



2023 LG AIR SOLUTION

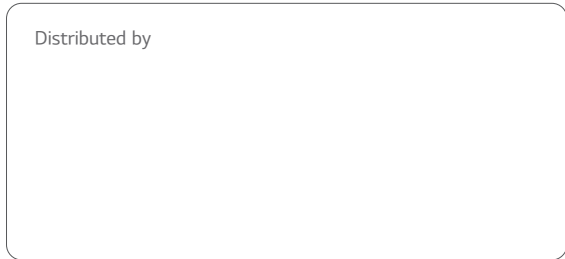
MULTI V™



2023 | MULTI V™



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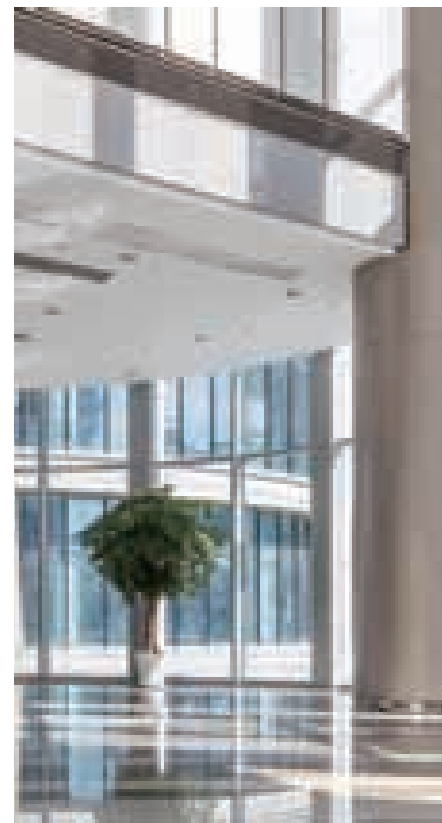
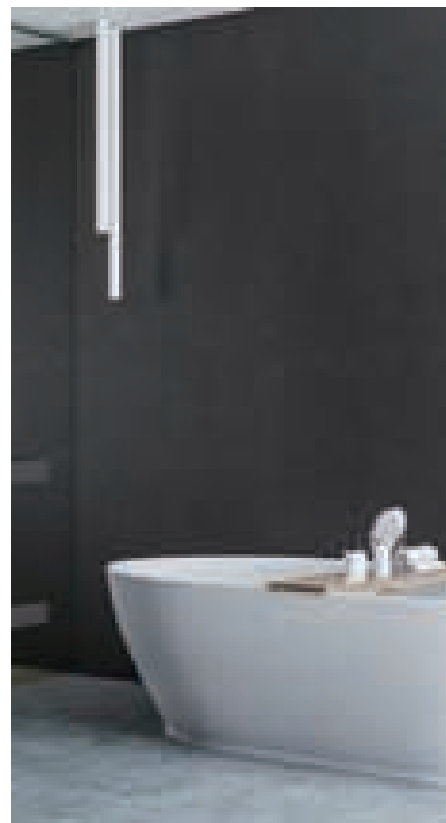
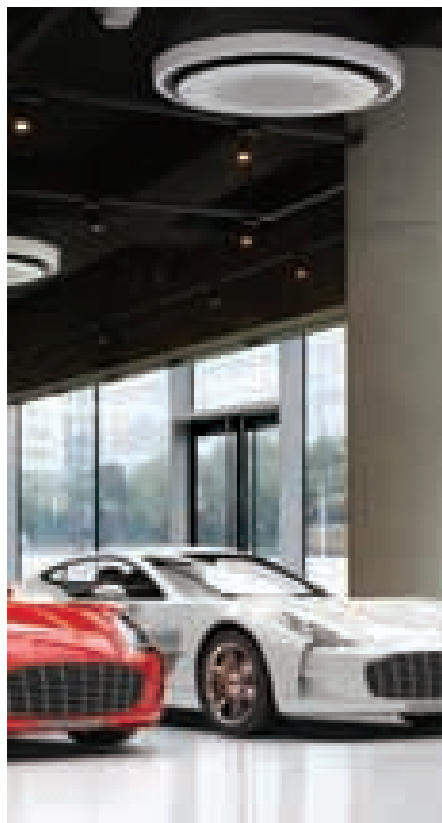
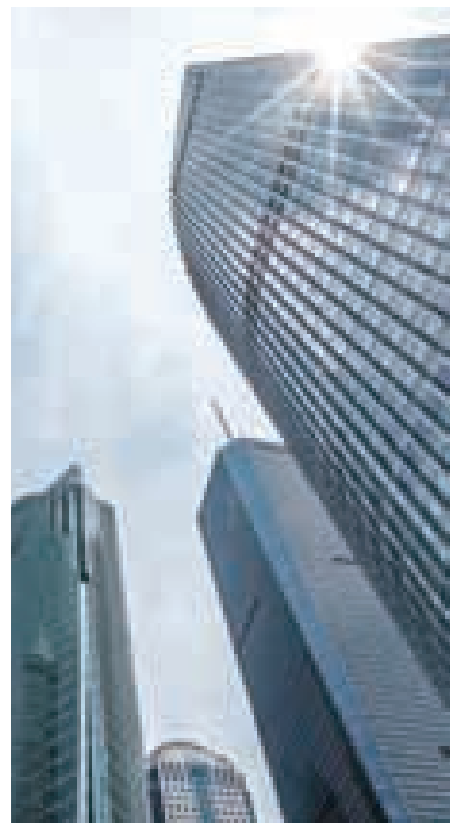


LG Electronics

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<http://partner.lge.com/in>

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# LG AIR SOLUTION



※ LG Air Solution production sites

## AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER

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

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

## LG ACADEMIES PROVIDE BEST SKILL



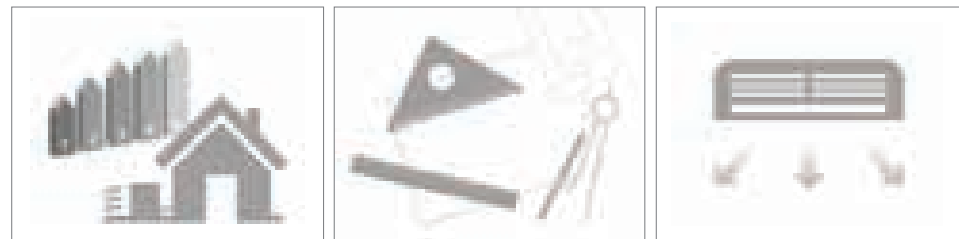
LG believes in Knowledge sharing and this being done at LGEIL with 2 Academies located at Greater Noida and Pune within factory premises. These academies with dedicated Trainer impart Product information to service including hand on Practise with Brazing system. LG Academies ensures in providing best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

# ENGINEERING TOOLS & SUPPORT

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

Dedicated to provide the best HVAC engineering support, LG Electronics Air-Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories : I. Draft Energy Estimation & Energy Modeling, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS\* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers a faster, easier, and a more accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

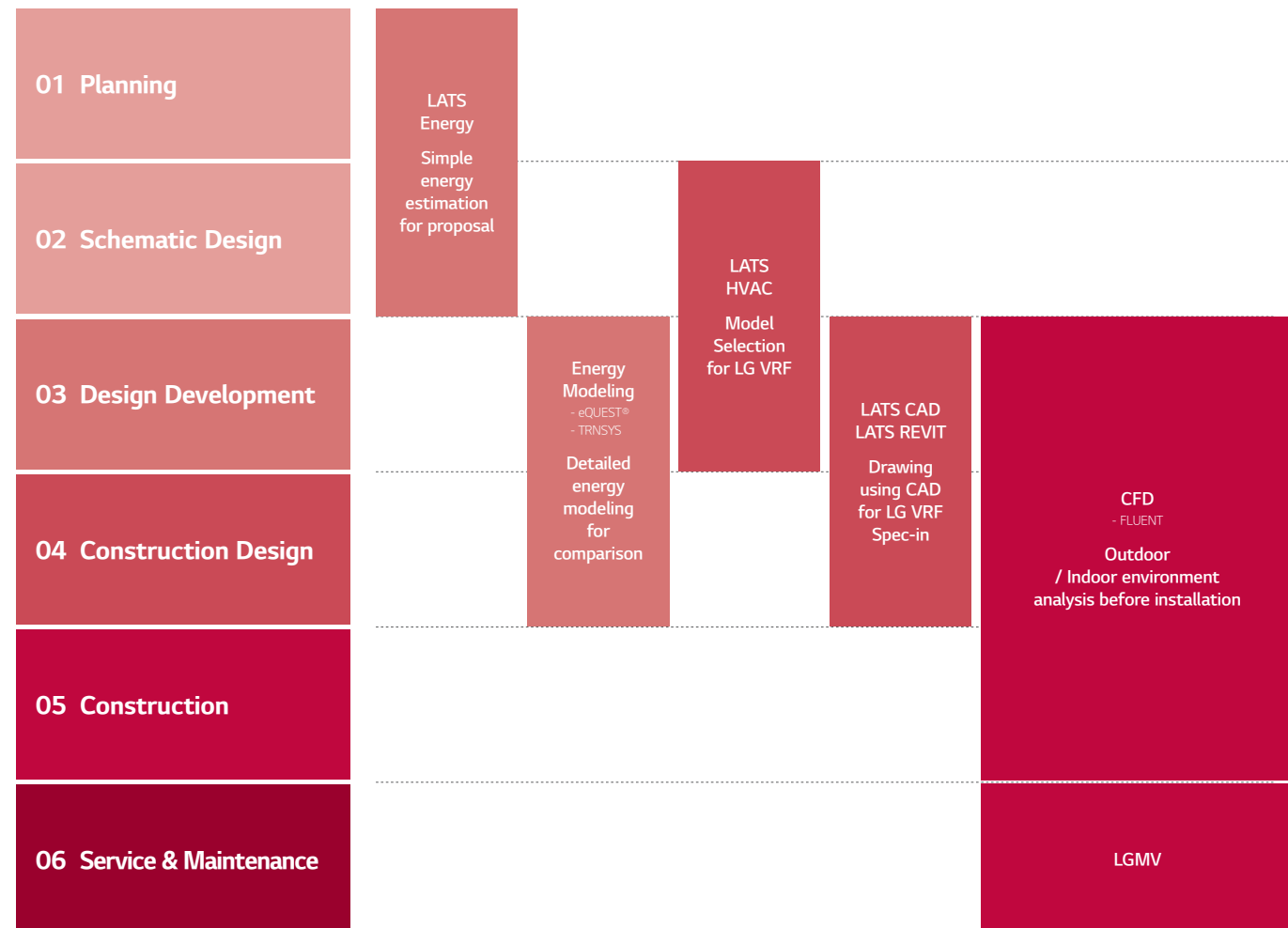
\* LATS : LG Air-conditioner Technical Solution



**I**  
Energy Estimation & Energy Modeling

**II**  
Model Selection & Design

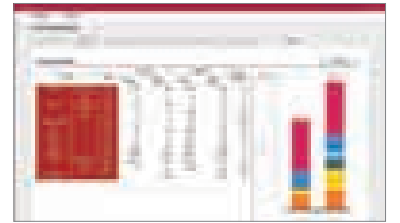
**III**  
Installation Environment Analysis



## 01 Draft Energy Estimation

### LATS Energy

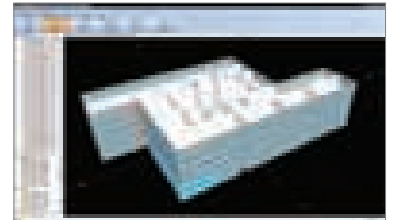
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project.



## 02 Building Energy Modeling

### eQuest, EnergyPro, Trace700 and More

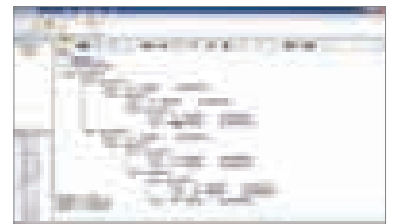
These are certified commercial programs which assess the HVAC system efficiency and building's annual energy saving for building standard or certification like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design wherein the overall designing is finished.



## 03 Model Selection

### LATS HVAC

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

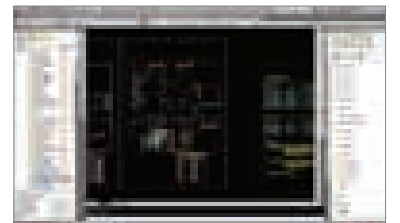


## 04 Design

### LATS CAD

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

※ AutoCAD program is required.



### LATS REVIT

LATS REVIT is developed to make 3D design of LG HVAC products.

※ AutoCAD REVIT program is required.



## 05 Environment Simulation

### CFD Analysis

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



## 06 Service & Maintenance

### LGMV

LGMV offers real-time MULTI V cycle monitoring. During start-up, it's possible to check whether it is normal operation or not. Also it helps to find causes of errors and solve the problem faster.





# BENEFITS OF LG MULTI V

## Benefits for Building Owners



### Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance & no extra manpower for regular maintenance.
- Saves space, time, and installation costs by offering a larger capacity single outdoor unit
- More reliable heating operation provides stable and powerful heating condition at the unexpected extreme environment.



### Reliability Guaranteed in Every Aspect

- Ultimate Inverter Compressor developed and manufactured in Korea.
- Corrosion resistant Black Fin & Panel for harsh conditions operation.



### Customized Comfort and Solution

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



## Benefits for Consultants



### Versatile Solutions

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



### Professional Designing Support

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



### Optimized Comfort in HVAC Designing

- Flexible combination provides more options for designing according to customers' preferences
- Meets any type of customer requirements of diverse environment, design condition and building applications



## Benefits for Developers / Construction Companies



### Green Solutions

- More environmentally friendly system & higher energy efficiency, less carbon emission with Hydro kit



### Maximizing Space Utilization

- Large Capacity in compact size enhances space utilization



### Smart Building Solutions

- Easy interlock with Building Management System
- User friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management
- Energy management and control according to usage and planning is possible with LG's centralized control solution



## Benefits for End-users



### Operation Cost Saving

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



### Comfortable Cooling & Heating

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



### Convenient Functions

- Low-noise operation provides a restful environment.

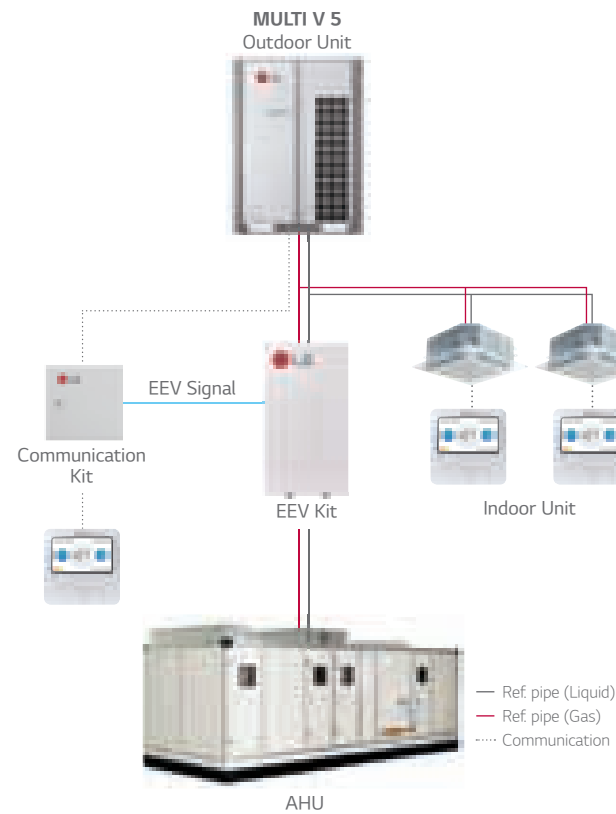
\* Dual Sensing Smart Load Control based, below 50% humidity, model ARUN260LTE5



# DIVERSE INTEGRATED SOLUTION

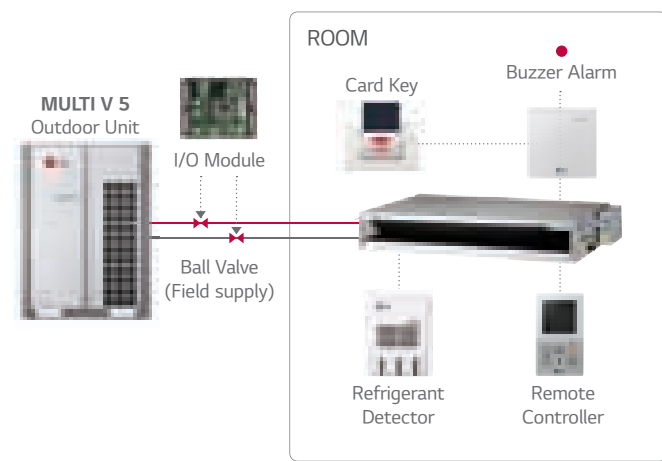
## Air Handling Unit (AHU) Solution

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



## Refrigerant Leak Detection Solution

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



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

## TMS (Total Management System)

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

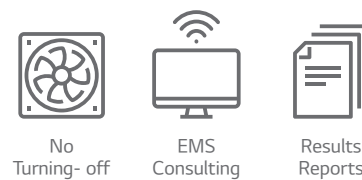
### RCS | Remote Control System

Real-time monitoring and control



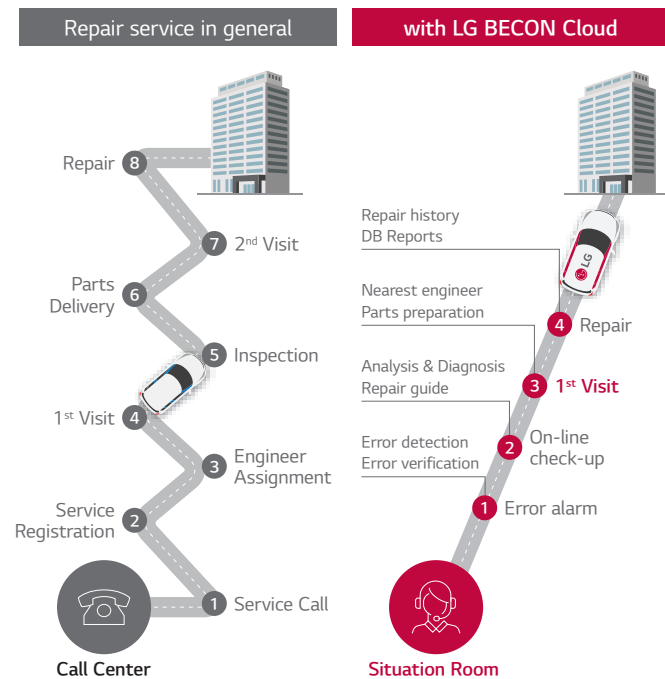
### EMS | Energy Management System

User friendly saving modes



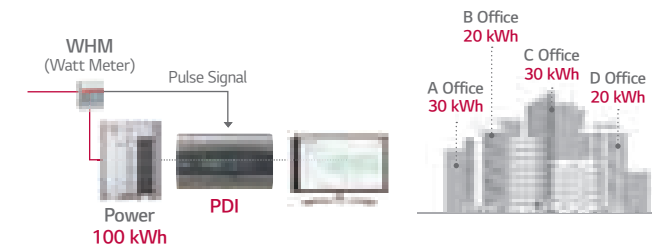
### FMS | Facility Maintenance System

Proactive repair based on real-time diagnosis



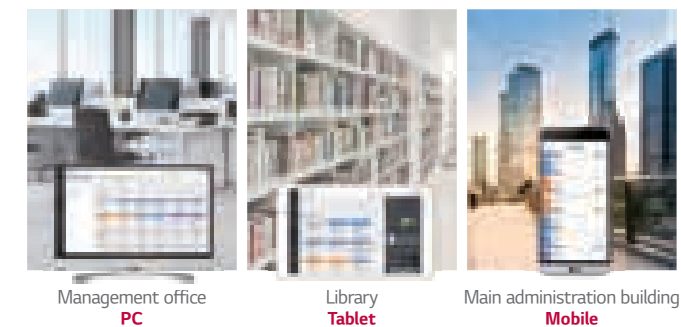
## Power Consumption Distribution Solution

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



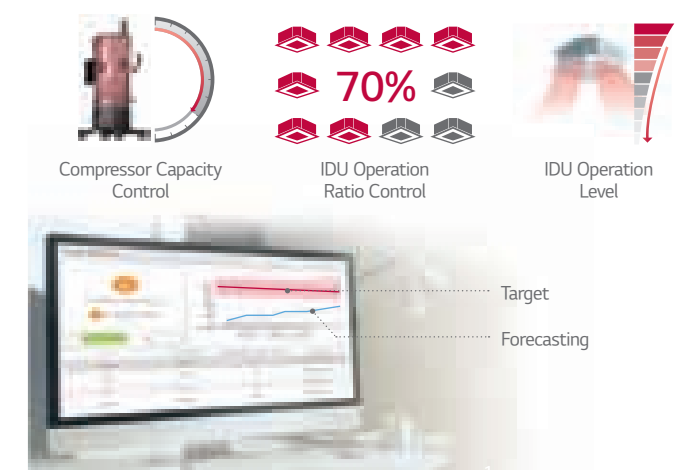
## Total Control of Any Device

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



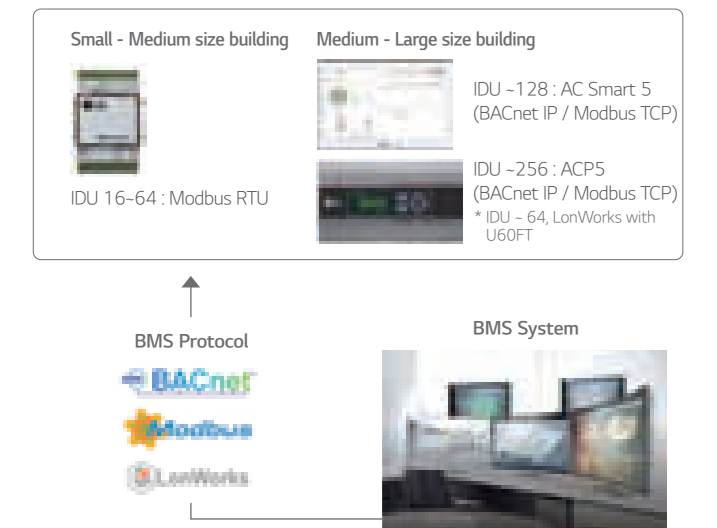
## Energy Management Solution

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



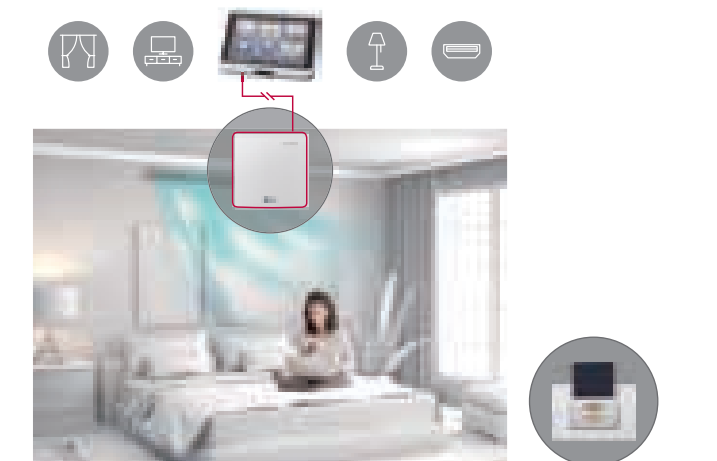
## Integration Solution with BMS

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



## Interlocking Solution Using Dry Contact

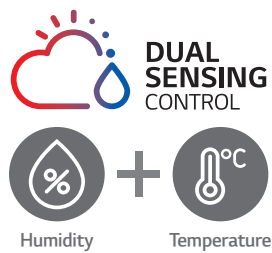
3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote control has a DO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



# 10 ADVANTAGES OF MULTI V

## 1 ULTIMATE EFFICIENCY

Ultimate Energy Saving with Dual Sensing Control.



