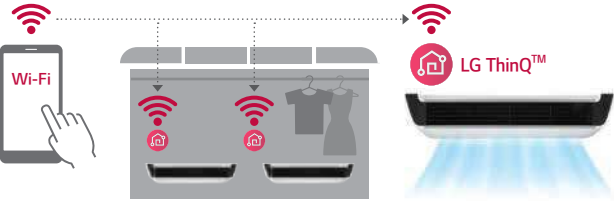
Wi-Fi Control

Access your air conditioner anytime and from anywhere.



LG ThinQ™

Search “LG ThinQ™” on Google market or Appstore then LG ThinQ™ download the app.



Easy Registration and Log-in

Follow the easy set-up steps that will activate LG ThinQ™’s impressive feature.



* Wi-Fi modem (Option) is necessary for this function

COMFORT (CONSOLE)

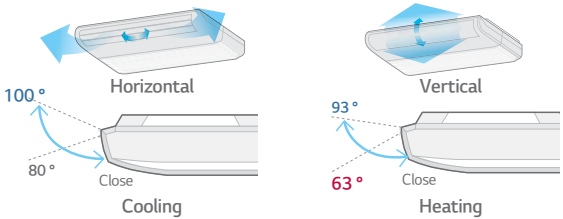
Flexible

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



Air flow Direction Control

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



Filter Change Alarm

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



One Touch Filter

Filter Change Alarm

COMFORT (CEILING SUSPENDED)

Differentiated Design

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



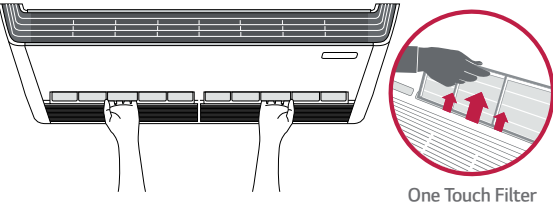
Powerful Cooling & Heating

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



One Touch & 2 Piece Filter

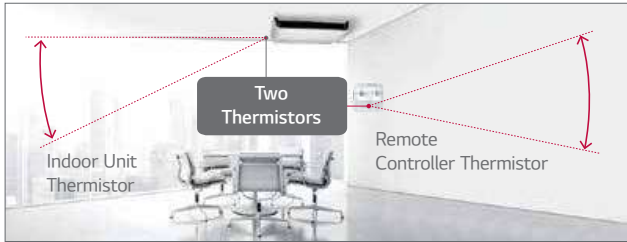
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

Two Thermistors Control

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



CEILING SUSPENDED

ARNU18GV1A4 / ARNU24GV1A4



Model		Unit	ARNU18GV1A4	ARNU24GV1A4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	8.0
Power Input (H / M / L)	Nominal	W	23 / 20 / 17	25 / 21 / 17
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,200 x 235 x 690	1,200 x 235 x 690
	Shipping	mm	1,315 x 320 x 772	1,315 x 320 x 772
	Type		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1
	Air Flow Rate (H / M / L)	m³/min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	29.0	29.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 35 / 33
Sound Power Levels (H / M / L)		dB(A)	61 / 59 / 56	62 / 59 / 56
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU18GV1A4	ARNU24GV1A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	-
EEV Kit	-	-
Independent Power Module	PRIP0	-
Robot Cleaner	-	-
Pre Filter (Washable)	○	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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 SUSPENDED

ARNU36GV2A4 / ARNU48GV2A4



Model		Unit	ARNU36GV2A4	ARNU48GV2A4
Cooling Capacity		kW	10.6	14.1
Heating Capacity		kW	11.9	15.9
Power Input (H / M / L)	Nominal	W	84 / 77 / 66	91 / 79 / 66
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,600 x 235 x 690	1,600 x 235 x 690
	Shipping	mm	1,715 x 320 x 772	1,715 x 320 x 772
	Type		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	125 x 1	125 x 1
	Air Flow Rate (H / M / L)	m³/min	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	37.0	37.0
Sound Pressure Levels (H / M / L)		dB(A)	48 / 46 / 44	49 / 47 / 44
Sound Power Levels (H / M / L)		dB(A)	68 / 66 / 64	68 / 67 / 66
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU36GV2A4	ARNU48GV2A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	-
EEV Kit	-	-
Independent Power Module	PRIP0	-
Robot Cleaner	-	-
Pre Filter (Washable)	○	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

CONSOLE



Features & Benefits

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

Key Applications

- Residential building
- Hotel
- Historical building

	Floor standing	Console
Smart	Wi-Fi	○
Energy Efficiency	Jet Cool	-
Health	Ionizer	○
Fast Cooling & Heating	Jet Cool	○
	Sleep Mode	○
	Timer (On / Off)	○
	Timer (Weekly)	○
	Two Thermistor Control	○
	Group Control	○

※ ○ : Applied, - : Not applied

SMART

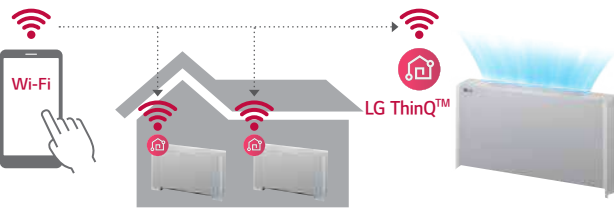
Wi-Fi Control

Access your air conditioner anytime and from anywhere.



LG ThinQ™

Search “LG ThinQ™” on Google market or Appstore then download the app.



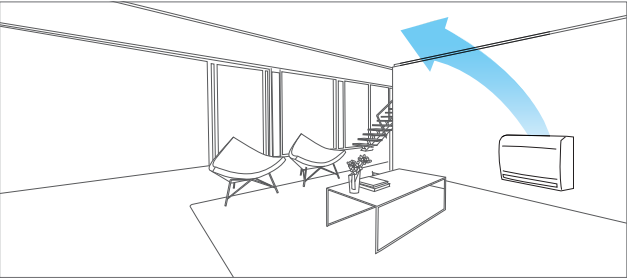
* Wi-Fi modem (Option) is necessary for this function

COMFORT

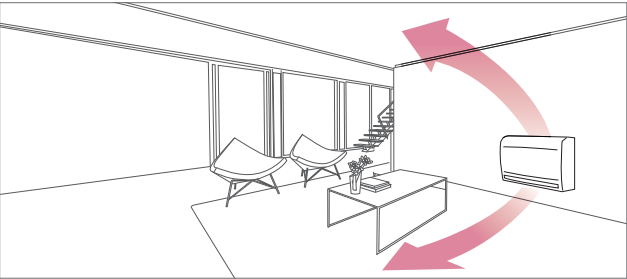
Air Flow Direction Change

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

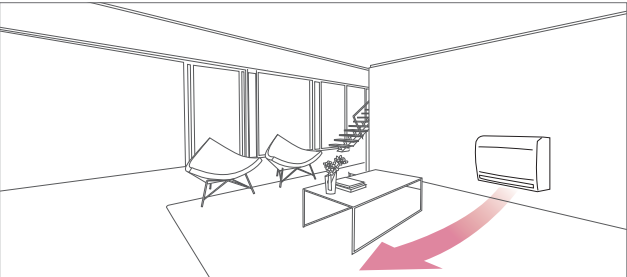
Cooling



Heating (Normal)



Heating (Option)



COMFORT

Cold Draft Protection

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

Without Console

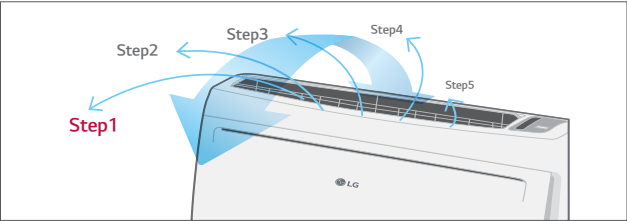


Without Console



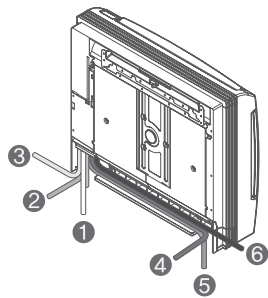
5-Step Vane Control

There are 5 different stages to control air flow direction.



6 Way Flexible Piping

It is possible to install and connect the outdoor unit in 6 different ways. (Right Side, Right Back, Right Floor, Left Side, Left Back, Left Floor)



CONSOLE

ARNU07GQAA4 / ARNU09GQAA4



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

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

Accessories

Chassis	ARNU07GQAA4	ARNU09GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	-
Pre Filter (Washable)	○	
Ion Generator	○	
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

CONSOLE

ARNU12GQAA4 / ARNU15GQAA4



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

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

Accessories

Chassis	ARNU12GQAA4	ARNU15GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	-
Pre Filter (Washable)	○	
Ion Generator	○	
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (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

Controller \ Product			Premium	Standard III	Standard II	Simple	Simple for Hotel	Wireless	Dry Contact						
															
			PREMTA000 PREMTA000A PREMTA000B	PREMTBB10	PREMTB100	PREMTB001	PQRCVCLOQ	PQRCVCOQW	PQRCHCA0Q	PQRCHCA0QW	NEW PWLSSB21H (H/P)	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300 NEW PDRYCB320	For Modbus PDRYCB500
MULTI V		ARNU-A4 ARNU-B4	○	○	○	○		○		○	○	○	○	○	
	Ceiling Mounted Cassette		ARNU-B4 ARNU-C4	○	○	○		○		○	○	○	○	○	
		ARNU-A4	○	○	○		○		○	○	○	○	○	○	
		ARNU-A4	○	○	○		○		○	△	○	○	○	○	
	Ceiling Concealed Duct		ARNU-A4	○	○	○		○		○	△	○	○	○	○
		ARNU-G4	○	○	○		○		○	△	○	○	○	○	○
	FAU (Fresh Air intake)		ARNU-Z4	○	○	○		○		○	△	○	○	○	○
	Convertible & Ceiling Suspended		ARNU-A4	○	○	○		○		○	○	○	○	○	○
	Console		ARNU-A4	○	○	○		○		○	○	○	○	○	○
	Wall Mounted		ARNU-A4 ARNU-C4 ARNU-N4	○	○	○		○		○	○	○	○	○	○
HYDRO KIT ¹⁾	ARNH-A4		-	-	-	-	-	-	-	○	-	○	-	-	
Ventilation	Energy Recovery Ventilator		○	○	○	-	-	-	○	-	-	-	○		
	Energy Recovery Ventilator with DX coil		○	○	○	-	-	-	○	-	-	-	○		
AHU Communication Kit				○	○	○	-	-	△	-	-	-	-		

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

FEATURE FUNCTIONS

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-Fi Modem
	Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name							
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCLOQ PQRCVCLOQW	PQRCHCA0Q PQRCHCA0QW	NEW PWLSSB21H (H/P)	PWFMDD200
Basic	On / Off	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○
	Mode Change	○	○	○	○	-	○
	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
	Additional Mode Setting 1)	○	○	○	-	-	-
	Time Display	○	○	○	-	○	-
	Humid. Display	○	○	-	-	-	-
Advanced	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	○	○	-	-	-	-
	Wi-Fi AP mode setting	○	○	○	○	○	-
ETC	Operation Status LED	○	○	○	○	○	-
	Wireless Remote Controller Receiver	○ 3)	-	○ 3)	○ 3)	○ 3)	-
	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	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 / PACSSA000 / PACPSA000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function.
3) For ceiling type duct.
Note
- Indoor unit should have functions requested by the controller.
- If you need more detail, please refer to the manual of product. (<http://partner.lge.com>: Home> DocLibrary> Manual)

HOT WATER SOLUTION

HYDRO KIT



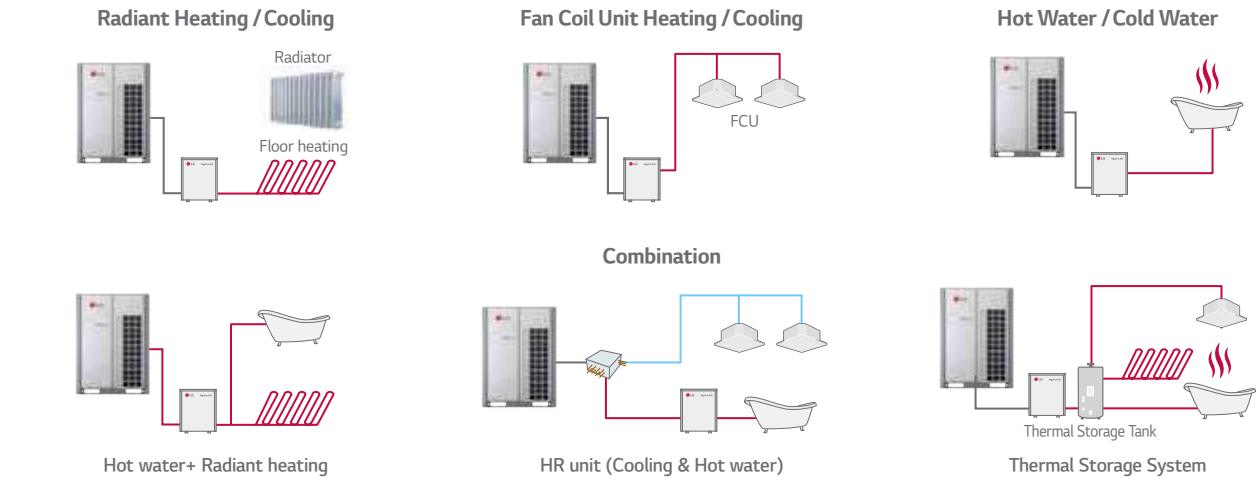
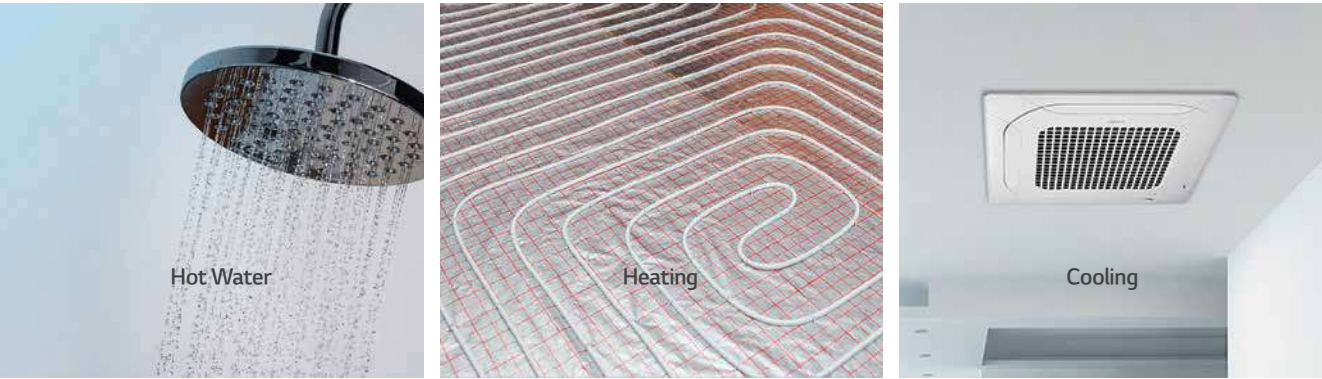
HYDRO KIT

Features & Benefits

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

Key Applications

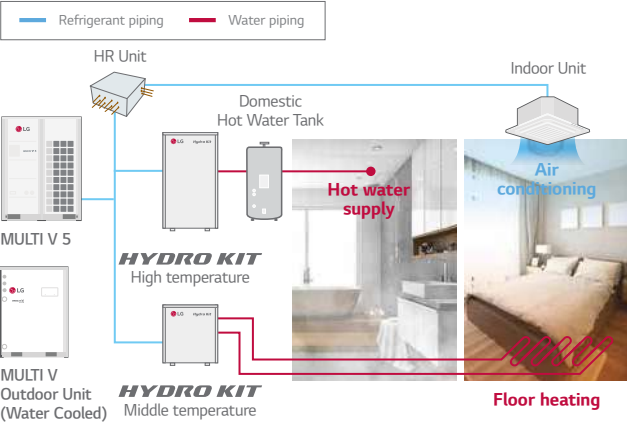
- Where Hot Water is needed such as domestic Hot Water, In-floor or radiant heat. Where cold water is needed such as Fan coil unit and chilled beam.



CONVENIENCE

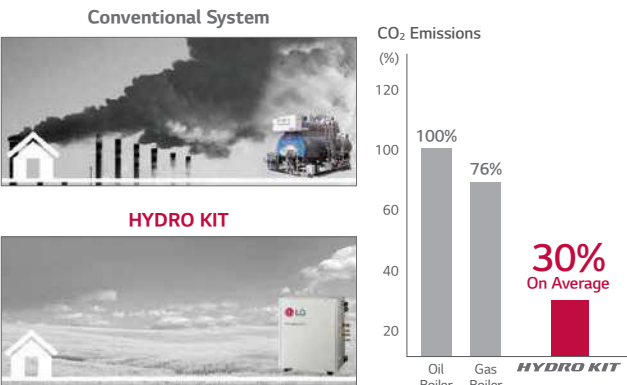
Total Solution

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



Eco-friendly Solution

Green energy solution through the reduction of CO₂ emissions.



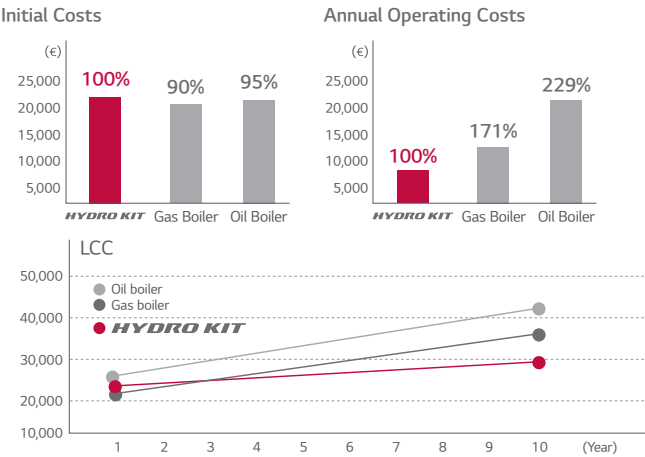
EFFICIENCY

Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

- 1st Proposal MULTI V 5 HYDRO KIT** (Air Conditioning + Hot Water Supply + Floor Heating)
- 2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler** (Hot Water Supply + Floor Heating)
- 3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler** (Hot Water Supply + Floor Heating)

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

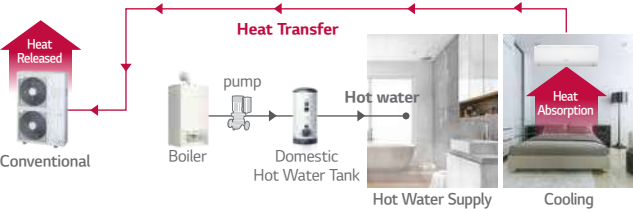


Energy Savings through Heat Recovery

Energy costs can be minimized by reusing the wasted heat from indoor units.

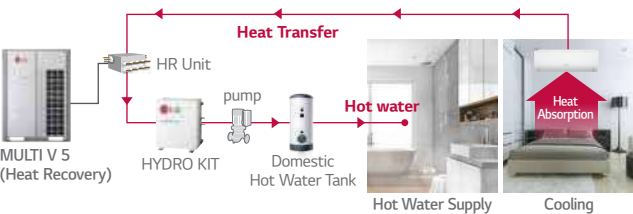
Conventional

Absorbed heat is released to outdoor air.

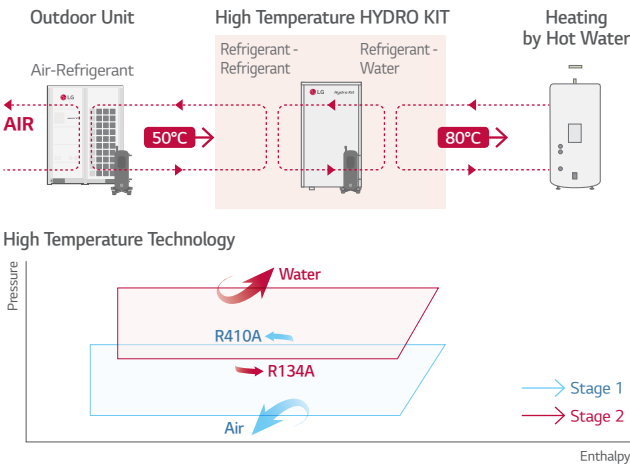


HYDRO KIT

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



High Temperature HYDRO KIT Cycle Diagram



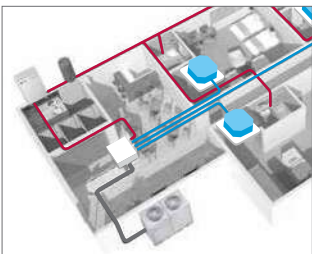
Various Applications

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



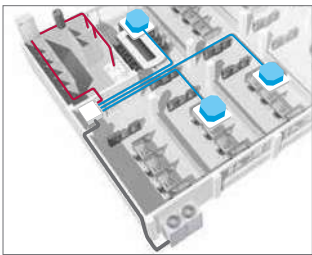
Hotel Application

Constant simultaneous cooling and heating operating during summer to provide hot water by using wasted heat energy from indoor cooling process.



Office Application

Hot water can be supplied at all times in the office by cooling the HR unit to warm up the sanitary tank, using waste energy.



HYDRO KIT

ARNH04GK2A4 / ARNH10GK2A4



Model		Unit	ARNH04GK2A4	ARNH10GK2A4
Cooling Capacity		kW	12.3	28.0
Heating Capacity		kW	13.8	31.5
Power Input		Nominal ¹⁾ W	10	10
Exterior Color			Morning Gray	Morning Gray
RAL Code			RAL 7030	RAL 7030
Dimensions (W x H x D)	Body	mm	520 x 631 x 330	520 x 631 x 330
	Shipping	mm	677 x 687 x 418	677 x 687 x 418
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Water Pipe Connections	Inlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Outlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Weight	Body	kg	29.2	33.7
Sound Pressure Levels (H / M / L)		dB(A)	26	26
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

1) Nominal : Performance tested under EN14511
Note : 1. Capacities are based on the following conditions :
- Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to HYDRO KIT.
5. MULTI V Water S cannot be connected to HYDRO KIT.
6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.

Accessories

Chassis	ARNH04GK2A4	ARNH10GK2A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	-	-
Independent Power Module	○	
Robot Cleaner	-	-
Pre Filter (Washable)	-	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible) PDRYCB320 (Universal input)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

HYDRO KIT

ARNH04GK3A4 / ARNH08GK3A4



Model		Unit	ARNH04GK3A4	ARNH08GK3A4
Heating Capacity		kW	13.8	25.2
Power Input		Nominal ¹⁾ W	2,300	5,000
Exterior Color			Morning Gray	Morning Gray
RAL Code			RAL 7030	RAL 7030
Dimensions (W x H x D)	Body	mm	520 x 1,080 x 330	520 x 1,080 x 330
	Shipping	mm	682 x 1,168 x 423	682 x 1,168 x 423
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Water Pipe Connections	Inlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Outlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Weight	Body	kg	87.0	91.0
Sound Pressure Levels (H / M / L)		dB(A)	43	46
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

1) Nominal : Performance tested under EN14511
Note : 1. Capacities are based on the following conditions :
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to HYDRO KIT.
5. MULTI V Water S cannot be connected to HYDRO KIT.

Accessories

Chassis	ARNH04GK3A4	ARNH08GK3A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	-	-
Independent Power Module	○	
Robot Cleaner	-	-
Pre Filter (Washable)	-	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible) PDRYCB320 (Universal input)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

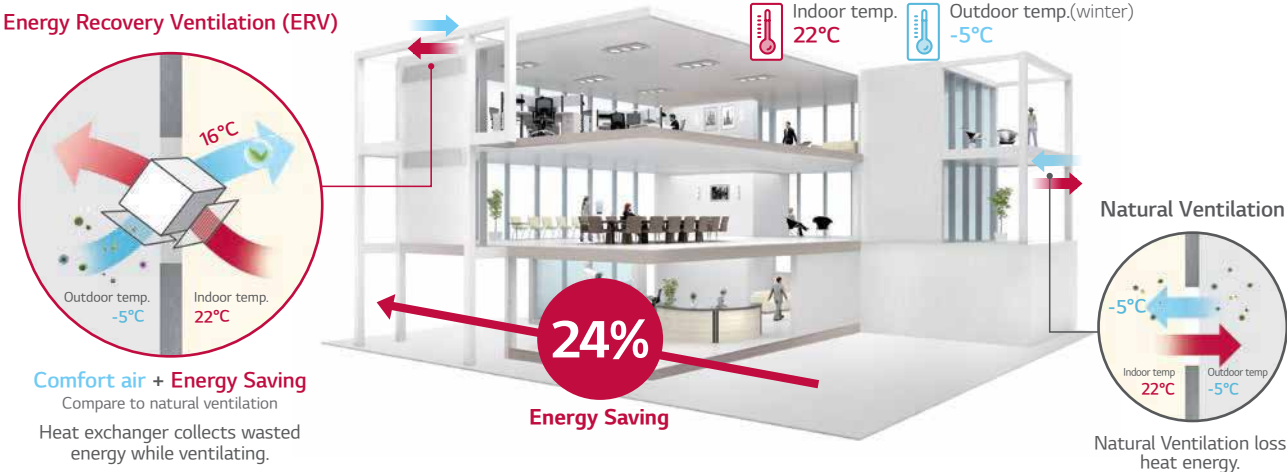
VENTILATION SOLUTIONS

ERV



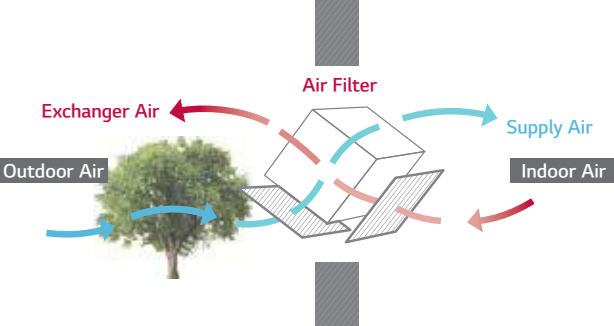
ENERGY RECOVERY VENTILATION (ERV)

NECESSITY OF ERV

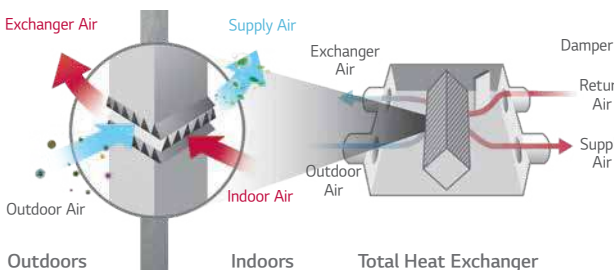


HIGH EFFICIENCY

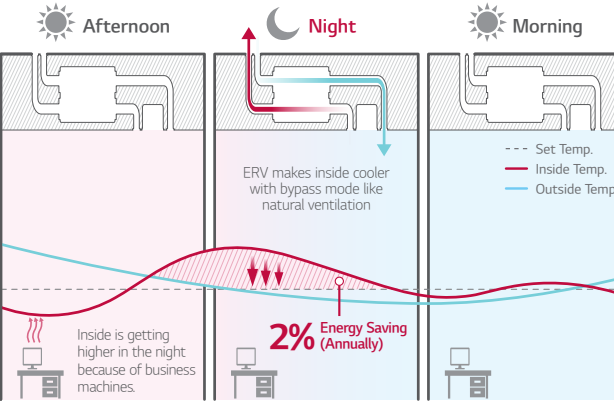
High Efficiency Heat Exchanger
Efficiency and comfort is ensured through the high-efficiency energy recovery central core which recovers energy from the indoor air and transfers it to the fresh incoming air without mixing the air stream.