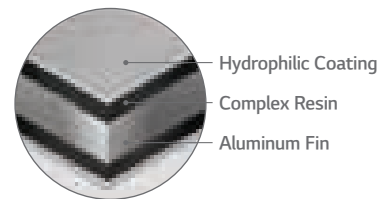
## 2 INNOVATIVE TECHNOLOGIES

Ultimate Inverter Compressor  
- MULTI V 5  
Revolutionary Scroll R1 Compressor  
- MULTI V S

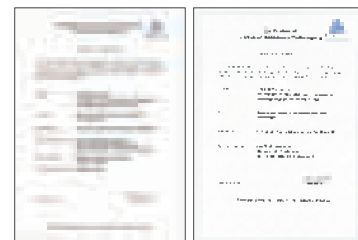


## 3 SUPERIOR DURABILITY

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



Verified protection



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

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

※ Applicable models - 8 to 22HP

## 4 DESIGN FLEXIBILITY

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

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

**MULTI V S** allows versatile design with flexible piping locations.



## 5 SMART CONTROLS

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



## 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

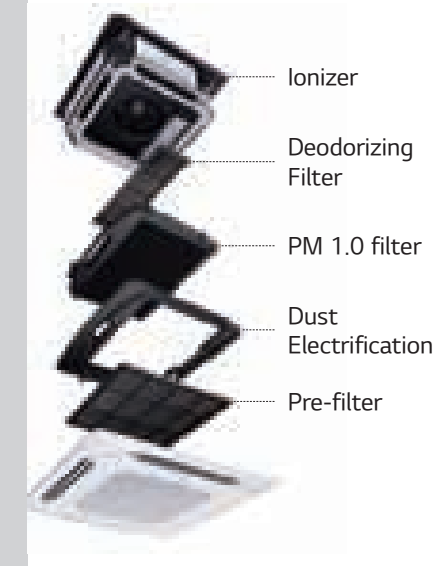
Integrated solution optimized for various business environments, including hot water, AHU, BMS, and EMS.

## 6 BUSINESS SUPPORT

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

## 9 AIR PURIFICATION

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



## 10 BRAND RELIABILITY

Global production sites facilitate world-class customer service.



# BLACK FIN HEAT EXCHANGER

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

## Black Fin

### Heat Exchanger with Black Fin for Corrosion Resistance

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

#### Hydrophilic Coating (Water flow)

The hydrophilic coating minimizes moisture buildup on the fin.

#### Complex Resin (Corrosion resistant)

The black coating provides strong protection from corrosion.

#### Aluminum Fin



Strong Durability  
Regardless of External  
Environment

### Corrosion Resistance Proven by Verified Tests

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

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

### Condition of Salt Spray Test

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



# DUAL SENSING CONTROL

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



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



Hot & Wet day



Humidity

Hot & Dry day



Temperature

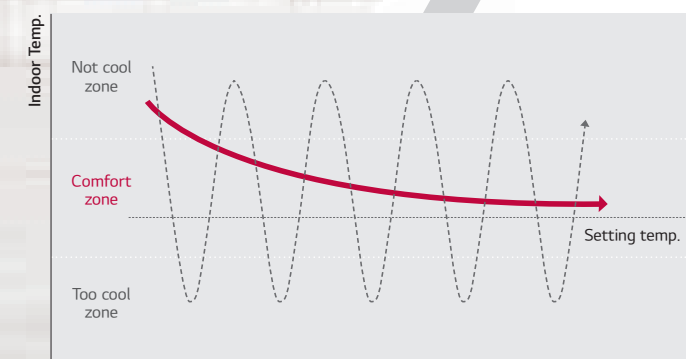
## Smart Load Control (SLC)

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

## Comfort Cooling

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

Previous Model | **MULTI V. 5**





# BIOMIMETICS TECHNOLOGY FAN

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



“Maximum Capacity and Efficiency”

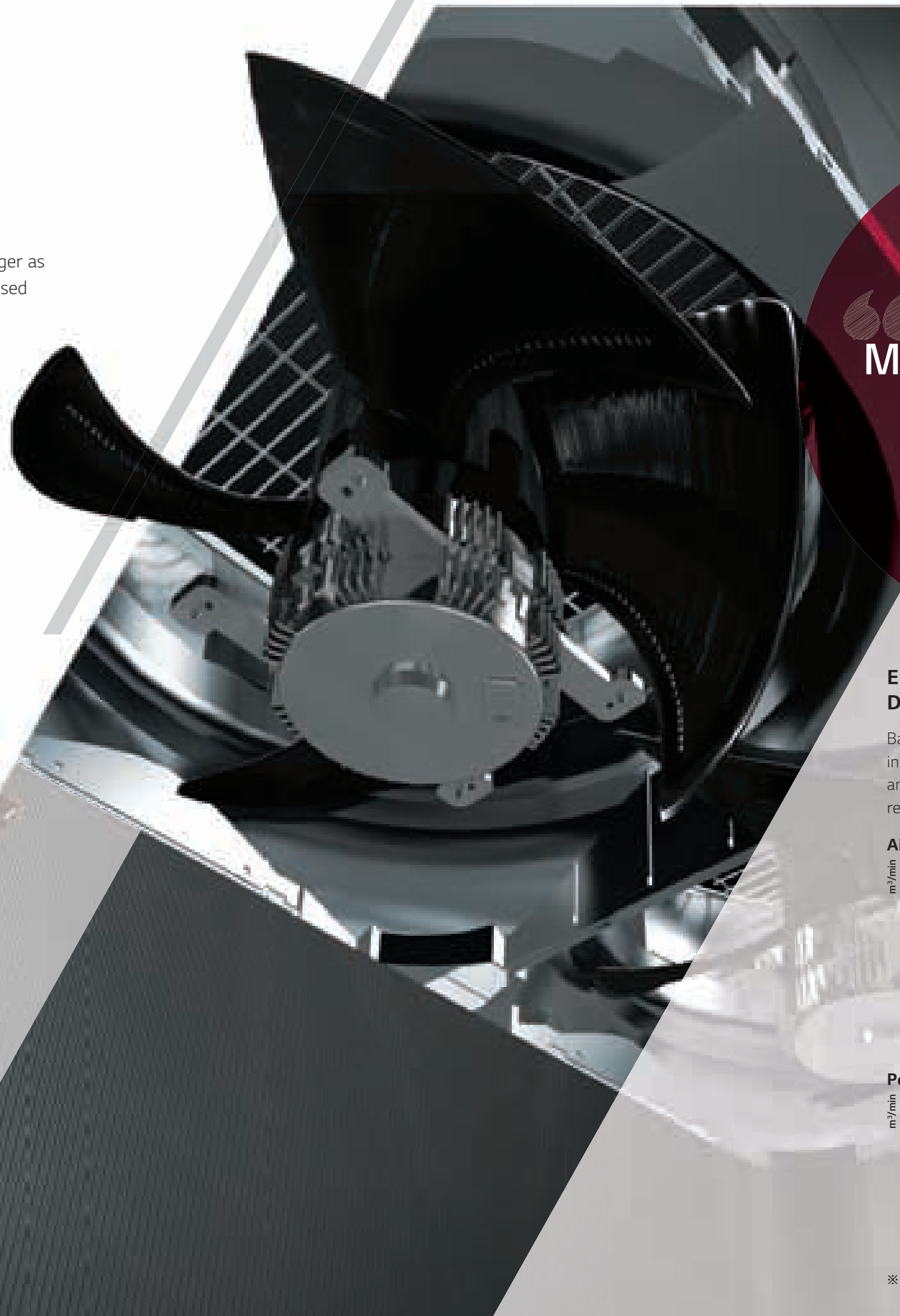
## Larger Capacity ODU with Biomimetics Technology Fan



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

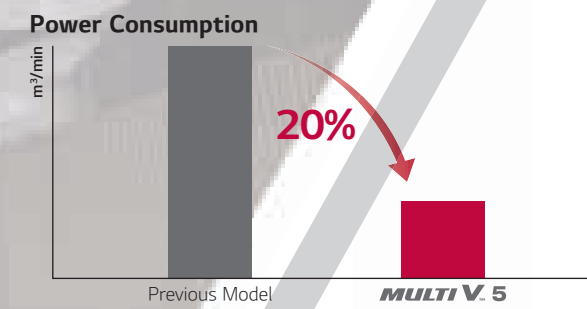
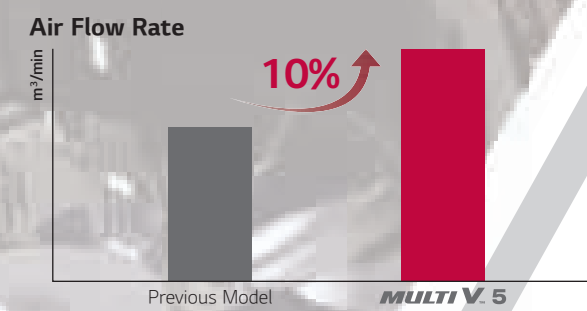
**2 Clam Shell Pattern**  
Like the clam shell textures, the range difference created by moire pattern reduced noise level.

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



## Enhanced Performance with Newly Developed Fan

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



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

# AUTO DUST REMOVAL

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

## Auto Dust Removal

### Technology Mechanism

Fan rotates reversely to run sand dust free operation.

#### Normal Operation



#### Auto Dust Removal



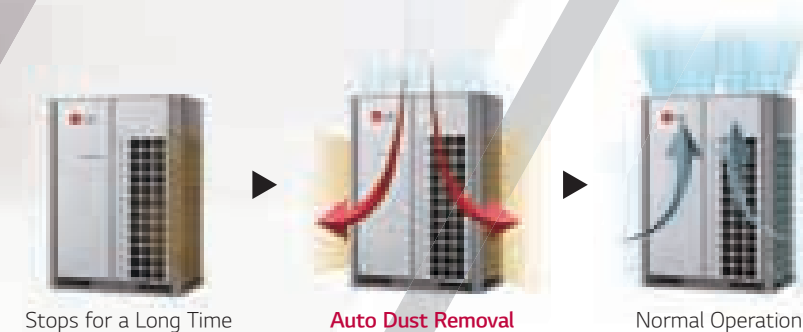
Enhanced Stability from Environmental Constraints

### Performance Comparison

#### Normal Operation


















#### Auto Dust Removal





# INDOOR UNITS LINE-UP

		kW																		
		1.5	2.2	2.8	3.2	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	13.5	14.1	15.8	18.0	22.4	28.0
Type	Btu/h	5k	7k	9k	11k	12k	15k	18k	21k	24k	28k	30k	36k	42k	45k	48k	54k	60k	76k	96k
4 <sup>th</sup> generation Wall Mounted	Standard 			●		●	●	●		●		●	●							
	Round Cassette 									●		●				●				
	4 Way Cassette (570 x 570) 	●	●	●		●	●	●	●											
4 <sup>th</sup> generation Ceiling Mounted Cassette	4 Way Cassette (840 x 840) 			●		●	●	●		●		●	●		●	●				
	2 Way Cassette 			●		●		●		●										
	1 Way Cassette 	●	●			●		●		●										
4 <sup>th</sup> generation Ceiling Concealed Duct	High Static 	●	●			●	●	●		●	●		●	●		●	●		●	●
	Low Static 			●		●	●	●		●										
4 <sup>th</sup> generation Fresh Air Intake 																		●	●	
4 <sup>th</sup> generation Floor Standing	Floor Standing 															●				●
	Medium Temperature 													●						●
4 <sup>th</sup> generation HYDRO KIT	High Temperature 													●					●	
	ERV Without DX Coil 	●		●		●				●		●						●		
4 <sup>th</sup> generation Energy Recovery Ventilator with DX Coil	With Humidifier 					●				●		●								
	ERV With DX Coil									●		●								
	Without Humidifier 					●				●		●								














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




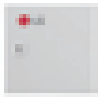

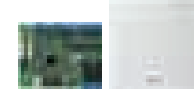

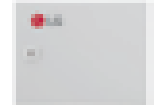











# INDOOR UNITS FEATURE OVERVIEW

Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Restart Function Disable / Enable	Wi-Fi Ready
●	●	●	●	●	●	●	●	●	●	●		●	●	●	▲*
●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
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\* 30k, 36k model, Wi-Fi module is embedded

# LG BECON HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL		
Wired Remote Controller Standard	Wireless Remote Controller	Display	Platform	Gateway
<p>Standard III</p>  <p>PREMTB100</p>	<p>PWLSSB21H</p> 	<p>AC Ez</p>  <p>PQCSZ250S0 (Indoor Unit -32)</p>	<p>ACP 5</p>  <p>PACPSA000 (Indoor Unit -256) BACnet IP/Modbus TCP * -64, Lonworks with U60FT</p>	<p>Modbus RTU Gateway</p>  <p>PMBUSB00A</p>
<p>Standard II</p>  <p>PREMTB001</p>	<p>LG Wi-Fi Modem</p>  <p>For Indoor Unit PWFMD200</p>	<p>AC Ez Touch</p>  <p>PACEZA000 (Indoor Unit -64)</p>	<p>AC Manager 5</p>  <p>PACM5A000 (Indoor Unit -8,192)</p>	<p>Cloud Gateway</p>  <p>For Outdoor Unit PWFMD200</p>
<p>Premium</p>  <p>PREMTA000</p>		<p>AC Smart 5</p>  <p>PACS5A000 (Indoor Unit -128) BACnet IP/Modbus TCP</p>		
<p>Simple</p>  <p>PQRCVCLQW</p>				

CENTRALIZED CONTROL	INTEGRATION DEVICE		
Facility Integrator	Indoor Units Dry Contact	Outdoor Units	AHU Kit
<p>PDI (Power Distribution Indicator)</p>  <p>Premium (8 port) PQNUD1540 Standard (2 port) PPWRDB000</p>	<p>Simple Dry Contact PDRYCB000</p> 	<p>IO Module (Input / Output Module)</p>  <p>For MULTI V IV, 5 PVDSMN000</p>	<p>Communication Kit</p>  <p>Return / Room Air control PAHCMR000</p>
<p>ACS IO Module (Input / Output Module)</p>  <p>PEXPMB000</p>	<p>Dry contact for Thermostat (For using universal input) PDRYCB320</p> 	<p>Variable Water Flow Control Kit</p>  <p>For MULTI V WATER IV PWFCKN000</p>	<p>Discharge / Supply Air control PAHCM5000</p> 
<p>ACU IO Module</p>  <p>UIO PEXPMB300</p>	<p>2 Points Dry Contact (For Setback) PDRYCB400</p> 	<p>Cool / Heat Selector</p>  <p>PRDSBM</p>	<p>Control kit</p>  <p>PAHCNM000 (Max. 3 Outdoor Units)</p>
 <p>UO PEXPMB200</p>	<p>For Modbus PDRYCB500 / PDRYCB510 (w/o case)</p>  <p><b>NEW</b></p>	<p>EEV Kit (Electronic Expansion Valve)</p>  <p>PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW)</p>	
	<p>Control Accessory</p>		
	<p>Group Control Wire</p>  <p>PZCWRCG3</p>		<p>PRLK396A0 (~ 112 kW)</p> 
	<p>Multi-tenant Power Module</p>  <p><b>NEW</b> PINPMB001</p>		<p>PRLK594A0 (~ 168 kW)</p> 



# OUTDOOR UNITS

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



# MULTI V™ 5

Optimized for Medium and Large Buildings

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



Energy savings



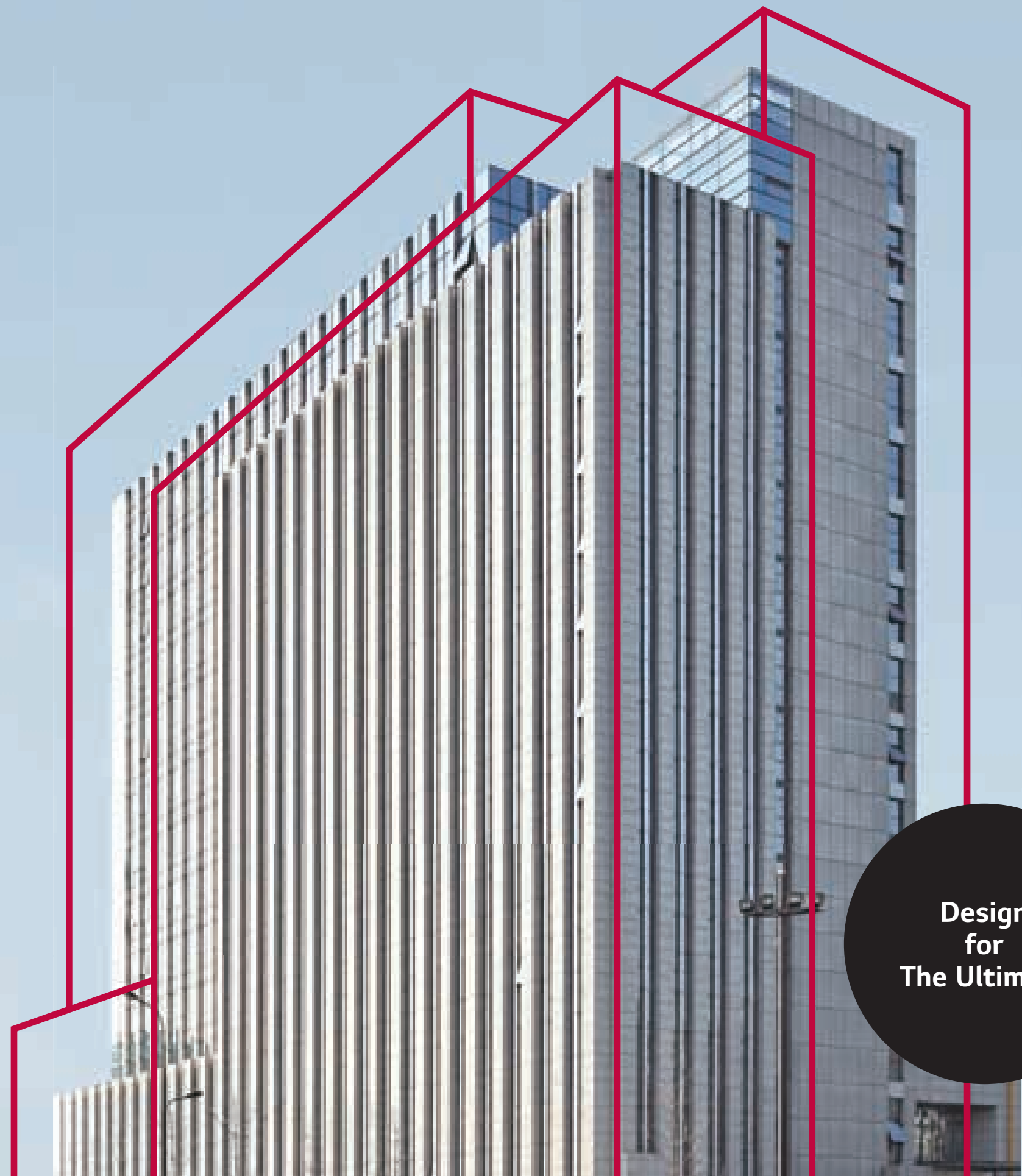
Reliability



Low noise



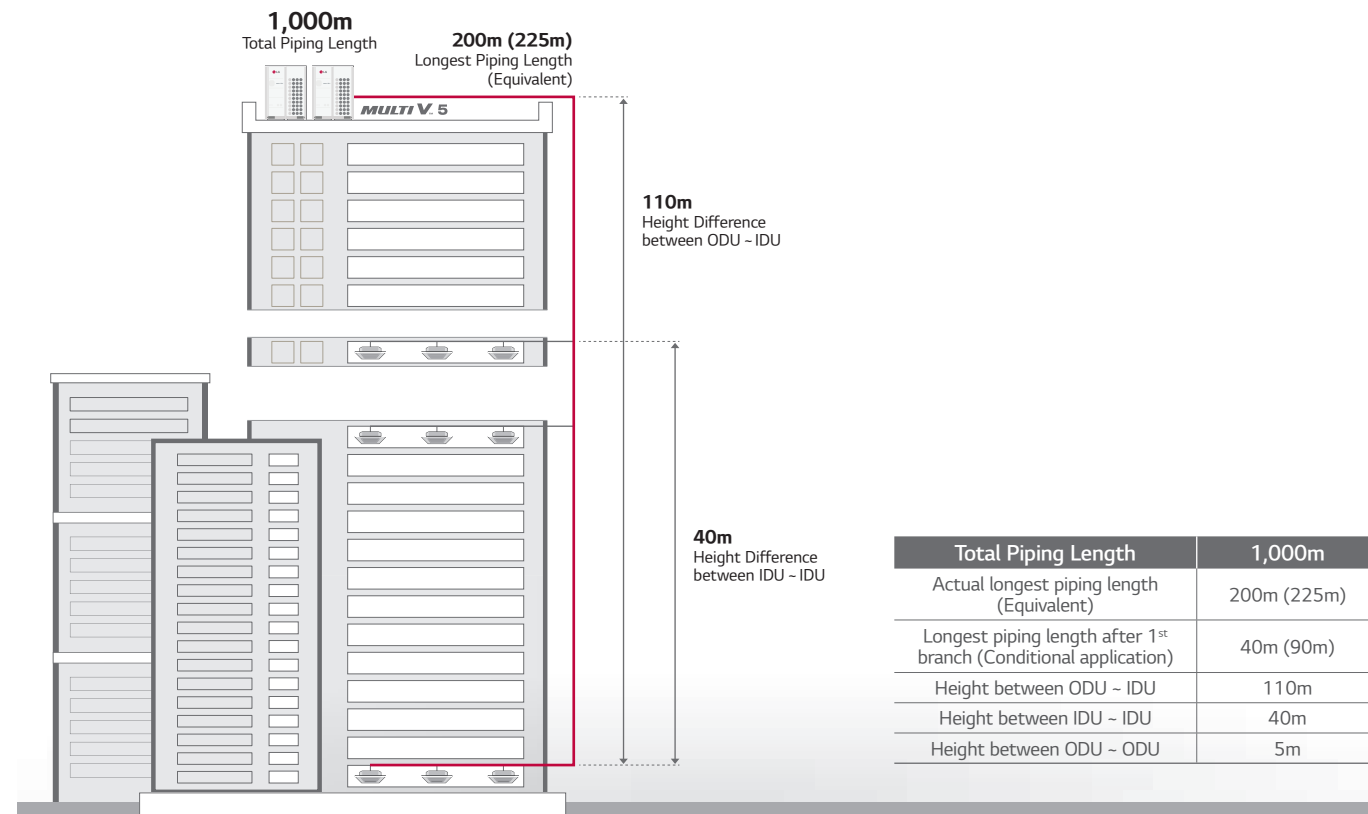
Advanced performance



Design  
for  
The Ultimate

# MULTI V 5

## Piping Length



## Active Refrigerant Control

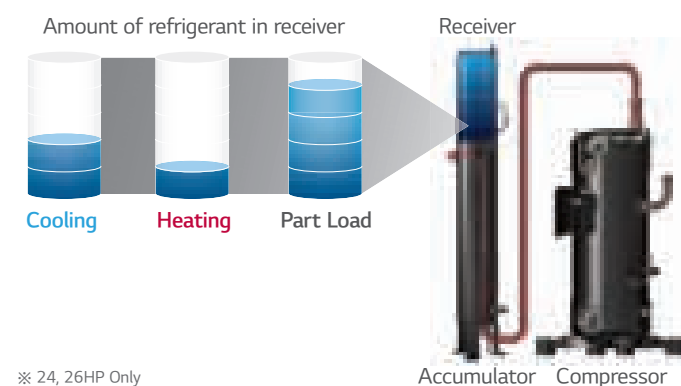
Stable operation & Sustaining most efficient operation

The accumulator in the outdoor unit has a storage tank mounted inside accumulator known as the receiver tank. The receiver tank is equipped with inlet and outlet valves that are electronically opened and closed. Refrigerant is being passed between the accumulator and the receiver tank on a continuous basis. MULTI V 5 active refrigerant control algorithm goal is to minimize the amount of refrigerant in circulation. The lower the volume in circulation the lower the cost to move it around the system and the higher the stability of the refrigeration cycle. It accomplishes this by constantly monitoring the system operating pressures and temperatures and a variety of other vital control metrics of the refrigeration cycle. When the cycle is out of balance, an adjustment in the amount of circulating refrigerant occurs.