Compulsory Exhaust 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.

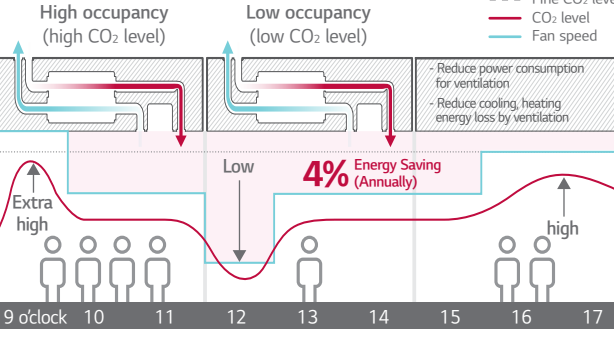


Night Time Free Cooling
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



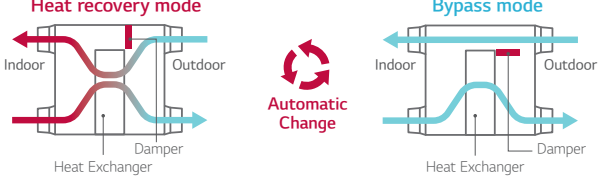
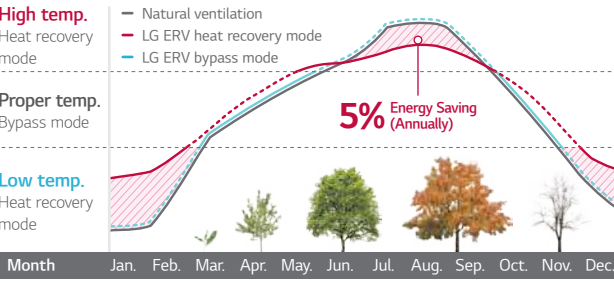
※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition
- Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V IV (12HP) Unit Combination
- Other conditions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

CO₂ Auto Operation
LG ERV reduces energy loss with auto fan speed control following CO₂ level



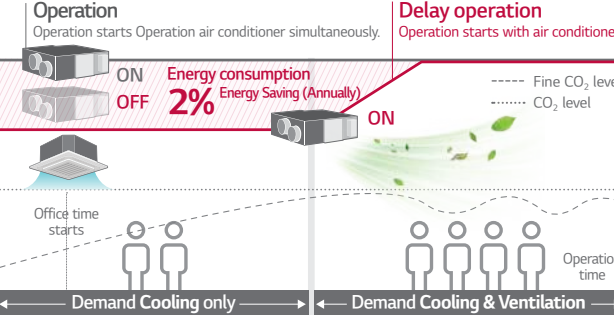
※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V IV (12HP) Unit Combination
- Other conditions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

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



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

COMFORT & RELIABILITY

CO₂ Level Monitoring

CO₂ sensor senses CO₂ level in the room. Users can monitor CO₂ level on new wired remote controller, and ERV controls the fan speed automatically following the level.

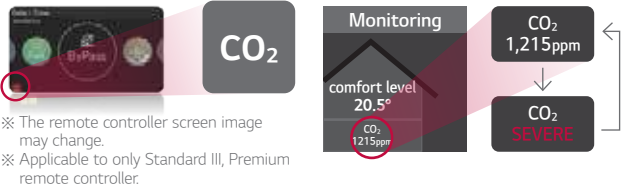
CO₂ Level Visualization

CO₂ sensor senses indoor CO₂ level and displays it on new wired remote controller.



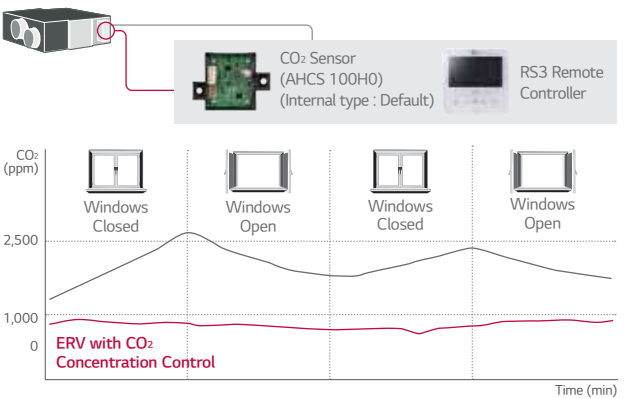
Main display
If the CO₂ level is above 900ppm in the room, the red mark is on.

Further information
CO₂ level and room condition are displayed continuously.



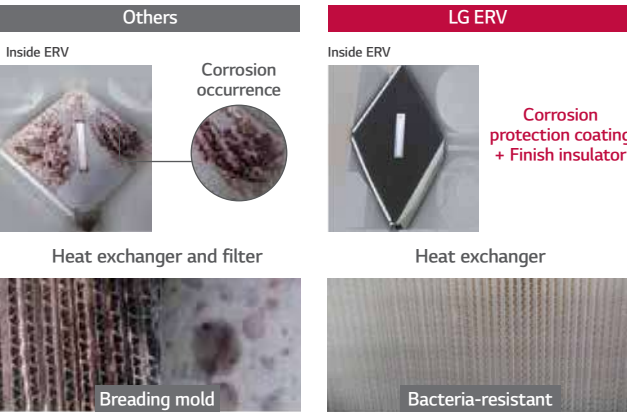
CO₂ Concentration Control

Using CO₂ sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO₂ concentration.



High Durability

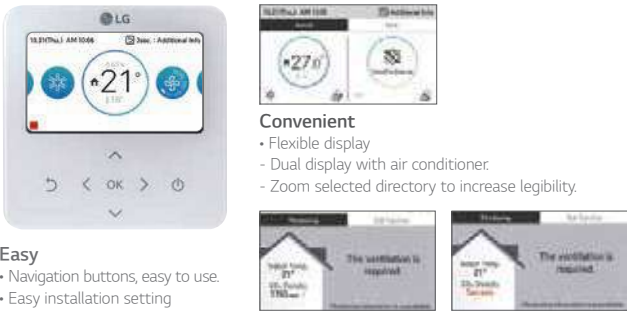
LG ERV durability is increased through bacteria-resistant material of heat exchanger and corrosion protection coating. It prevents shortening product life due to corrosion and mold and supplies high quality air to inside by minimizing the bacteria.



CONVENIENCE

Easy Control

Wired remote controller is easy for usage.



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

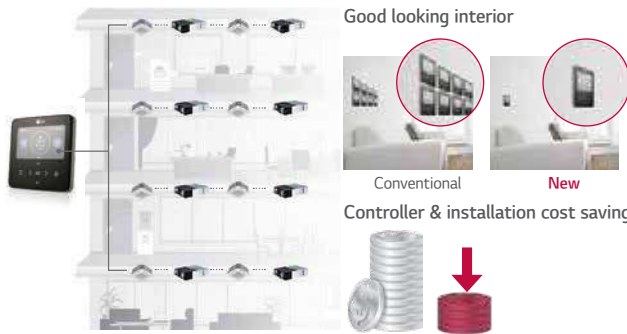
Visible
• Indoor CO₂ level
• Alarm for filter change / Remained time to change filters

Group Control

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

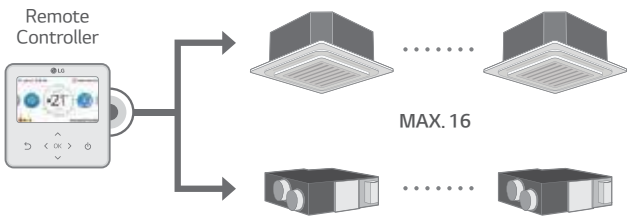
Several units combination

16 units group control is available with 1 remote controller.



Interlocking with Air Conditioning System

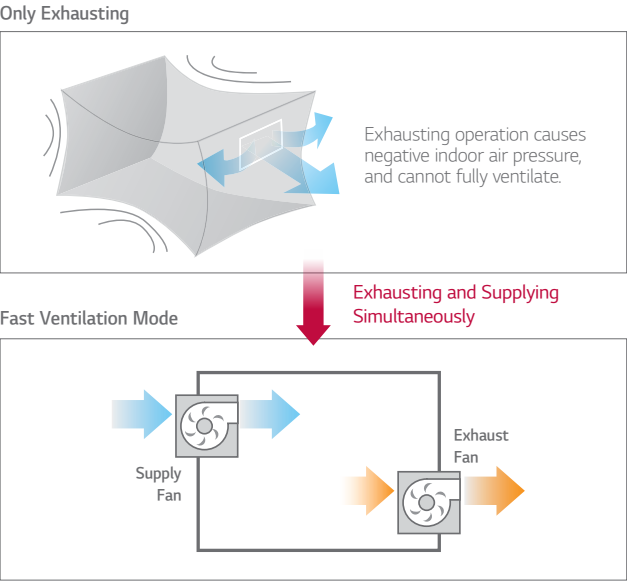
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



CONVENIENCE

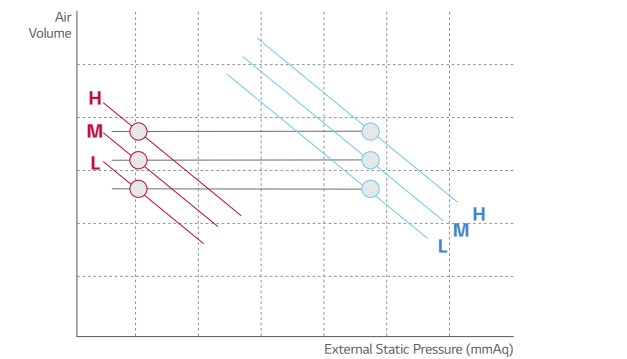
Fast Ventilation Mode

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



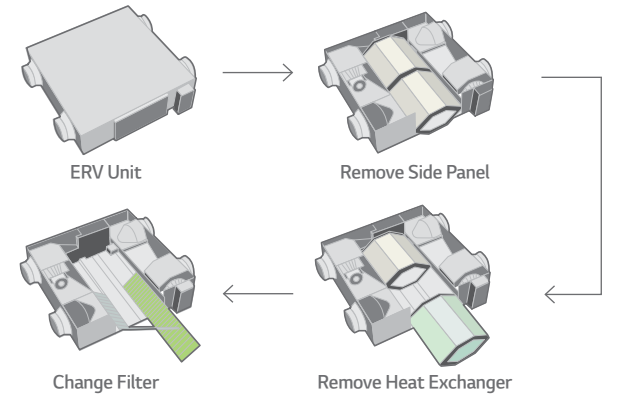
External Static Pressure Control

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



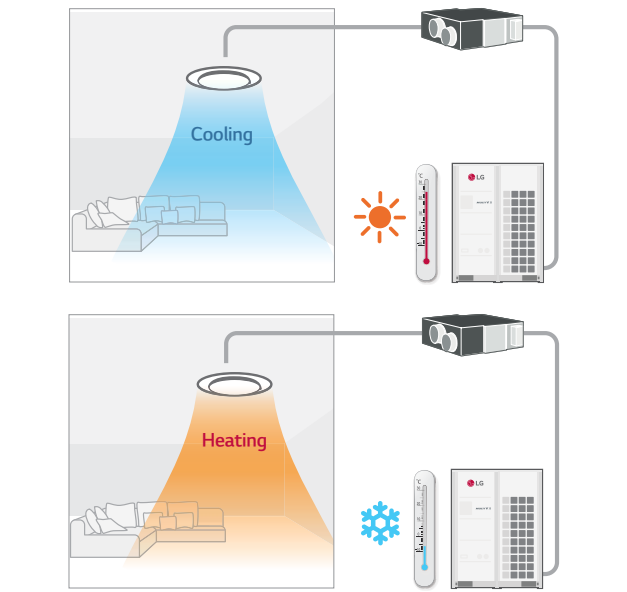
Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.



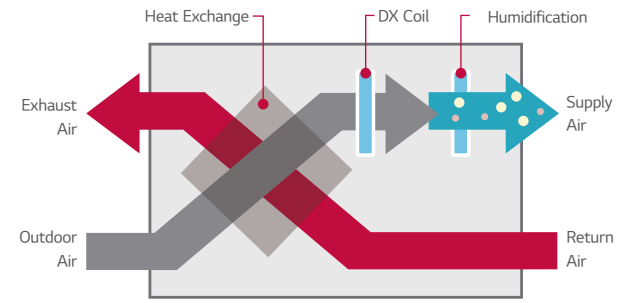
Providing Cool & Warm Fresh Air

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.



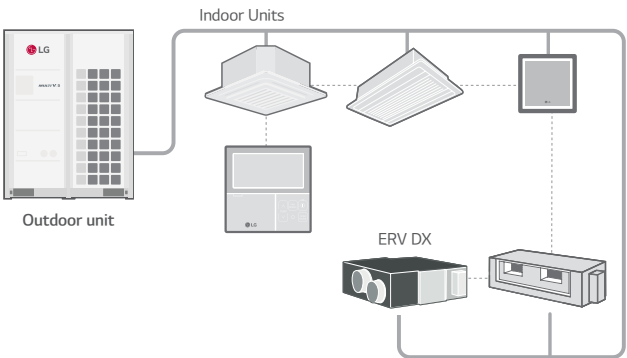
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



ERV

LZ-H025GBA4 / LZ-H035GBA4
LZ-H050GBA4



Model				LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4
Nominal Capacity		CMH (CFM)		250 (147)	350 (206)	500 (294)
Power Supply		Ø, V, Hz		1, 220-240, 50 / 60		
ERV Mode	Step	-		SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	68 / 68 / 70	73 / 73 / 75
		Cooling (SH / H / L)	%	66 / 66 / 68	63 / 63 / 65	66 / 66 / 69
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	29 / 28 / 24	32 / 30 / 27	34 / 32 / 25
Bypass Mode	Step	-		SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	29 / 29 / 25	32 / 30 / 27	35 / 33 / 25
Heat Exchanger		Type	-	Air to air cross flow heat exchange		
Net Weight		kg		44	44	44
Dimension		W x H x D	mm	988 x 273 x 1,014	988 x 273 x 1,014	988 x 273 x 1,014
Duct Work	Qty	EA		4		
	Size (Ø)	mm		Ø200		
Supply Air Fan	Qty	EA		1		
	Type	-		Direct-Drive (Sirocco Fan)		
Exhaust Air Fan	Qty	EA		1		
	Type	-		Direct-Drive (Sirocco Fan)		
Filters (Default)	Qty	EA		2		2
	Type	-		Cleanable fibrous fleeces		
	Size (W x H x D)	mm		855 x 10 x 160		855 x 6 x 230
Filters (Optional)	Model	-		AHFT035H0		AHFT050H0
	Qty	EA		2		2
	Type	-		F7		F7
	Size (W x H x D)	mm		423.5 x 132 x 25		425 x 194 x 25
Dry Contact				PDRYCB000		

Note : 1. ERV mode : Total Heat Recovery Ventilation mode
2. Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard.
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

ERV

LZ-H080GBA4 / LZ-H100GBA4
LZ-H150GBA4 / LZ-H200GBA4



Model				LZ-H080GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4
Nominal Capacity			CMH (CFM)	800 (471)	1,000 (589)	1,500 (883)	2,000 (1,177)
Power Supply			Ø, V, Hz	1, 220-240, 50 / 60			
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78	79 / 79 / 82	77 / 77 / 78
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	72 / 72 / 74	70 / 70 / 72	72 / 72 / 74	70 / 70 / 72
		Cooling (SH / H / L)	%	63 / 63 / 66	59 / 59 / 63	63 / 63 / 66	59 / 59 / 63
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	40 / 37 / 31	41 / 38 / 32	43 / 40 / 34	44 / 41 / 35
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	41 / 38 / 32	41 / 39 / 33	44 / 41 / 35	44 / 42 / 36
Heat Exchanger		Type	-	Air to air cross flow heat exchange			
Net Weight			kg	62		140	
Dimension		W x H x D	mm	1,062 x 365 x 1,140		1,313 x 738 x 1,140	
Duct Work	Qty		EA	4		4 + 2	
	Size (Ø)		mm	Ø250		Ø250 + Ø350	
Supply Air Fan	Qty		EA	1		2	
	Type		-	Direct-Drive (Sirocco Fan)			
Exhaust Air Fan	Qty		EA	1		2	
	Type		-	Direct-Drive (Sirocco Fan)			
Filters (Default)	Qty		EA	2		4	
	Type		-	Cleanable fibrous fleeces			
Filters (Optional)	Size (W x H x D)		mm	1,056 x 6 x 212.5			
	Model		-	AHFT100H0			
	Qty		EA	2		4	
	Type		-	F7			
	Size (W x H x D)		mm	520 x 192 x 25			
Dry Contact				PDRYCB000			

Note : 1. ERV mode : Total Heat Recovery Ventilation mode
2. Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard.
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

ERV WITH DX COIL

LZ-H050GXH4 / LZ-H080GXH4
LZ-H100GXH4



Model			LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4
Fresh Air Conditioning Load	Cooling	kW	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72
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	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60
	System		Natural Evaporating Type		
Humidifier	Amount	kg/h	2.70	4.00	5.40
	Pressure Feed Water	Mpa		0.02 ~ 0.49	
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35
Refrigerant			R410A		
Power Supply	Ø, V, Hz		1, 220-240, 50 / 60		
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat exchange system			Air to air cross flow total heat (Sensible + Latent heat) exchange		
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	105		
Piping Connection	Liquid	mm	Ø6.35		
	Gas	mm	Ø12.7		
	Water	mm	Ø6.35		
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)		
Connection Duct Diameter		mm	Ø250		

Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2. Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3. Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
4. Cooling and heating capacities are based on the following conditions. : Fan is based on High and Super-high.
5. 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.
6. The specifications, designs and information here are subject to change without notice.

Accessories

Chassis	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Independent Power Module		-	
Robot Cleaner		-	
Pre Filter (Washable)		-	
Ion Generator		-	
CO ₂ Sensor		AHCS100H0	
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

ERV WITH DX COIL

LZ-H050GXN4 / LZ-H080GXN4
LZ-H100GXN4



Model			LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air Conditioning Load	Cooling	kW	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72
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
	System		-		
Humidifier	Amount	kg/h		-	
	Pressure Feed Water	Mpa		-	
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		
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat exchange system			Air to air cross flow total heat (Sensible + Latent heat) exchange		
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	Ø6.35		
	Gas	mm	Ø12.7		
	Water	mm	-		
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)		
Connection Duct Diameter		mm	Ø250		

Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2. Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3. Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
4. Cooling and heating capacities are based on the following conditions. : Fan is based on High and Super-high.
5. 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.
6. The specifications, designs and information here are subject to change without notice.

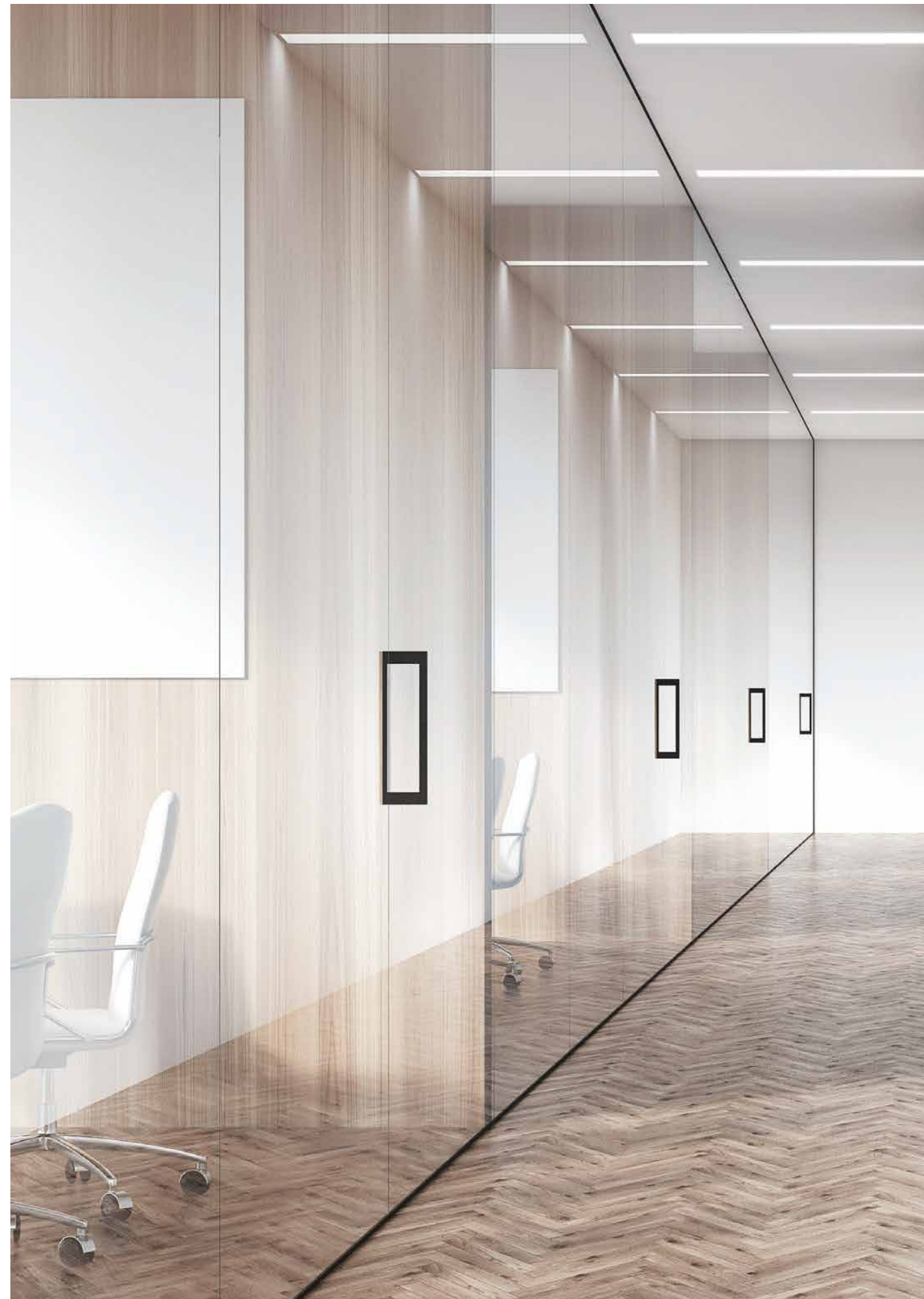
Accessories

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)		-	
Ion Generator		-	
CO ₂ Sensor		AHCS100H0	
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



LG CONTROL SOLUTIONS

MULTI V 5 offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These control systems are equipped with user-friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management.



INDIVIDUAL
CONTROL



FEATURE FUNCTIONS

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-Fi Controller
	Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name							
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	NEW PWLSSB21H (H/P)	PWFMD200
Basic	On / Off	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○
	Mode Change	○	○	○	○	○	○
	Auto Swing	○	○	○	○	○	
	Vane Control (Louver Angle)	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	-	-
	Electric Failure Compensation	○	○	○	○	-	○
	Indoor Temperature Display	○	○	○	○	○	
	ALL Button Lock (Child Lock)	○	○	○	○	-	-
Advanced	Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	Sleep / On / Off	Weekly
	Additional Mode Setting ¹⁾	○	○	○	-	-	-
	Time Display	○	○	○	-	○	-
	Humid. 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	○	○	-	-	-	-
ETC	Wi-Fi AP Mode Setting	○	○	○	○	○	-
	Air Purification Function	-	○	-	-	-	-
	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	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 / PACSSA000 / PACPSA000 / 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)

STANDARD III WIRED REMOTE CONTROLLER

4.3 inch colored screen with modern design



PREMTB100 (White) PREMTBB10 (Black)

Features & Benefits

- The optimized controller for MULTI V 5
 - Humidity sensor embedded
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- New modern design & easy interface
 - Seamless design / Touch button
 - 4.3 inch color LCD / Intuitive GUI
- Energy saving functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, operation time)
 - Temp. Setback timer, time limit control
 - Target setting (ODU capacity, Instantaneous power)
- Group control
 - Up to 16 Indoor units can be controlled with one remote control
- External device On / Off (1 point)
 - Customized interlocking control with indoor unit is possible without dry contact
- 2 set points control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)
- Air Purification
 - Air Quality Monitoring
 - Air Purification function Control



Model Name	PREMTB100 / PREMTBB10
On / Off	☐
Fan Speed Control	☐
Temperature Setting	☐
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Additional Mode Setting ¹⁾	
Auto Swing	☐
Vane Control (Lower direction)	☐
E.S.P (External Static Pressure) ²⁾	☐
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	☐
Electric Failure Compensation	☐
Lock	All / On & Off / Mode / Set temperature range
Filter Sign	☐ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	☐
Indoor Temperature Display	☐
Indoor Humidity Display	☐
Human Detection	☐
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black light for Screen saver	☐
Home Leave	2 set points control

※ ○ : Applied, - : Not Applied
1) 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.
Note : 1. Indoor unit needs to have functions requested by the controller.
2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly.

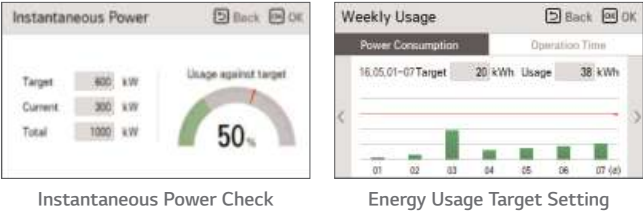


Energy Savings

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.



Time Limit Control

- The time-limit operation controls product by amount of time. By setting the device operation time in advance, users can control for how long a device works and have it stop automatically.



2 Set Points Control

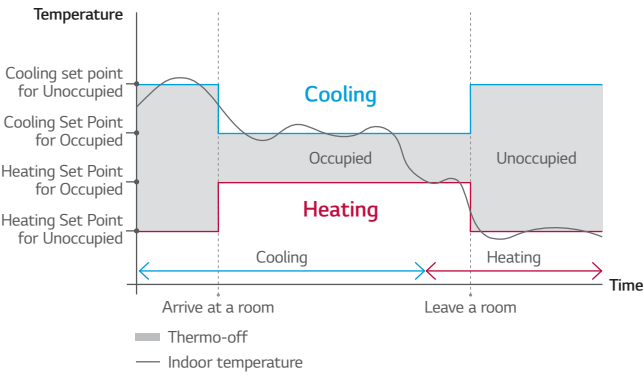
Auto Changeover for convenience

- With 2 set points control function, indoor unit manages room temperature automatically.

Setback for energy savings and comfort

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

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



External Device On / Off



External Equipment Control
User can turn the external equipment off or on through contact point output.



Customized Interlocking Control
User can create a control scenario where the external heater switches on when temperature drops below or rises above a certain temperature.

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.

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design.



PREMTA000 ¹⁾ / PREMTA000A ²⁾ / PREMTA000B ³⁾

1) English / Portuguese / Spanish / French
2) English / Italian / Russian / Chinese
3) English / German / Polish / Czech

Features & Benefits

- Full Touch screen
- The optimized controller for MULTI V 5
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- Design with user's convenience
 - Intuitive GUI
 - Main display simple mode
 - 5 inch color LCD
- Energy saving functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, operation time)
 - Temp. Setback timer, Time limit control
 - Target setting (ODU capacity, Instantaneous power...etc)
- Group control
 - Up to 16 Indoor units can be controlled with one remote control
- 2 set points control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)



Full Touch Screen

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

2 Set points Control

- Auto changeover switching the operation mode automatically
 - Setback (Home Leave) Changing status by occupied / unoccupied
- * This function is only for Heat Recovery system and Single heat pump.

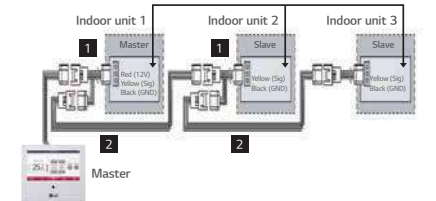
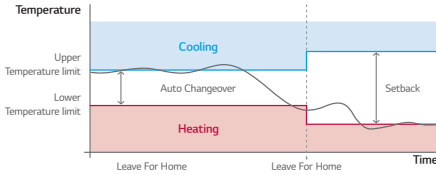
Group Control

- Max. 16 Indoor units by one remote controller.



Model Name	PREMTA000 / PREMTA000A / PREMTA000B
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting ¹⁾	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) ²⁾	○
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ 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 : 1. Indoor unit needs to have functions requested by the controller.
2. 2 set points control works normally with MULT V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.



STANDARD II WIRED REMOTE CONTROLLER

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



PREMTB001 (White) PREMTBB01 (Black)

Features & Benefits

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

Model Name	PREMTB001 / PREMTBB01
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure)	○
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ ¹⁾
Size (W x H x D, mm)	120 x 120 x 16
Blacklight	○
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

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



PQRCVCLOQW (White) / PQRCVCLOQ (Black)



PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Features & Benefits

- Small remote control with minimal functionality

Model Name	PQRCVCLOQW / PQRCVCLOQ	PQRCHCA0QW / PQRCHCA0Q
On / Off	○	○
Fan Speed Control	○	○
Temperature Setting	○	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	-
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⁾	○ ¹⁾
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	○	○

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

WIRELESS REMOTE CONTROLLER



NEW

PWLSSB21H (H/P)

Features & Benefits

- Easy to use while moving • Main functions are available

Model Name	PWLSSB21H (H/P)
On / Off	○
Fan Speed Control	○ ¹⁾
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	○
Vane Control (Louver direction)	○
Reservation	Sleep / On / Off
Time Display	○
Indoor Temperature Display	○
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

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

LG Wi-Fi MODEM

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



PWFMD200

Features & Benefits

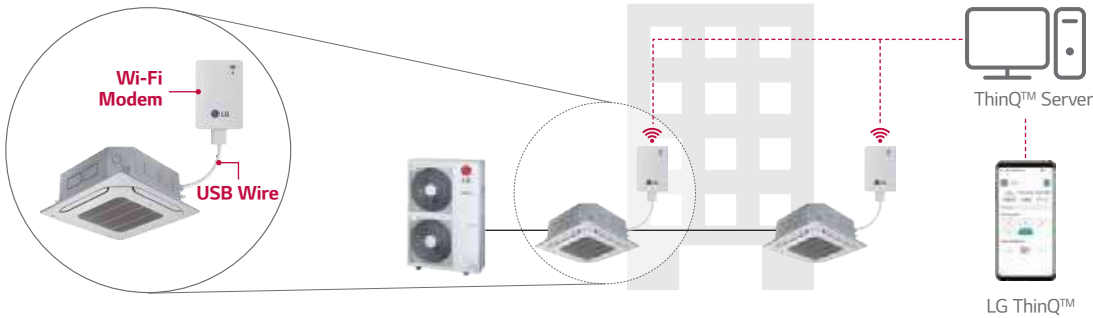
- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ™ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (LG ThinQ™) is available
- Simple operation for various functions
 - On / Off
 - Operation mode
 - Current/Set temperature
 - Fan speed
 - Vane control ¹⁾
 - Reservation (Sleep, Weekly On / Off)
 - Energy monitoring ²⁾
 - Filter management
 - Error check

Model Name	PWFMD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	MULTI V Indoor unit 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.

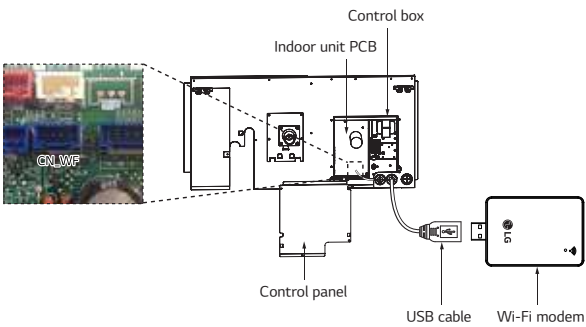


Overview



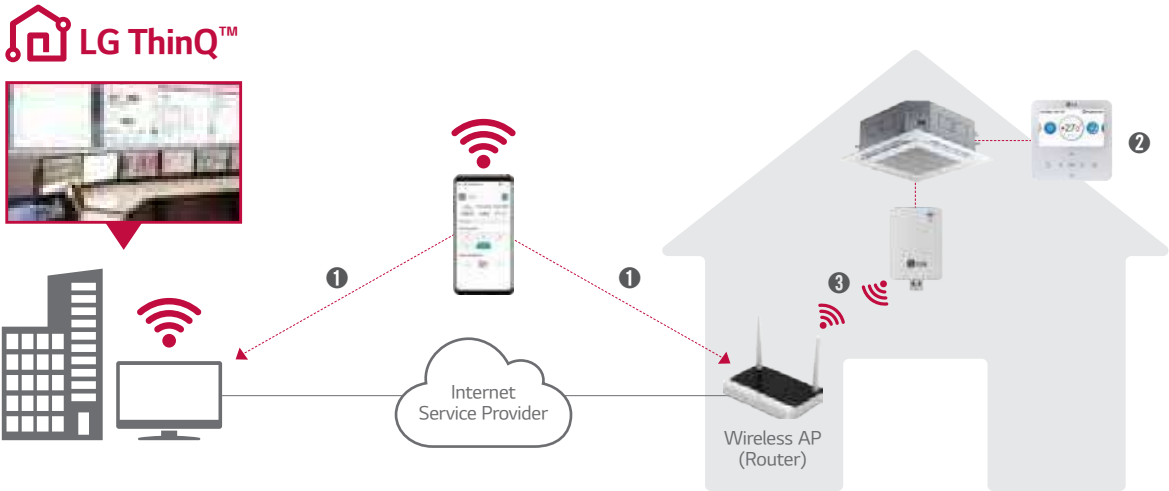
※ Search "LG ThinQ™" on Google market or Appstore then download the app.
※ Internet service with Wi-Fi connection has to be available.

Installation Scene



※ Each indoor unit has a Wi-Fi modem installation location inside the product, and it can be installed by exposure if necessary.

LG ThinQ™ Connectivity



Connection (Pairing) Order

- 1 Make LG account on LG ThinQ™ and select the Router that will be used
- 2 Insert passwords of selected router and set AP (Access Point) by LG remote controller
- 3 Confirm the pairing between Wi-Fi Modem and Router

ThinQ™ Mobile App

Simple operation for various functions

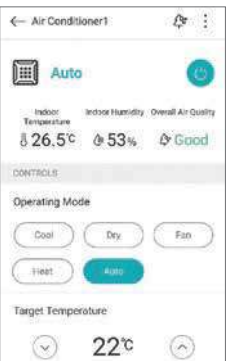
On/Off, Current Temp, Mode, Set Temp



Day



Night

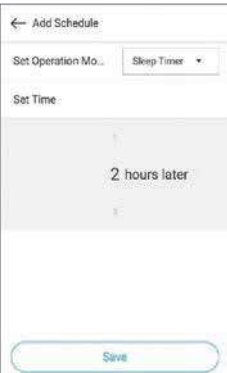


Vane Control



Easy Management

Reservation



Energy Monitoring



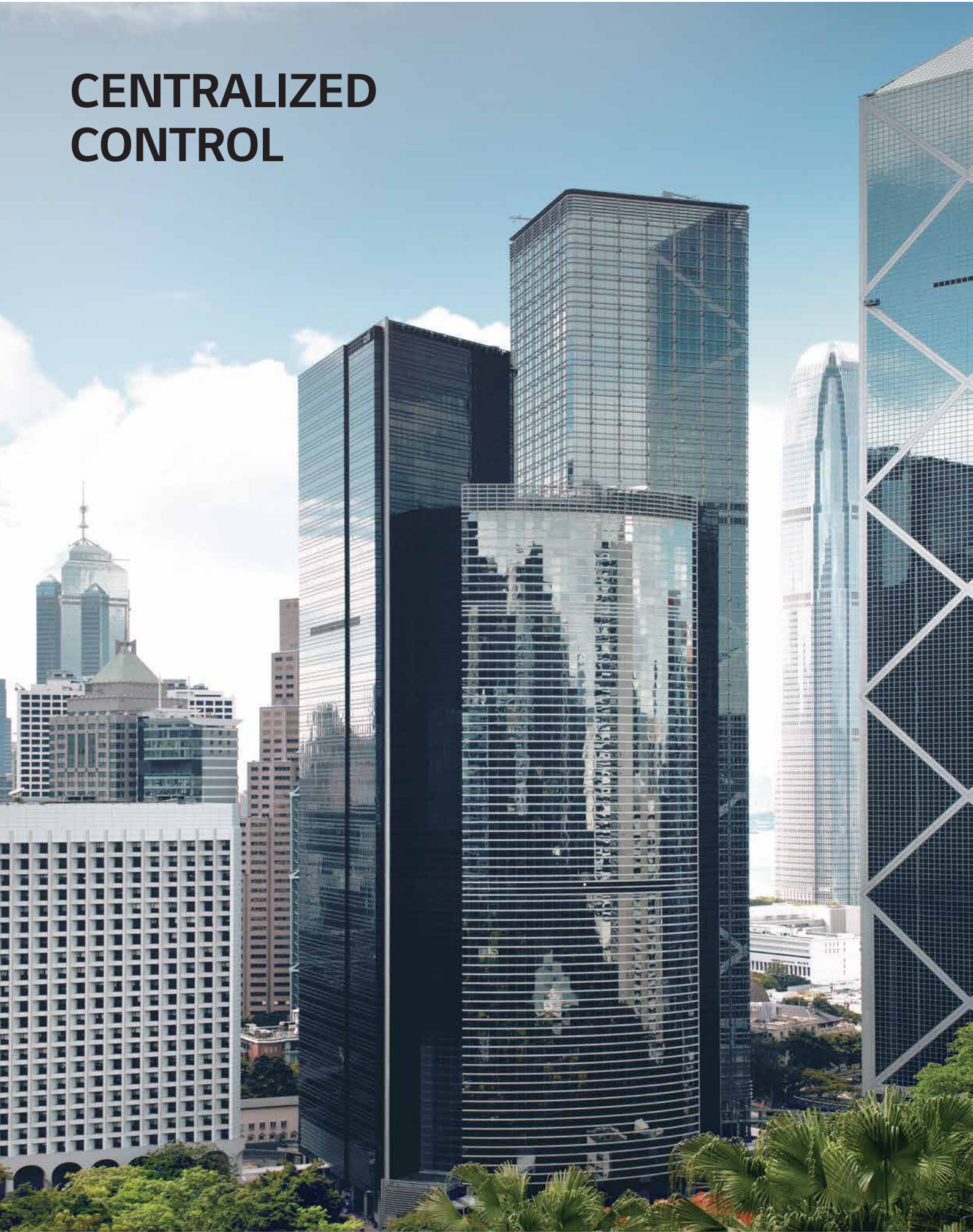
Smart Diagnosis



Filter Management



CENTRALIZED CONTROL



CENTRALIZED CONTROLLER FEATURE LIST

Controller Name			AC Ez	AC Ez Touch	AC Smart 5 ³⁾	ACP 5 ³⁾	ACP Lonworks	AC Manager 5 ³⁾
Model Name								
			PQCSZ250S0	PACEZA000	PACSSA000	PACP5A000	PLNWK000	PACM5A000
Product	DO		-	-	2	4	2	-
	DI		-	1	2	10	2	-
	IDUs		32	64	128	256	64	8,192
	ERV		32	64	128	256	64	8,192
	Max. Connectable No.		32	64	128	256	64	8,192
	A/C + ERV		32	64	128	256	64	8,192
Compatibility	AHU		-	-	16	16	16 ⁴⁾	16 x 32
	Chiller		-	-	5 Optional ²⁾	10 Optional ²⁾	-	10 x 32
	Air Conditioner		○ ¹⁾	○	○	○	○	○
	Ventilation (ERV / ERV DX)		○ ²⁾	○	○	○	○	○
	Heating		-	○	○	○	○	○
	AHU		-	-	○	○	○	○
Additional Function	Chiller		-	-	○ ⁴⁾	○ ⁴⁾	-	○
	ACS IO		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Add Drawing		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Group Management		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Auto Changer Over		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Set Back		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	2 Set		-	○	○	○	○ ⁴⁾	○
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter
	Indoor Unit Lock		-	○	○	○	○ ⁴⁾	-
	Cycle		-	-	○	○	○ ⁴⁾	○
Schedule	Air Purification Function		-	-	○	○	-	○
			○	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Auto Control	Peak Control	-	○	○	○	○ ⁴⁾	○
		Priority Control	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
		Outdoor Unit Capacity Control	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Energy Navigation	Time limit control		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Interlocking		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
			-	-	○ ⁴⁾	○ ⁴⁾	-	○
	Power		-	○	○	○	○ ⁴⁾	○
	Gas		-	-	○	○	○ ⁴⁾	○
Energy Report	Run time		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Email		-	-	-	-	○ ⁴⁾	-
	PC / USB		-	-	○ ⁴⁾	PC	PC	PC
			-	-	-	-	-	○
History	Trend Reporting		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Report (Control / Error)		-	Error	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Send Email		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
etc	Save to PC / USB ⁶⁾		-	-	-	-	○ ⁴⁾	-
	Summer Time		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	Outdoor Unit Oil-Return Operation		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	-
	User Authority		-	Password	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	PC Access		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
			-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○

※ ○ : Applied, - : Not Applied
1) Except for some feature (individual lock, limit, temp., etc.)
2) Except for some feature (user mode, additional function, etc.)
3) ACP 5 or AC Smart 5 is required.
4) This function is possible to use in Web Only. (BMS Point is not applied.)
5) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.
6) Save to PC / USB function will be available from 4Q 2020.

AC EZ TOUCH

Smart management with 5 inch touch screen for small site.



PACEZA000

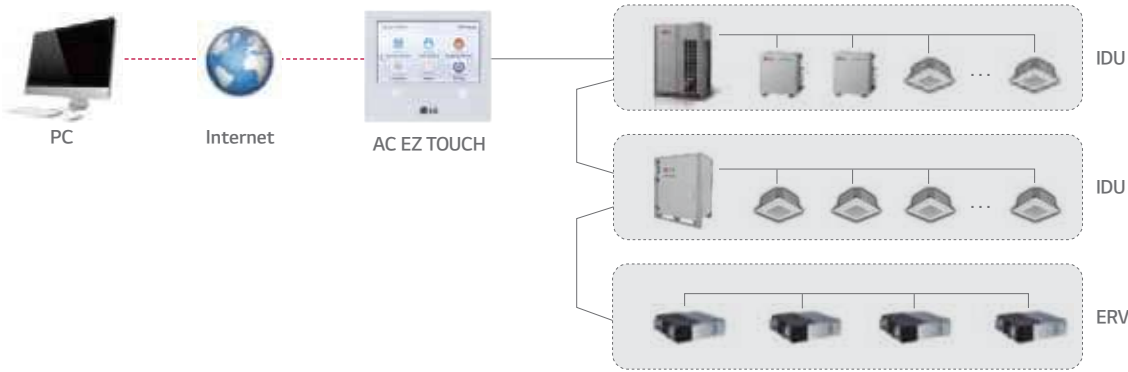
Features & Benefits

- User-friendly control with iconographic interface
- Total 200 schedule events
- Energy saving mode
- Energy monitoring (with PDI)
- 2 set point function (Upper / Lower temperature setting)
- Temperature set points range limit
- Remote controller lock (All, Temp, Mode, Fan Speed)
- Operation history
- Clean or change filter alert
- Emergency stop

Model Name	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception day
Remote Access	By client S/W
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	○

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

Overview



Feature

PC Access

Users can control each space efficiently through PC access.



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

Energy Statistics (with PDI)

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

Energy		
2016.2.8 ~ 2016.2.19 Today Week Month		
Name	Usage(kWh)	Accumulated(kWh)
Group1	110	3921
Group2	150	6186
Group3	130	4267
Group4	120	7614

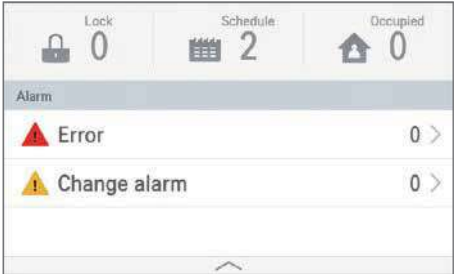
Energy Mode

When using energy mode function, operation mode changes 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.



AC EZ

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



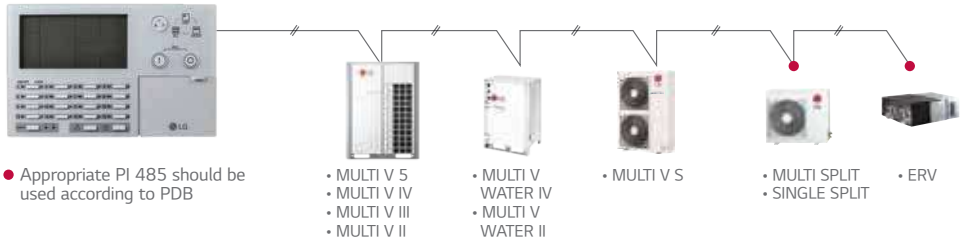
PQCSZ250S0

Model Name	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	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

Features & Benefits

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



AC SMART 5

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



PACS5A000

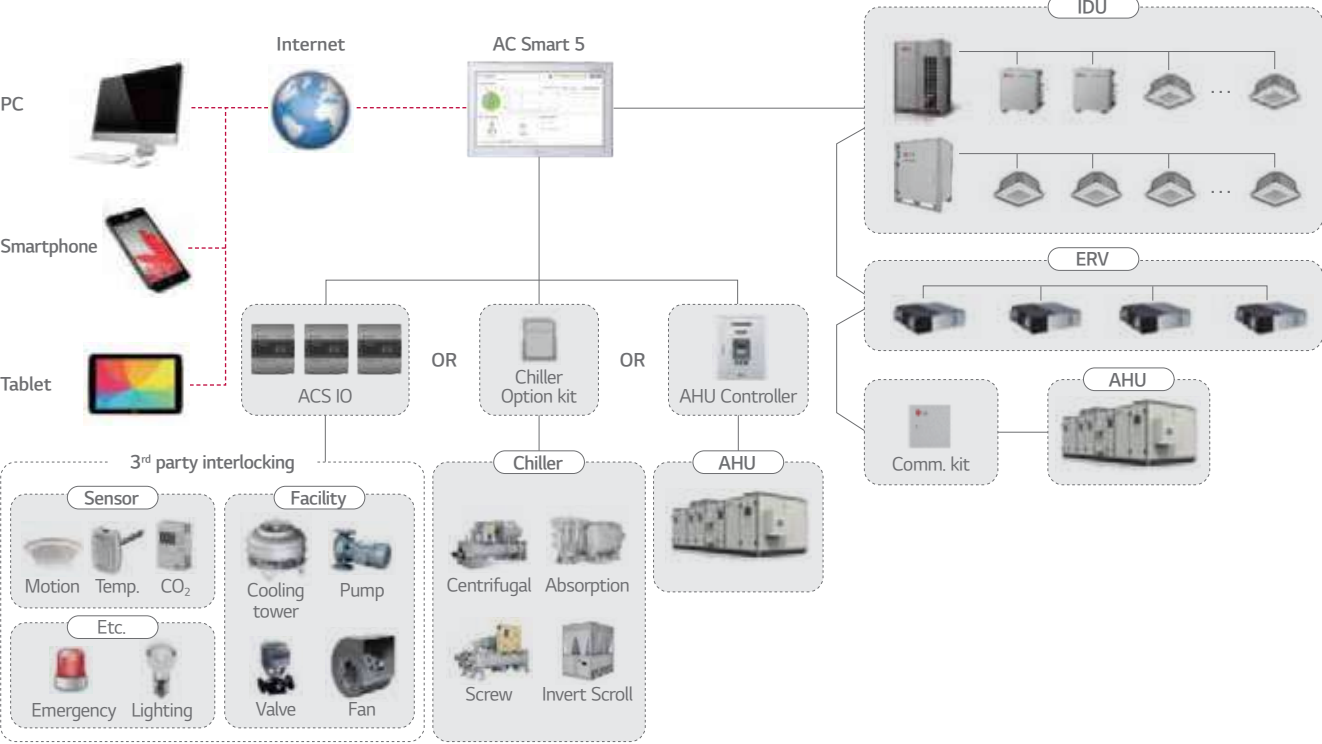
Features & Benefits

- 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
- Air quality monitoring
- Air purification function control

Model Name	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller 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 / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
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

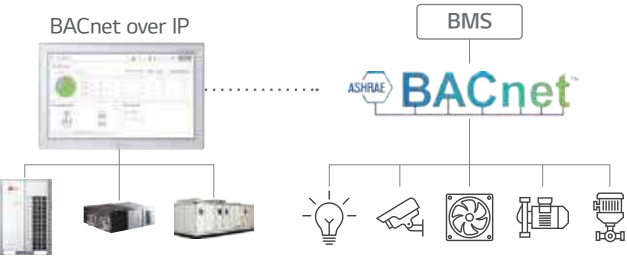
Overview



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

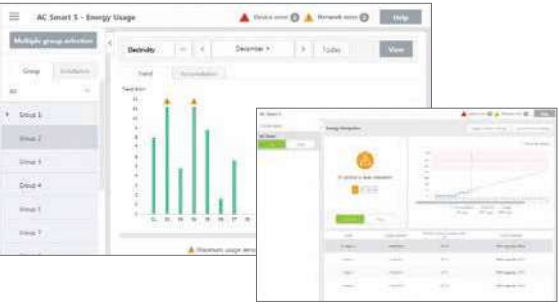
Building Management System (BMS) Integration

Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.



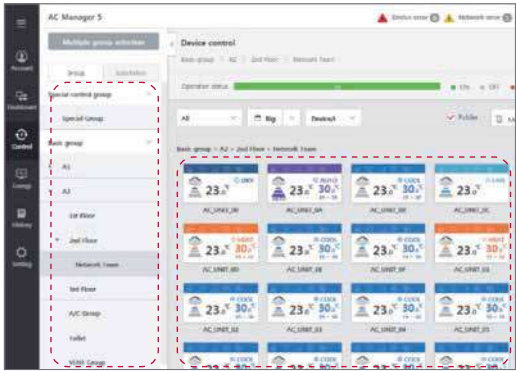
Energy Management

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



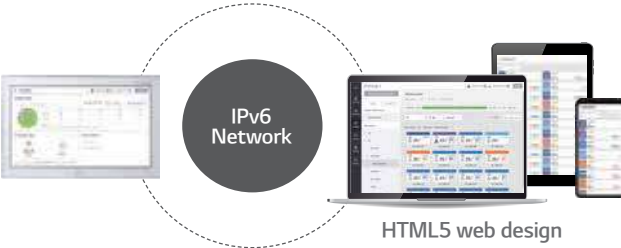
Multi Level Group Composition

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



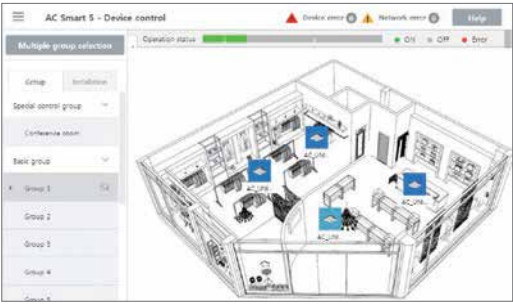
Advanced Network Accessibility

AC Smart 5 reflects the state of the art of network technology trend. IPv6 (Internet Protocol version 6), which is the most recent version of the Internet Protocol, provides accessibility to the IPv6 compatible network environment. In addition, HTML5 allows you to easily control LG HVAC system on a variety of platforms (PC, Mobile, Tablet), at any time and from any location, not just on the touch screen.