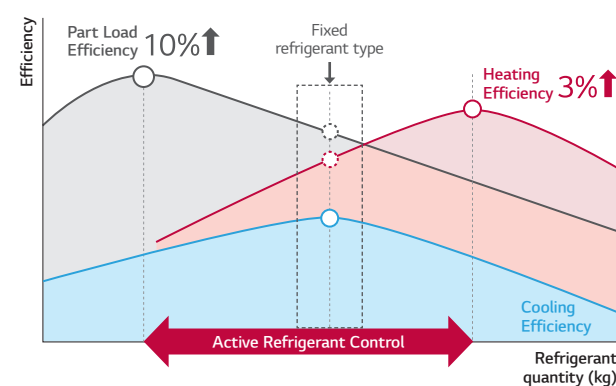
### What are the benefits?

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

### Technology mechanism



### Efficiency performance



※ 24, 26HP Only

## Low-Noise Operation

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

Automatic

Noise automatically adjusted

Manual

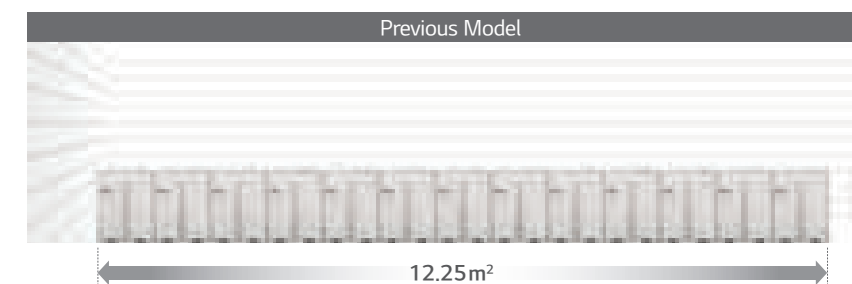
Choose preferred settings with remote based on noise conditions

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

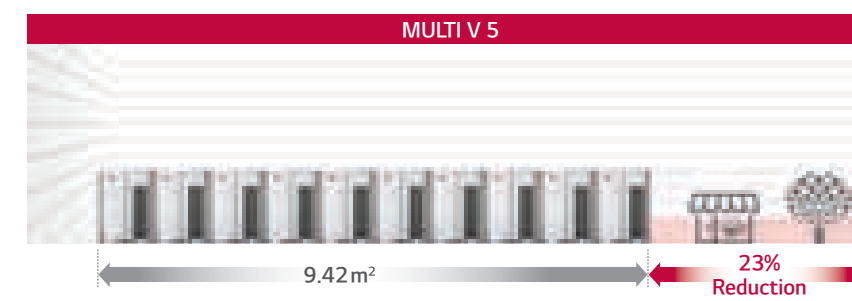
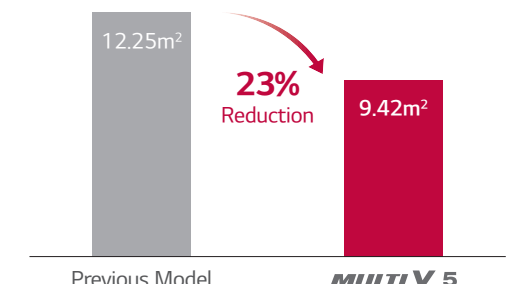
## Flexible Installation Space with Large Capacity Outdoor Units

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

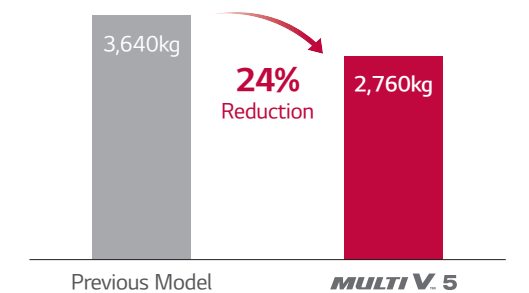
### Comparison on installation space



### Installation space area comparison



### Product weight comparison



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

# MULTI V 5

## Dual Sensing SLC (Smart Load Control)

Enhanced energy saving & Increased indoor comfort

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

Smart Load Control monitors two inputs

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

### What are the benefits?

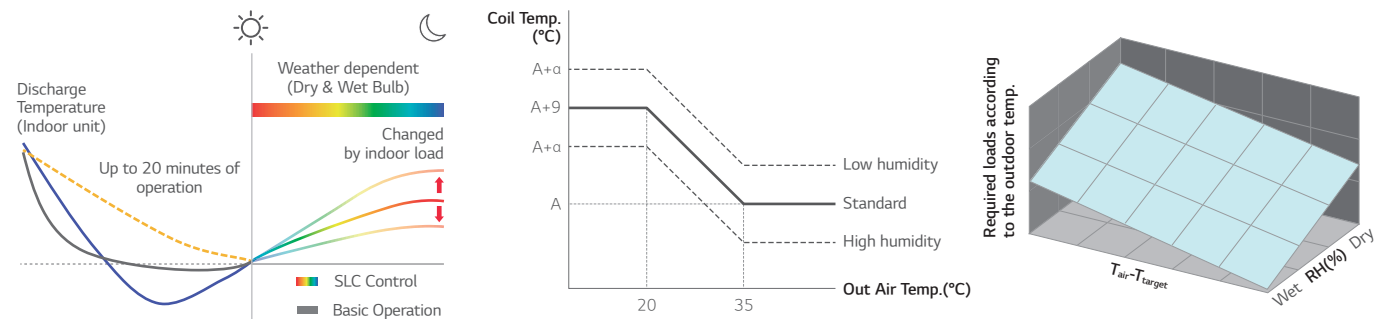
#### Enhanced energy savings

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

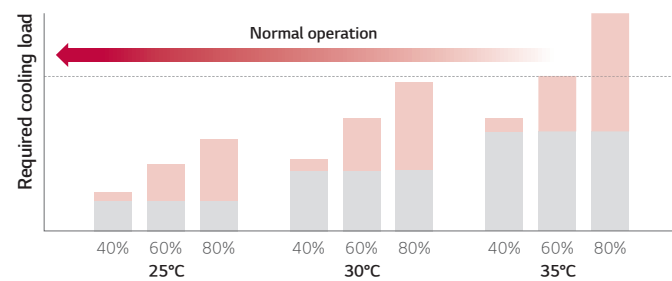
#### Increased indoor comfort

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

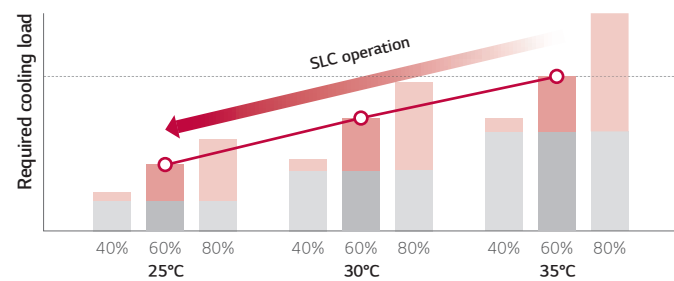
### SLC (Smart Load Control)



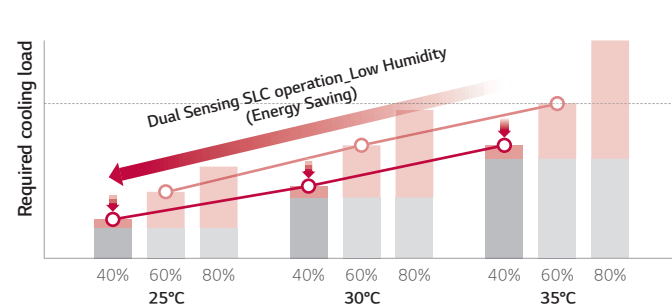
#### Normal operating mode



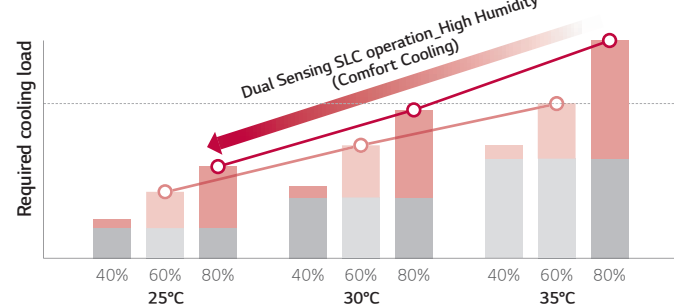
#### SLC operating mode



#### SLC operating mode - Low Humidity



#### SLC operating mode - High Humidity



Latent heat load    Sensible heat load

## Comfort Cooling

Increased indoor comfort & Enhanced operating efficiency

When the IDU is operating in a season when its load is less than design, the comfort cooling algorithm moderates the indoor unit's coil superheat, thus raising the leaving air temperature as the space temperature is approaching set point. MULTI V 5's comfort control algorithm monitors the outdoor air temperature and humidity conditions. When changing weather conditions are deteriorating and there is a high potential the indoor unit's load will remain stable or may increase, comfort cooling delays or abandons raising the target superheat as the room temperature approaches set-point. When changing weather conditions are favorable to raising target superheat, target superheat is moderated.

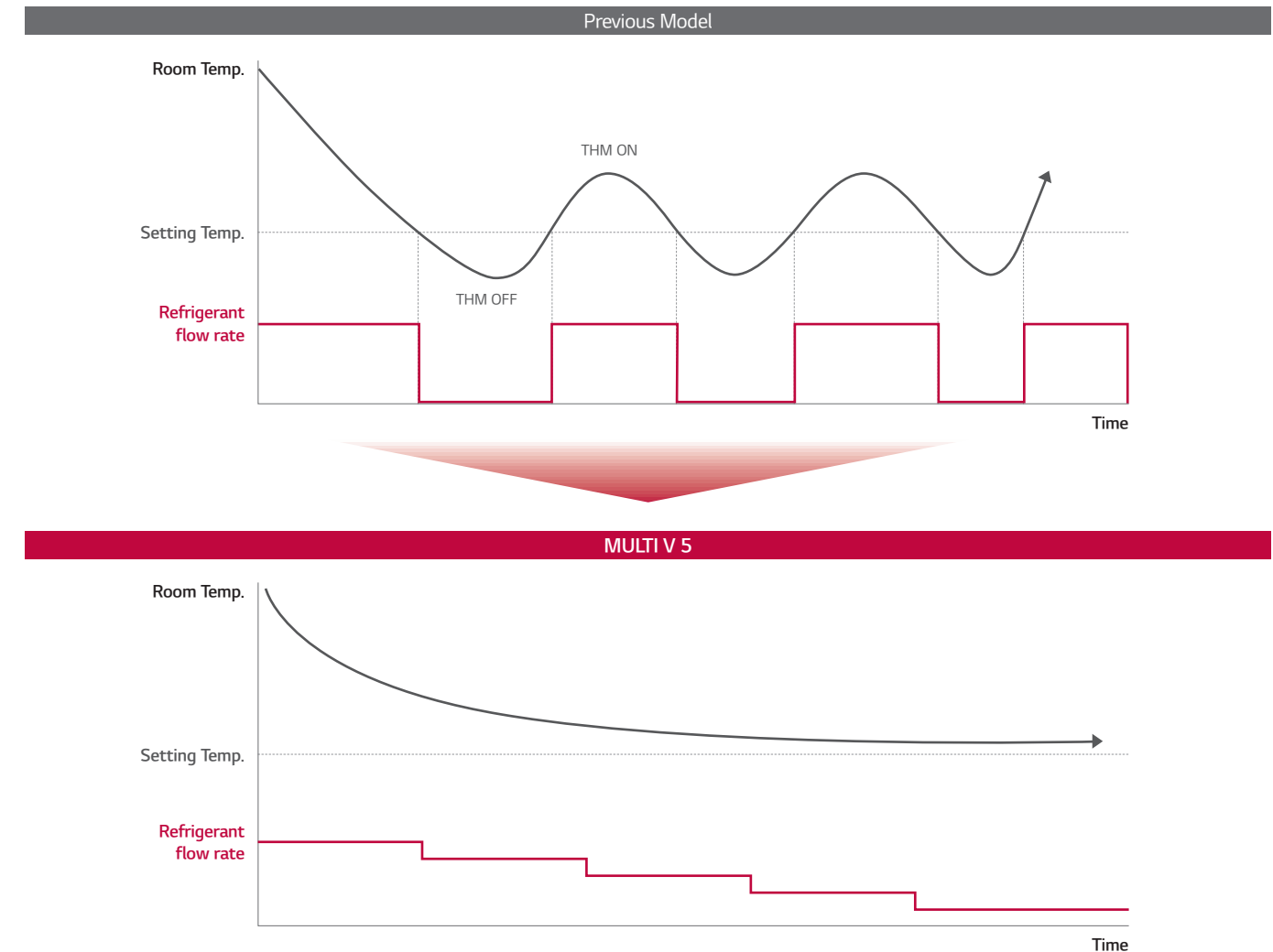
### What are the benefits?

#### Increased indoor comfort

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

#### Enhanced operating efficiency

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



# MULTI V 5

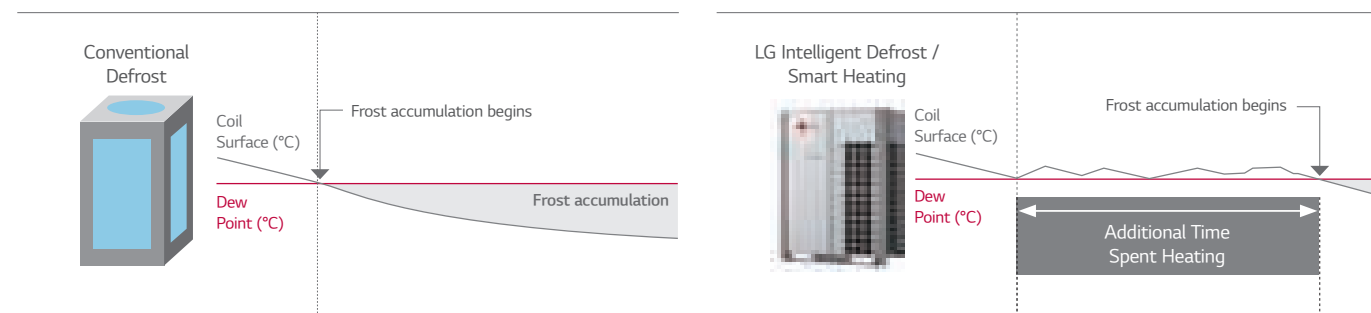
## Intelligent Defrost

Increased heating run-hours

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

### What are the benefits?

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



※ Increased heating operation time per day : Up to 17%  
 • LG Internal test result  
 • Test condition (MULTI V 5 vs MULTI V IV)  
 - Outdoor : 2/1°C, Indoor : 20/15°C - Humidity : 83%, Dew Point : -0.5°C  
 ※ 24, 26HP Only

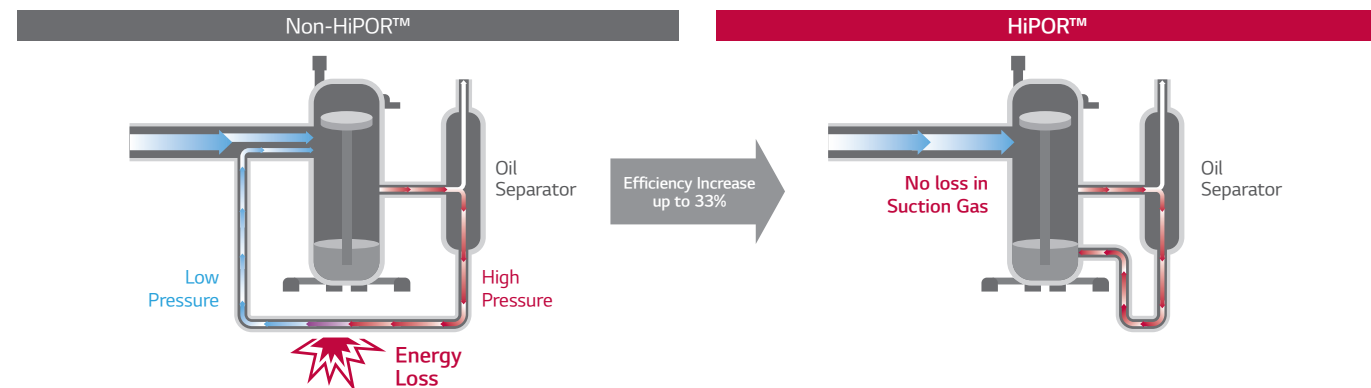
## HiPOR™

Advanced compressor reliability & efficiency

HiPOR™ is a trademark for LG's High Performance Oil Return apparatus. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe. This does not waste energy when oil flows between the separator and the compressor. Because the operating pressure in the chamber containing the oil sump of the compressor and the pressure in the oil separator are nearly equal, there is no loss in compressor efficiency.

### What are the benefits?

Maximizes reliability and efficiency of the compressor



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

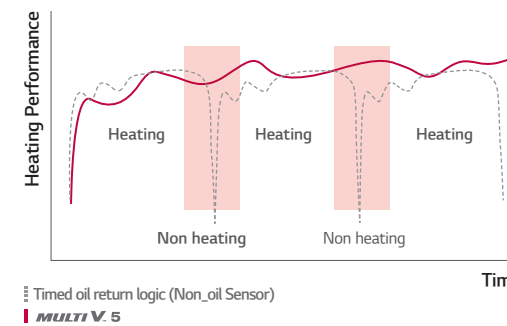
## Smart Oil Management

Energy saving, Enhanced heating & Increased compressor reliability

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

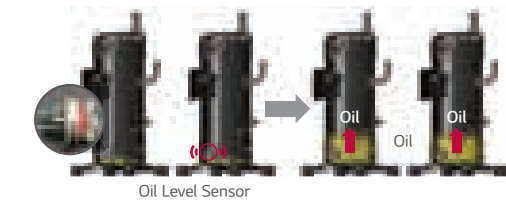
### What are the benefits?

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

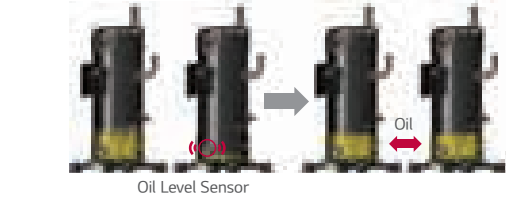


※ Increased heating operation time per day : Up to 12%  
 • LG Internal Test result  
 • Test condition  
 - without oil level sensor : every 8hour oil recovery operation  
 - with oil level sensor : non oil recovery operation  
 ※ Auto oil balancing function is only applied to 24, 26HP

### Smart Oil Return



### Auto Oil Balancing



## Vapor Injection

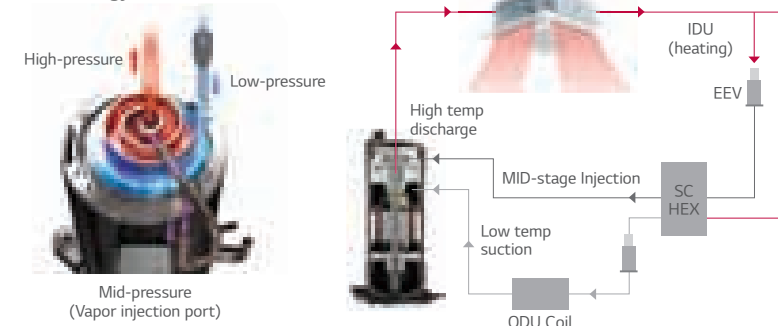
Increased heating performance

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

### What are the benefits?

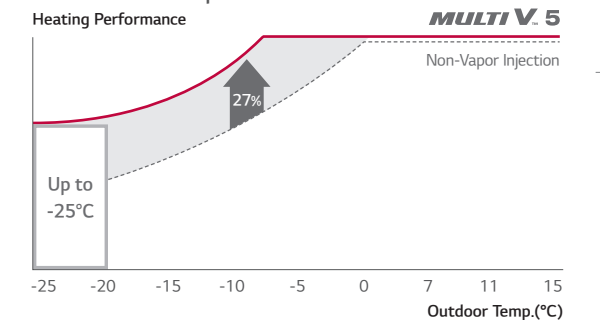
Provides stable refrigeration cycle operation over a wide range of outdoor ambient operating conditions. Increases compressor efficiency when compared to systems without vapor injection technology.