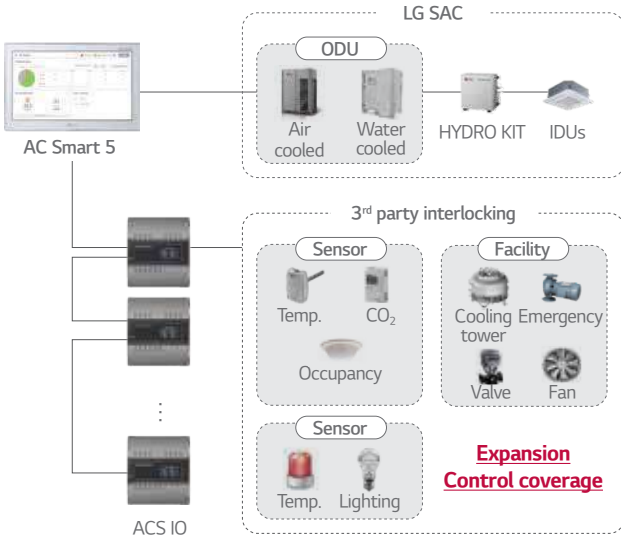
Visualized Control

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



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...)



ACP 5

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.



PACP5A000

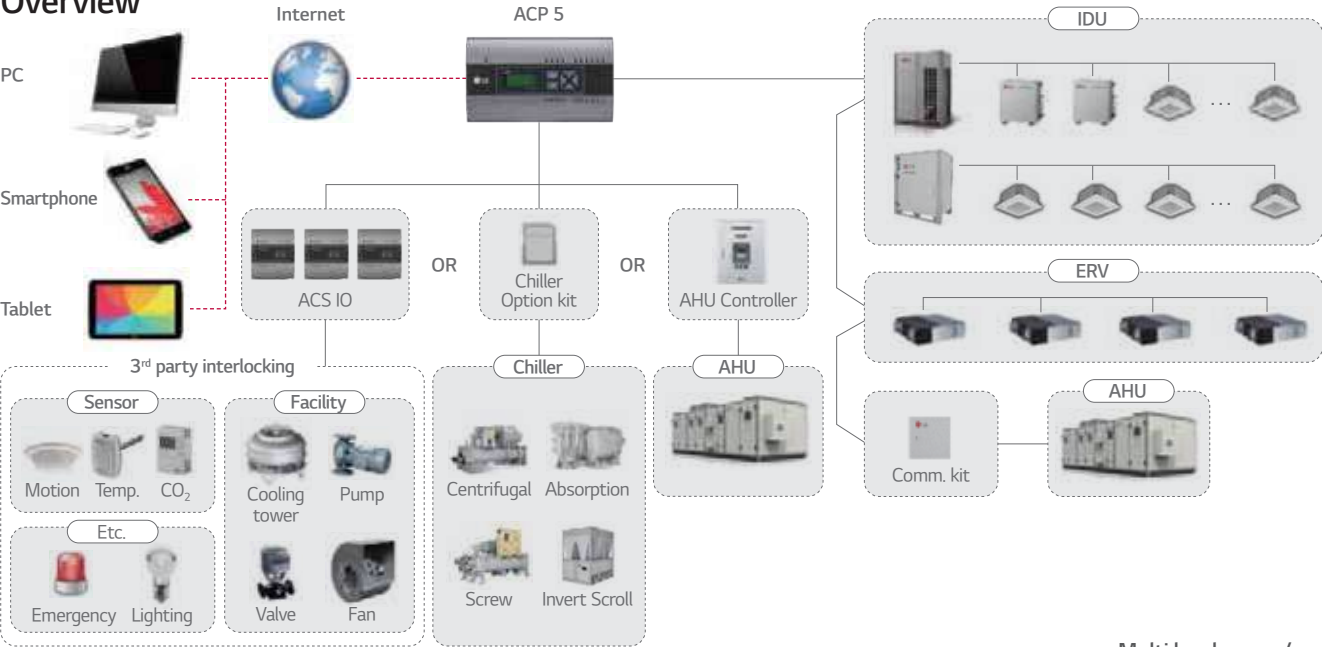
Features & Benefits

- The central controller allows control of the LG HVAC system by various platforms. (PC, Smartphone, Tablet)
 - DI :10 / DO : 4
 - Max. 256 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
 - Air quality monitoring
 - Air purification function control

Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller 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 / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
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.

Overview



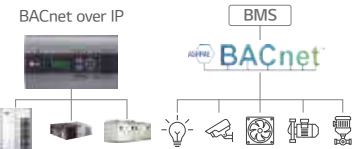
Advanced Network Accessibility



Energy Navigation



BACnet IP & Modbus TCP



Multi level group / Special control group



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

ACP LONWORKS GATEWAY

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.



PLNWKB000

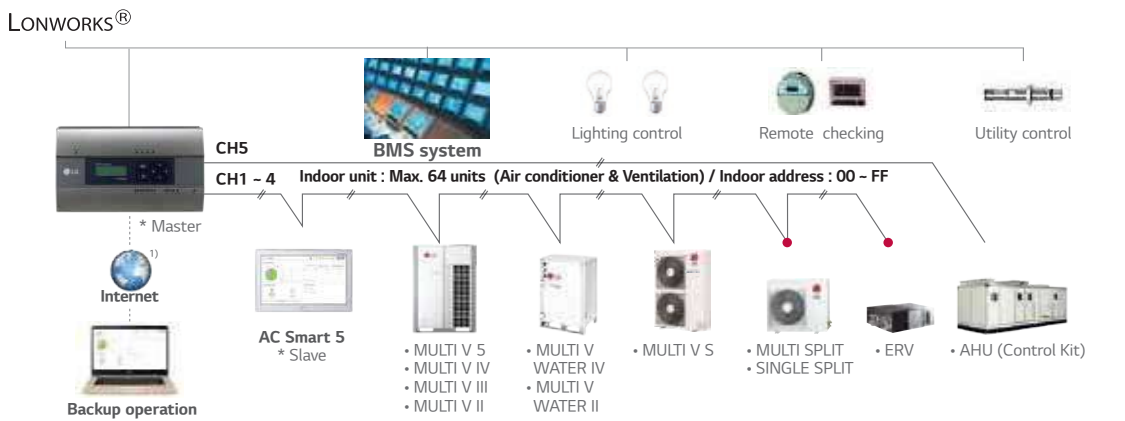
Features & Benefits

- Connect to use Lonworks protocol and LG air conditioner protocol.
- Process ability (Max. connection) : Indoor unit 64EA, AHU Control Kit : Max. 16EA
- Self installation verification using internet (Web Server Included) - Diagnosis of communication status on LG Air-conditioner network
- It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.

Control	Monitoring
On / Off Command	On / Off
Operation Mode Setting	Operation Mode
Lock	Lock
Temperature	Temperature
Fan Level	Fan Level
Fan Direction Auto	Fan Direction Auto
Mode Lock	Mode Lock
Fan Level Lock	Fan Level Lock
Temperature Lock	Temperature Lock
Temperature Lower Limit	Temperature Lower Limit
Temperature Higher Limit	Temperature Higher Limit
Peak Convert Cycle	Peak Convert Cycle
Peak Setting	Peak Setting
Temperature Unit	Temperature Unit
Total Temperature Lock	-
Total On / Off	-
Total Temperature	-
-	Product Type
-	Product Address
-	Current Temperature
-	Alarm
-	Power
-	Error Code
-	Peak Current Operating Percent
-	Total Accumulate Power

※ ○ : Applied, - : Not Applied

Overview



* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.
1) Assignment of public IP address is required to access central controller through internet.

PI 485

PI 485 converts LG air conditioner's protocol to the RS485 protocol for the central controller.



PHNFP14A0

- Power : Connected with the Indoor Units
- 1 for Each Indoor Unit
 - Indoor Unit (ERV)

AC MANAGER 5

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



PACM5A000

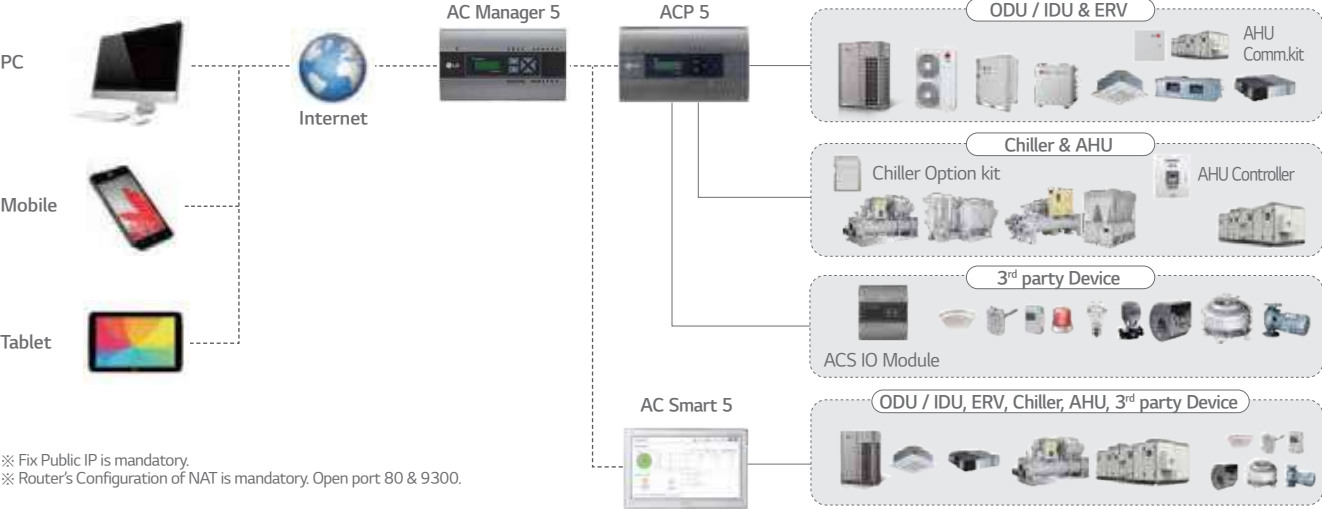
Features & Benefits

- Console Type : No needs software installation and lock-key
- Max. 8,192 IDU Control
- Schedule
- Map view (Visual Navigation)
- Time limit control / Auto change over
- Energy monitoring / Navigation
- History / Operation trend
- Emergency stop & alarm
- Error alarm by E-mail
- Multi language
(Eng, Ita, Spa, Por, Rus, Fra, Ger, Tur, Pol, Chi, Kor)
- Air quality monitoring
- Air purification function control

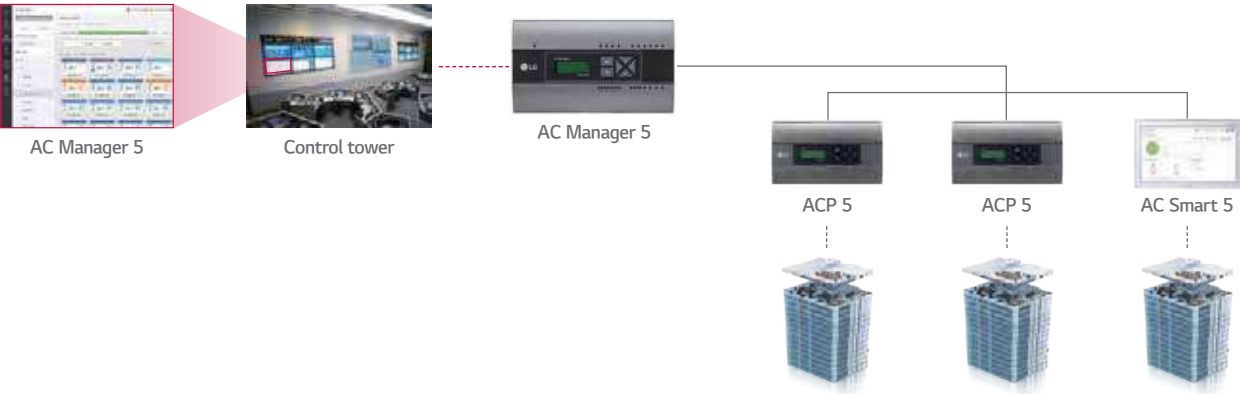
Model Name	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾
Maximum number of units	8,192 (supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller 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	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLLN000) is required.
Note : AC Manager 5 requires ACP 5 or AC Smart 5.

Overview



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



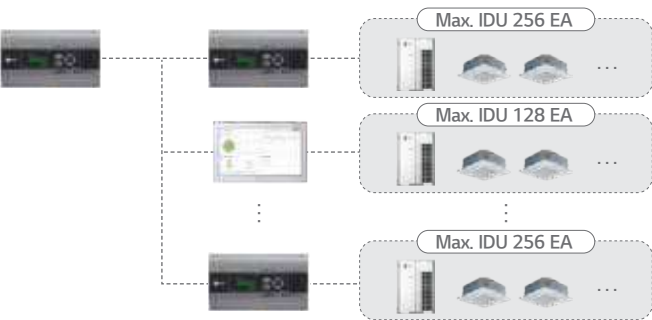
Stand-alone

Integrated with S/W program and Hardware platform, it is convenient to install since users no longer need to install program with lock-key on PC.



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 (Reddot award)

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.



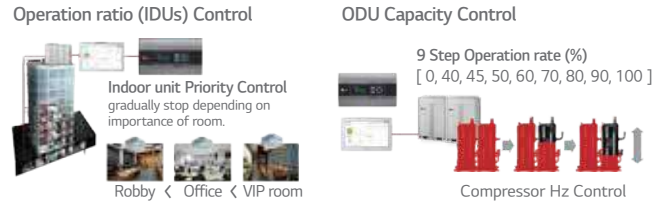
Energy Navigation & Energy Usage Trend

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.



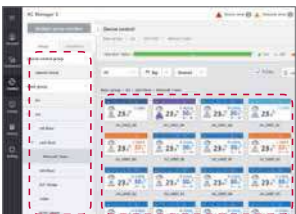
Peak Control

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.



Multi Level Group Composition

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



MODBUS RTU GATEWAY

Providing Modbus RTU connection between LG Air conditioners and BMS.



PMBUS00A

Features & Benefits

- Function
 - MODBUS RTU communication with MODBUS master controller
 - MODBUS RTU slave (RS485) / 9,600 bps
 - Applicable for MULTI V 5, MULTI V S, ERV, THERMA V
- Size (W x H x D) : 53.6 x 89.7 x 60.7
- Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules
- Power : DC 12V

Modbus Gateway Memory Map

Baud Rate : 9,600 bps, Stop Bit : 1 stop bit, Parity : None Parity, Byte size : 8 bits

Coil Register (0 x 01)

No.	Data Bit			Function	Register
	Air Conditioner	ERV / DX ERV	HydroKit & THERMA V		
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	EnergySave	Reserved	0 : Disable / 1 : Enable	

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

Discrete Register (0 x 02)

No.	Data Bit			Function	Register
	Air Conditioner	ERV / DX ERV	HydroKit & THERMA V		
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 Hydrokit – 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 'Hydrokit' ONLY.

MODBUS RTU GATEWAY

Holding Register (0 x 03)

No.	Data Bit			Function	Register
	Air Conditioner	ERV / DX ERV	HYDROKIT & THERMA V		
1	Operate Mode	Operate Mode	Connected IDU	0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydrokit (Middle Temp. DHW) / AWH-HP – 0 : Cooling, 3 : Auto, 4 : Heating Hydrokit (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.

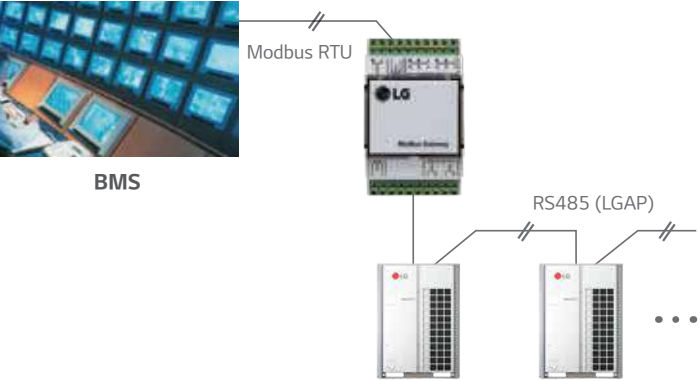
Input Register (0 x 04)

No.	Data Bit			Function	Register
	Air Conditioner	ERV / DX ERV	HYDROKIT & THERMA V		
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	

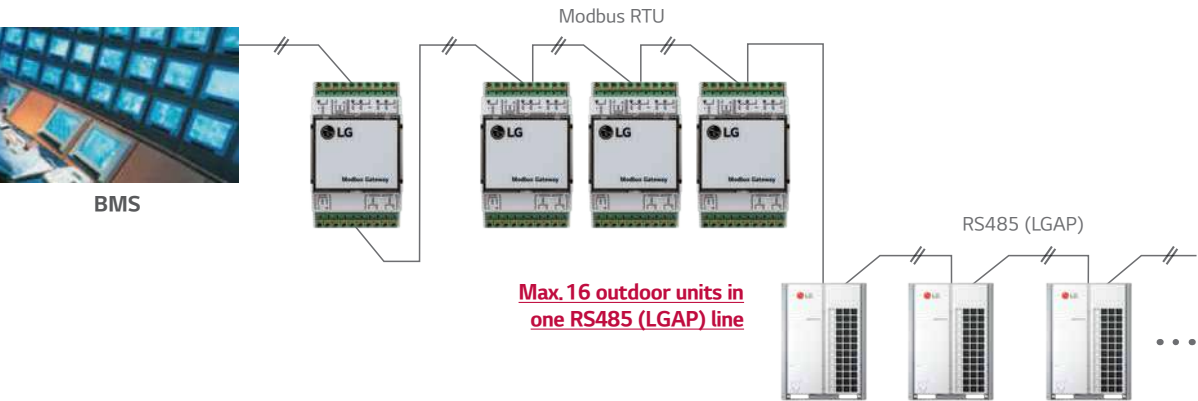
1) This register value is applied 'DX Ventilator' ONLY.
2) This register value is applied 'AWHP' ONLY.

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



INTEGRATION DEVICE

PDI (POWER DISTRIBUTION INDICATOR)

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



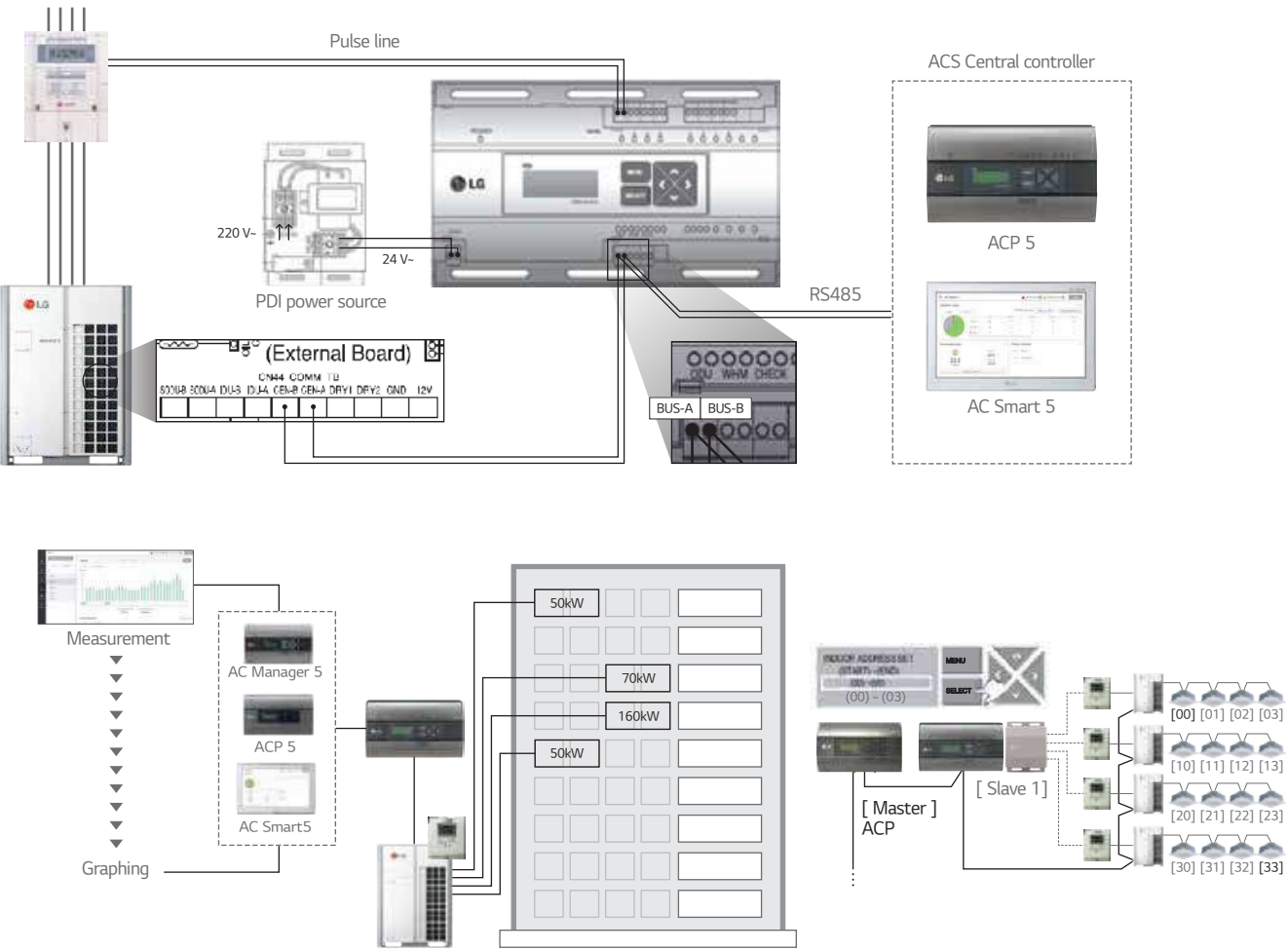
PQNUD1S40 (Premium, 8 port)
PPWRDB000 (Standard, 2 port)

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 Backup when Power Outage	○	
Power Input	PDI : AC 24V, Transformer : AC 220V	

※ ○ : Applied, - : Not Applied

Features & Benefits

- Enables total and indoor power consumption monitoring
- With LG central control connectivity, energy monitoring, energy savings operations and target usage setting functions are enabled
- Enables gas consumption and electricity distribution



ACS IO MODULE

This module can be connected with ACP 5 or AC Smart 5 controller if additional I/O points such as DI/DO and AI/AO for 3rd party devices control and monitoring are needed.



PEXPMB000

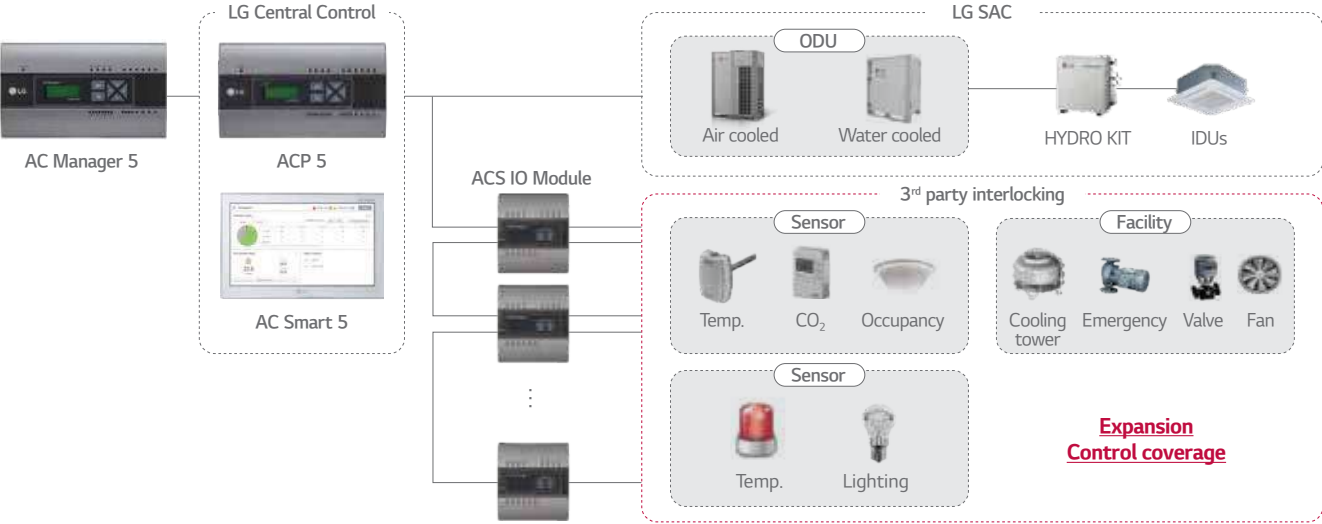
Model Name		PEXPMB000	
Linkable Products		PACS4B000 PACP4B000 PACS5A000 PACP5A000	
Communication	RS-485	1 ch.	
	Digital Input	3 port	
I/O	Digital Output	3 port	
	Universal Input ¹⁾	4 port	
	Analog Output	4 port	
Value Spec		Min.	Max.
Analog Input	NTC 10k	0.68kΩ	1.77kΩ
	PT 1000	803kΩ	1,573kΩ
	Ni 1000	871.7kΩ	1,675.2kΩ
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

※ ○ : Applied, - : Not Applied
1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input

Features & Benefits

- Interlocking with 3rd party equipment LG Central controller can make operation scenario with 3rd party equipment by ACS IO Module.
- Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches…)

Key Application



* 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.

ACU IO MODULE

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

Module Name	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PACS5A000, PACP5A000		
Communication RS-485	2 ch. ¹⁾	1 ch.	1 ch.
Digital Input	-	-	3 port
Digital Output	2 port	6 port	-
Universal Input ²⁾	4 port	-	6 port
Analog Output	2 port	4 port	
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) 1ch is reserved for internal communication
2) The type of UI (Universal Input) is selectable among Digital Input and Analog Input

Features & Benefits

- 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…)

CHILLER OPTION KIT

LG central controller 5 series with Chiller Option Kit can provide LG chiller remote control and cycle monitoring.

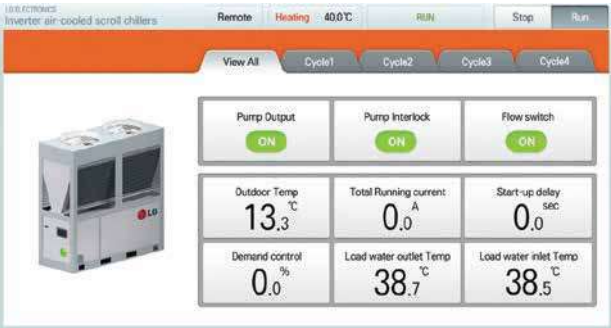


PCHLLN000

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 Change	Scroll chiller only
Schedule	○
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (LG Only)

※ ○ : Applied, - : Not Applied

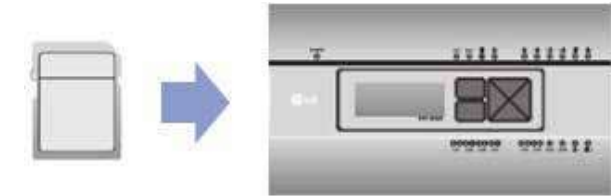
Cycle Display Example



Installation Scene

- Chiller Option Kit installation of LG HVAC Solution product 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 LG HVAC Solution product.

Insert the SD Card in the LG HVAC Solution product. If a backup SD Card is inserted, replace it with a Chiller Option Kit SD Card.



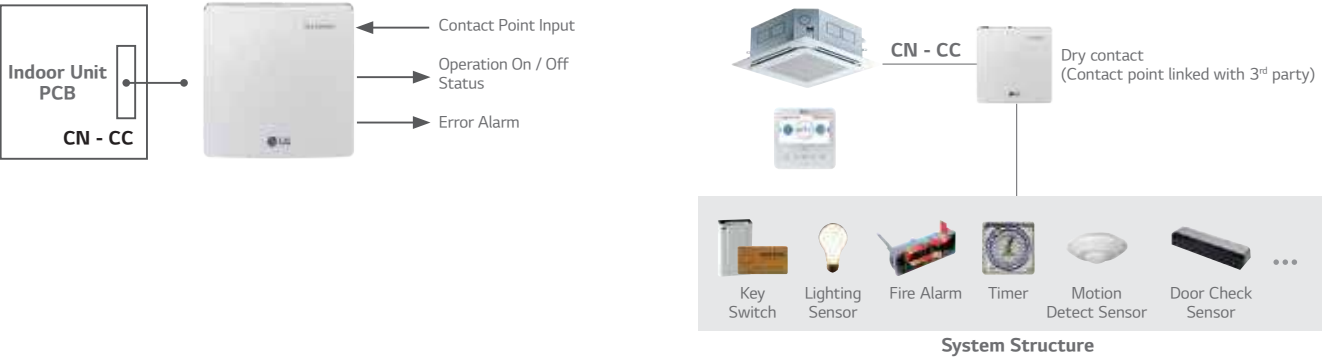
DRY CONTACT

Connection between an indoor unit and external devices to control various functions.

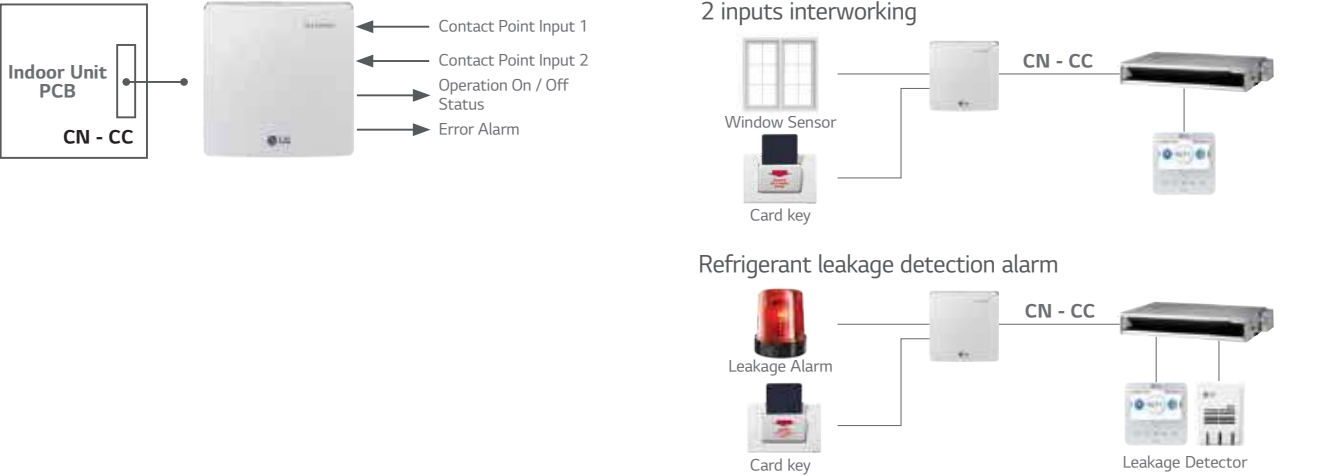
Model Name		PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB320	PDRYCB500
						
Case		○	○	○	○	○
Input Port		1	2	8	8	-
Universal Input port		-	-	-	1	-
Comm. Protocol		-	-	-	-	Modbus RTU
Power		AC 220V	Connect to Indoor unit PCB (CN_CC)			
Aircon	On / Off	○	○	○	○	○
	Oper Mode	-	○	○	○	○
	Set Temp.	-	(Select & Fix)	(Select & Fix)	(Select & Fix)	○
	Fan Speed	-	-	○	○	○
	Thermo-Off	-	(Select & Fix)	○	○	-
	Energy Saving	-	(Select & Fix)	-	-	-
	Lock/Unlock	-	(Select & Fix)	-	-	-
Control	On / Off	○	-	○	○	-
	DHW On / Off	-	-	○	○	-
	Thermo-Off	-	-	○	○	-
	Oper Mode	-	-	○	○	-
	Silent Mode	-	-	○	○	-
	Emergency Mode	-	-	○	○	-
Vent	On / Off	○	-	-	-	○
	Oper Mode	-	-	-	-	○
	Aircon Mode	-	-	-	-	○
	Additional Mode	-	-	-	-	○
	Fan Speed	-	-	-	-	○
Output	Operation Status	○	○	○	○	○
	Error	○	○	○	○	○
	Room Temp.	-	-	-	-	○

※ ○ : Applied, - : Not Applied
Note : 1. Compatibility of PDRYCB300 / PDRYCB320
- Can use with all types of aircon indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can not use with Single package models.
- AWHP : 3 series split and monobloc models.
2. Compatibility of PDRYCB400
- Can use with all types of aircon indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can not use with single package models.
- Can not use with AWHP, Hydrokit models.
3. (Select & Fix) : This function is preset by rotary switch.

PDRYCB000



PDRYCB400



PDRYCB300 / PDRYCB320



PDRYCB500



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

GROUP CONTROL WIRE

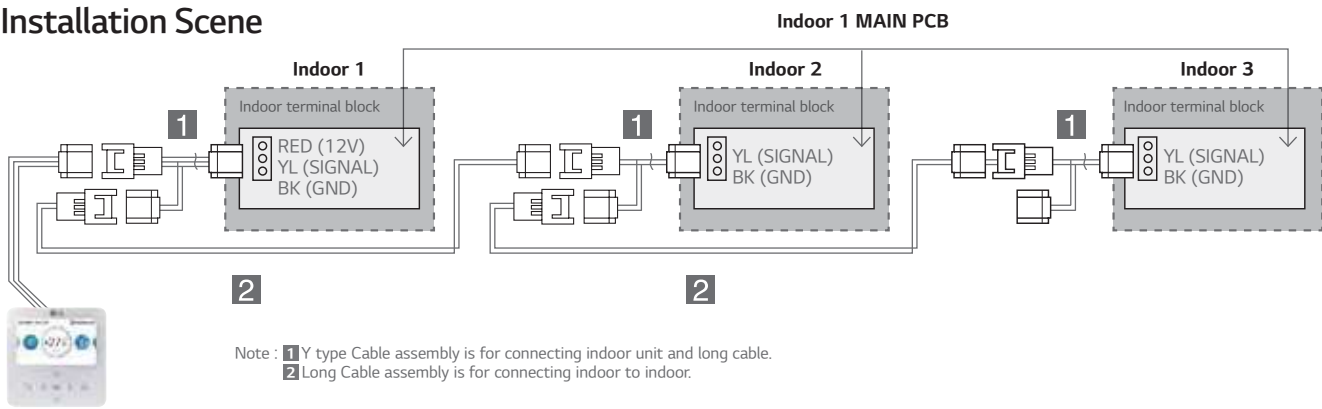
Cables used to connect a wired remote controller up to 16 indoor units.



PZCWRCG3

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

Installation Scene



REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature.



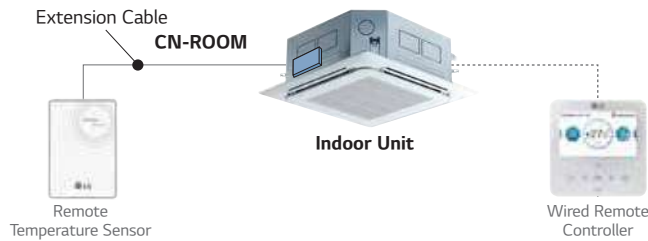
PQRSTA0

Features & Benefits

- It detects the exact room temperature instead of indoor unit's air temperature sensor.
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, THERMA V and HYDRO KIT.
- Extension cable (15m) is included.

Installation Scene

1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



LOW PROFILE REMOTE TEMPERATURE BUTTON SENSOR

Allows for easy and discreet installation as well as connection to an indoor unit.



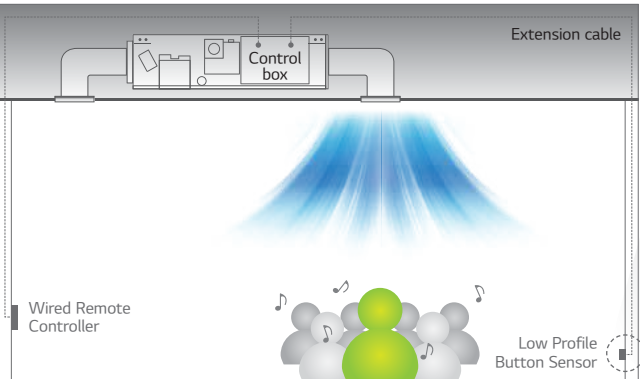
ZRTBS01

Model Name	ZRTBS01
Operation Range	-40 °C to 85 °C (0 to 100%RH, Non-condensing)
Sensing Element	Thermistor
Sensing Element Accuracy	0.2 °C (0 to 70 °C)
Material	Etched Teflon
Wire Leads Length	15m
Thickness	0.33mm²
Mounting	10mm hole, push in plastic sheath with peel off tape strip
Enclosure Material Ratings	Plastic, NEMA 1, UL94

Features & Benefits

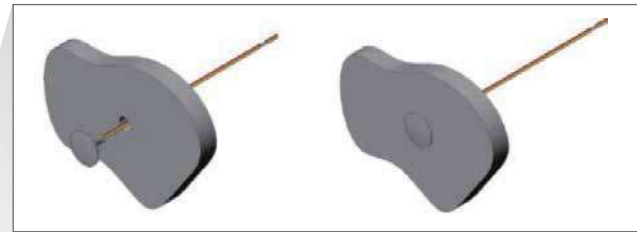
- Ideal for locations where aesthetics are as important as the temperature measurement.
- Inconspicuous wall sensor that mounts easily by pushing through a 10mm hole and secured with a peel off tape strip.
- Small flush sensor mounting.
- Accurate direct air measurement.
- Paintable with latex or oil base.

Key Application

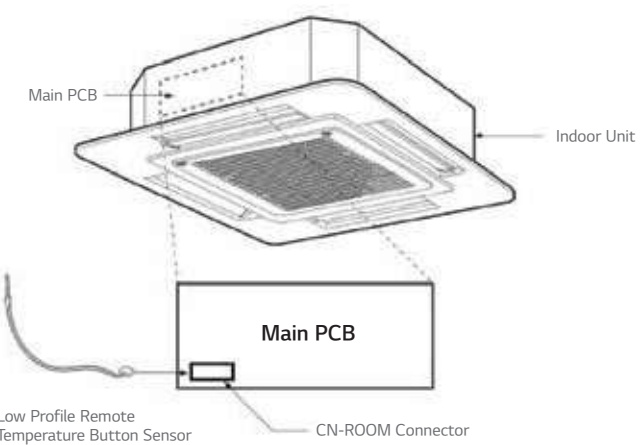


Models Applied

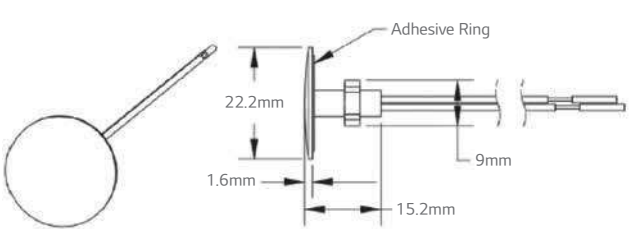
- LG indoor units excluding Wall-Mounted Type



Installation Scene

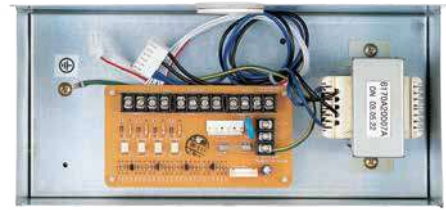


Drawing



ZONE CONTROLLER

Controls air conditioning in up to 4 zones by external thermostat.



ABZCA

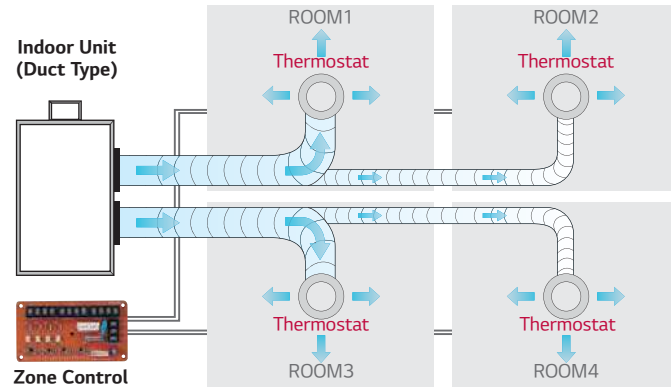
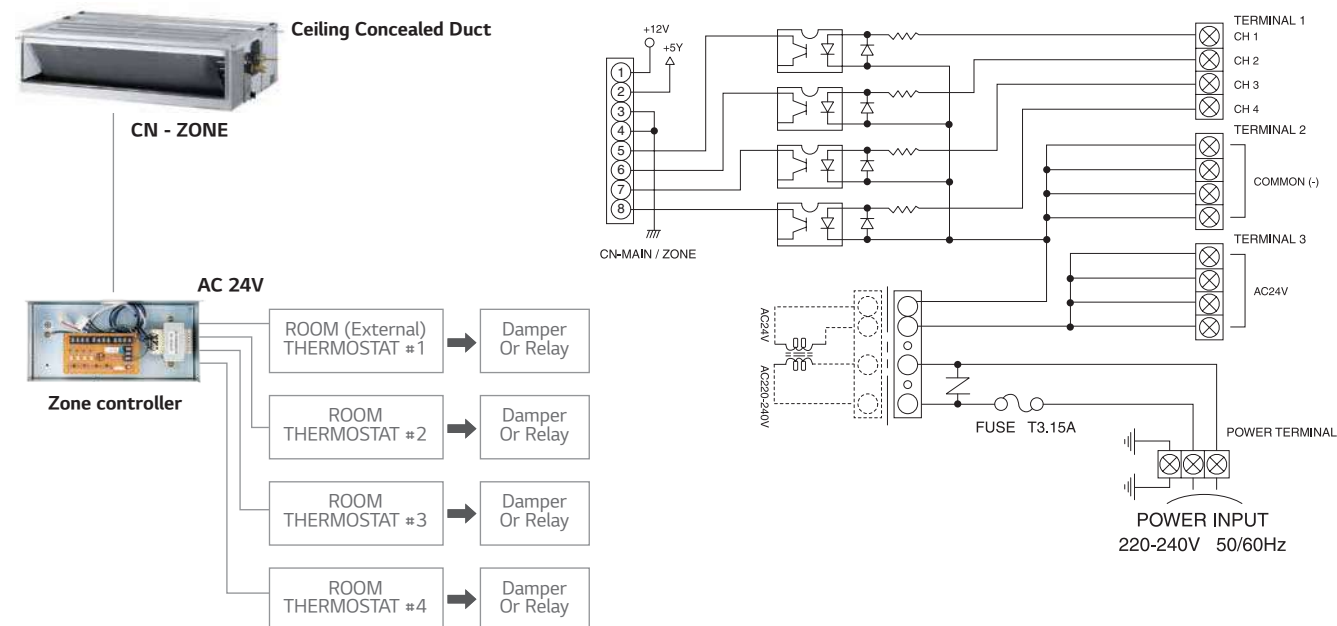
Features & Benefits

- Controls different zones (up to 4 zones) by external thermostat (AC 24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

Models Applied

- Ceiling Concealed Duct (Refer to Product Data Book for applicable models)

Wiring Diagram



IO MODULE

Interface module between system air conditioner's outdoor unit and external device.



PVDSMN000

Features

Function

- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status
- Output error status

Description

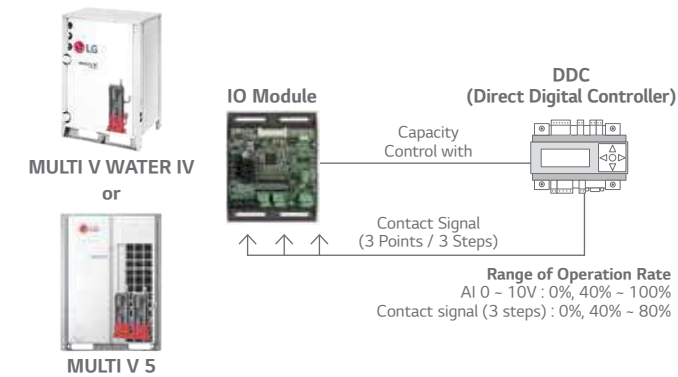
- IO Module is communication interface module for connection between MULTI V 5 and external IO (Input / Output Module) devices.

Note : IO Module is not compatible for MULTI V III

Key Application

Demand Control

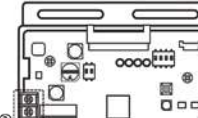
Provides variable setting for demand control according to input method to reduce power consumption. This function supports 2 types of input signal : AI (0 ~ 10V, 10 Step) and contact signal (3 Step).

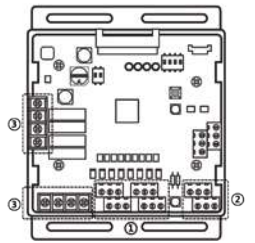


Models Applied

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

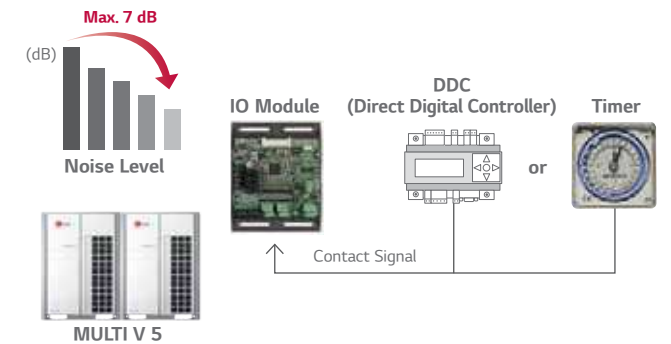
Part Description

- 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
- 



Low Noise Operation

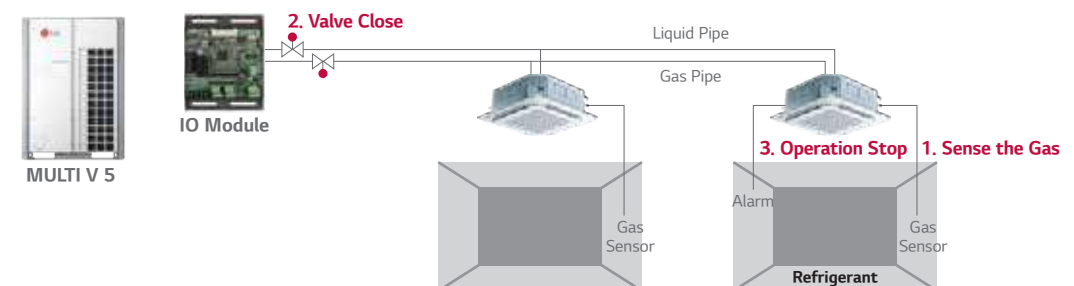
To reduce noise level, control outdoor unit's fan speed by dry contact input.



※ 8 HP (22.4kW) model, Sound power level can be changed by outdoor unit operation status and low noise operation input signal.

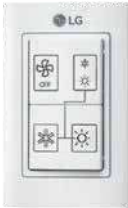
Refrigerant Leakage detection with Pump-down

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



COOL / HEAT SELECTOR

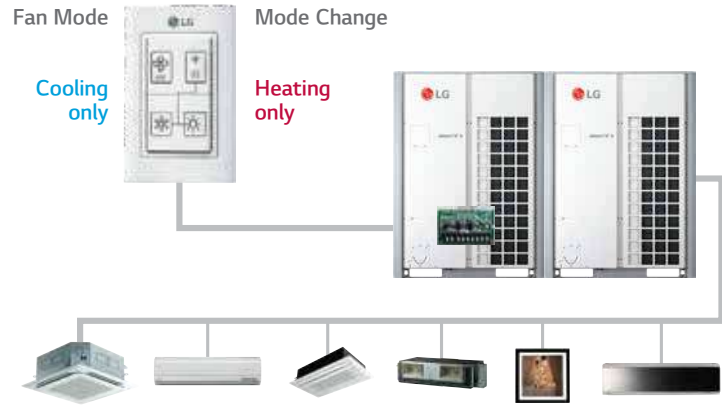
Cooling only, heating only, and fan mode can be selected.



PRDSBM

Features

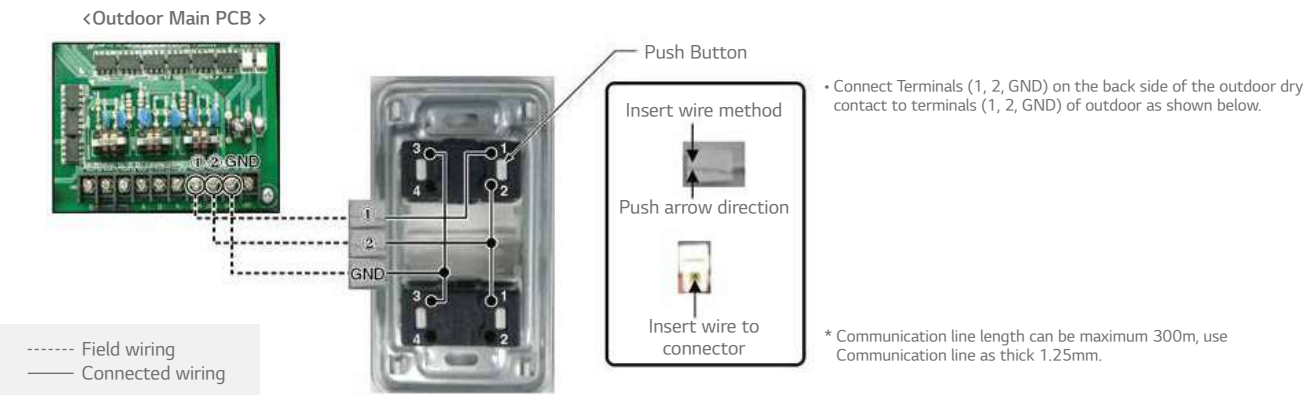
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

- MULTI V 5
 - MULTI V IV
 - MULTI V WATER S
- MULTI V WATER II
 - MULTI V S
 - MUL TI V PLUS II, MULTI V PLUS
- MULTI V WATER IV

Wiring Diagram



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

NEW CONTROL KIT



PAHCMM000

EEV KIT



PRLK048A0
PRLK096A0

NEW CONTROLLER MODULE



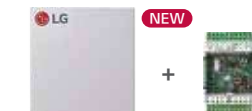
PAHCMM000



PAHCMC000



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
Controller Module	PAHCMM000	162	90	61	DC 12V	IP20	Main Controller module
	PAHCMC000	108	90	61	DC 12V	IP20	Communication Controller module
Control Kit	PAHCNM000	500	500	210	1Ø, 220~240 V, 50/60 Hz		Various AHU control functions with multiple DX coils (Maximum connectable ODU is 3 units)

Expansion Application Kit

Type	Model	Dimensions (mm)			Pipe Diameter (mm)	Capacity Index Range
		W	H	D	Liquid	
EEV Kit	PRLK048A0	217	404	83	12.7	3.6 ~ 28 kW
	PRLK096A0	217	404	83	12.7	28.1 ~ 56 kW
	PRLK396A0	349.5	345.5	180	19.05	56.1 ~ 112 kW
	PRLK594A0	409.5	345.5	180	19.05	112.1 ~ 168 kW

AHU KITS

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 Kit¹⁾
: Max. 168 kW EEV Kit¹⁾
- 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.