### Technology Mechanism



※ 24, 26HP Only

### Performance Comparison



※ Improved heating performance by 27%.



# MULTI V 5

## Black Fin

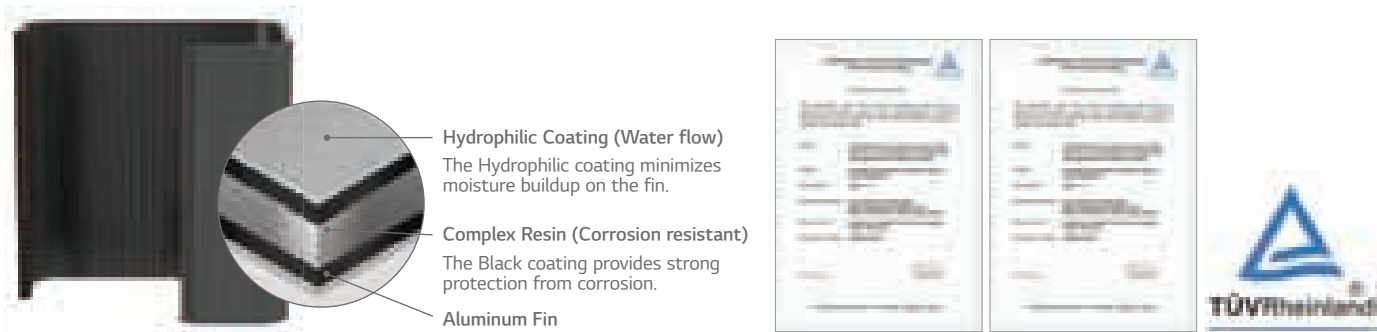
Improved durability

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

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

### What are the benefits?

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



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

## Simple Test Run via LGMV

Increased overall efficiency in installation

To make sure that the product functions properly, conducting a test run is recommended. For previous product, professional engineer who is well aware of more than 40 different functional settings and more than 200 error codes had to check main parts in order to make sure that the test run had succeeded. With Mobile LGMV of MULTI V 5, fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.



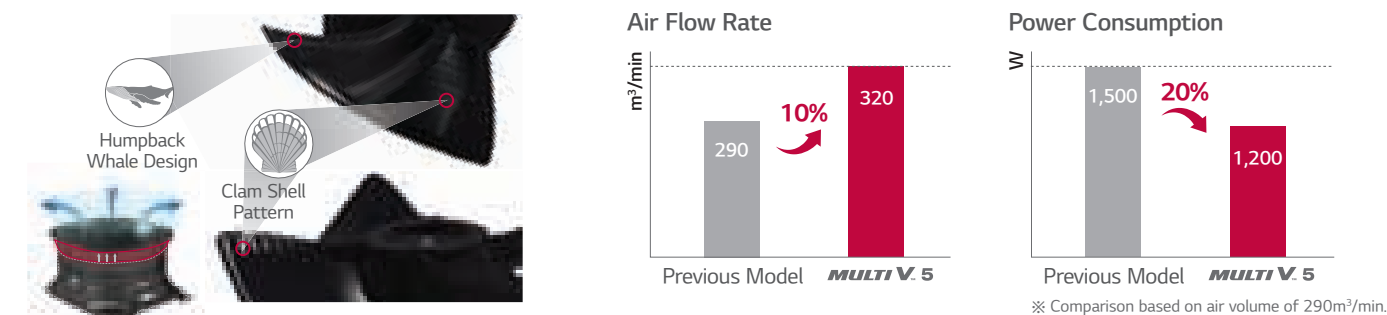
## Biomimetic Fan

Maximized performance

MULTI V 5 outdoor units fans have been upgraded. The moire pattern from external texture of clam shells has been applied on fans to create the range difference that results in reduction of noise level. At the same time, unlike the fans installed in previous products that generate separation of flow due to absence of tubercles, the bumpy back design inspired by the bumps on the humpback whale's flipper is applied as the tubercles on the back side of the fans, increasing wind power by reducing flacking. In addition to the biomimetic technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.

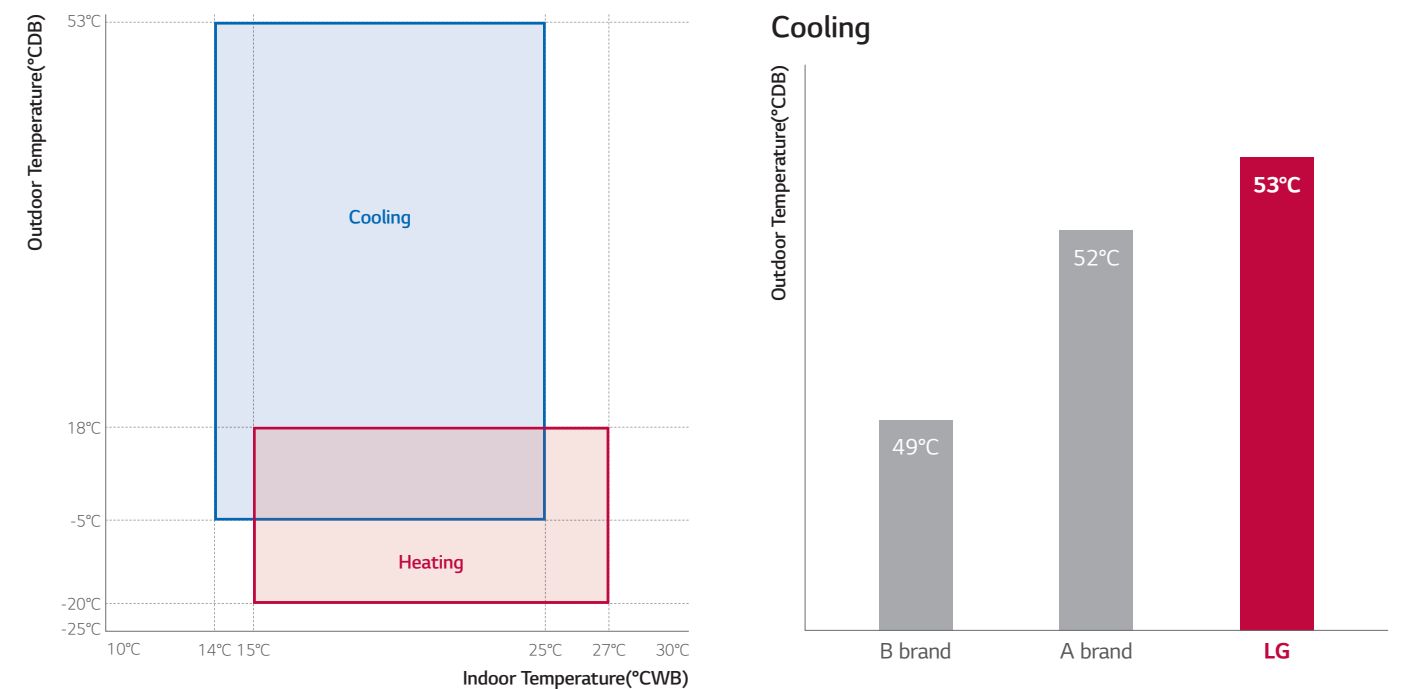
### What are the benefits?

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



## Wide Cooling Operation Range

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



# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

JRUN080LTE5 / JRUN100LTE5 / JRUN120LTE5 / JRUN140LTE5



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

## HIGH EFFICIENCY (HEAT PUMP)

JRUN160LTE5 / JRUN180LTE5 / JRUN200LTE5 / JRUN220LTE5



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

ARUN240LTE5 / JRUN240LTE5 / ARUN260LTE5 / JRUN260LTE5



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (HEAT PUMP)

JRUN280LTE5 / JRUN300LTE5 / JRUN320LTE5 / JRUN340LTE5



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

JRUN360LTE5 / JRUN380LTE5 / JRUN400LTE5 / JRUN420LTE5



HP		36	38	40	42	
Model Name	Combination Unit	JRUN360LTE5	JRUN380LTE5	JRUN400LTE5	JRUN420LTE5	
	Independent Unit	JRUN220LTE5 JRUN140LTE5	JRUN220LTE5 JRUN160LTE5	JRUN220LTE5 JRUN180LTE5	JRUN220LTE5 JRUN200LTE5	
Capacity (Rated)	Cooling	kW	100.8	106.4	112.0	117.6
		kcal/h	86,700	91,500	96,300	101,100
		Btu/h	343,900	363,100	382,200	401,300
	Heating	kW	100.8	106.4	112.0	117.6
		kcal/h	86,700	91,500	96,300	101,100
		Btu/h	343,900	363,100	382,200	401,300
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	3	3	4	4	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	(1,500 x 1) + (900 x 1)	1,500 x 2	1,500 x 2	1,500 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 1) + (210 x 1)	270 x 2	270 x 2	270 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	
Weight	Net Weight	kg x No.	(257 x 1) + (186 x 1)	(257 x 1) + (200 x 1)	(257 x 1) + (247 x 1)	257 x 2
	Shipping Weight	kg x No.	(265 x 1) + (193 x 1)	(265 x 1) + (208 x 1)	(265 x 1) + (255 x 1)	265 x 2
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	65.0	65.6
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	∅, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			58(64)	61(64)	64	64
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (HEAT PUMP)

JRUN440LTE5  
JRUN460LTE5  
ARUN480LTE5  
JRUN480LTE5



HP		44	46	48	48	
Model Name	Combination Unit	JRUN440LTE5	JRUN460LTE5	ARUN480LTE5	JRUN480LTE5	
	Independent Unit	JRUN220LTE5 JRUN220LTE5	JRUN160LTE5 JRUN160LTE5 JRUN140LTE5	ARUN240LTE5 ARUN240LTE5	JRUN160LTE5 JRUN160LTE5 JRUN160LTE5	
Capacity (Rated)	Cooling	kW	123.2	128.8	134.4	134.4
		kcal/h	105,900	110,700	115,600	115,600
		Btu/h	420,400	439,500	458,600	458,600
	Heating	kW	123.2	128.8	148.6	134.4
		kcal/h	105,900	110,700	127,800	115,600
		Btu/h	420,400	439,500	507,000	458,600
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	4	3	4	3	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 2	(1,500 x 2) + (900 x 1)	900 x 4	1,500 x 3
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 2	(270 x 2) + (210 x 1)	320 x 2	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(1,240 x 1,680 x 760) x 3	
Weight	Net Weight	kg x No.	257 x 2	(200 x 2) + (186 x 1)	276 x 2	198 x 3
	Shipping Weight	kg x No.	265 x 2	(208 x 2) + (193 x 1)	290 x 2	206 x 3
Sound Pressure Level	Cooling	dB(A)	65.6	65.6	68.0	66.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	∅, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

ARUN500LTE5 / JRUN500LTE5  
ARUN520LTE5 / JRUN520LTE5



HP		50	50	52	52	
Model Name	Combination Unit	ARUN500LTE5	JRUN500LTE5	ARUN520LTE5	JRUN520LTE5	
	Independent Unit	ARUN260LTE5 ARUN240LTE5	JRUN220LTE5 JRUN140LTE5 JRUN140LTE5	ARUN260LTE5 ARUN260LTE5	JRUN220LTE5 JRUN160LTE5 JRUN140LTE5	
Capacity (Rated)	Cooling	kW	140.0	140.0	145.6	145.6
		kcal/h	120,400	120,400	125,200	125,200
		Btu/h	477,700	477,700	496,800	496,800
	Heating	kW	148.6	140.0	148.6	145.6
		kcal/h	127,800	120,400	127,800	125,200
		Btu/h	507,000	477,700	507,000	496,800
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	4	4	4	4	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	900 x 4	(1,500 x 1) + (900 x 2)	900 x 4	(1,500 x 2) + (900 x 1)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	320 x 2	(270 x 1) + (210 x 2)	320 x 2	(270 x 2) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 1	(1,240 x 1,690 x 760) x 2	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 2	
Weight	Net Weight	kg x No.	276 x 2	(257 x 1) + (187 x 2)	276 x 2	(257 x 1) + (198 x 1) + (187 x 1)
	Shipping Weight	kg x No.	290 x 2	(265 x 1) + (193 x 2)	290 x 2	(265 x 1) + (206 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	68.0	66.0	68.0	66.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	130%	160%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (HEAT PUMP)

JRUN540LTE5 / JRUN560LTE5 / JRUN580LTE5 / JRUN600LTE5



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.



# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

JRUN620LTE5 / JRUN640LTE5 / JRUN660LTE5 / JRUN680LTE5



HP			62	64	66	68
Model Name	Combination Unit		JRUN620LTE5	JRUN640LTE5	JRUN660LTE5	JRUN680LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN180LTE5	JRUN220LTE5 JRUN220LTE5 JRUN200LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5	JRUN220LTE5 JRUN160LTE5 JRUN160LTE5 JRUN140LTE5
Capacity (Rated)	Cooling	kW	173.6	179.2	184.8	190.4
		kcal/h	149,300	154,100	158,900	163,700
		Btu/h	592,300	611,500	630,600	649,700
	Heating	kW	173.6	179.2	184.8	190.4
		kcal/h	149,300	154,100	158,900	163,700
		Btu/h	592,300	611,500	630,600	649,700
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	5
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	1,500 x 3	1,500 x 3	(900 x 1) + (1,500 x 3)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 3	270 x 3	270 x 3	(270 x 3) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1	
Weight	Net Weight	kg x No.	(257 x 2) + (247 x 1)	257 x 3	257 x 3	(257 x 1) + (200 x 2) + (186 x 1)
	Shipping Weight	kg x No.	(265 x 2) + (255 x 1)	265 x 3	265 x 3	(265 x 1) + (208 x 2) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	67.3	67.5	67.5	67.5
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (HEAT PUMP)

JRUN700LTE5 / ARUN720LTE5 / JRUN720LTE5 / ARUN740LTE5



HP			70	72	72	74
Model Name	Combination Unit		JRUN700LTE5	ARUN720LTE5	JRUN720LTE5	ARUN740LTE5
	Independent Unit		JRUN220LTE5 JRUN220LTE5 JRUN140LTE5 JRUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5	JRUN220LTE5 JRUN220LTE5 JRUN140LTE5 JRUN140LTE5	ARUN260LTE5 ARUN240LTE5 ARUN240LTE5
Capacity (Rated)	Cooling	kW	196.0	201.6	201.6	207.2
		kcal/h	168,500	173,300	173,300	178,200
		Btu/h	668,800	687,900	687,900	707,000
	Heating	kW	196.0	222.9	201.6	222.9
		kcal/h	168,500	191,700	173,300	191,700
		Btu/h	668,800	760,600	687,900	760,600
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 2) + (900 x 2)	900 x 6	(1,500 x 2) + (900 x 2)	900 x 6
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 2) + (210 x 2)	320 x 3	(270 x 2) + (210 x 2)	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 2	(1,240 x 1,690 x 760) x 3	
Weight	Net Weight	kg x No.	(257 x 2) + (186 x 1) + (177 x 1)	276 x 3	(257 x 2) + (187 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (193 x 1) + (184 x 1)	290 x 3	(265 x 2) + (193 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.5	69.8	67.8	69.8
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

JRUN740LTE5  
ARUN760LTE5  
JRUN760LTE5  
ARUN780LTE5



HP		74	76	76	78	
Model Name	Combination Unit	JRUN740LTE5	ARUN760LTE5	JRUN760LTE5	ARUN780LTE5	
	Independent Unit	JRUN220LTE5 JRUN220LTE5 JRUN160LTE5 JRUN140LTE5	ARUN260LTE5 ARUN260LTE5 ARUN240LTE5	JRUN220LTE5 JRUN220LTE5 JRUN160LTE5 JRUN160LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5 ARUN260LTE5	
Capacity (Rated)	Cooling	kW	229.6	212.8	212.8	218.4
		kcal/h	197,400	183,000	183,000	187,800
		Btu/h	783,400	726,100	726,100	745,200
	Heating	kW	243.8	222.9	212.8	222.9
		kcal/h	209,600	191,700	183,000	191,700
		Btu/h	831,900	760,600	726,100	760,600
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	6	6	6	6	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	900 x 6	1,500 x 4	900 x 6
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 3) + (210 x 1)	320 x 3	270 x 4	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 3	
Weight	Net Weight	kg x No.	(257 x 2) + (198 x 1) + (187 x 1)	276 x 3	(257 x 2) + (198 x 2)	276 x 3
	Shipping Weight	kg x No.	(265 x 2) + (206 x 1) + (193 x 1)	290 x 3	(265 x 2) + (206 x 2)	290 x 3
Sound Pressure Level	Cooling	dB(A)	67.8	69.8	68.0	69.8
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (HEAT PUMP)

JRUN780LTE5 / JRUN800LTE5  
JRUN820LTE5 / JRUN840LTE5



HP		78	80	82	84	
Model Name	Combination Unit	JRUN780LTE5	JRUN800LTE5	JRUN820LTE5	JRUN840LTE5	
	Independent Unit	JRUN220LTE5 JRUN220LTE5 JRUN200LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN140LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN160LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN180LTE5	
Capacity (Rated)	Cooling	kW	218.4	224.0	229.6	235.2
		kcal/h	187,800	192,600	197,400	202,200
		Btu/h	745,200	764,300	783,400	802,500
	Heating	kW	218.4	224.0	229.6	235.2
		kcal/h	187,800	192,600	197,400	202,200
		Btu/h	745,200	764,300	783,400	802,500
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	7	7	7	8	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	(1,500 x 3) + (900 x 1)	(1,500 x 3) + (900 x 1)	1,500 x 4	1,500 x 4
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 3) + (210 x 1)	(270 x 3) + (210 x 1)	270 x 4	270 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	
Weight	Net Weight	kg x No.	(257 x 3) + (187 x 1)	(257 x 3) + (186 x 1)	(257 x 3) + (200 x 1)	(257 x 3) + (247 x 1)
	Shipping Weight	kg x No.	(265 x 3) + (193 x 1)	(265 x 3) + (193 x 1)	(265 x 3) + (208 x 1)	(265 x 3) + (255 x 1)
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	68.0	68.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (HEAT PUMP)

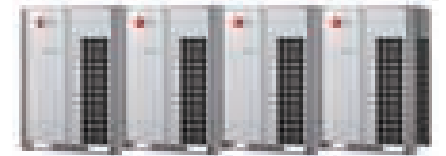
JRUN860LTE5 / JRUN880LTE5  
ARUN960LTE5 / ARUN980LTE5



HP		86	88	96	98	
Model Name	Combination Unit	JRUN860LTE5	JRUN880LTE5	ARUN960LTE5	ARUN980LTE5	
	Independent Unit	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN200LTE5	JRUN220LTE5 JRUN220LTE5 JRUN220LTE5 JRUN220LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN240LTE5	ARUN260LTE5 ARUN240LTE5 ARUN240LTE5 ARUN240LTE5	
Capacity (Rated)	Cooling	kW	240.8	246.4	268.8	274.4
		kcal/h	207,100	211,900	231,100	235,900
		Btu/h	821,600	840,800	917,200	936,300
	Heating	kW	240.8	246.4	297.2	297.2
		kcal/h	207,100	211,900	255,500	255,500
		Btu/h	821,600	840,800	1,014,100	1,014,100
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	8	8	8	8	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 4	1,500 x 4	900 x 8	900 x 8
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 4	270 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	
Weight	Net Weight	kg x No.	257 x 4	257 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	265 x 4	265 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	71.0	71.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	∅, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

## HIGH EFFICIENCY (HEAT PUMP)

ARUN1000LTE5 / ARUN1020LTE5 / ARUN1040LTE5



HP		100	102	104	
Model Name	Combination Unit	ARUN1000LTE5	ARUN1020LTE5	ARUN1040LTE5	
	Independent Unit	ARUN260LTE5 ARUN260LTE5 ARUN240LTE5 ARUN240LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5 ARUN240LTE5	ARUN260LTE5 ARUN260LTE5 ARUN260LTE5 ARUN260LTE5	
Capacity (Rated)	Cooling	kW	280.0	285.6	291.2
		kcal/h	240,800	245,600	250,400
		Btu/h	955,400	974,500	993,600
	Heating	kW	297.2	297.2	297.2
		kcal/h	255,500	255,500	255,500
		Btu/h	1,014,100	1,014,100	1,014,100
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	8	8	8	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	900 x 8	900 x 8	900 x 8
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	320 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	
Weight	Net Weight	kg x No.	276 x 4	276 x 4	276 x 4
	Shipping Weight	kg x No.	290 x 4	290 x 4	290 x 4
Sound Pressure Level	Cooling	dB(A)	71.0	71.0	71.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	∅, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV080LTE5 / JRUV100LTE5 / JRUV120LTE5 / JRUV140LTE5



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

## HIGH EFFICIENCY (COOLING ONLY)

JRUV160LTE5 / JRUV180LTE5 / JRUV200LTE5 / JRUV220LTE5



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

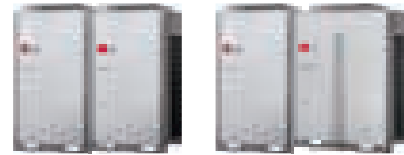
Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV240LTE5 / JRUV260LTE5 / JRUV280LTE5 / JRUV300LTE5



HP		24	26	28	30	
Model Name	Combination Unit	JRUV240LTE5	JRUV260LTE5	JRUV280LTE5	JRUV300LTE5	
	Independent Unit	JRUV120LTE5 JRUV120LTE5	JRUV140LTE5 JRUV120LTE5	JRUV140LTE5 JRUV140LTE5	JRUV160LTE5 JRUV140LTE5	
Capacity (Rated)	Cooling	kW	67.2	72.8	78.4	84.0
		kcal/h	57,800	62,600	67,400	72,200
		Btu/h	229,300	248,400	267,500	286,600
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	2	2	2	2	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	900 x 2	900 x 2	900 x 2	(1,500 x 1) + (900 x 1)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	210 x 2	210 x 2	210 x 2	(270 x 1) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)	mm x No.	(920 x 1,680 x 760) x 2	(920 x 1,680 x 760) x 2	(920 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	
Weight	Net Weight	kg x No.	174 x 2	(187 x 1) + (174 x 1)	186 x 2	(200 x 1) + (186 x 1)
	Shipping Weight	kg x No.	180 x 2	(193 x 1) + (180 x 1)	193 x 2	(208 x 1) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	62.0	62.5	63.8	63.8
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			39 (48)	42 (52)	45 (56)	49 (60)
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.  
 Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (COOLING ONLY)

JRUV320LTE5 / JRUV340LTE5 / JRUV360LTE5 / JRUV380LTE5



HP		32	34	36	38	
Model Name	Combination Unit	JRUV320LTE5	JRUV340LTE5	JRUV360LTE5	JRUV380LTE5	
	Independent Unit	JRUV160LTE5 JRUV160LTE5	JRUV200LTE5 JRUV140LTE5	JRUV220LTE5 JRUV140LTE5	JRUV220LTE5 JRUV160LTE5	
Capacity (Rated)	Cooling	kW	89.6	95.2	100.8	106.4
		kcal/h	77,000	81,900	86,700	91,500
		Btu/h	305,700	324,800	343,900	363,100
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	2	3	3	3	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 2	(1,500 x 1) + (900 x 1)	(1,500 x 1) + (900 x 1)	1,500 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 2	(270 x 1) + (210 x 1)	(270 x 1) + (210 x 1)	270 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 1 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2	
Weight	Net Weight	kg x No.	200 x 2	(257 x 1) + (186 x 1)	(257 x 1) + (186 x 1)	(257 x 1) + (200 x 1)
	Shipping Weight	kg x No.	208 x 2	(265 x 1) + (193 x 1)	(265 x 1) + (193 x 1)	(265 x 1) + (208 x 1)
Sound Pressure Level	Cooling	dB(A)	63.8	64.1	65.0	65.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			52 (64)	55 (64)	58 (64)	61 (64)
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	160%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.  
 Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.



# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV400LTE5 / JRUV420LTE5 / JRUV440LTE5 / JRUV460LTE5



HP		40	42	44	46	
Model Name	Combination Unit	JRUV400LTE5	JRUV420LTE5	JRUV440LTE5	JRUV460LTE5	
	Independent Unit	JRUV220LTE5 JRUV180LTE5	JRUV220LTE5 JRUV200LTE5	JRUV220LTE5 JRUV220LTE5	JRUV160LTE5 JRUV160LTE5 JRUV140LTE5	
Capacity (Rated)	Cooling	kW	112.0	117.6	123.2	128.8
		kcal/h	96,300	101,100	105,900	110,700
		Btu/h	382,200	401,300	420,400	439,500
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	4	4	4	3	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 2	1,500 x 2	1,500 x 2	(1,500 x 2) + (900 x 1)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 2	270 x 2	270 x 2	(270 x 2) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1
Weight	Net Weight	kg x No.	(257 x 1) + (247 x 1)	257 x 2	257 x 2	(200 x 2) + (186 x 1)
	Shipping Weight	kg x No.	(265 x 1) + (255 x 1)	265 x 2	265 x 2	(208 x 2) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	65.0	65.6
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			160%	160%	160%	130%

## HIGH EFFICIENCY (COOLING ONLY)

JRUV480LTE5  
JRUV500LTE5  
JRUV520LTE5  
JRUV540LTE5



HP		48	50	52	54	
Model Name	Combination Unit	JRUV480LTE5	JRUV500LTE5	JRUV520LTE5	JRUV540LTE5	
	Independent Unit	JRUV160LTE5 JRUV160LTE5 JRUV160LTE5	JRUV220LTE5 JRUV140LTE5 JRUV140LTE5	JRUV220LTE5 JRUV160LTE5 JRUV140LTE5	JRUV220LTE5 JRUV160LTE5 JRUV160LTE5	
Capacity (Rated)	Cooling	kW	151.2	156.8	162.4	151.2
		kcal/h	130,000	134,800	139,600	130,000
		Btu/h	515,900	535,000	554,100	515,900
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	
	Number of Compressor	3	4	4	4	
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 3	(1,500 x 1) + (900 x 2)	(1,500 x 2) + (900 x 1)	1,500 x 3
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 3	(270 x 1) + (210 x 2)	(270 x 2) + (210 x 1)	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 1	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 2	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	198 x 3	(257 x 1) + (187 x 2)	(257 x 1) + (198 x 1) + (187 x 1)	(257 x 1) + (200 x 2)
	Shipping Weight	kg x No.	206 x 3	(265 x 1) + (193 x 2)	(265 x 1) + (206 x 1) + (193 x 1)	(265 x 1) + (208 x 2)
Sound Pressure Level	Cooling	dB(A)	66.0	66.0	66.0	66.5
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.  
 Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design.  
 Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV560LTE5 / JRUV580LTE5 / JRUV600LTE5 / JRUV620LTE5



HP			56	58	60	62
Model Name	Combination Unit		JRUV560LTE5	JRUV580LTE5	JRUV600LTE5	JRUV620LTE5
	Independent Unit		JRUV220LTE5 JRUV200LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV160LTE5	JRUV220LTE5 JRUV220LTE5 JRUV180LTE5
Capacity (Rated)	Cooling	kW	156.8	162.4	168.0	173.6
		kcal/h	134,800	139,600	144,500	149,300
		Btu/h	535,000	554,100	573,200	592,300
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		5	5	5	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 2) + (900 x 1)	(1,500 x 2) + (900 x 1)	1,500 x 3	1,500 x 3
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 2) + (210 x 1)	(270 x 2) + (210 x 1)	270 x 3	270 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	44.5 (1-3/4)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (186 x 1)	(257 x 2) + (186 x 1)	(257 x 2) + (200 x 1)	(257 x 2) + (247 x 1)
	Shipping Weight	kg x No.	(265 x 2) + (193 x 1)	(265 x 2) + (193 x 1)	(265 x 2) + (208 x 1)	(265 x 2) + (255 x 1)
Sound Pressure Level	Cooling	dB(A)	66.5	66.8	66.8	67.3
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

## HIGH EFFICIENCY (COOLING ONLY)

JRUV640LTE5  
JRUV660LTE5  
JRUV680LTE5  
JRUV700LTE5



HP			64	66	68	70
Model Name	Combination Unit		JRUV640LTE5	JRUV660LTE5	JRUV680LTE5	JRUV700LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV200LTE5	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5	JRUV220LTE5 JRUV160LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV140LTE5 JRUV120LTE5
Capacity (Rated)	Cooling	kW	179.2	184.8	190.4	196.0
		kcal/h	154,100	158,900	163,700	168,500
		Btu/h	611,500	630,600	649,700	668,800
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	5	6
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	1,500 x 3	1,500 x 3	(900 x 1) + (1,500 x 3)	(1,500 x 2) + (900 x 2)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 3	270 x 3	(270 x 3) + (210 x 1)	270 x 2 + (210 x 2)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
	Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	44.5 (1-3/4)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 3 + (920 x 1,680 x 760) x 1	(1,240 x 1,680 x 760) x 2 + (920 x 1,680 x 760) x 2
Weight	Net Weight	kg x No.	257 x 3	257 x 3	(257 x 1) + (200 x 2) + (186 x 1)	(257 x 2) + (186 x 1) + (177 x 1)
	Shipping Weight	kg x No.	265 x 3	265 x 3	(265 x 1) + (208 x 2) + (193 x 1)	(265 x 2) + (193 x 1) + (184 x 1)
Sound Pressure Level	Cooling	dB(A)	67.5	67.5	67.5	67.5
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV720LTE5  
JRUV740LTE5  
JRUV760LTE5  
JRUV780LTE5



HP			72	74	76	78
Model Name	Combination Unit		JRUV720LTE5	JRUV740LTE5	JRUV760LTE5	JRUV780LTE5
	Independent Unit		JRUV220LTE5 JRUV220LTE5 JRUV140LTE5 JRUV140LTE5	JRUV220LTE5 JRUV220LTE5 JRUV160LTE5 JRUV160LTE5	JRUV220LTE5 JRUV220LTE5 JRUV160LTE5 JRUV160LTE5	JRUV220LTE5 JRUV220LTE5 JRUV200LTE5 JRUV180LTE5
Capacity (Rated)	Cooling	kW	224.0	229.6	235.2	240.8
		kcal/h	192,600	197,400	202,200	207,100
		Btu/h	764,300	783,400	802,500	821,600
	Heating	kW	-	-	-	-
		kcal/h	-	-	-	-
		Btu/h	-	-	-	-
Exterior	Casing Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	
Heat Exchanger		Black Fin	Black Fin	Black Fin	Black Fin	
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Number of Compressor		6	6	6	7
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	(1,500 x 2) + (900 x 2)	(1,500 x 3) + (900 x 1)	1,500 x 4	(1,500 x 3) + (900 x 1)
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(270 x 2) + (210 x 2)	(270 x 3) + (210 x 1)	270 x 4	(270 x 3) + (210 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
Dimensions (W x H x D)		mm x No.	(920 x 1,680 x 760) x 2 + (1,240 x 1,680 x 760) x 2	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3	(1,240 x 1,680 x 760) x 4	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 3
Weight	Net Weight	kg x No.	(257 x 2) + (187 x 2)	(257 x 2) + (198 x 1) + (187 x 1)	(257 x 2) + (198 x 2)	(257 x 3) + (187 x 1)
	Shipping Weight	kg x No.	(265 x 2) + (193 x 2)	(265 x 2) + (206 x 1) + (193 x 1)	(265 x 2) + (206 x 2)	(265 x 3) + (193 x 1)
Sound Pressure Level	Cooling	dB(A)	67.8	67.8	68.0	68.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			64	64	64	64
Maximum Indoor Unit Combination Ratio*			130%	130%	130%	130%

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

## HIGH EFFICIENCY (COOLING ONLY)

JRUV800LTE5  
JRUV820LTE5  
JRUV840LTE5



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)  
 \* The recommended ratio is 130%.

# MULTI V 5

## HIGH EFFICIENCY (COOLING ONLY)

JRUV860LTE5 / JRUV880LTE5



HP		86		88	
Model Name	Combination Unit	JRUV860LTE5		JRUV880LTE5	
	Independent Unit	JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV220LTE5		JRUV220LTE5 JRUV220LTE5 JRUV220LTE5 JRUV220LTE5	
Capacity (Rated)	Cooling	kW	240.8	246.4	
		kcal/h	207,100	211,900	
	Btu/h	821,600	840,800		
	Heating	kW	-	-	
kcal/h		-	-		
Btu/h	-	-			
Exterior	Casing Color	Warm Gray / Dawn Gray		Warm Gray / Dawn Gray	
	Heat Exchanger	Black Fin		Black Fin	
Compressor	Type	LG BLDC Inverter Scroll		LG BLDC Inverter Scroll	
	Starting Method	DC Inverter Starting		DC Inverter Starting	
	Number of Compressor	8		8	
Fan	Type	Axial Flow Fan		Axial Flow Fan	
	Motor Output x Number	W x No.	1,500 x 4	1,500 x 4	
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	270 x 4	270 x 4	
	Drive	DC INVERTER		DC INVERTER	
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)	
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	
	Dimensions (W x H x D)	mm x No.	(1,240 x 1,680 x 760) x 4	(1,240 x 1,680 x 760) x 4	
Weight	Net Weight	kg x No.	257 x 4	257 x 4	
	Shipping Weight	kg x No.	265 x 4	265 x 4	
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	
Refrigerant	Refrigerant Name	R410A		R410A	
	Control	Electronic Expansion Valve		Electronic Expansion Valve	
Power Supply		∅, V, Hz	3, 380-415, 50	3, 380-415, 50	
Number of maximum connectable indoor units		64		64	
Maximum Indoor Unit Combination Ratio*		130%		130%	

# NOTE

- Note :
1. Due to our policy of innovation some specifications may be changed without notification.
  2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
  3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.
  4. Performances are based on the following conditions :
    - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
    - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.
  5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)
- \* The recommended ratio is 130%.

# MULTI V™ S

Suitable for Residences and Small Offices

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



Energy savings



Reliability



Convenience

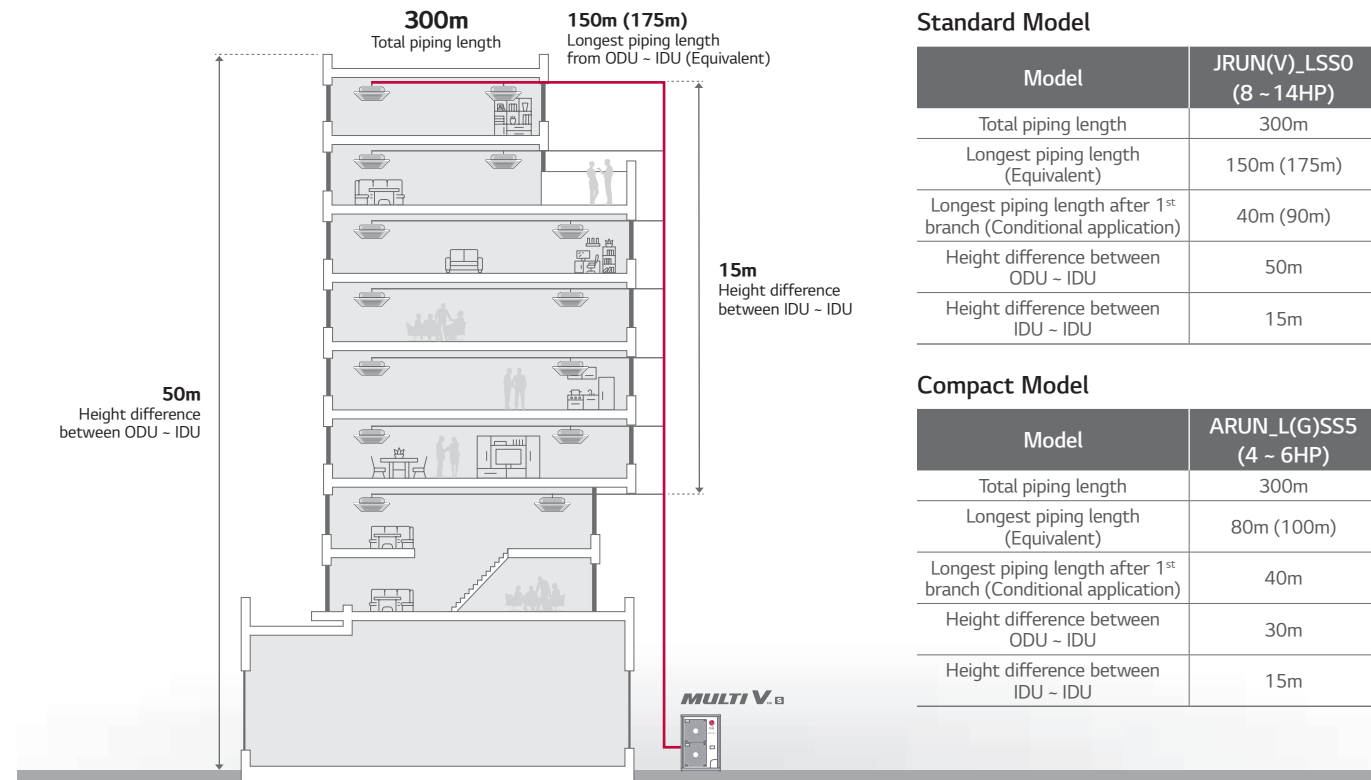


Compact yet powerful VRF for premium residences and small offices



# MULTI V S

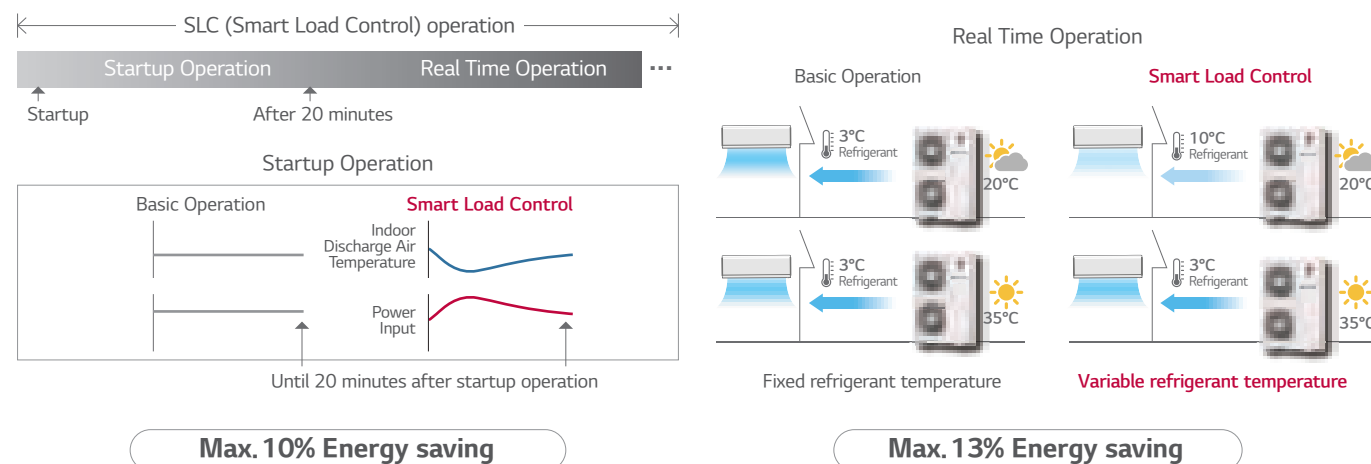
## Piping Length



## Smart Load Control Applied

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

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

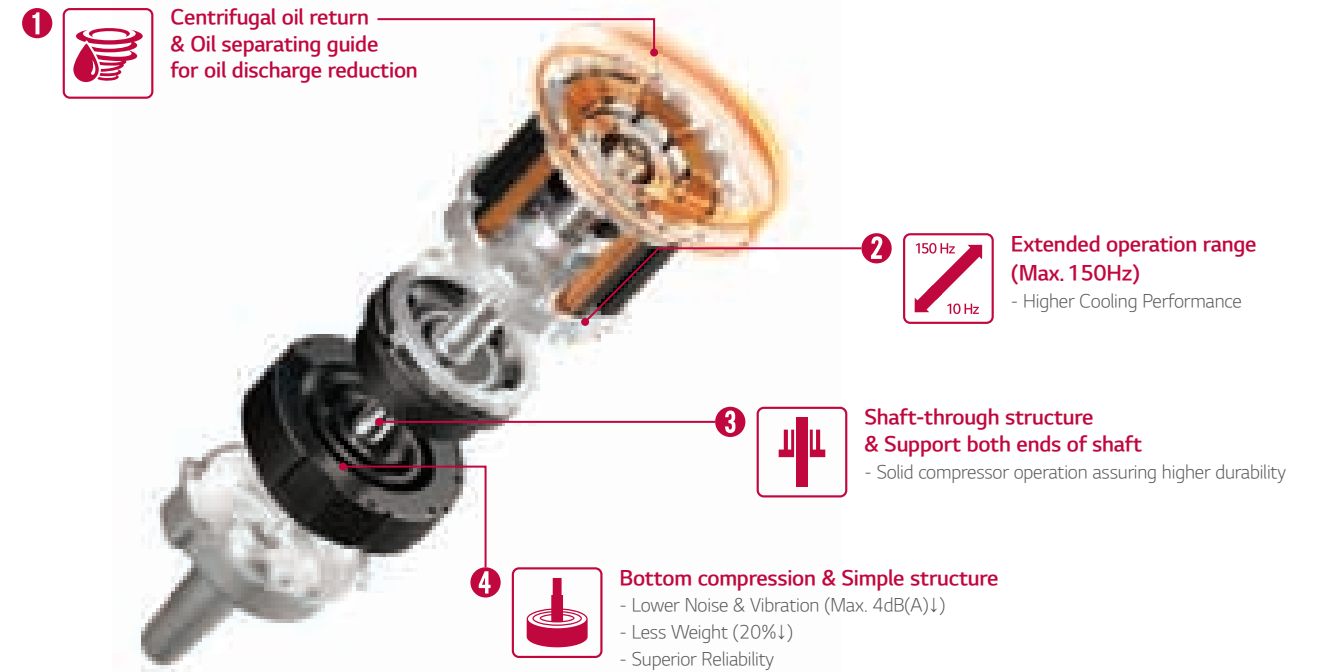


※ Indoor air discharge temperature  
 - Energy efficiency increased by 3-step Smart Load Control during start-up phase.  
 - Discharge air temperature adjusted according to outdoor and indoor temperature.  
 - Comfort level in cooling / heating operations ensured.

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

## R1 Compressor™

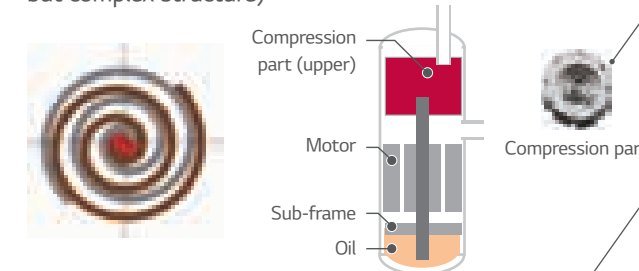
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



## Conventional Compressor

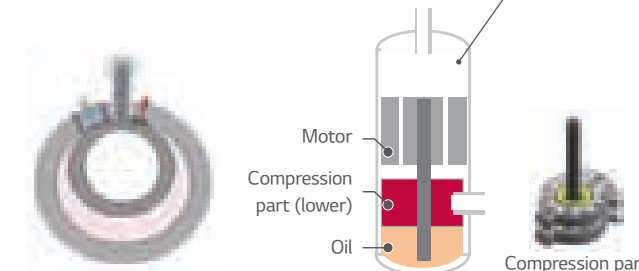
### Scroll

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



### Rotary

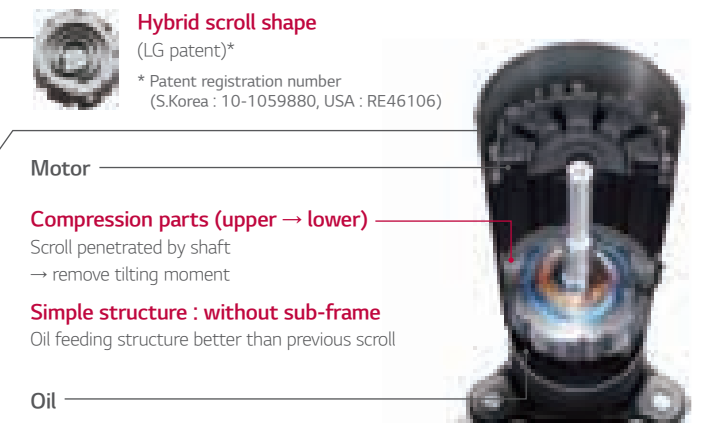
Simple structure (Compression per 1 rotation)



## R1 Compressor™

### Revolutionary Scroll

High efficiency / Stable & Simple structure



Extended operation (Max. 150Hz)  
 Low noise & Vibration (Max. 4dB(A)↓)  
 Less weight (20%↓)

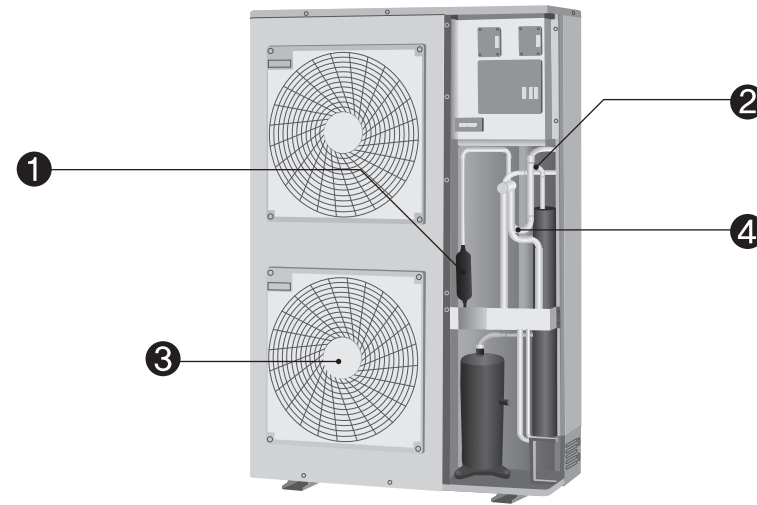
**Compact model**  
 (Size 40%↓, Weight 25%↓)

# MULTI V S

## High Reliability of Refrigerant Components

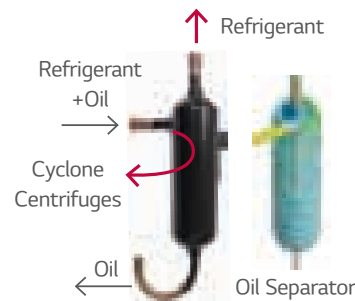
Superior Performance and Strong Durable Components are developed by LG's technologies

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



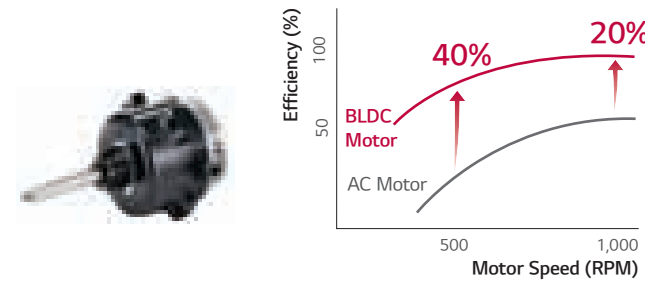
### 1 Cyclonic Oil Separator

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



### 3 BLDC Fan Motor

- The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds.