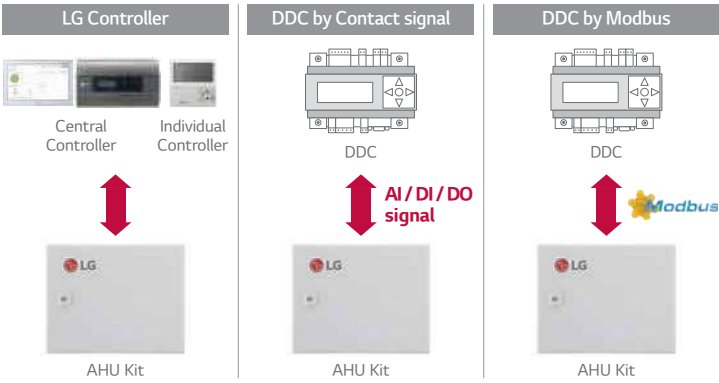


DIVERSE OPTIONS FOR CONTROL

AHU communication kit can be connected to various control systems such as LG individual / central controller and DDC¹⁾. 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

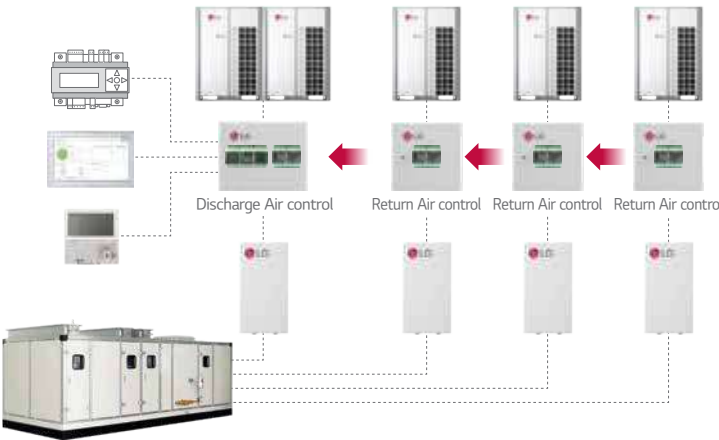
1) DDC : Direct Digital Controller



EXPANDABLE SYSTEM DESIGN

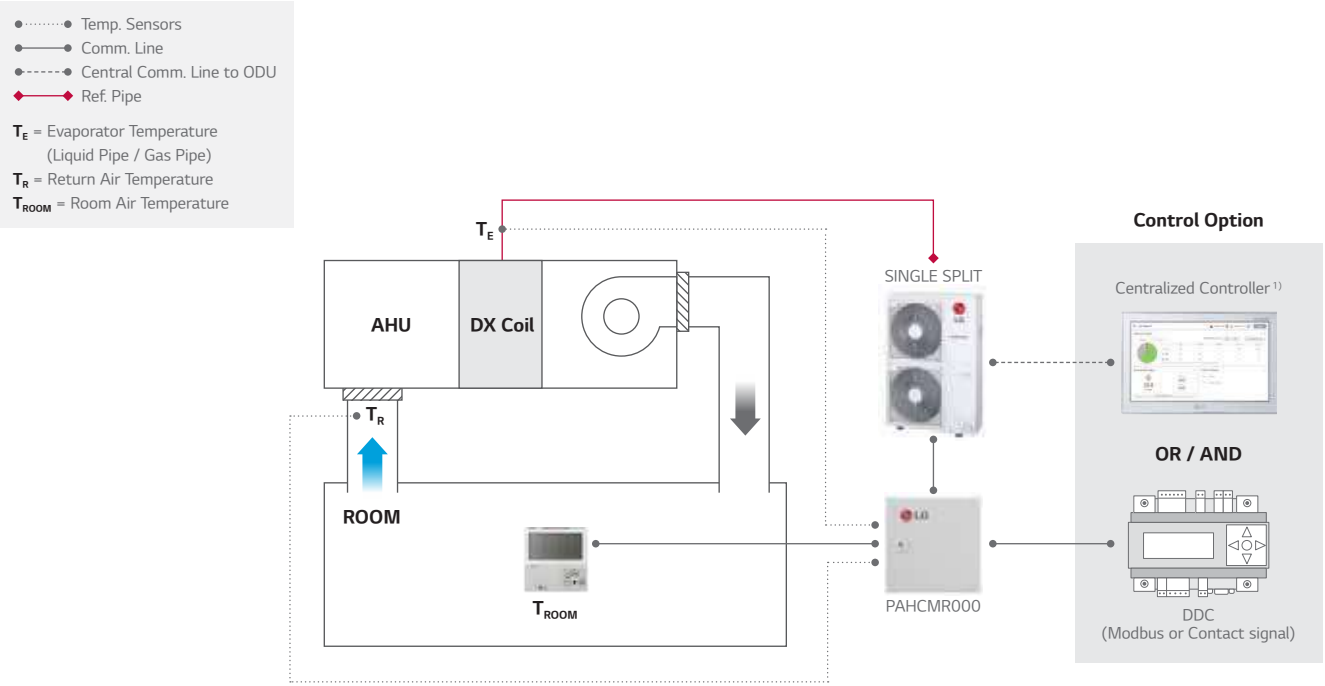
LG AHU system can be a suitable solution for various sites due to its application flexibility and wide range of line up with large capacity models. According to the required capacity, a single or multiple module combination is possible due to the AHU communication kit's modular design.

- Multiple module combination for large capacity AHU

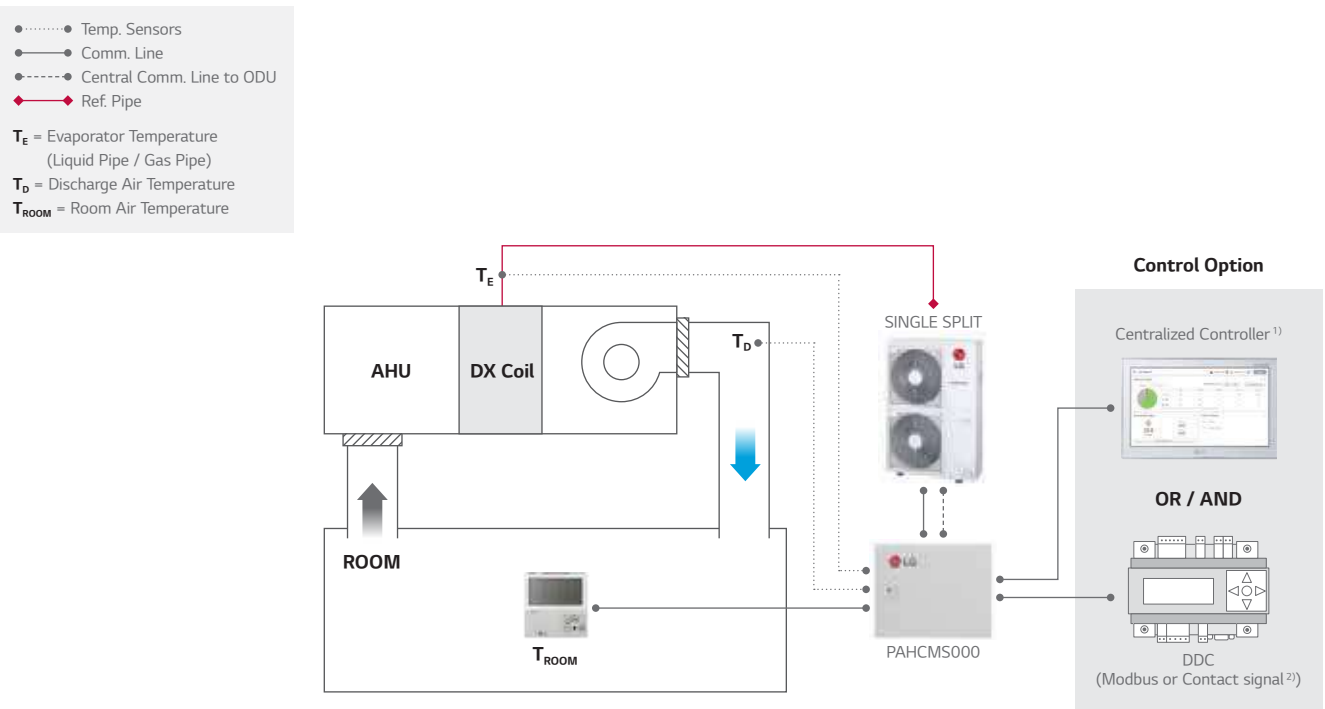


Single Split Application (Communication Kit & Controller Module)

Single Split + Return / Room Air Temperature Control



Single Split + Discharge Air Temperature Control

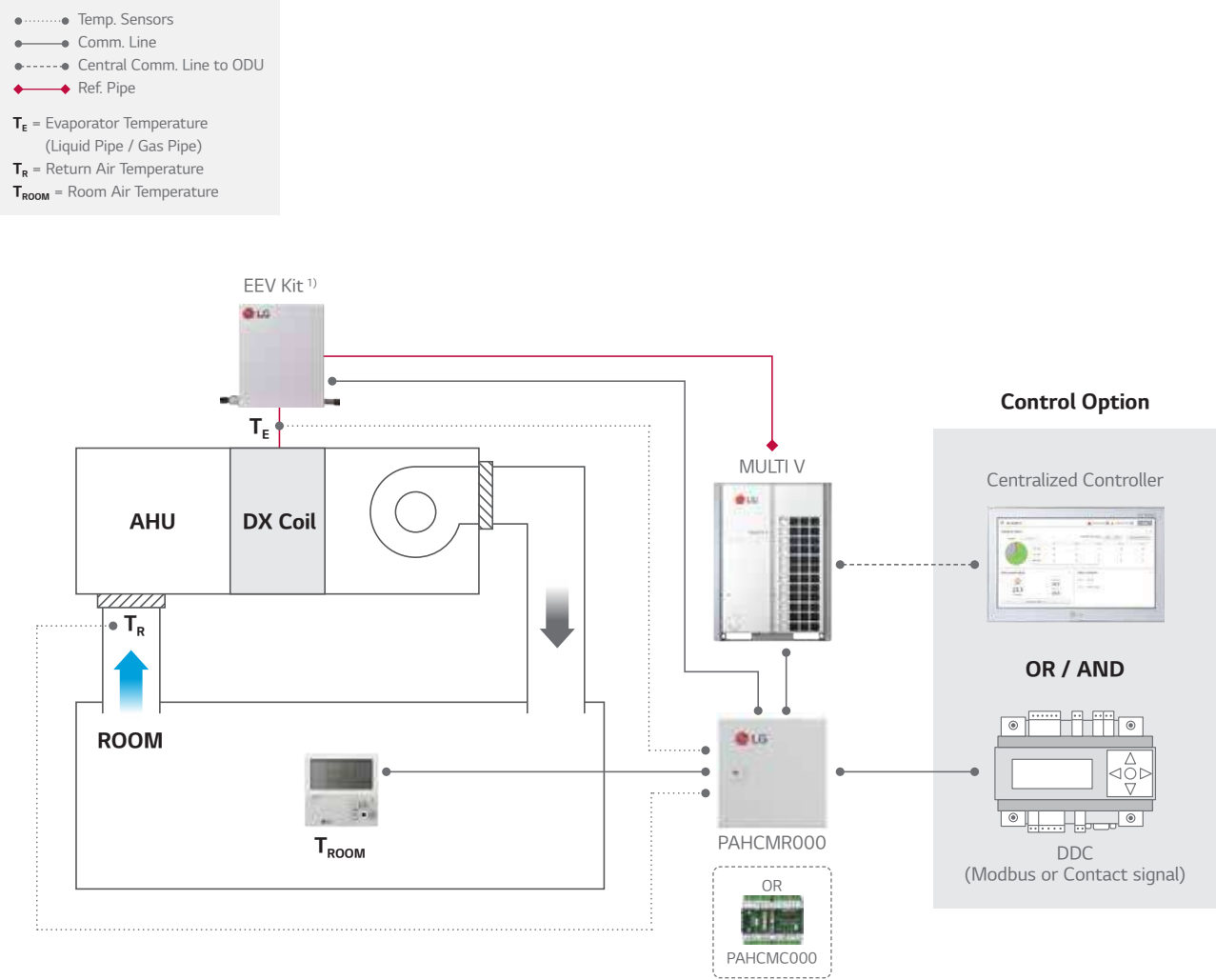


1) PI485 (PMNFP14A1) is required for centralized controller.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
Note : For more detail, please refer to the PDB.

AHU KITS

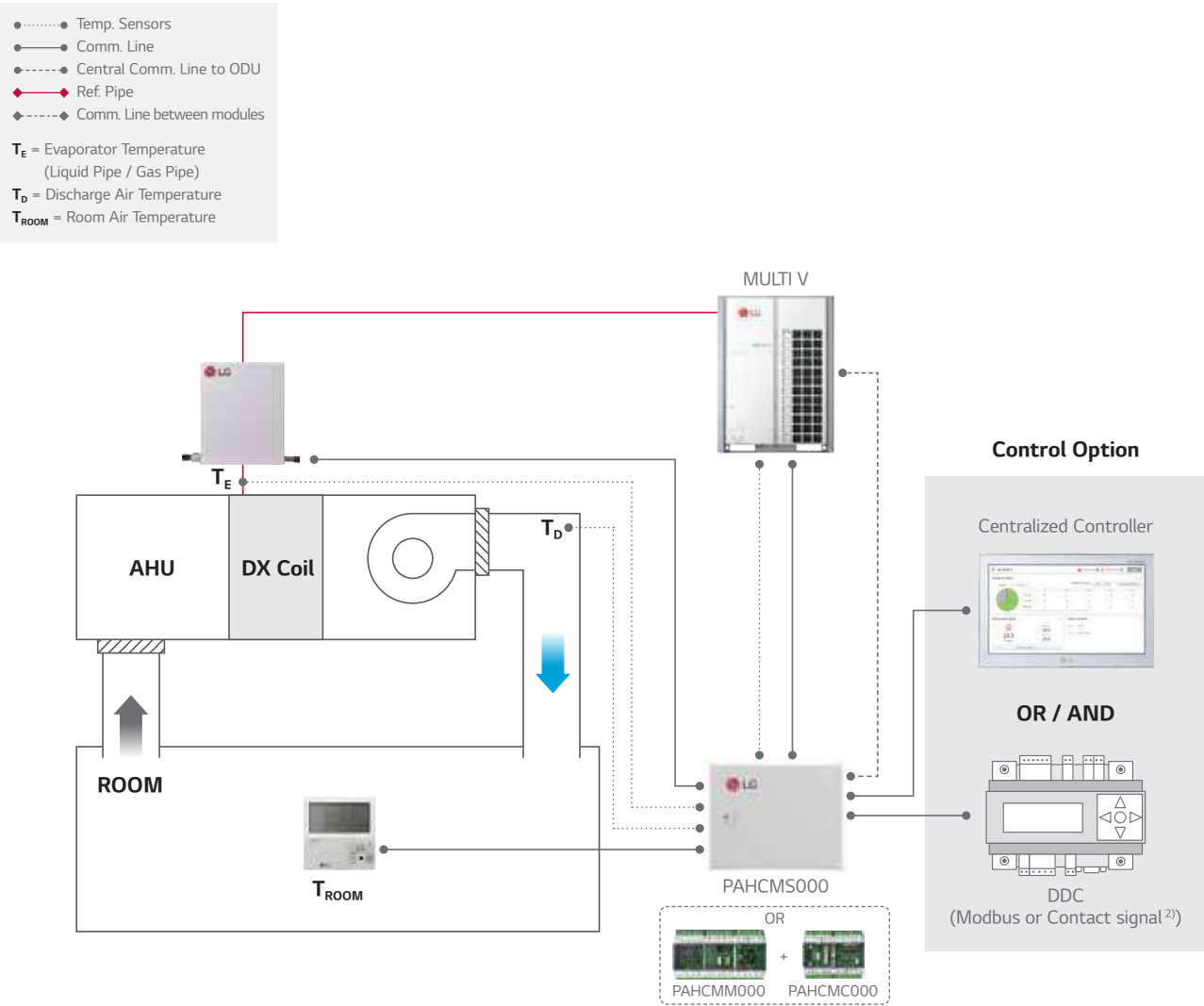
MULTI V Application (Communication Kit & Controller Module)

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



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

MULTI V + EEV Kit + Discharge Air Temperature Control



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

AHU KITS

Communication Kit Function

Communication with DDC via Contact Signal

Function List	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	Type	Note
Operation On / Off	On / Off	On / Off	Digital Input (Non Voltage)	-
Operation Mode	Cooling / Heating	Cooling / Heating	Digital Input (Non Voltage)	Available operation mode can vary depending on the settings of Communication Kit
Return (Room) Air Temperature ²⁾	16 ~ 30 °C	-	Analog Input (DC 0 ~ 10 V / 20mA)	-
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	-	40 ~ 100%	Analog Input (DC 0 ~ 10 V / 20mA)	-
Emergency Stop	-	Stop / Normal	Digital Input (Non Voltage)	-
Operation	On / Off	On / Off	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
Operation Mode	-	-		It needs to be checked through control signal
Fan Speed	High / Middle / Low	High / Middle / Low	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'On' (Fan Mode) In this case, 'On/Off, defrost, error Status' cannot monitored by DO ports
Defrost Operation	Defrost / Normal	Defrost / Normal	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
Error Alarm	Error / Normal	Error / Normal	Digital Output, Relay C contact (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
Compressor On / Off	-	On / Off	Digital Output, (Max : DC 30 V / 1 A, AC 250V / 1 A)	-

1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
2) The range of temp. is differ depending on the type of the controller.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
Note : For more detail information, please refer to the product data book.

Communication with DDC via Modbus protocol

Function List	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 +PAHCMC000)	Note
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⁾	-	12 ~ 50 °C	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
Fan Speed ³⁾	High / Middle / Low	-	
Forced Thermal On/Off	-	-	
ODU Capacity Control ²⁾	-	40 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
Emergency Stop	-	-	
Operation	On / Off	On / Off	
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
Return (Room) Air Temperature	○	-	Corresponding air temperature sensor connected to AHU Comm. Kit is required
Discharge Air Temperature	-	○	
Fan Speed	High / Middle / Low	High / Middle / Low	
Defrost Operation	Defrost/Normal	Defrost/Normal	
Error Alarm	Error / Normal, Error code	Error / Normal, Error code	
Compressor On / Off	On / Off	On / Off	

※ ○ : Applied, - : Not Applied
1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
2) In case of PAHCMS000, control type between “Discharge Air Temperature” and “ODU Capacity Control” is selectable.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
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 (PAHCMC000)	PAHCMS000 (PAHCMM000 +PAHCMC000)	Note
Operation On/Off	On / Off	On / Off	-
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	Available operation mode can vary depending on the settings of Communication Kit
Return (Room) Air Temperature ²⁾	16 ~ 30 °C	-	-
Discharge Air Temperature ²⁾	-	12 ~ 50 °C	Standard II : 16 ~ 30 °C Standard III : 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)
Operation	On / Off	On / Off	-
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	-
Return (Room) Air Temperature	○	○	-
Discharge Air Temperature		○	-
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.
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 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PACM5A000	PLNWkB000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○	○
PAHCMS000	-	○	○	-	-	○	○	○	-	-

※ ○ : Applied, - : Not Applied
1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
Note : 1. Dry contact for indoor unit (PDRYCB000 / 400 / 300 / 500) is not applied.
2. For more details, please refer to the product data book.

HOTEL

Hotel Control Solution



Guest Room

Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

Dry contact

Dry contact

Dry contact For thermostat

Refrigerant Leak detector

Lobby

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

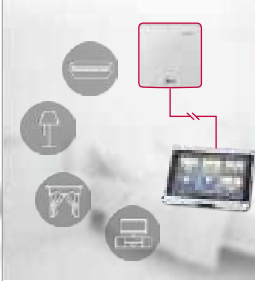
AC Smart 5 (Schedule)

Public Areas

Centralized management of the public areas

AC Smart 5 (Schedule)

Design Proposal

Guest Room				Lobby / Public Areas	
The air conditioner automatically turns off when guests leave	Integrated control of air conditioner with the hotel room controller	Control with existing hotel thermostat	Guest safety is the first priority	Air conditioner control in conjunction with check-in or check out	
					
PDRYCB400 2 contact point	PDRYCB500 Modbus RTU (9,600bps)	PDRYCB300 NEW PDRYCB320 8 contact point	PRLDNVSO Refrigerant leakage detector • 6,000ppm	PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	
Input • Operation On / Off	Function • Operation • Indoor temperature • Error alarm • Set run mode • Set temperature • Set fan speed	Input • Universal Input • Operation On / Off • Thermo On / Off • Operation mode (Fan / Heat / Cool) • Fan speed (Low / Middle / High)	 PREMTB100 Wired remote controller • 4.3 inch color LCD • Touch button	 PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	
Output • Operation On / Off status • Error alarm		Output • Operation On / Off status • Error alarm			

SHOPPING MALL

Shopping Mall Control Solution



Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alert

PDI

Central controller (Operation trend)

Maintenance Office

Reduces energy by checking operational trends

Central controller (Operation trend)

Atrium

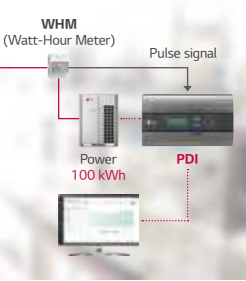
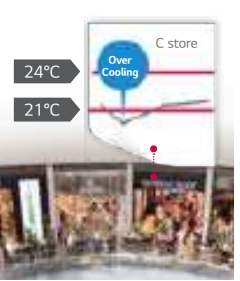
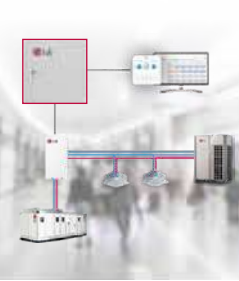
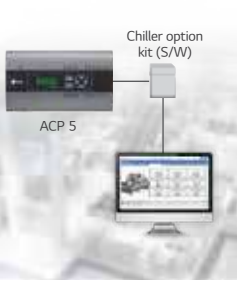
Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

Comm. Kit

Central controller (Operation trend) + Chiller option kit

Design Proposal

Retail		Maintenance Office	Atrium	
Proportionally distribute and manage power consumption by the tenant	Fast problem detection and alarms	Reduces energy by checking operational trends	Integrated management of AHU applied to large spaces	Chiller and VRF integrated control
				
PPWRDB000 PDI Standard (2 port) • Max. 128 IDU	PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	PAHMR000 AHU Comm. Kit • Return air	PAHMR000 AHU Comm. Kit	PCHLLN000 Chiller option kit
 PQNUD1S40 PDI Premium (8 port) • Max. 128 IDU	 PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	 PAHMS000 AHU Comm. Kit • Discharge air	 PACP5A000 ACP 5	 PACS5A000 AC Smart 5

HOSPITAL

Hospital Control Solution



Hospital Ward

Proper airflow management for patients

Wired remote controller

Monitor the comfort level for each hospital ward

Central controller (Comfort level)

Control fan speed and air volume

Dry contact

Service Zone

Energy savings based on flexible scheduling

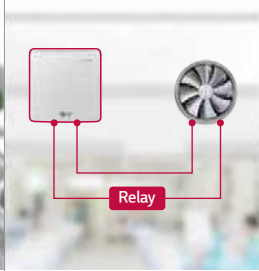
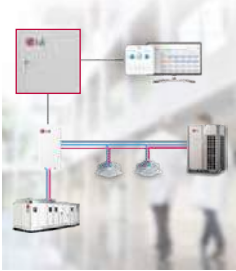
Central controller (Schedule)

Lobby

Centralized management of AHU for large spaces

Comm. Kit

Design Proposal

Hospital Ward			Service Zone	Lobby
Proper airflow management for patients	Monitor the comfort level for each hospital ward	External device interlock control	Energy savings based on flexible scheduling	Centralized management of AHU for large space
				
PTVSMMA0 Human detection sensor	PACS5A000 AC Smart 5	PDRYCB400 2 contact point	PACS5A000 AC Smart 5	PAHCMR000 AHU Comm. Kit
	• BMS Integration (BACnet IP, Modbus TCP)	Input • Operation On / Off	• BMS Integration (BACnet IP, Modbus TCP)	• Return air
		Output • Operation On / Off status • Error alarm		
PREMTB100 Wired remote controller	PACP5A000 ACP 5		PACP5A000 ACP 5	PAHCMS000 AHU Comm. Kit
• 4.3 inch color LCD • Touch button	• BMS Integration (BACnet IP, Modbus TCP)		• BMS Integration (BACnet IP, Modbus TCP)	• Discharge air

ACADEMIC INSTITUTION

Academic Institution Control Solution



Class Room

Automatically save energy in the absence of students

Wired remote controller

Central controls prevent students from arbitrary control

Central controller (Lock)

Lecture Hall

Schedule management according to academic plan

Central controller (Schedule)

Maintenance Office

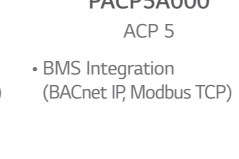
Integrated management of distributed buildings

Central controller (Multiple management)

Centralized management with multiple interfaces

Central controller (HTML5)

Design Proposal

Class Room	Lecture Hall	Maintenance Office
Automatically save energy in the absence of students	Schedule management according to academic plan	Integrated management of distributed buildings
		
PTVSMMA0 Human detection sensor	PACS5A000 AC Smart 5	PACM5A000 AC Manager 5
	• BMS Integration (BACnet IP, Modbus TCP)	• BMS Integration (BACnet IP, Modbus TCP)
		
PREMTB100 Wired remote controller	PACP5A000 ACP 5	
• 4.3 inch color LCD • Touch button	• BMS Integration (BACnet IP, Modbus TCP)	

OFFICE

Office Control Solution



Maintenance Office

Energy savings and management throughout the building

Central controller (Energy Navi)

Integrated management of HVAC with BMS system

Central controller (BMS Gateway)

Reduce costs by replacing BMS

Central controller (Operation trend) + ACS IO Module

Office Room

Reasonable power distribution to tenants

PDI

Server Room

24-hour backup management

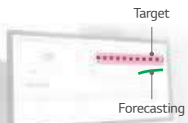
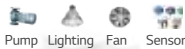
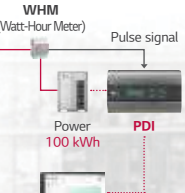
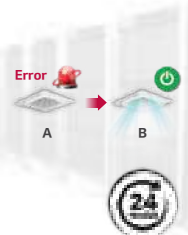
Central controller (Backup operation)

Meeting Room

Energy savings based on occupancy detection

Wired remote controller

Design Proposal

Maintenance Office	Office Room	Server Room	Meeting Room		
Energy savings and management throughout the building 	Integrated management of HVAC with BMS system BMS Protocol  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	 PEXPMB000 ACS IO Module	 PPWRDB000 PDI Standard (2 port) Max. 128 IDU	 PACS5A000 AC Smart 5 BMS Integration (BACnet IP, Modbus TCP)	 PTVSM40 Human detection sensor
 PACP5A000 ACP 5 BMS Integration (BACnet IP, Modbus TCP)	 PMBUSB00A Modbus RTU gateway	 PEXPM300 PEXPM200 PEXPM100 ACU IO Module	 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

Residential Control Solution



Home

Anytime, anywhere air conditioner control and access

Wi-Fi Modem

Integrate systems for smart connectivity throughout

Modbus RTU

Bed Room

Use a familiar residential thermostat

Dry contact For thermostat

Simple interlocking control by remote control

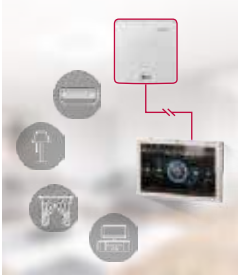
Wired remote controller

Apartment / Residence

Stable system operation

Independent power module

Design Proposal

Home	Bed Room	Apartment		
Control your home air conditioner anytime, anywhere  PWFMDD200 LG Wi-Fi modem Function • On / Off • Fan speed • Operation mode • Vane control • Reservation (Sleep, Weekly On / Off) • Error check	Build a Smart house  PDRYCB500 Modbus RTU (9,600bps) Function • Operation • Indoor temperature • Error alarm • Set operation mode • Set temperature • Set fan speed	Use a familiar residential thermostat  PDRYCB300 NEW 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	Simple interlocking control by remote control  PREMTB100 Wired remote controller • 4.3 inch color LCD • Touch button	Stable system operation when indoor unit power is lost  PRIP0 Independent power module • EEV full close function

ACCESSORIES

MECHANICAL ACCESSORIES

PIPING ACCESSORIES



CASSETTE PANEL

The Independent Vane Operation makes desired and comfortable air flow.