### 2 Large Volume Accumulator

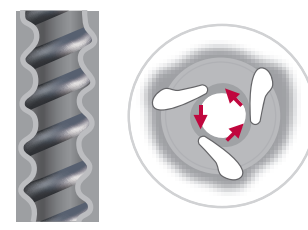
- Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional).
- Prevents the liquid refrigerant entering the compressor suction.
- Maximize efficiency by optimal amount of refrigerant.
- Protect compressor break down and Increase life time.



### 4 Double Sub-cool Interchanger

- Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size.
- Long pipe is possible (up to\* 175m) and high elevation (up to\* 50m).
- Reduction of indoor refrigerant noise level.

\* Based on equivalent pipe length.



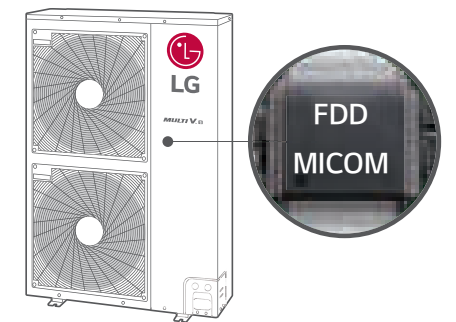
Double Sub-cool Interchanger

## Upgraded Fault Detection and Diagnosis

Easy and convenient maintenance with self-diagnosis

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

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



## Heat Exchanger with Black Fin for Corrosion Resistance

Strong Durability against high salinity and heavily polluted air

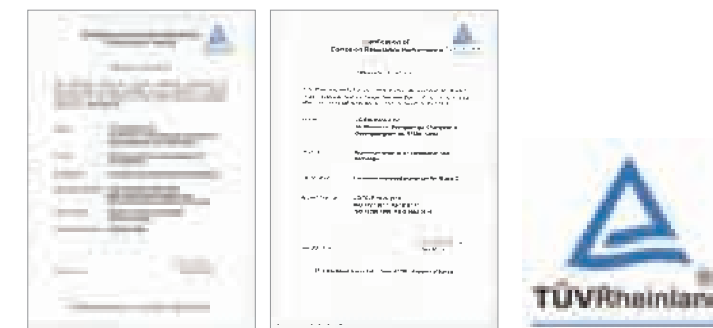
LG's exclusive Black Fin is applied on the heat exchanger of MULTI V S in order to perform even in corrosive environments. The strong protection from various corrosive external environments such as seaside with high salt contamination and industrial cities with severe air pollution caused by fumes from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



### Corrosion Resistance Proven by Verified Tests

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

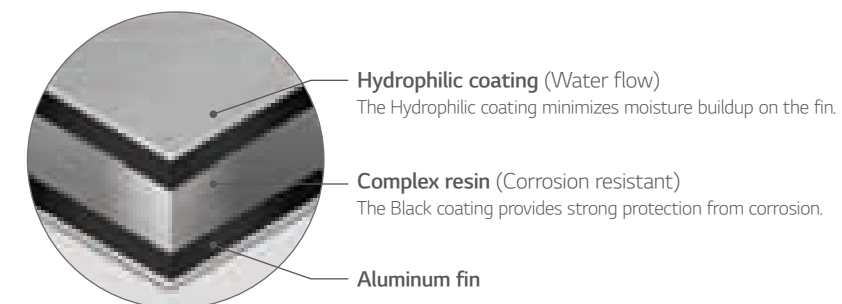
#### Verified protection



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

### Enhanced Coating Layers

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



# MULTI V S

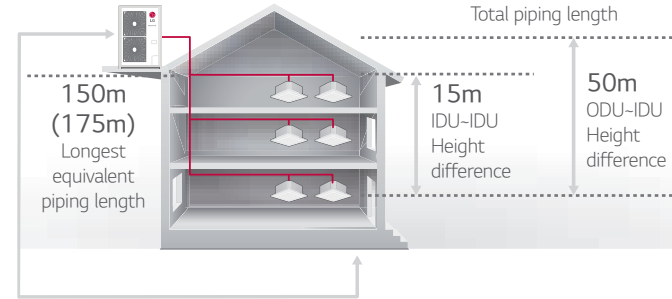
## Sufficient Pipe Length Limit

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

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

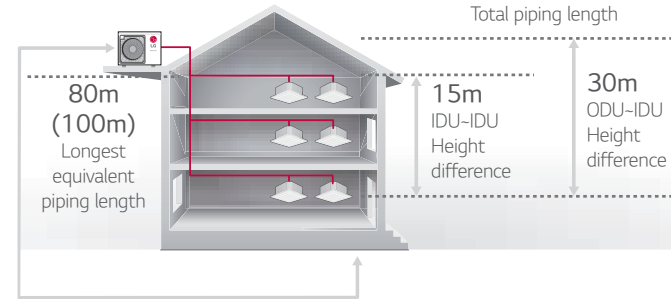
### Standard Model Piping Capabilities

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



### Compact Model Piping Capabilities

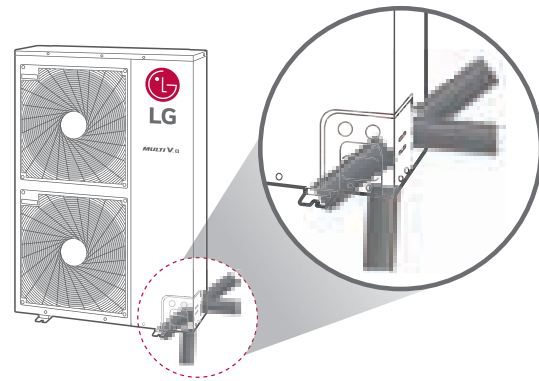
(ARUN Models)



※ JRUV\*\*\*GSD5 5/6 Models  
 - Total Pipe Length : 100 m  
 - Longest Pipe length : 50 m  
 - ODU to IDU Height Difference : 15 m

## 4 Way Piping

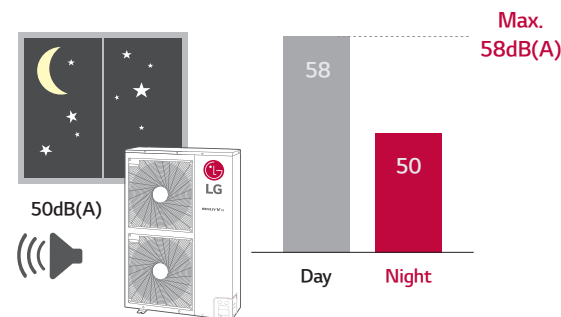
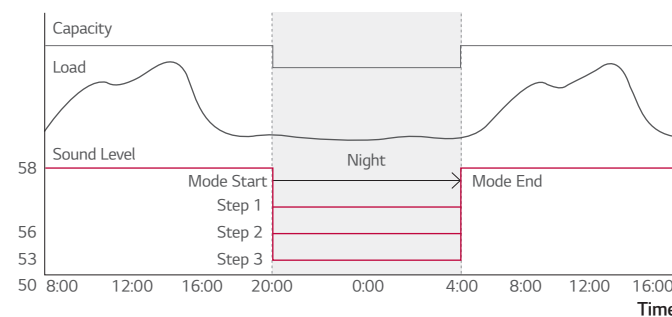
Free design and installation by 4 way piping



## Low Noise Operation

Free from noise at any time with low noise operation function

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

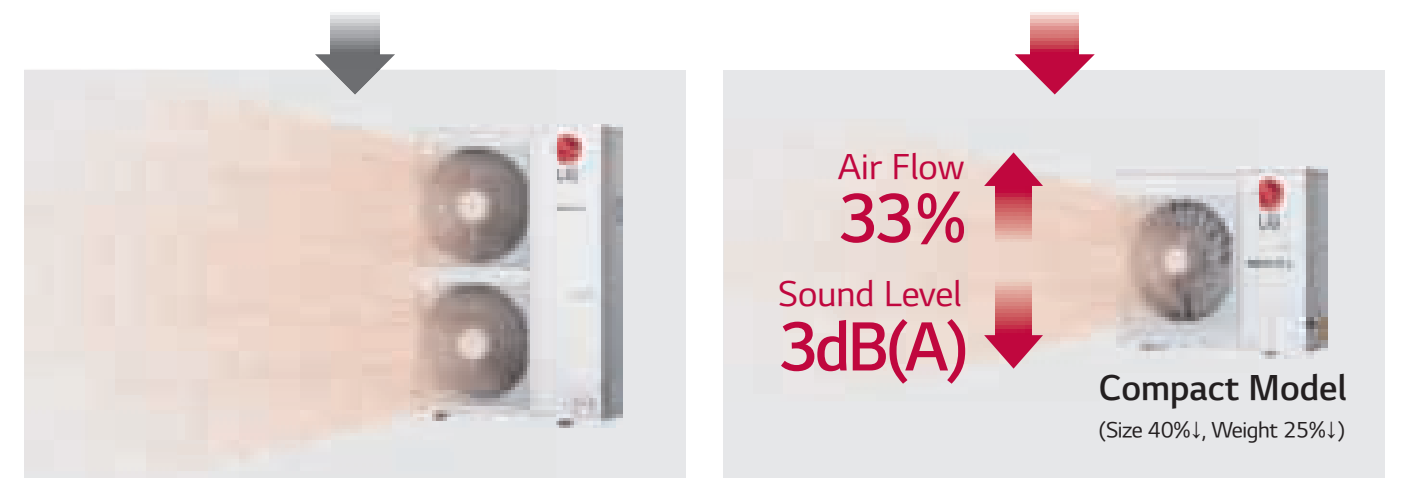


※ Normal mode noise level (28kW) : 58dB(A)  
 ※ Night 3 step noise level (28kW) : 56dB(A), 53dB(A), 50dB(A)  
 ※ Sound pressure tested by following conditions : 1m distance / 1.5m height

## Biomimetic Fan

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

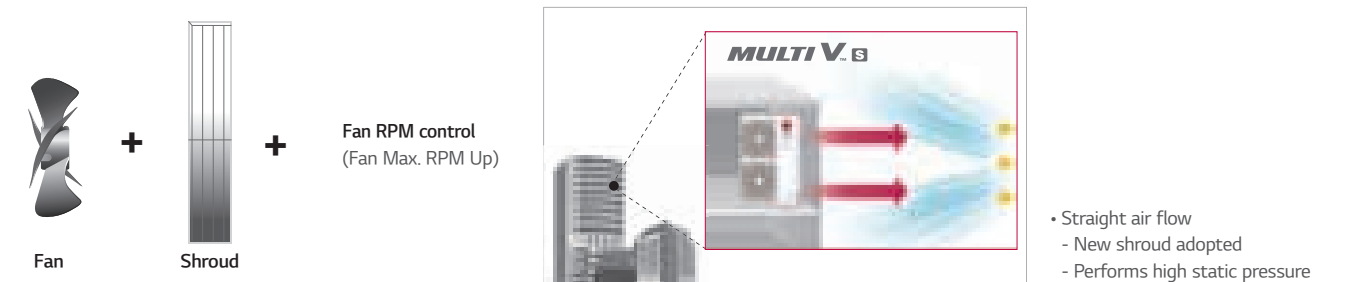
Previous	New
<ul style="list-style-type: none"> <li>• General fan design</li> <li>• Sound pressure level 53.1dB(A) (110CMM / 2 fan)</li> <li>• Max. Air flow up to 60CMM (800RPM / 124W Motor x 1EA)</li> </ul>	<ul style="list-style-type: none"> <li>• Biomimetic fan design</li> <li>• Sound pressure level 49.6dB(A) (110CMM / 2 fan)</li> <li>• Max. Air flow up to 86CMM* (1,000RPM / 200W Motor x 1EA)</li> </ul>



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

## Fan RPM Control

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



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

# MULTI V S

## COMPACT MODEL

### HEAT PUMP (1 PHASE)

ARUN040GSS5 / ARUN050GSS5 / ARUN060GSS5



HP			4	5	6
Model Name	Combination Unit		ARUN040GSS5	ARUN050GSS5	ARUN060GSS5
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
		kcal/h	10,400	12,000	13,300
		Btu/h	41,300	47,800	52,900
	Heating (Rated)	kW	12.1	16.0	18.0
		kcal/h	10,400	13,800	15,500
		Btu/h	41,300	54,600	61,400
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m <sup>3</sup> /min	60	80	80
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	Net		mm x No. (950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1
Net Weight			kg x No. 64.7 x 1	72 x 1	72 x 1
Sound Pressure Level	Cooling	dB(A)	50	51	52
Communication Cable			mm <sup>2</sup> x No. (VCTF-SB) 1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Number of maximum connectable indoor units			8	10	13

### HEAT PUMP (3 PHASE)

ARUN040LSS5 / ARUN050LSS5 / ARUN060LSS5



HP			4	5	6
Model Name	Combination Unit		ARUN040LSS5	ARUN050LSS5	ARUN060LSS5
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
		kcal/h	10,400	12,000	13,300
		Btu/h	41,300	47,800	52,900
	Heating (Rated)	kW	12.1	16.0	18.0
		kcal/h	10,400	13,800	15,500
		Btu/h	41,300	54,600	61,400
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m <sup>3</sup> /min	60	80	80
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	Net		mm x No. (950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(950 x 834 x 330) x 1
Net Weight			kg x No. 64.7 x 1	72 x 1	72 x 1
Sound Pressure Level	Cooling	dB(A)	50	51	52
Communication Cable			mm <sup>2</sup> x No. (VCTF-SB) 1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			8	10	13

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

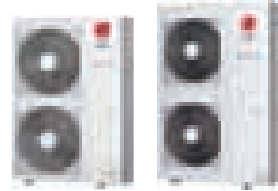
Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

# MULTI V S

## STANDARD MODEL

### HEAT PUMP (3 PHASE)

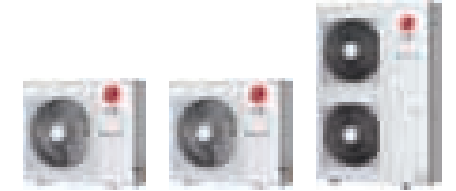
JRUN080LSS0 / JRUN100LSS0 / JRUN120LSS0



HP			8	10	12
Model Name	Combination Unit		JRUN080LSS0	JRUN100LSS0	JRUN120LSS0
Capacity	Cooling(Rated)	kW	22.4	28.0	33.6
		kcal/h	19,300	24,100	28,900
		Btu/h	76,400	95,900	114,700
	Heating(Rated)	kW	25.2	31.5	37.8
		kcal/h	21,700	27,100	32,500
		Btu/h	86,000	107,500	129,000
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll	LG BLDC Inverter Scroll	LG BLDC Inverter Scroll
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m <sup>3</sup> /min	140	190	190
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1 1/8)
Operation Range	Cooling	°C (°F)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)	-5 - 53 (23 - 127)
	Heating	°C (°F)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)	-20 - 18 (-4 - 64)
Dimensions (W x H x D)	Net		mm x No. (950 x 1,380 x 330) x 1	(1,090 x 1,625 x 380) x 1	(1,090 x 1,625 x 380) x 1
Net Weight	kg x No.		115 x 1	144 x 1	157 x 1
Sound Pressure Level	Cooling	dB(A)	57	58	60
Communication Cable	mm <sup>2</sup> x No. (VCTF-SB)		1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maximum connectable indoor units			13	16	20

### COOLING ONLY (1, 3 PHASE)

JRUV050GSD5 / JRUV060GSD5 / JRUV140LSS0



HP			5	6	14
Model Name	Combination Unit		JRUV050GSD5	JRUV060GSD5	JRUV140LSS0
Capacity	Cooling (Rated)	kW	14.5	17.0	38.0
		kcal/h	12,470	14,620	32,700
		Btu/h	49,500	58,000	129,700
	Heating (Rated)	kW	-	-	-
		kcal/h	-	-	-
		Btu/h	-	-	-
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
Heat Exchanger	Type		Black Fin	Black Fin	Black Fin
Compressor	Type		LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll (R1)	LG BLDC Inverter Scroll
	Number of Compressor		1	1	1
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate (High)	m <sup>3</sup> /min	70	70	190
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	28.58 (1-1/8)
Operation Range	Cooling	°C (°F)	0 - 50	0 - 50	-5 - 53 (23 - 127)
Dimensions (W x H x D)	mm x No.		(950 x 834 x 330) x 1	(950 x 834 x 330) x 1	(1,090 x 1,625 x 380) x 1
Net Weight	kg x No.		65.5 x 1	65.5 x 1	157 x 1
Sound Pressure Level	Cooling	dB(A)	56	56	63
Communication Cable	mm <sup>2</sup> x No. (VCTF-SB)		1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	3, 380-415, 50
Number of maximum connectable indoor units			8	9	23

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.  
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.  
 4. Performances are based on the following conditions :  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.  
 5. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)



# MULTI V™ WATER5

## Highly efficient & Economical water source system

- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 168kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Outdoor unit installed indoor



**Economical,  
efficient system**



Energy savings



Space savings

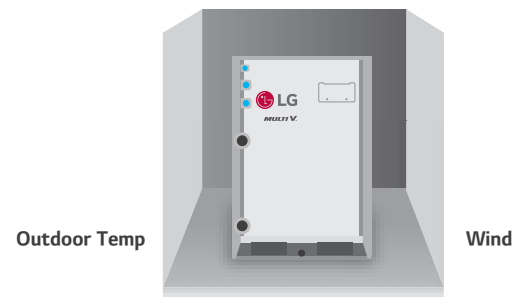


Convenient installation

# MULTI V WATER 5

## High Efficiency System Regardless of External Conditions

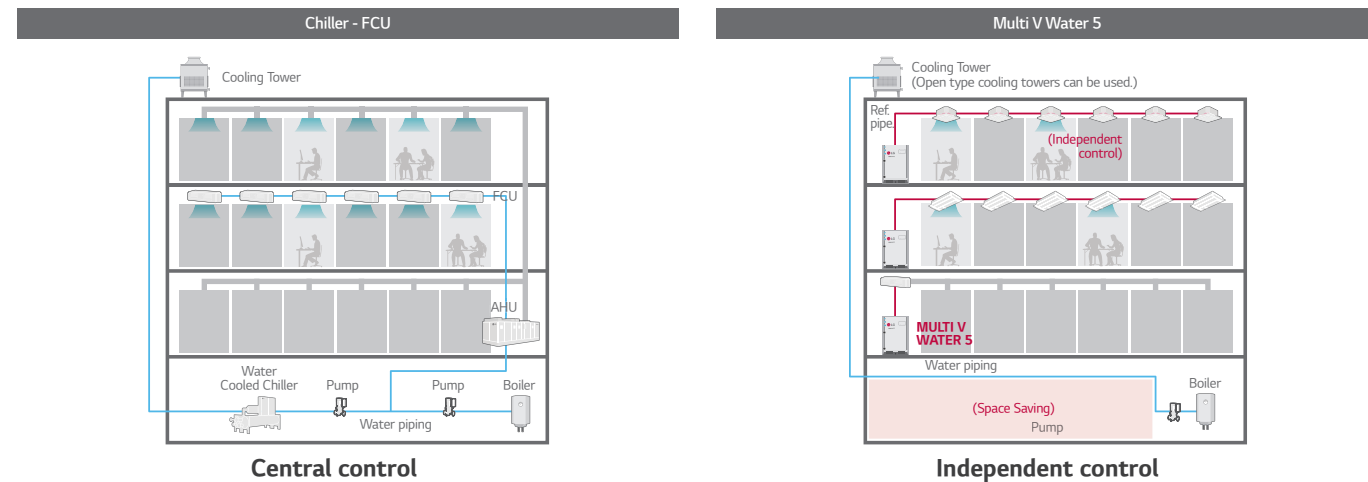
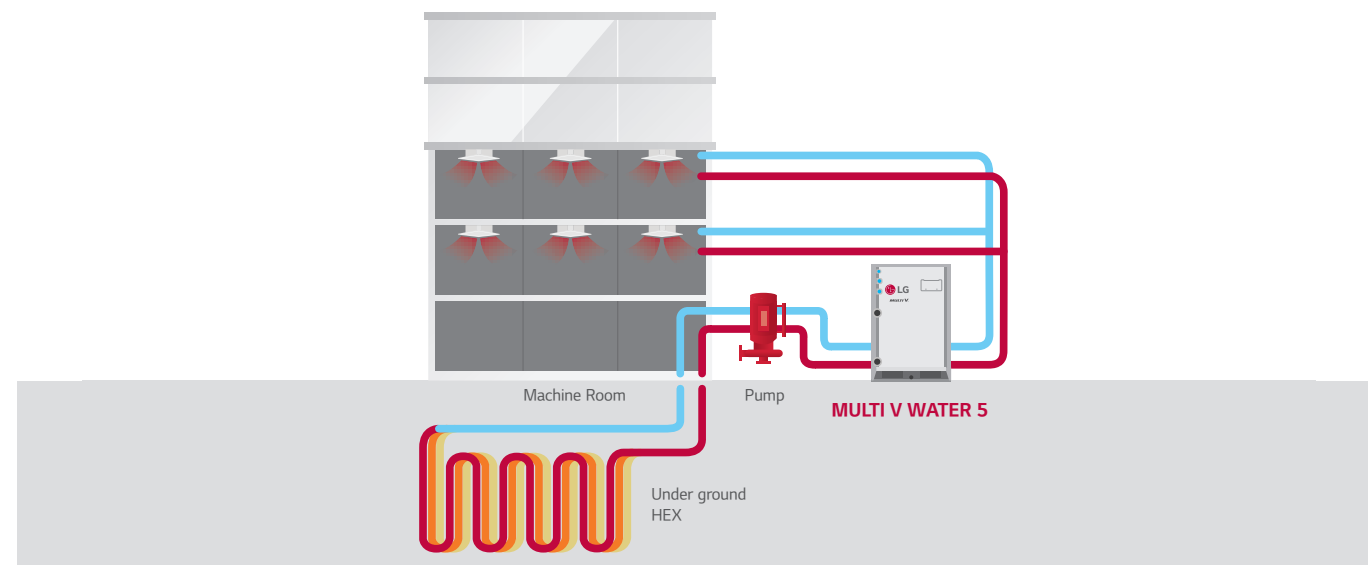
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER 5 is the optimal solution.



## MULTI V WATER 5 System for Geothermal Applications

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

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

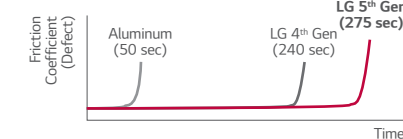


## Economical, Highly Efficient System

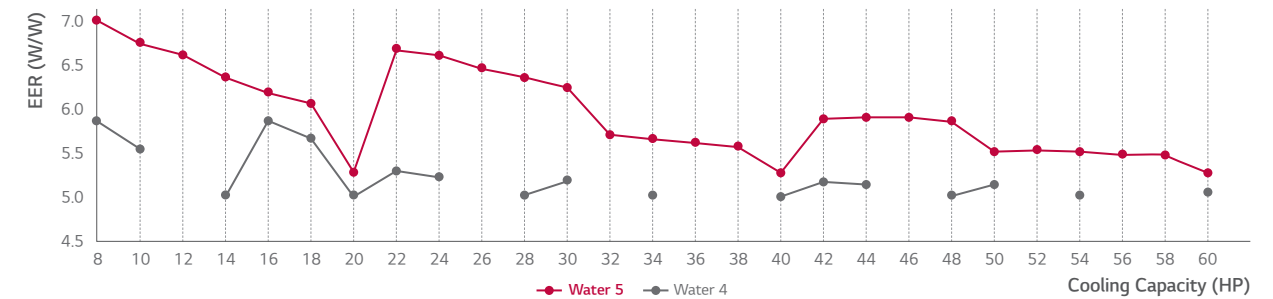
LG's key technologies are integrated to inverter compressor

With 5th generation inverter compressor, the Multi V Water 5 boasts top-class energy efficiency.

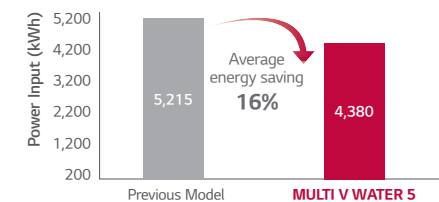
- 6 By-pass Valve**
  - Maximize part load efficiency through 6 By-pass Valve
  - High pressure loss reduction in part load operation
- Enhanced Bearing Technology**
  - High lubricity PEEK (Polyether ether keHPE) bearing → Outer bearing
  - Compact, less vibration and bearing loading
  - Increased bearing performance in oil-less operation
- Extended Compressor Speed 20Hz ~ 150Hz**
  - Rapid operation response
  - Capable of reaching required temperature quickly
  - Increase part load efficiency
- HiPOR™ (High Pressure Oil Return)**
  - Eliminating loss in suction gas by returning oil directly to compressor
  - Resolve compressor efficiency loss caused by oil return
- Active Oil Control (Oil Level Sensor)**
  - Oil recovery operation occurs only when required
  - Enhanced compressor reliability & continuous heating
  - Oil distribution between compressors



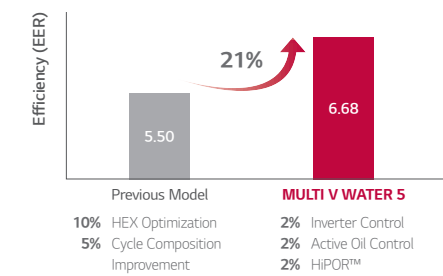
### EER Comparison



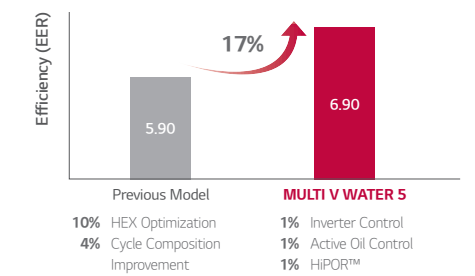
### Economical, Highly Efficient System



### Energy Efficiency Ratio (Cooling)



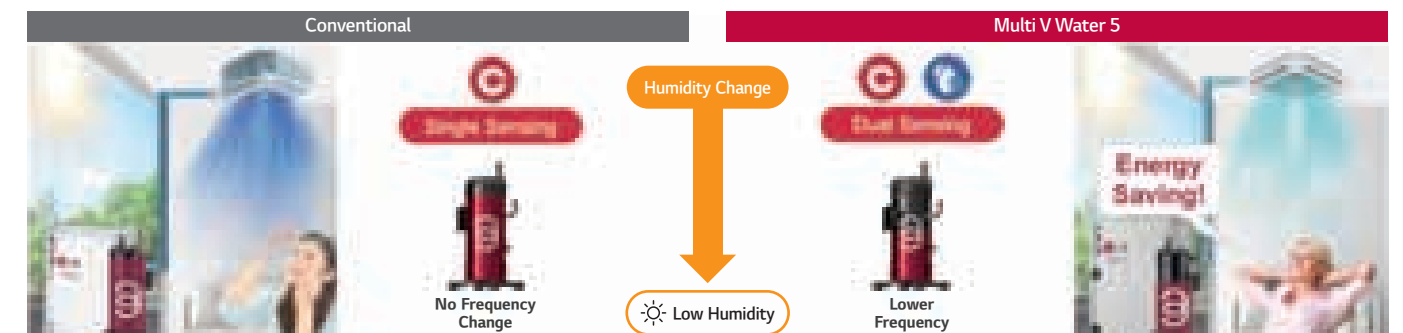
### Coefficient of Performance (Heating)



※ Comparison between 10HP (28kW)

## Dual Sensing Control

Multi V Water 5 can operate more appropriately in low humidity conditions by referring to the indoor temperature and humidity.



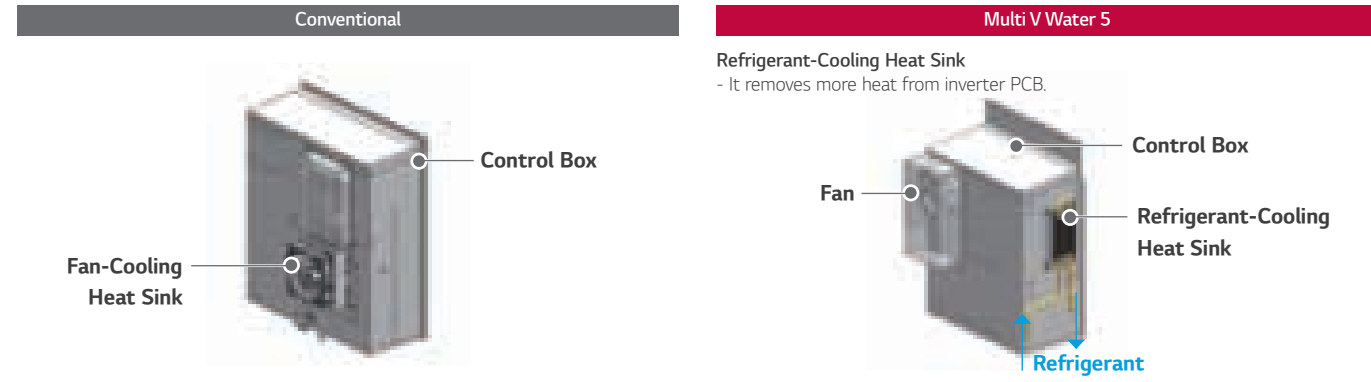
※ This function requires the indoor unit to be equipped with a humidity sensor; the CRC1 remote controller or the Standard III remote controller.

OUTDOOR UNITS  
INDOOR UNITS  
HOT WATER SOLUTION  
VENTILATION SOLUTIONS  
CONTROL SOLUTIONS  
ACCESSORIES

# MULTI V WATER 5

## Refrigerant Liquid-cooled Inverter Drive

Multi V Water 5 can remove heat from inverter PCB through Refrigerant-Cooling Heat Sink



## Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 60HP (168kW) by combination.

v	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
kW	22.4	28	33.6	39.2	44.8	50.4	56	61.6	67.2	72.8	78.4	84	89.6	95.2	100.8	106.4	112	117.6	123.2	128.8	134.4	140	145.6	151.2	156.8	162.4	168

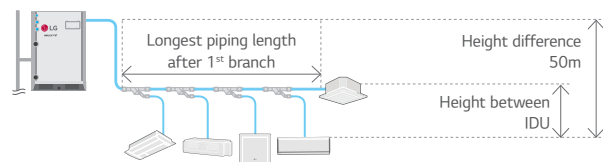
**LG**

1 Unit      2 Units      3 Units

## Longest Piping Length

Sufficient pipes length limitation in design and installation for various buildings

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

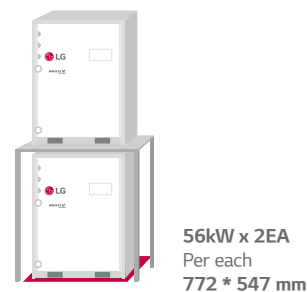


Total Piping Length	300m (500m)
Actual longest piping length (Equivalent)	175m (225m)
Longest piping length after 1 <sup>st</sup> branch (Conditional application)	40m (90m)
Height difference between ODU - IDU	50m
Height difference between IDU - IDU	40m

## Compact Size

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

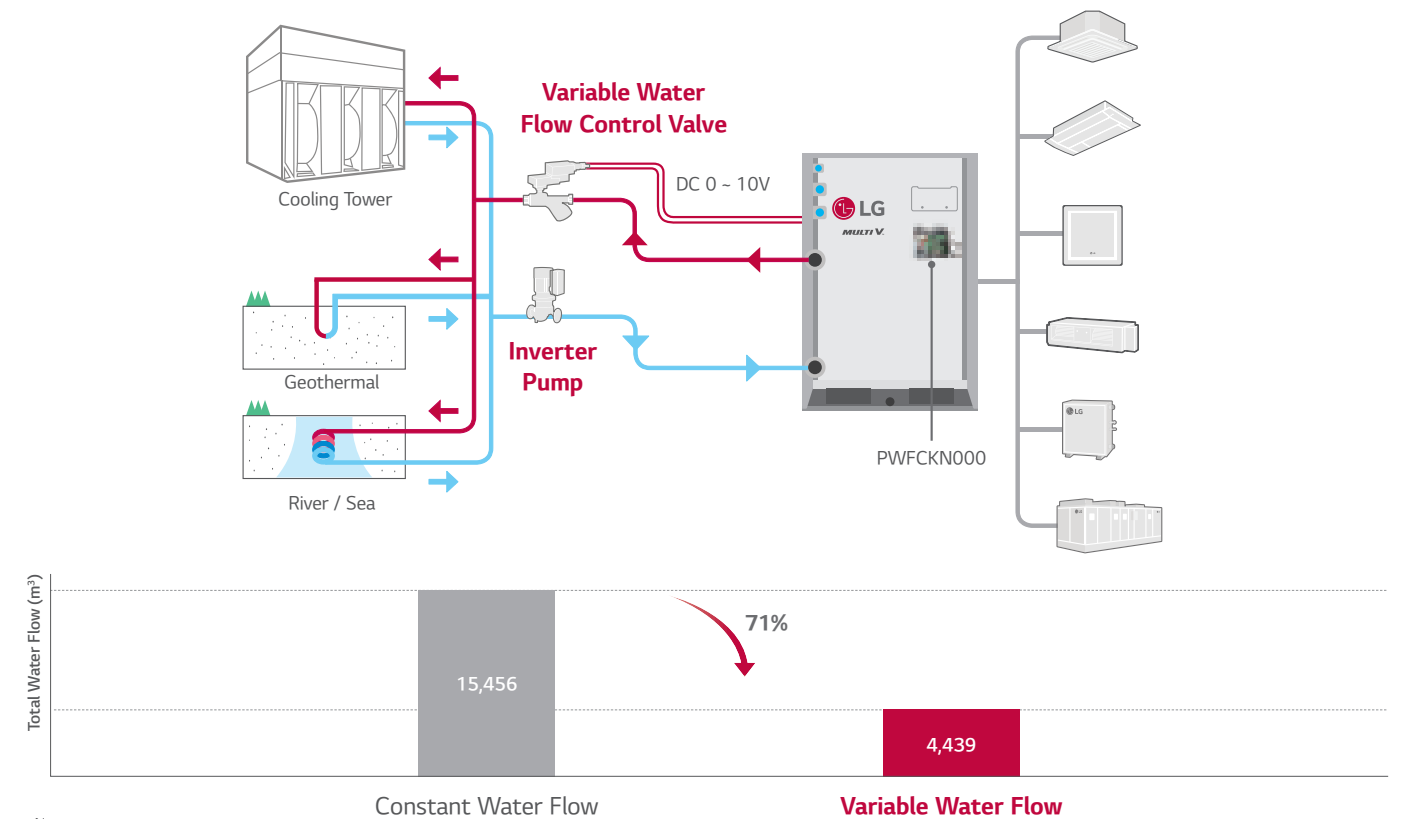
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.



## Variable Water Flow Control (OPTION)

In support of green building initiatives

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



Note  
1. Location : Paris, France  
2. Office, 68,000m<sup>2</sup>  
3. Operation time : 1,344 hours (Cooling period)

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

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

### 10 years energy cost (\$)



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

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

# MULTI V WATER 5

## HEAT RECOVERY & HEAT PUMP

ARWM080LAS5 / ARWM100LAS5 / ARWM120LAS5



HP			8	10	12
Model Name	Combination Unit		ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
	Independent Unit (1)		ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
	Independent Unit (2)		-	-	-
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
		Btu/h	76,400	95,500	114,600
	Heating (Rated)	kW	25.2	31.5	37.8
		Btu/h	86,000	107,500	129,000
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	10.6	15.9	22.1
	Rated Water Flow	LPM	77	96	115
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FVC68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	3,400	3,400	3,400
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø19.05 (3/4)	Ø22.22 (7/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø22.22 (7/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547	
Dimensions (W x H x D) - Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645	
Net Weight	kg	149 x 1	149 x 1	149 x 1	
Shipping Weight	kg	157 x 1	157 x 1	157 x 1	
Sound Pressure Level	Cooling / Heating	dB(A)	45.0 / 48.0	48.0 / 48.0	48.0 / 51.0
Sound Power Level	Cooling / Heating	dB(A)	57.0 / 60.0	60.0 / 60.0	60.0 / 63.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory		3.5	3.5	3.5
	t-CO <sub>2</sub> eq		-	7.306	7.306
	Control		-	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			13 (20)	16 (25)	20 (30)

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

## HEAT RECOVERY & HEAT PUMP

ARWM140LAS5 / ARWM160LAS5 / ARWM180LAS5



HP			14	16	18
Model Name	Combination Unit		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (1)		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (2)		-	-	-
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	39.2	44.8	50.4
		Btu/h	133,800	152,900	172,000
	Heating (Rated)	kW	44.1	50.4	56.7
		Btu/h	150,500	172,000	193,500
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.6	37.7	24.6
	Rated Water Flow	LPM	135	154	173
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	3,400	3,400	3,400
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.22 (7/8)	Ø22.22 (7/8)	Ø22.22 (7/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547	
Dimensions (W x H x D) - Shipping	mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645	
Net Weight	kg	149 x 1	149 x 1	158 x 1	
Shipping Weight	kg	157 x 1	157 x 1	166 x 1	
Sound Pressure Level	Cooling / Heating	dB(A)	52.0 / 53.0	52.0 / 56.0	54.0 / 57.0
Sound Power Level	Cooling / Heating	dB(A)	64.0 / 65.0	64.0 / 68.0	66.0 / 69.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory		3.5	3.5	4.5
	t-CO <sub>2</sub> eq		-	7.306	9.394
	Control		-	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			23 (35)	26 (40)	29 (45)

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

# MULTI V WATER 5

## HEAT RECOVERY & HEAT PUMP

ARWM200LAS5 / ARWM220LAS5 / ARWM240LAS5



HP			20	22	24
Model Name	Combination Unit		ARWM200LAS5	ARWM220LAS5	ARWM240LAS5
	Independent Unit (1)		ARWM200LAS5	ARWM120LAS5	ARWM120LAS5
	Independent Unit (2)		-	ARWM100LAS5	ARWM120LAS5
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	56.0	61.6	67.2
		Btu/h	191,100	210,200	229,300
	Heating (Rated)	kW	63.0	69.3	75.6
		Btu/h	215,000	236,500	258,000
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.9	22.1 + 15.9	22.1 + 22.1
	Rated Water Flow	LPM	192	115 + 96	115 + 115
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 2	5,300 x 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	3,400	6,800	6,800
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.22 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	772 x 1,120 x 547	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	
Dimensions (W x H x D) - Shipping	mm	820 x 1,245 x 645	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	
Net Weight	kg	158 x 1	149 x 2	149 x 2	
Shipping Weight	kg	166 x 1	157 x 2	157 x 2	
Sound Pressure Level	Cooling / Heating	dB(A)	55.0 / 56.0	51.0 / 53.0	51.0 / 54.0
Sound Power Level	Cooling / Heating	dB(A)	67.0 / 68.0	64.0 / 66.0	64.0 / 67.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5	3.5 + 3.5	3.5 + 3.5
	t-CO <sub>2</sub> eq	-	9.394	14.613	14.613
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			32 (50)	35 (44)	39 (48)

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

## HEAT RECOVERY & HEAT PUMP

ARWM260LAS5 / ARWM280LAS5 / ARWM300LAS5



HP			26	28	30
Model Name	Combination Unit		ARWM260LAS5	ARWM280LAS5	ARWM300LAS5
	Independent Unit (1)		ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (2)		ARWM120LAS5	ARWM120LAS5	ARWM120LAS5
	Independent Unit (3)		-	-	-
	Independent Unit (4)		-	-	-
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0
		Btu/h	248,400	267,500	286,600
	Heating (Rated)	kW	81.9	88.2	94.5
		Btu/h	279,500	301,000	322,400
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.6 + 22.1	37.7 + 22.1	24.6 + 22.1
	Rated Water Flow	LPM	135 + 115	154 + 115	173 + 115
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	6,800	6,800	6,800
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	
Net Weight	kg	149 x 2	149 x 2	(158 x 1) + (149 x 1)	
Shipping Weight	kg	157 x 2	157 x 2	(166 x 1) + (157 x 1)	
Sound Pressure Level	Cooling / Heating	dB(A)	53.0 / 55.0	53.0 / 57.0	55.0 / 58.0
Sound Power Level	Cooling / Heating	dB(A)	66.0 / 68.0	66.0 / 70.0	68.0 / 71.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.5 + 3.5	3.5 + 3.5	4.5 + 3.5
	t-CO <sub>2</sub> eq	-	14.613	14.613	16.700
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			42 (52)	45 (56)	49 (60)

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



# MULTI V WATER 5

## HEAT RECOVERY & HEAT PUMP

ARWM320LAS5 / ARWM340LAS5 / ARWM360LAS5



HP		32	34	36	
Model Name	Combination Unit	ARWM320LAS5	ARWM340LAS5	ARWM360LAS5	
	Independent Unit (1)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (2)	ARWM120LAS5	ARWM140LAS5	ARWM160LAS5	
	Independent Unit (3)	-	-	-	
	Independent Unit (4)	-	-	-	
Capacity	Cooling (Rated)	kW	89.6	95.2	100.8
		Btu/h	305,700	324,800	343,900
	Heating (Rated)	kW	100.8	107.1	113.4
		Btu/h	343,900	365,400	386,900
Exterior	Color	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	
	RAL (Classic)	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.9 + 22.1	29.9 + 29.6	29.9 + 37.7
	Rated Water Flow	LPM	192 + 115	192 + 135	192 + 154
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	6,800	6,800	6,800
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	
Net Weight	kg	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)	
Shipping Weight	kg	(166 x 1) + (157 x 1)	(166 x 1) + (157 x 1)	(166 x 1) + (157 x 1)	
Sound Pressure Level	Cooling / Heating	dB(A)	56.0 / 57.0	57.0 / 58.0	57.0 / 59.0
	Cooling / Heating	dB(A)	69.0 / 70.0	70.0 / 71.0	70.0 / 72.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5	4.5 + 3.5	4.5 + 3.5
	t-CO <sub>2</sub> eq	-	16.700	16.700	16.700
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			52 (64)	55 (64)	58 (64)

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

## HEAT RECOVERY & HEAT PUMP

ARWM380LAS5 / ARWM400LAS5 / ARWM420LAS5



HP		38	40	42	
Model Name	Combination Unit	ARWM380LAS5	ARWM400LAS5	ARWM420LAS5	
	Independent Unit (1)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (2)	ARWM180LAS5	ARWM200LAS5	ARWM140LAS5	
	Independent Unit (3)	-	-	ARWM080LAS5	
	Independent Unit (4)	-	-	-	
Capacity	Cooling (Rated)	kW	106.4	112.0	117.6
		Btu/h	363,100	382,200	401,300
	Heating (Rated)	kW	119.7	126.0	132.3
		Btu/h	408,400	429,900	451,400
Exterior	Color	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	
	RAL (Classic)	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.9 + 24.6	29.9 + 29.9	29.9 + 29.6 + 10.6
	Rated Water Flow	LPM	192 + 173	192 + 192	192 + 135 + 77
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.	(Inverter) x 2	(Inverter) x 2	(Inverter) x 3	
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	6,800	6,800	10,200
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 3	
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 3	
Net Weight	kg	158 x 2	158 x 2	(158 x 1) + (149 x 2)	
Shipping Weight	kg	166 x 2	166 x 2	(166 x 1) + (157 x 2)	
Sound Pressure Level	Cooling / Heating	dB(A)	58.0 / 60.0	58.0 / 59.0	57.0 / 58.0
	Cooling / Heating	dB(A)	71.0 / 73.0	71.0 / 72.0	71.0 / 72.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5	4.5 + 4.5	4.5 + 3.5 + 3.5
	t-CO <sub>2</sub> eq	-	18.788	18.788	24.006
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			61 (64)	64	64