Model Name & Applied Products

4 Way Cassette

(Mini) PT-QCHW0
(Standard) PT-MCGW0
(Air purification) PT-MPGW0

2 Way Cassette

(Standard) PT-USC

1 Way Cassette (1,100 x 34 x 500)

(Standard) PT-UAHW0
(Air purification) PT-UPHG0

1 Way Cassette (1,420 x 34 x 500)

(Standard) PT-TAHW0
(Air purification) PT-TPHG0

* Air Purifying Kit
(1 Way) PTAHTP0
(4 Way) PTAHMPO

* Human detection Sensor
(4 Way) PTVSMA0



PT-QCHW0



PT-MCGW0



PT-MPGW0



PT-USC



PT-UAHW0



PT-UPHG0



PT-TAHW0



PT-TPHG0

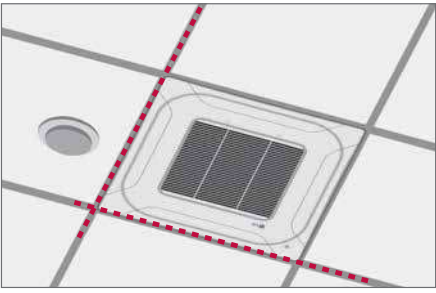
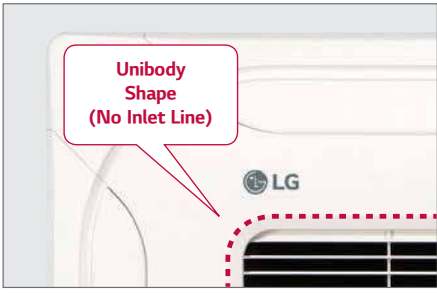
Key Features

- Independent vane operation uses separate motors, making it Possible to control all 1, 2, and 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

* Air purifying panel can be used with air purifying kit together for 1 Way, 4 Way panel.
* Human detecting sensor can be used with human detecting sensor for 4 Way panel.

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.



Specification

	Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied Model Capacity (kW)*				
						W	H	D	Single Split		MULTI Split		MULTI V
									R32	R410A	R32	R410A	
4 Way	PT-QCHW0	Grill	Morning Fog (RAL 9001)	-	3.0	620	35	620	2.5 ~ 5.0	2.5 ~ 5.0	1.5 ~ 5.3	1.5 ~ 5.3	1.6 ~ 6.2
	PT-MCHW0	Grill	Morning Fog (RAL 9001)	-	6.3	950	35	950	6.8 ~ 14.6	6.8 ~ 14.6	6.7	-	7.1 ~ 15.8
	PT-UQC	Grill	Morning Fog (RAL 9001)	-	3.0	700	22	700	2.5 ~ 5.0	2.5 ~ 5.0	-	1.5 ~ 5.3	1.6 ~ 6.2
	PT-UQC	Grill	Morning Fog (RAL 9001)	-	5.6	950	25	950	6.8 ~ 14.6	6.8 ~ 14.6	-	6.7	7.1 ~ 15.8
2 Way	PT-USC	Grill	Morning Fog (RAL 9001)	-	4.7	1,100	28	690	-	-	-	-	2.8 ~ 7.1
	PT-UUC	Grill	Noble White (RAL 9003)	○	4.6	1,100	34	500	-	-	-	-	2.2 ~ 3.6
	PT-UUC1	Grill	Noble White (RAL 9003)	-	4.4	1,100	34	500	-	-	2.6 ~ 3.5	2.6 ~ 3.5	-
1 Way	PT-UTC	Grill	Noble White (RAL 9003)	○	5.5	1,420	34	500	-	-	-	-	5.6 ~ 7.1
	PT-UUD	Panel	Noble White (RAL 9003)	○	4.6	1,100	34	500	-	-	-	-	2.2 ~ 3.6
	PT-UTD	Panel	Noble White (RAL 9003)	○	5.5	1,420	34	500	-	-	-	-	5.6 ~ 7.1

* Based on cooling capacity ※ ○ : Applied, - : Not applied

DUAL VANE CASSETTE PANEL



Model Name

PT-AAGW0
PT-AEGW0
PT-AFGW0

Available from 'Oct 2020

Key Features

Model	Function					
	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Elevating Grille	Human detection sensor
PT-AAGW0	○	Optional	X	X	X	Optional
PT-AEGW0	○	Optional	X	X	○	Optional
PT-AFGW0	○	Optional	○	Optional	X	Optional

Specification

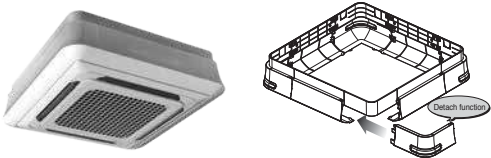
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AEGW0	Grid	White (RAL 9003)	-	8.5	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950

Air Purification Kit

Model	Image	Model name	Dielectric Dust collecting filter	Photocatalytic Deodorizing filter	HVPS
Air purification kit		PTAHMPO	○	○	○

CASSETTE COVER

Cover in case of exposed cassette installation.



Key Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Specification

Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCM	PT-UMC / PT-UMC1	TP / TN	5.9	8.8	1,157	1,157	268
		TM	5.9	8.8	1,157	1,157	310
PTDCQ	PT-UQC	TR	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

Model Name

PTDCM / PTDCQ

Applied Products

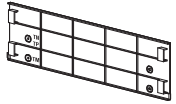
4 Way Cassette (for chassis TP, TN, TM, TQ, TR)

Included Parts

- Cover A, Cover B
- Cover C, Cover D
- Screws
- Installation Manual



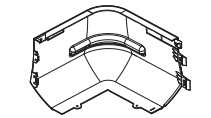
Cover A (4 units)



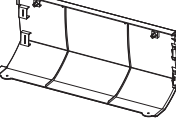
Cover B (4 units)



Screw (32 units)



Cover C (4 units)



Cover D (4 units)



Installation Manual

CO₂ SENSOR

CO₂ sensor in ventilation system.



Model Name
AHCS100H0

Applied Products

LZ-H025GBA4
LZ-H035GBA5 / LZ-H050GBA5
LZ-H080GBA5 / LZ-H100GBA5
LZ-H150GBA5 / LZ-H200GBA5

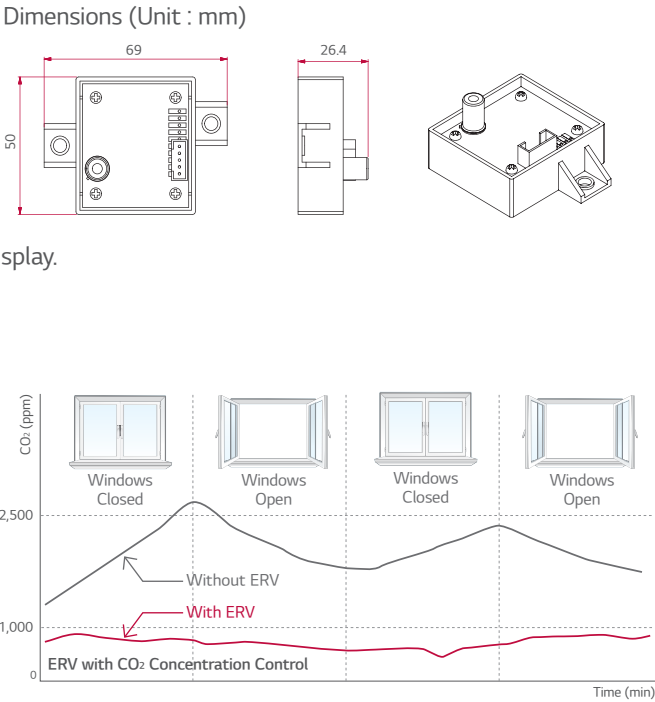
Applicable Products

LZ-H050GXN0 / LZ-H080GXN0
LZ-H100GXN0 / LZ-H050GXH0
LZ-H080GXH0 / LZ-H100GXH0

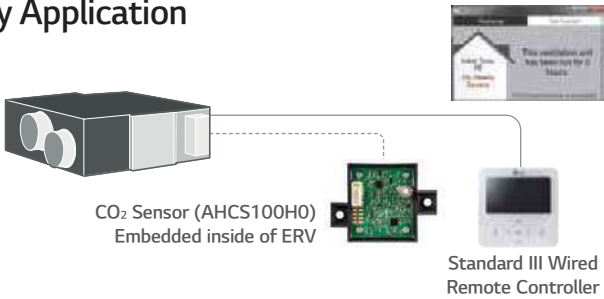
Key Features

- Specification
- Applied Model : ERV (Embedded), ERV DX (Option)
 - Supply voltage : DV12V ± 5%
 - Output : 0.6 ~ 4.4V (Linear output, 240 ~ 1,760 ppm CO₂)
 - Accuracy : ± 10% (2 days after installation)

- Description
- The product is especially designed to detect CO₂.
 - This model requires Standard III Wired Remote Controller for display.

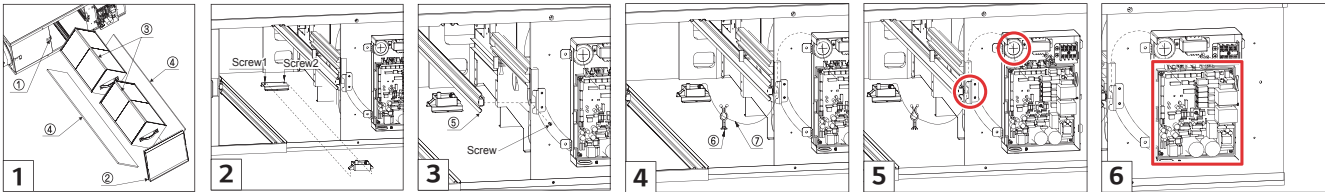


Key Application



How to Install

1. Remove a screw on the service cover. Pull the service cover fixing bracket(①), then remove the service cover(②). Remove two elements(③) and two air filters(④).
 2. Install the sensor with two screws.
 3. Remove a screw, then remove the right side of element rail(⑤).
 4. Press the holder(⑥) into the hole to fix the CO₂ sensor cable(⑦).
 5. Connect the wire terminal to the CN-CO₂ port of PCB.
- ※ Airflow can be controlled by concentration of CO₂, after setting automatic operation mode at remote controller.
- ※ Use the screwdriver whose total length is less than 250mm.



REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector ensures room safety.



Model Name
PRLDNVS0

Applied Products

MULTI V 5
MULTI V IV Heat Pump & Heat Recovery
MULTI V WATER IV

Key Features

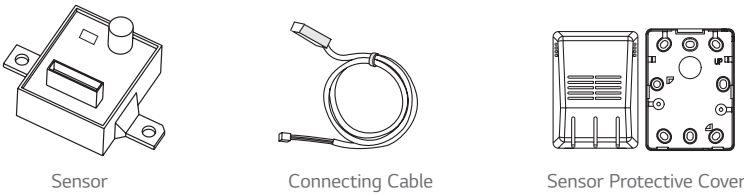
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is “on” when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is “off”.
- When the alarm of the refrigerant leak detector is switched on the user must ventilate the room until the alarm is disabled.
- The detector has to be installed inside the room and it should be installed 300 ~ 500mm above the floor.

Specification

Parts	Specification	
Sensor	Rated Voltage (V)	DC 5.0 ± 5%
	Dimensions (W x H x D, mm)	31 x 44 x 20
	Weight (g)	22
	Detectable Refrigerant	R410A
	Detected Concentration (ppm)	0 / 6,000 Alarm Off / On
	Operating Temperature Range (°C)	-10 ~ 50
	Preserved Temperature Range (°C)	-40 ~ 60
Connecting Cable	Average Power Consumption (mA)	35
	Cable Length (m)	10
	Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.6
Sensor Protective Cover	Dimension of Back Plate (W x H x D, mm)	80 x 110 x 6.5

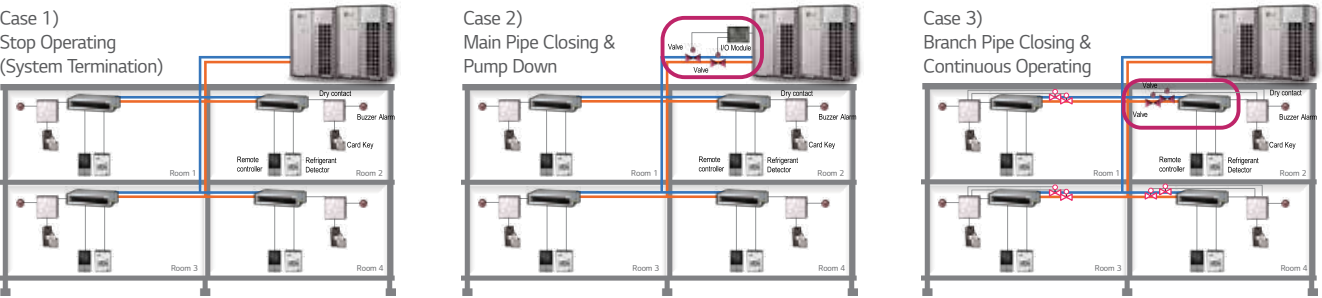
※ This function available for ARU****L**5 and 4 (MULTI V 5, MULTI V IV H/P, H/R model)

Included Parts



Key Application

Refrigerant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)



EEV KIT (FOR INDOOR UNIT)

MULTI V EEV KIT is specially designed to reduce noise and make comfort environment.



Key Features

- Decreasing noise level of MULTI V Indoor units and easy installation.

Model Name

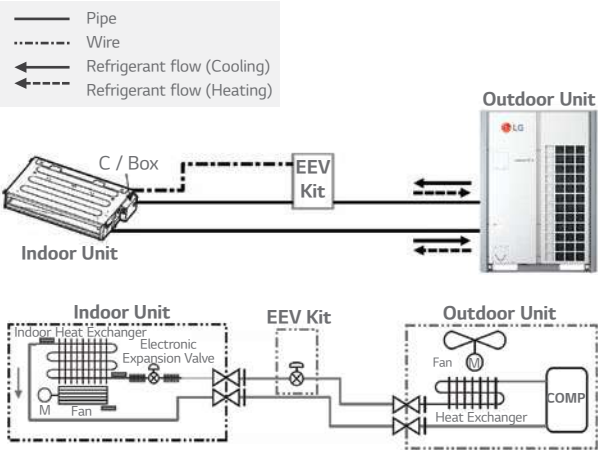
PRGK024A0

Applied Products

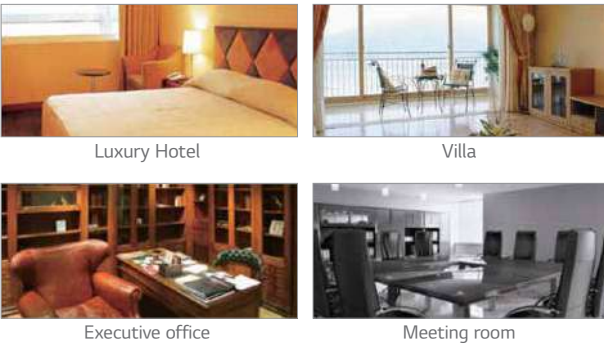
Indoor Unit	Model	Chassis	Applicable
Cassette	1 Way Cassette	TU	○
	2 Way Cassette	TT	N/A
		TS	○ (~5.6kW)
		TR	○
	4 Way Cassette	TQ	○ (~4.5kW)
		TP	N/A
		TN	N/A
Duct		TM	-
	High Sensible	BG	-
		BR	-
	High Static	B8	-
		B8	-
	Middle Static	M1	○ (~5.6kW)
		M2	-
Etc		M3	-
	Low Static	L1	○
		L2	-
		L3	-
	Floor Standing	CE	○
		CF	-
	Convertible	VE	○
Etc	Ceiling Suspended	V1	-
		V2	-
	Wall Mounted	SJ	○
		SK	○
		SV	-
	Art Cool	SF	○
	Console	QA	○
Etc	HYDRO KIT	K2	-
		K3	-

※ ○ : Applied, - : Not applied, N/A : Not Applicable

Key Application



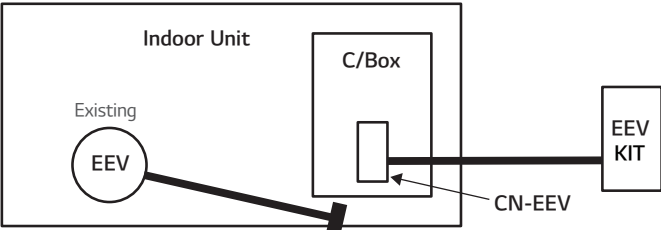
EEV Kit can be applied for the space which requires quiet environment and noise sensitive space.



Note : If you don't use EEV of same specification, Cooling (Heating) capacity could be decreased.

How to Install

- Open Indoor unit's control box cover.
- Open fully indoor unit's EEV through vacuum mode of ODU setting.
 - Detach the Indoor unit's EEV connector from PCB and then push the reset button of Outdoor unit's PCB.
 - After connecting indoor unit's EEV CONNECTOR, repeat the process ① & ②. Then, connect the EEV CONNECTOR of EEV KIT in PCB of indoor unit.
 - Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.
 - Assemble the control box cover.



IR RECEIVER

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



Model Name

PWLRVN000

Applied Products

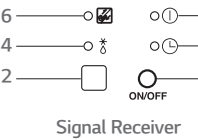
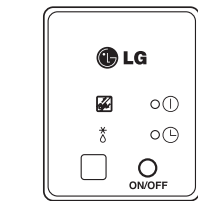
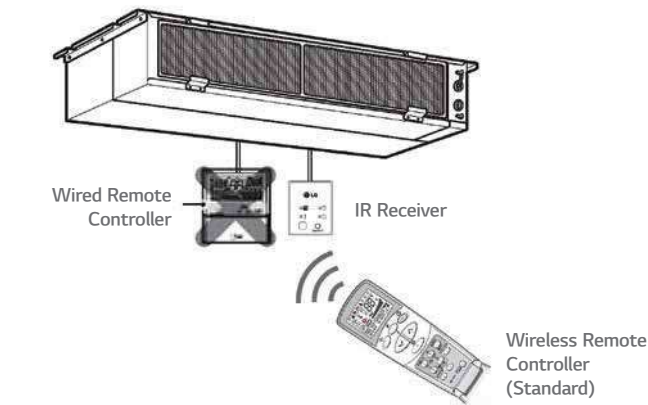
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Features

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

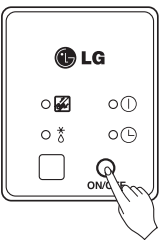
Key Application

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



Operation of Indication Lamps

- Emergency Operation button :**
Turns the indoor unit on or off when remote controller is not working.
- Signal Detector :**
Receives the signal from remote controller.
- Timer lamp (Green) :**
Lights up during the timer operation.
- 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.
- System On / Off lamp (Red) :**
Lights up during system controller operation.
- 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.

INDEPENDENT POWER MODULE

It closes EEV in indoor unit when power cut.



Model Name
PRIPO

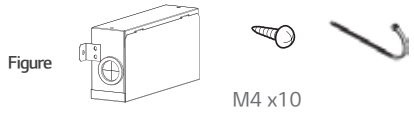
Applied Products
MULTI V Indoor Units

Key Features

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

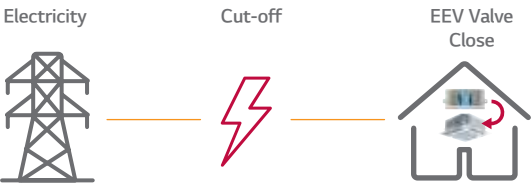
Included Parts

Model	PRIPO			(Others)
Item	Independent Power Kit	Screw	Clamp (Tie Wrap)	• Harness 1 (1m) • Harness 2 (1m) • Harness 3 (1m) • Installation Manual • Insulation (PE)
Q'ty	1	2	4	

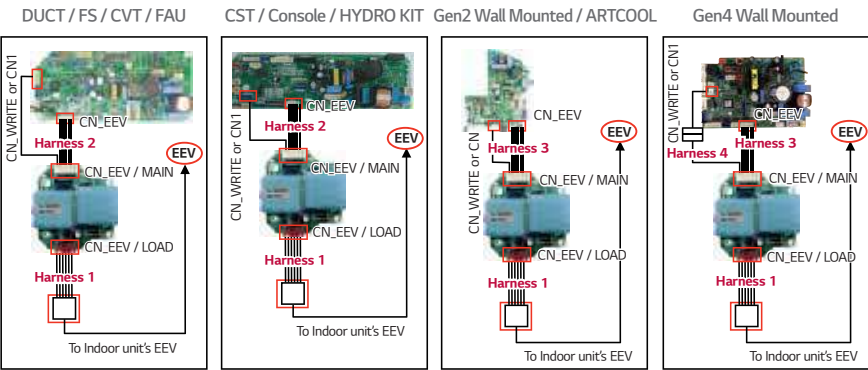


Key Application

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



How to Install



- 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

AUXILIARY HEATER RELAY KIT

Providing an efficient way to add auxiliary heat.



Model Name
PRARS1

Applied Products
Wall Mounted, Art Cool Mirror, Art Cool Gallery

Model Name
PRARH1

Applied Products

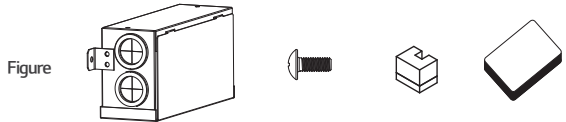
1, 2, 4 Way Ceiling Cassette, High Static Ducted, Low Static Ducted, Ceiling Suspended

Key Features

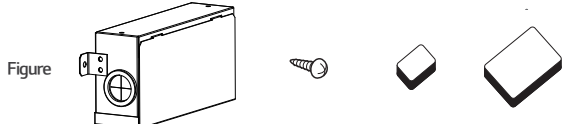
- Provides two stages of auxiliary heat for indoor unit.
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

Included Parts

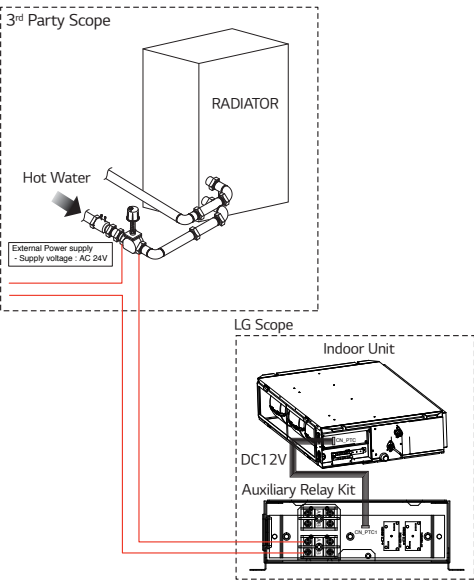
Model	PRARH1			
Item	Auxiliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1



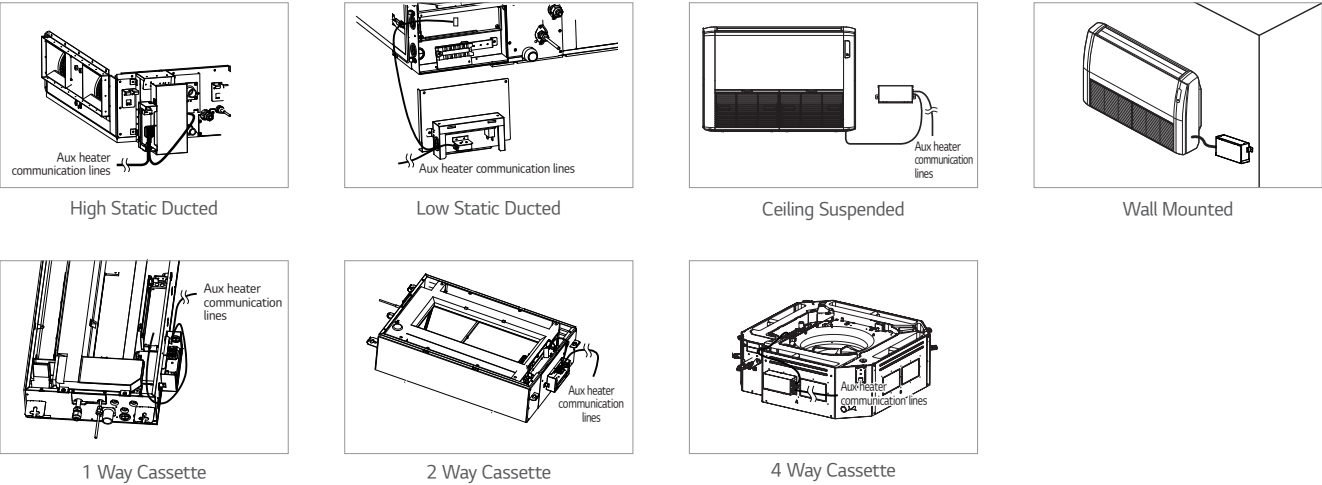
Model	PRARS1			
Item	Auxiliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1



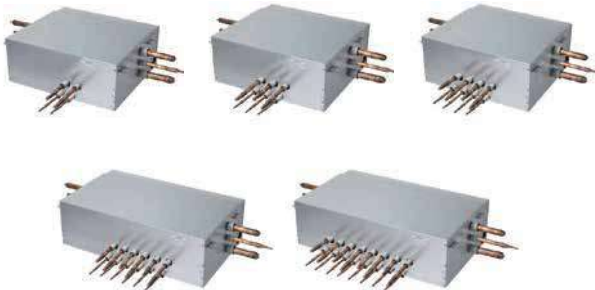
Key Application



How to Install



HEAT RECOVERY



Model Name

PRHR023 (2 Branch Unit)
PRHR033 (3 Branch Unit)
PRHR043 (4 Branch Unit)
PRHR063 (6 Branch Unit)
PRHR083 (8 Branch Unit)

Applied Products

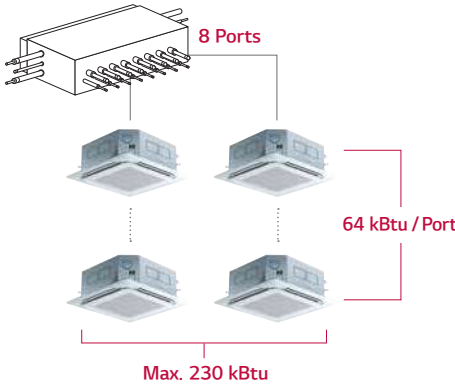
MULTI V 5
MULTI V IV
MULTI V WATER IV

Key Features

- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in HR unit makes the system efficiency maximum.

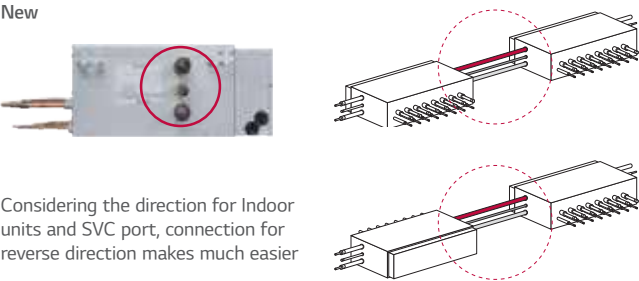
Connection Capacity

Maximum number of connectable indoor units :
64 IDUs / HR unit (in case of 8 ports model)

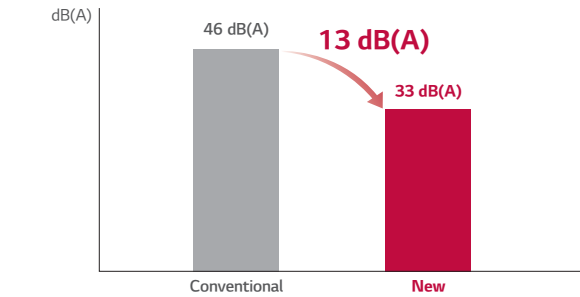


Flexible Connection

Series connection can be installed without pipes crossing.



Reduce Noise



Test Condition (ISO Standard)
- Temp. : (Cooling) 27°C DB / 19°C WB, 35°C DB / 24°C WB
(Heating) 20°C DB / 15°C WB, 7°C DB / 6°C WB
- Operating : cooling → heating switching operation

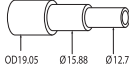
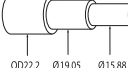
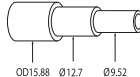
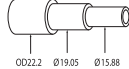
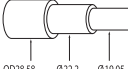
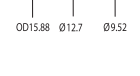
Included Parts

- HR unit (1 EA)
- Hanging bolts M10 or M8 (4EA)
- Nut M8 or M10 (8EA)
- Washers M10 (8EA)
- Reducers

Specification

Model			PRHR023	PRHR033	PRHR043	PRHR063	PRHR083	
Number of Branch		EA	2	3	4	6	8	
Maximum Connectable Capacity of Indoor Units (Per branch / unit)		kW	17.5 / 35	17.5 / 52.5	17.5 / 69.5	17.5 / 69.5	17.5 / 69.5	
Maximum Number of Connectable Indoor Units Per Branch		EA	8	8	8	8	8	
Nominal Input	Cooling	kW	0.040	0.040	0.040	0.076	0.076	
	Heating	kW	0.038	0.038	0.038	0.072	0.072	
Net. Weight		kg	18.5	20.3	22.0	28.3	31.8	
Dimensions (W x H x D)		mm	786 x 218 x 657	786 x 218 x 657	786 x 218 x 657	1,113 x 218 x 657	1,113 x 218 x 657	
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Power Supply		Ø, V, Hz	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	

Reducers for Indoor Unit and HR Unit

Model		Liquid		High Pressure	Low Pressure
Indoor Unit Reducer					
PRHR023					
HR Unit Reducer					
PRHR033 PRHR043 PRHR063 PRHR083					

Y BRANCH AND HEADER BRANCH

For refrigerant distribution of indoor units.



Key Features

- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Model Name

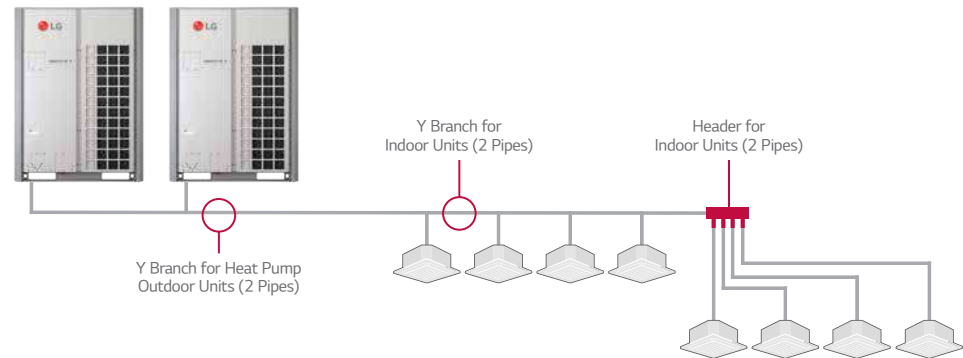
Refer to specifications

Applied Products

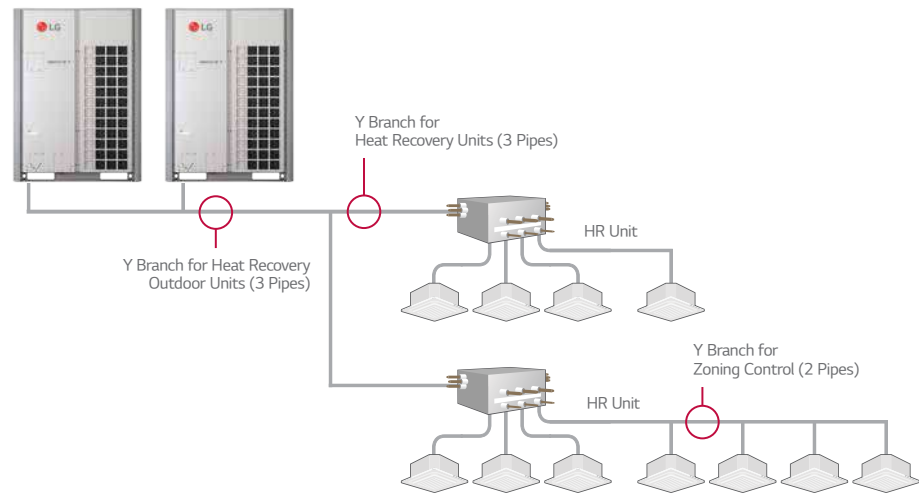
MULTI V S
MULTI V IV
MULTI V III, MULTI V PLUS II, MULTI V PLUS
MULTI V S
MULTI V WATER IV
MULTI V WATER II
MULTI V WATER S

Key Application

Heat Pump System



Heat Recovery System



Specification

Header Branch

R410A

(Unit : mm)		
Model	Gas Pipe	Liquid Pipe
ARBL054 (4 Branch)		
ARBL057 (7 Branch)		
ARBL104 (4 Branch)		
ARBL107 (7 Branch)		
ARBL1010 (10 Branch)		
ARBL2010 (10 Branch)		

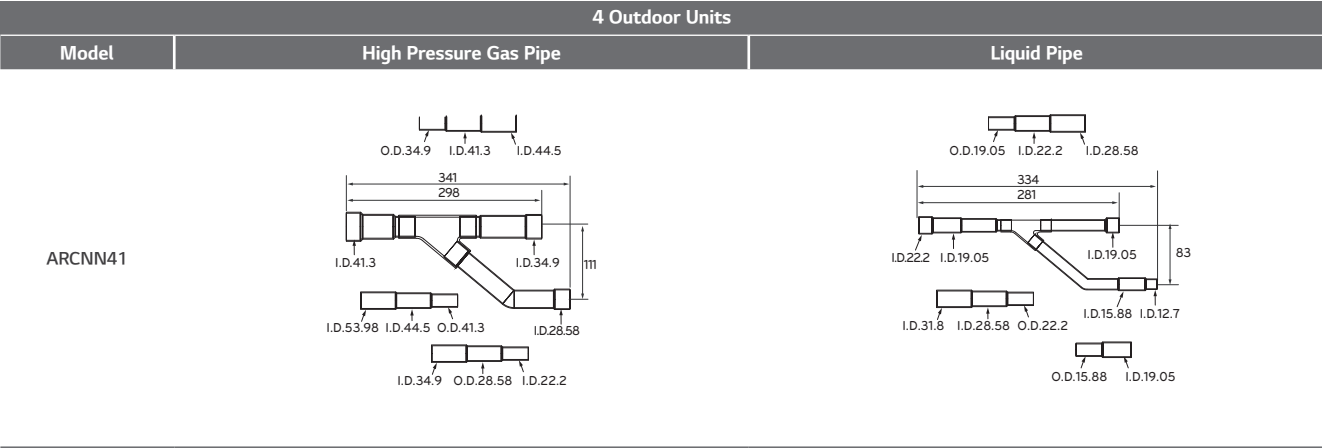
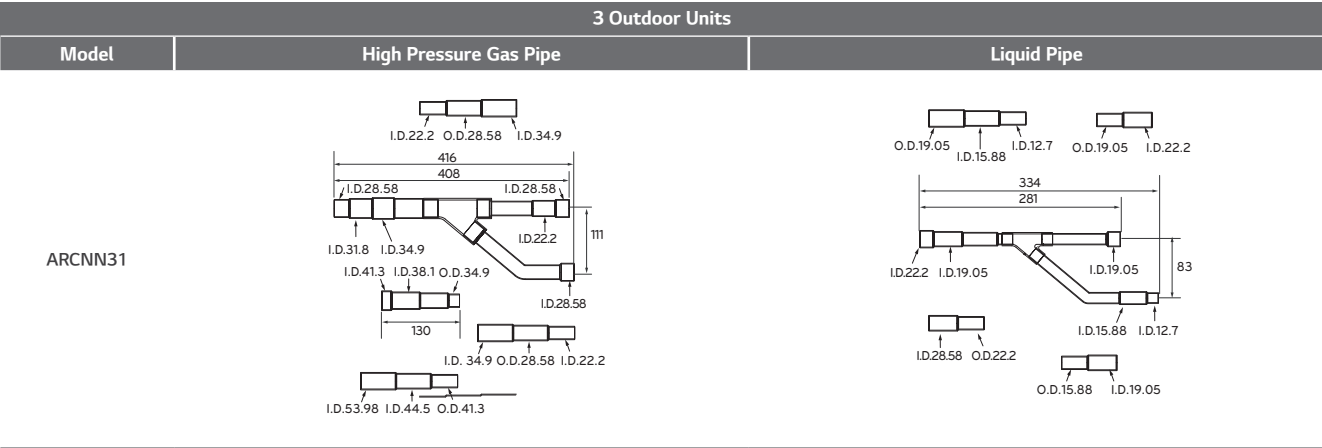
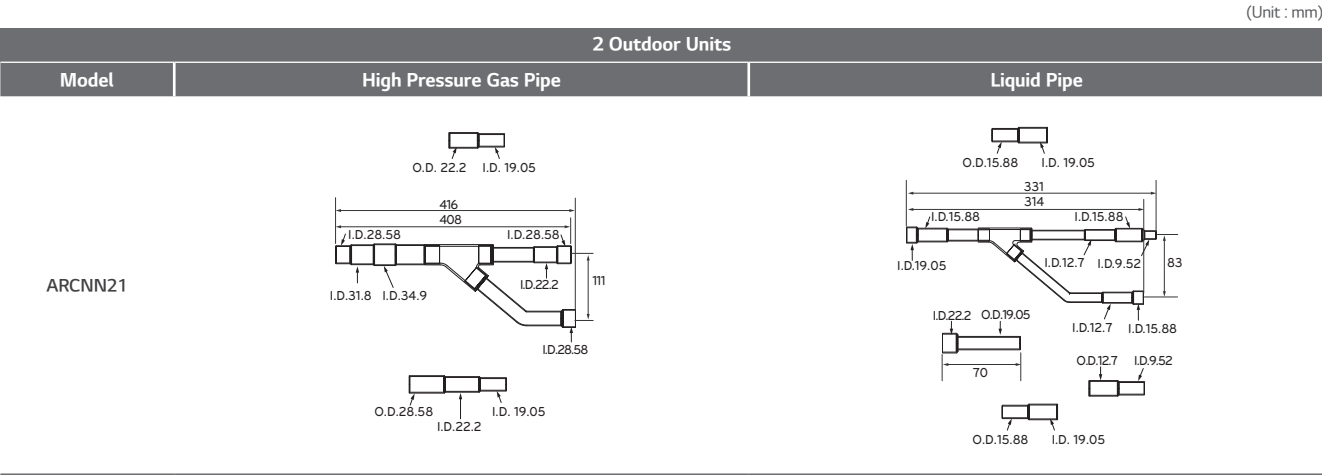
PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump

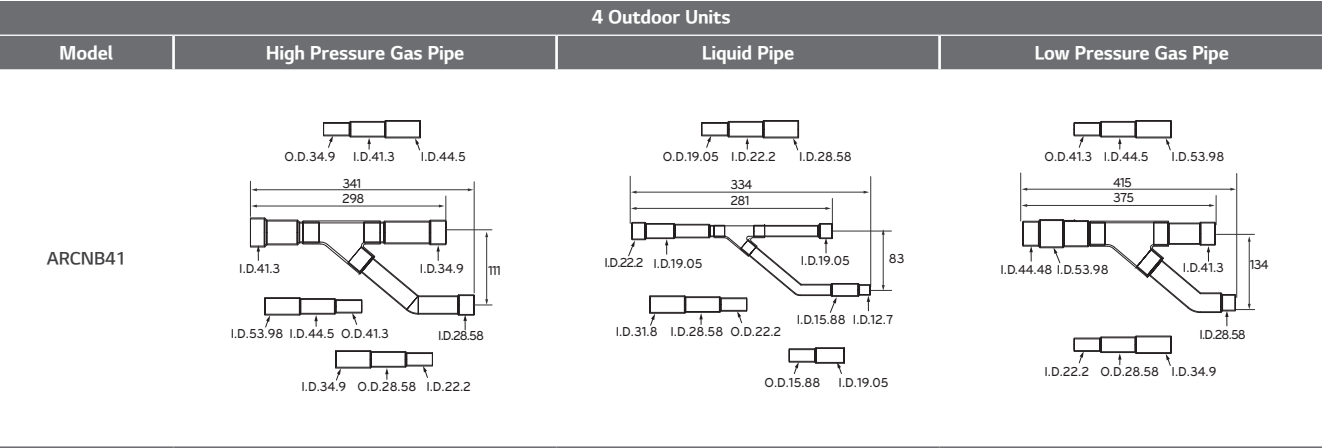
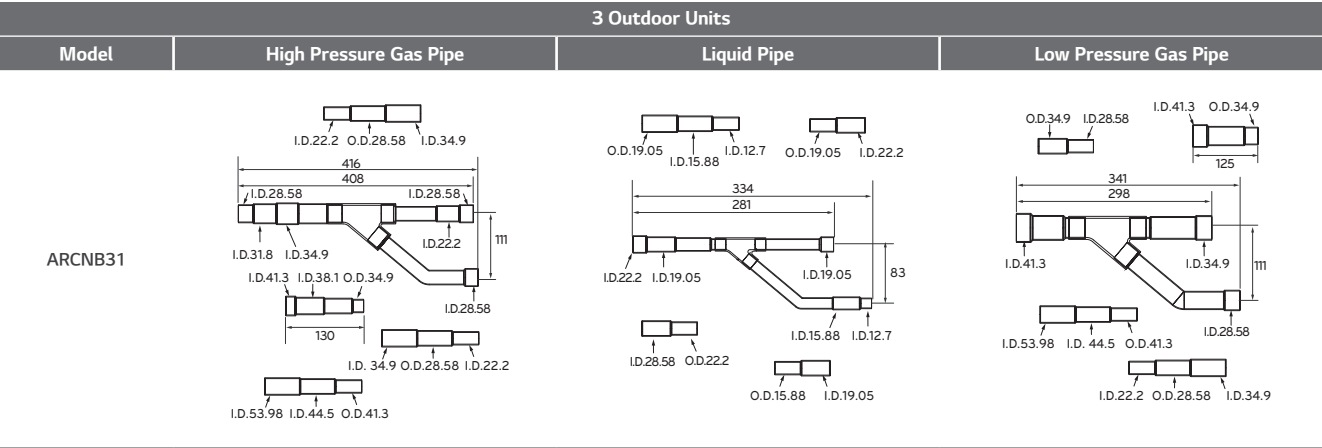
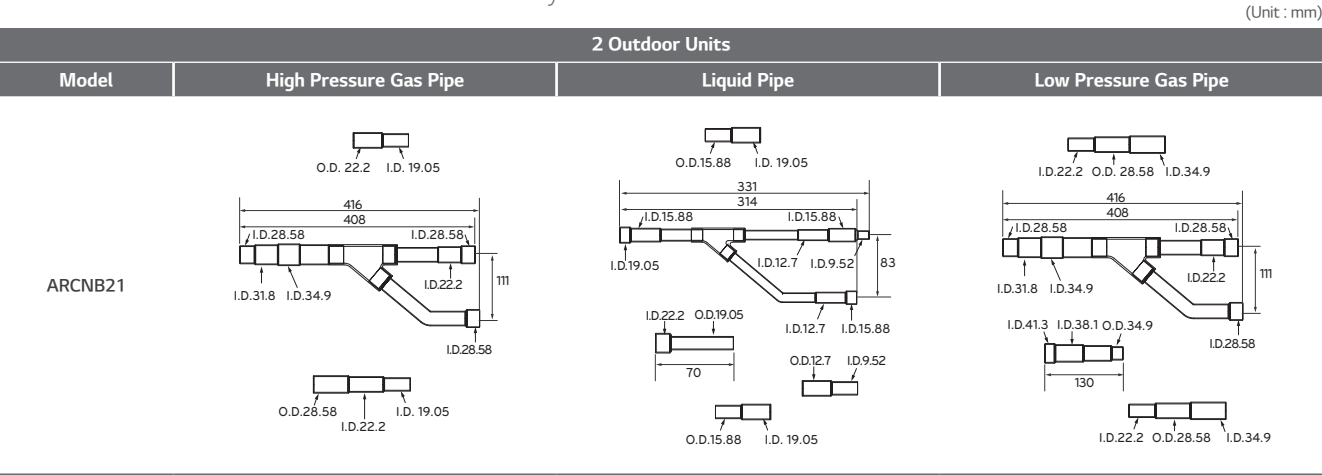
R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V WATER IV, MULTI V WATER II



Specification

Heat Recovery

R410A MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery



PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump, Heat Recovery Zone Control

R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model	Gas Pipe	Liquid Pipe
ARBLN01621		
ARBLN03321		
Model	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		
Model	Gas Pipe	Liquid Pipe
ARBLN23220		

Specification

Heat Recovery

R410A MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)

Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB01621			
ARBLB03321			
ARBLB07121			
ARBLB14521			
Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB23220			

REFRIGERANT CHARGING KIT

Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive.



Model Name

PRAC1

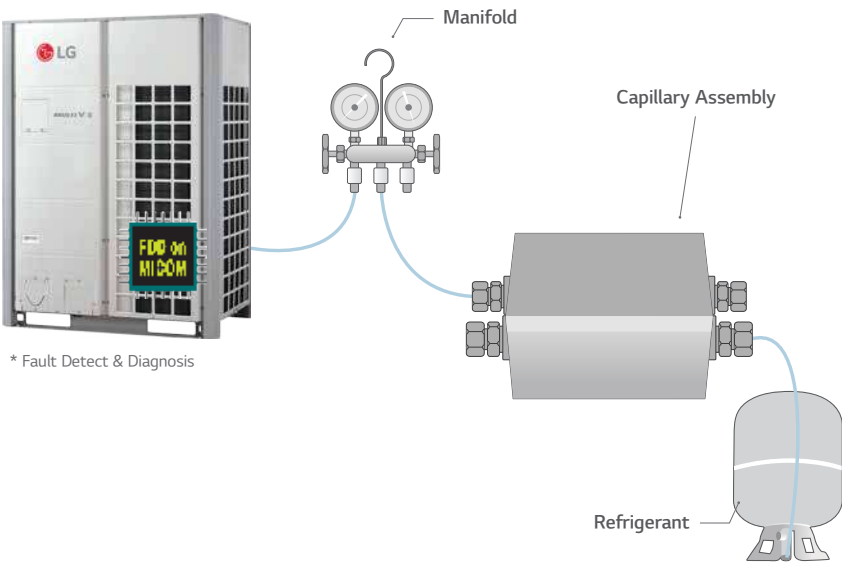
Applied Products

- MULTI V 5
- MULTI V IV Heat Pump
- MULTI V IV Heat Recovery
- MULTI V III Heat Pump
- MULTI V III Heat Recovery
- MULTI V PLUS II
- MULTI V SYNC II

How to Use

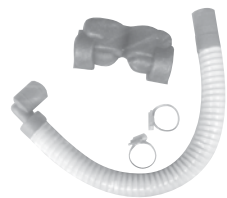
- Arrange manifold, capillary assembly, refrigerant vessel and scale.
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure.
- Connect manifold and capillary tube. Use designated capillary assembly only.
If designated capillary assembly isn't used, the system may get damaged.
- Connect capillary and refrigerant vessel.
- Purge hose and manifold.
- After "568" is displayed, open the valve and charge the refrigerant.

Key Application



DRAIN HOSE

Easy drain installation.



Model Name

- PHDHA05T
- PHDHA07T
- PHDHA05B
- PHDHA07B

Applied Products

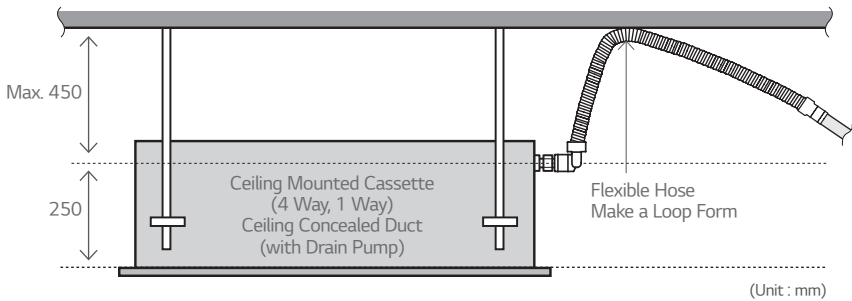
MULTI V Indoor units

Key Features

- It reduces the installation time by over 40% with elbow-less drain hose.
- Drain pump covers maximum 700mm high, featuring easy piping installation.

Key Application

- Ceiling Mounted Cassette and Ceiling Concealed Duct. (Refer to PDB for applicable model)



Specification

Model	Length	Quantity
PHDHA05T	500mm	30EA
PHDHA07T	700mm	30EA
PHDHA05B	500mm	5EA
PHDHA07B	700mm	5EA

STOPPER VALVES



Model Name

PRVT120 (Under 12.7mm)
PMVT780 (Under 22.2mm)
PMVT980 (Under 28.58mm)

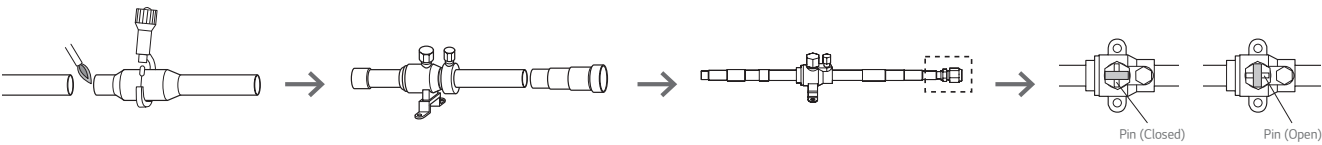
Key Features

- This unit can be applied for the additional indoor unit’s installation.
- This unit can be applied for each indoor unit’s service.

Specification

Model	Specification
PRVT120	Input ➡ ➡ Output (Indoor unit) ID 6.35 OD 9.52 ID 12.7 ID 12.7 ID 6.35
PRVT780	Input ➡ ➡ Output (Indoor unit) ID 15.88 ID 19.05 ID 22.2 ID 22.2 ID 19.05 ID 15.88
PRVT980	Input ➡ ➡ Output (Indoor unit) ID 28.58 ID 28.58

How to Install

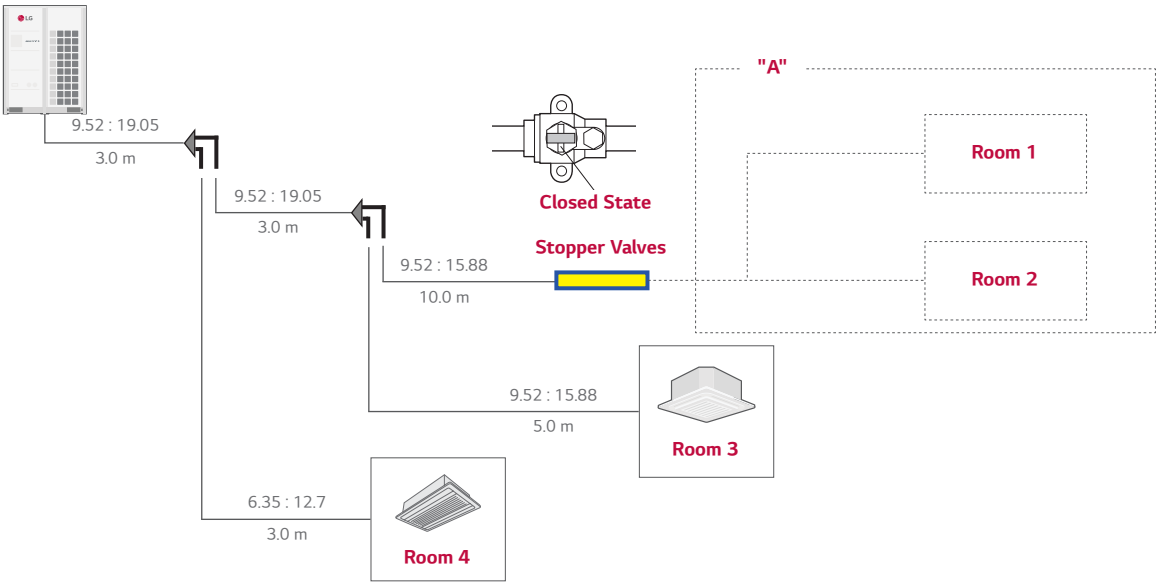


1. Cut the inlet side of the connector, and weld the pipe.
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing an additional indoor unit, the SVC valve should be in closed state.

※ When welding, service valve should be wrapped by wet cloth.

Application

(Room 3 & 4 : in use / Room 1 & 2 : need to install indoor units)



- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for “A” section.
- Then, open the Stopper Valve.