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

# MULTI V WATER 5

## HEAT RECOVERY & HEAT PUMP

ARWM440LAS5 / ARWM460LAS5 / ARWM480LAS5



HP		44	46	48	
Model Name	Combination Unit	ARWM440LAS5	ARWM460LAS5	ARWM480LAS5	
	Independent Unit (1)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (2)	ARWM140LAS5	ARWM140LAS5	ARWM140LAS5	
	Independent Unit (3)	ARWM100LAS5	ARWM120LAS5	ARWM140LAS5	
	Independent Unit (4)	-	-	-	
Capacity	Cooling (Rated)	kW	123.2	128.8	134.4
		Btu/h	420,400	439,500	458,600
	Heating (Rated)	kW	138.6	144.9	151.2
		Btu/h	472,900	494,400	512,900
Exterior	Color	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	
	RAL (Classic)	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	
	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
Heat Exchanger	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.9 + 29.6 + 15.9	29.9 + 29.6 + 22.1	29.9 + 29.6 + 29.6
	Rated Water Flow	LPM	192 + 135 + 96	192 + 135 + 115	192 + 135 + 135
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	10,200	10,200	10,200
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	
Net Weight	kg	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)	
Shipping Weight	kg	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)	
Sound Pressure Level	Cooling / Heating	dB(A)	57.0 / 58.0	57.0 / 59.0	58.0 / 59.0
Sound Power Level	Cooling / Heating	dB(A)	71.0 / 72.0	71.0 / 73.0	72.0 / 73.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5
	t-CO <sub>2</sub> eq	-	24.006	24.006	24.006
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

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

## HEAT RECOVERY & HEAT PUMP

ARWM500LAS5 / ARWM520LAS5 / ARWM540LAS5



HP		50	52	54	
Model Name	Combination Unit	ARWM500LAS5	ARWM520LAS5	ARWM540LAS5	
	Independent Unit (1)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (2)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (3)	ARWM100LAS5	ARWM120LAS5	ARWM140LAS5	
	Independent Unit (4)	-	-	-	
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2
		Btu/h	477,700	496,800	515,900
	Heating (Rated)	kW	157.5	163.8	170.1
		Btu/h	537,400	558,900	580,400
Exterior	Color	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	
	RAL (Classic)	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	
	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
Heat Exchanger	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45	45
	Head Loss	kPa	29.9 + 29.9 + 15.9	29.9 + 29.9 + 22.1	29.9 + 29.9 + 29.6
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 115	192 + 192 + 135
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	10,200	10,200	10,200
Refrigerant Connecting Pipes	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net	mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	
Dimensions (W x H x D) - Shipping	mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	
Net Weight	kg	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)	
Shipping Weight	kg	(166 x 2) + (157 x 1)	(166 x 2) + (157 x 1)	(166 x 2) + (157 x 1)	
Sound Pressure Level	Cooling / Heating	dB(A)	59.0 / 59.0	59.0 / 60.0	59.0 / 60.0
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 73.0	73.0 / 74.0	73.0 / 74.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5
	t-CO <sub>2</sub> eq	-	26.094	26.094	26.094
	Control	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

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



# INDOOR UNITS

- WALL MOUNTED
- ROUND CASSETTE
- CEILING MOUNTED CASSETTE

- CEILING CONCEALED DUCT
- FRESH AIR INTAKE
- FLOOR STANDING



Advanced Air Conditioning System

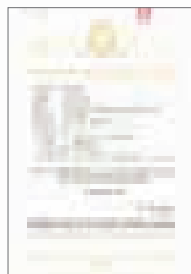
# COOLING WITH PURIFIED AIR

## Powerful Air Purification Performance

CAC certification guarantees powerful air purification performance to large space.

### CAC certification?

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



### Air Purification Performance Testing Result

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

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

## Bacteria & Virus Removal Performance

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

### Bacteria & Virus Removal Test Summary

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

※ Test chamber size : 60m<sup>3</sup>  
 Test bacteria : Staphylococcus epidermidis (ATCC 12228)  
 - Injection quantity : 1\*10<sup>5</sup> CFU  
 - Test time : 60min  
 Test virus : phi X174 (ATCC 13706-B1)  
 - Injection quantity : 1\*10<sup>9</sup> PFU  
 - Test time : 30min

### TUV Verification of Bacteria & Virus Removal



Air cond. & air purification kit off



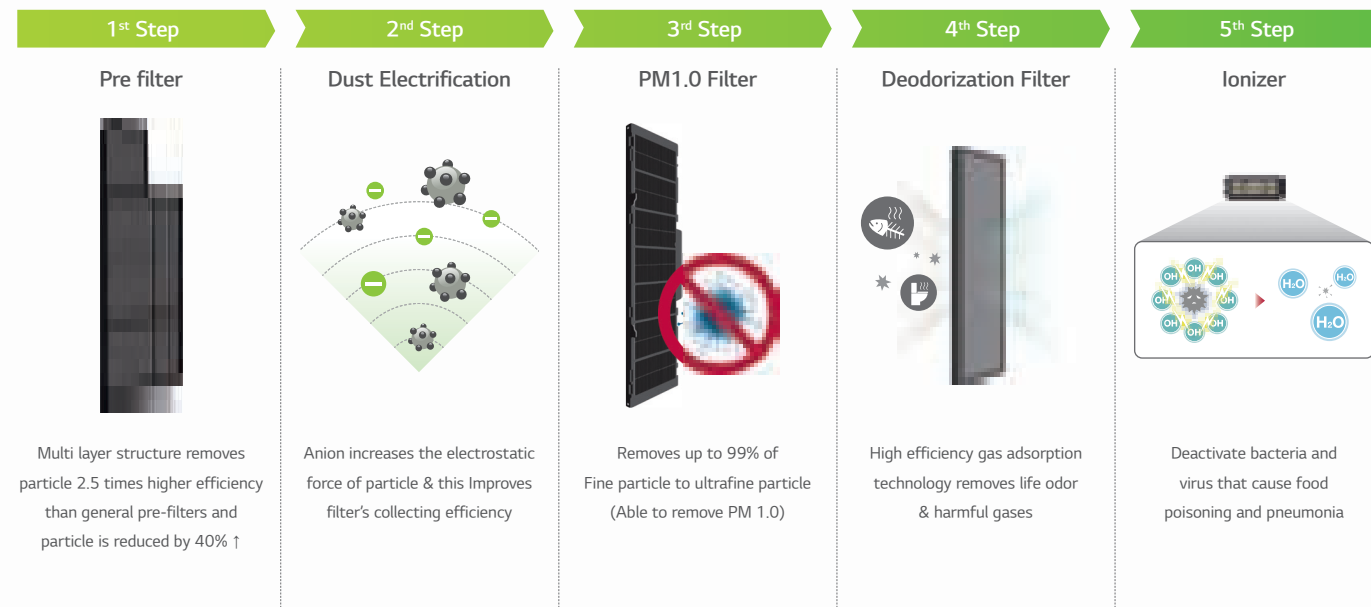
Air cond. & air purification kit on



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

## 5-Step Air Purification Process

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





Advanced Air Conditioning System

# COOLING WITH PURIFIED AIR

## Ionizer

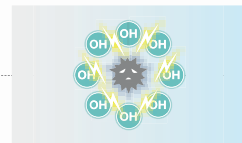
The plasma ion of ionizer suppress and deactivate bacteria & viruses in the room and keeps the air clean.

### How to work

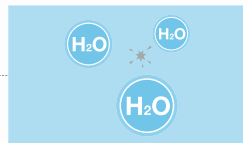
The active hydrogen and the oxygen ions are directly released into the air to deactivate bacteria and virus on the surface and reduce the influence of the volatile organic compounds, combines with toxic and oxidizing active oxygen to neutralize and provide H<sub>2</sub>O.



H<sup>+</sup>/ O<sub>2</sub><sup>-</sup> Is generated at carbon fiber electrodes



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



Converts the ions to H<sub>2</sub>O

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

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

## Easy Maintenance with Washable filter

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



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



**Dust electrification**  
No need of replacement



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



**Deodorization filter**  
Cleaning every 6 months, dry



**Ionizer**  
No need of replacement

※ Cleaning cycle may vary depending on the usage environment.

## Real time Air Quality Monitoring

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

PT-UPHG0 / PT-TPHG0

Smart Indicator (Air quality)

Lighting Color

- Good (Green)
- Moderate (Yellow)
- Unhealthy (Orange)
- Poor (Red)
- Very Poor (Purple)
- Severe (Blue)

PT-MPGW0

PM1.0 Sensor

Wired Remote Controller

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

## LG ThinQ App

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

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

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

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

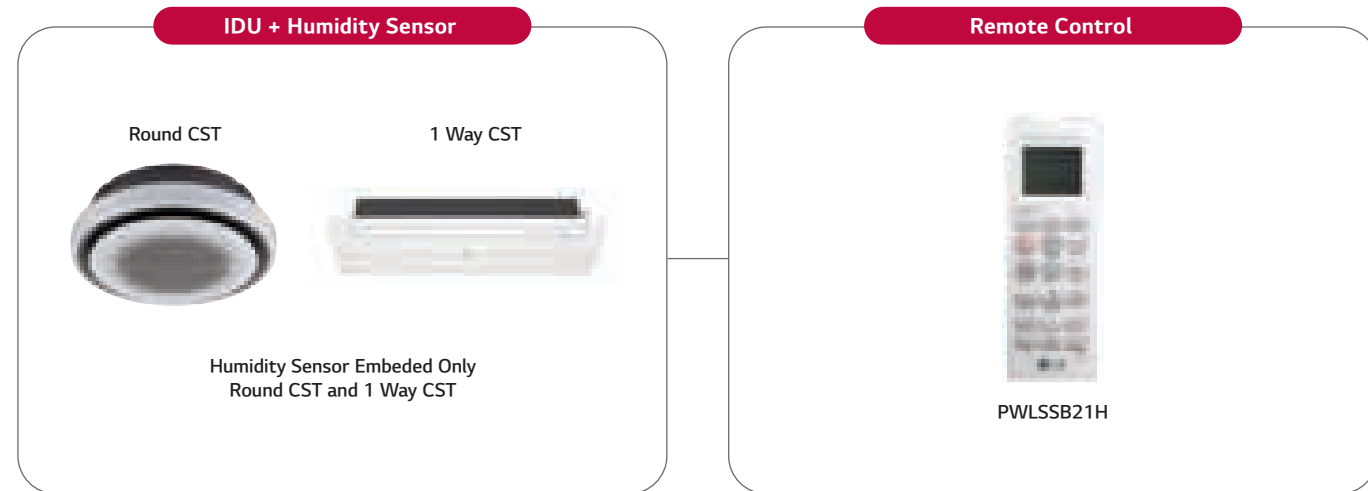
※ Wi-Fi Module needed.

Advanced Air Conditioning System

# COMFORT AIR

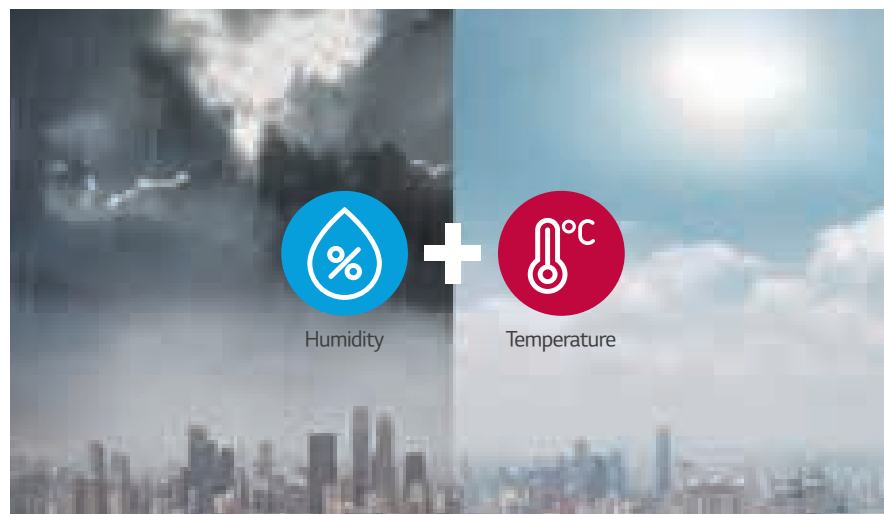
## Comfort Cooling with Humidity Sensor

It is possible to provide a comfortable environment or to save energy by adjusting the evaporation temperature by referring to indoor temperature and humidity.



## DUAL SENSING CONTROL

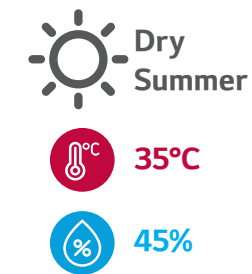
By sensing both temperature and humidity, this feature helps avoid over-cooling and dehumidification, maximizing comfort



\*The other indoor units doesn't have a humidity sensor, so the Standard III wired remote controller is necessary for this function with sensing humidity.

## Dry Summer

During a dry summer season, the system senses the low humidity levels and decreases the operating ratio to increase humidity for a more comfortable environment and energy efficient operation.

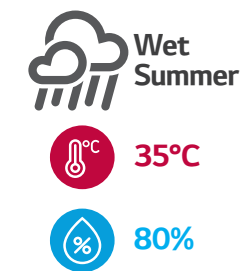


- **Comfortable Environment**  
By making the room less dry
- **Increased Energy Efficiency**  
Provide optimized cooling and save energy considering humidity

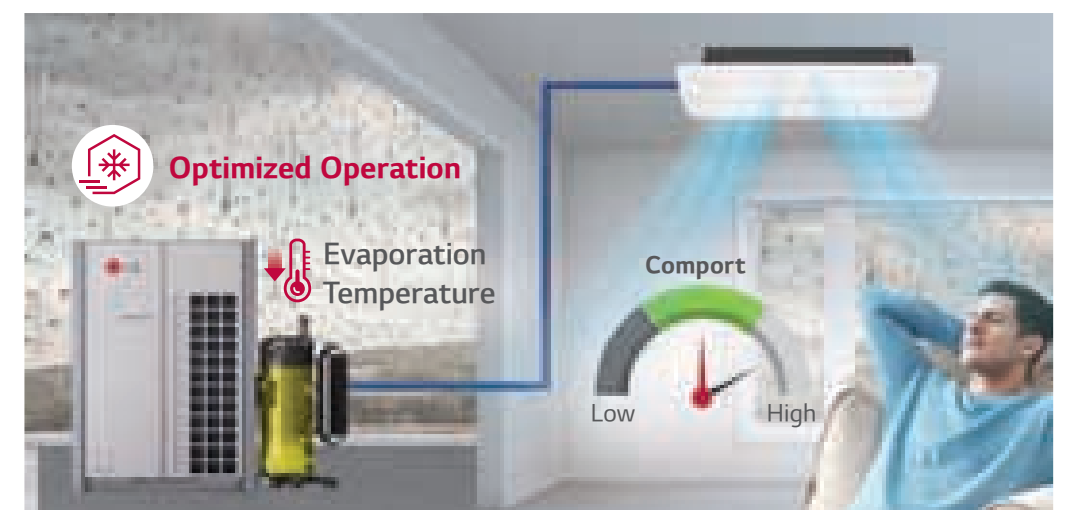


## Wet Summer

During a wet summer season, the system senses the high humidity levels and increases the operating ratio to rapidly decrease humidity for a more comfortable indoor environment



- **Comfortable Environment**  
Quick latent heat elimination with humidity sensors



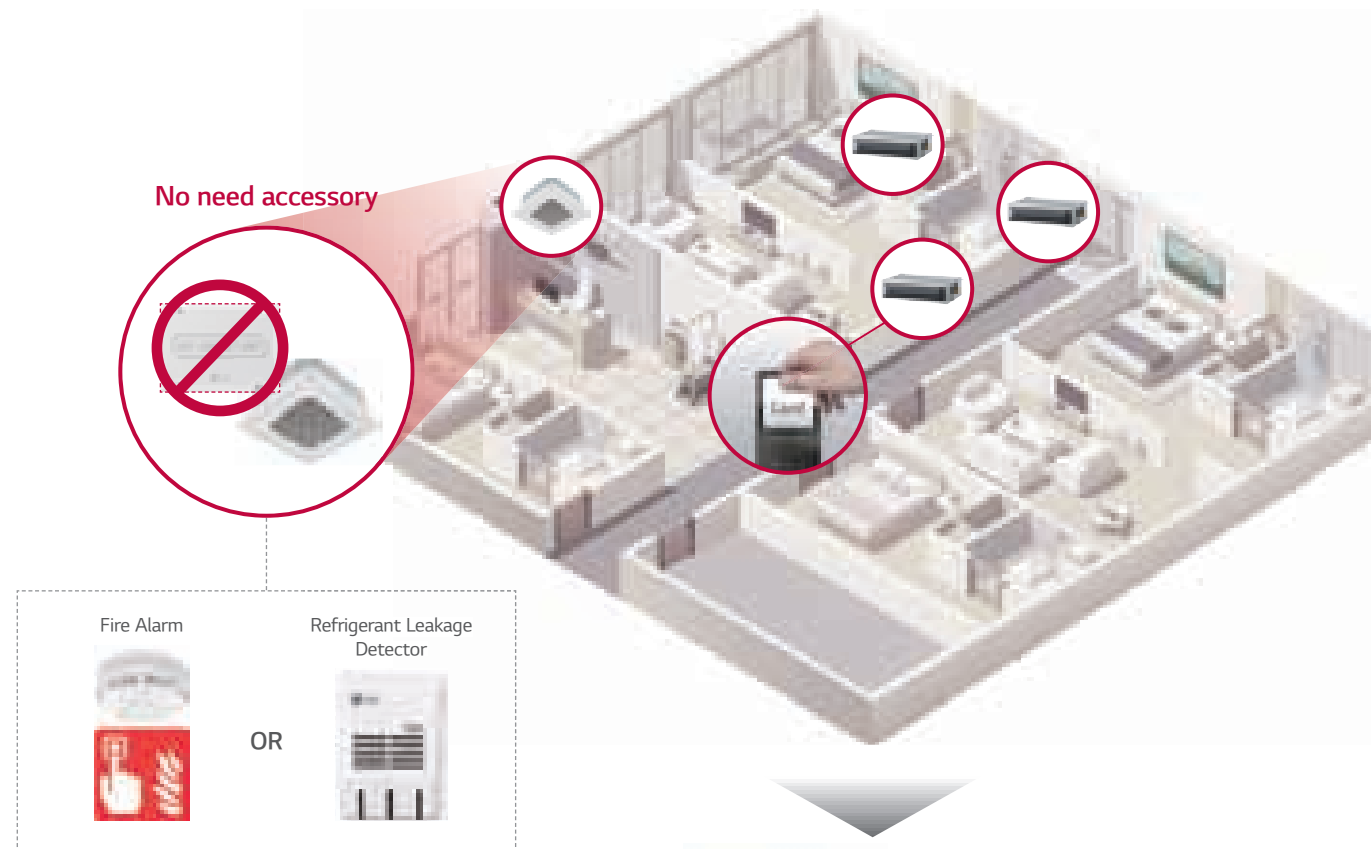
Advanced Air Conditioning Technology

# ENERGY EFFICIENCY

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

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

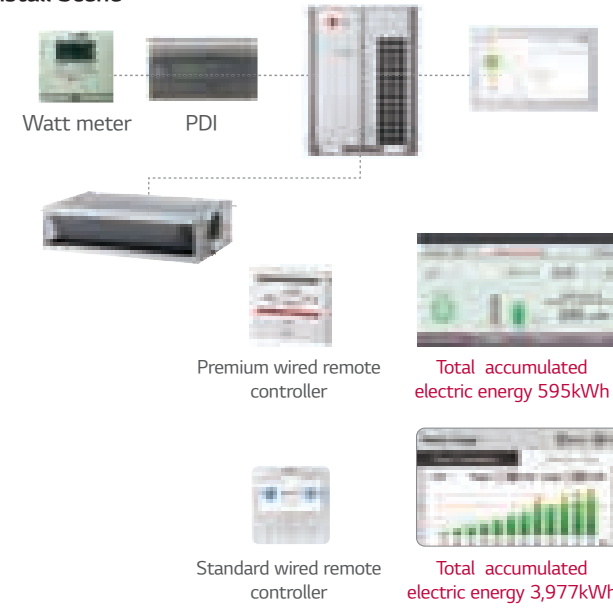
Connection between an indoor unit and external devices directly



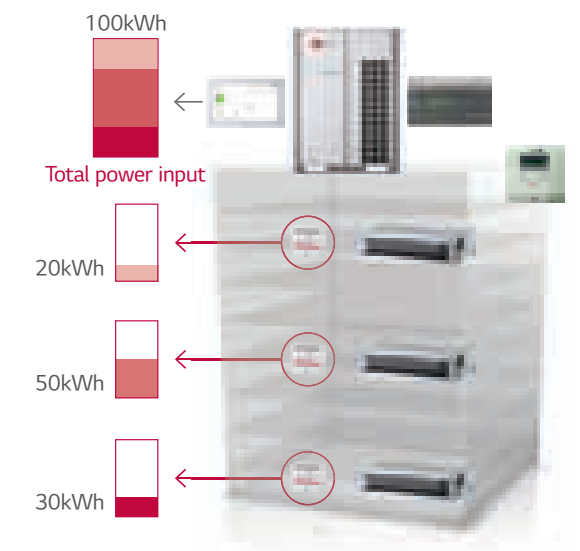
## Energy Monitoring (Accumulated Electric Energy Check)

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

Install Scene



Apply for Multistory Building

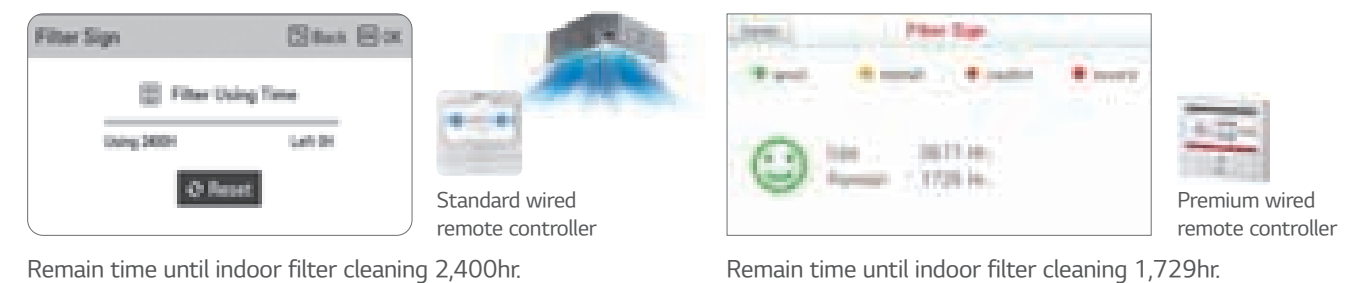


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

## Filter Sign (Remaining Time)

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

Remain time until indoor filter cleaning + alarm



# WALL MOUNTED



## Features & Benefits

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

## Key Applications

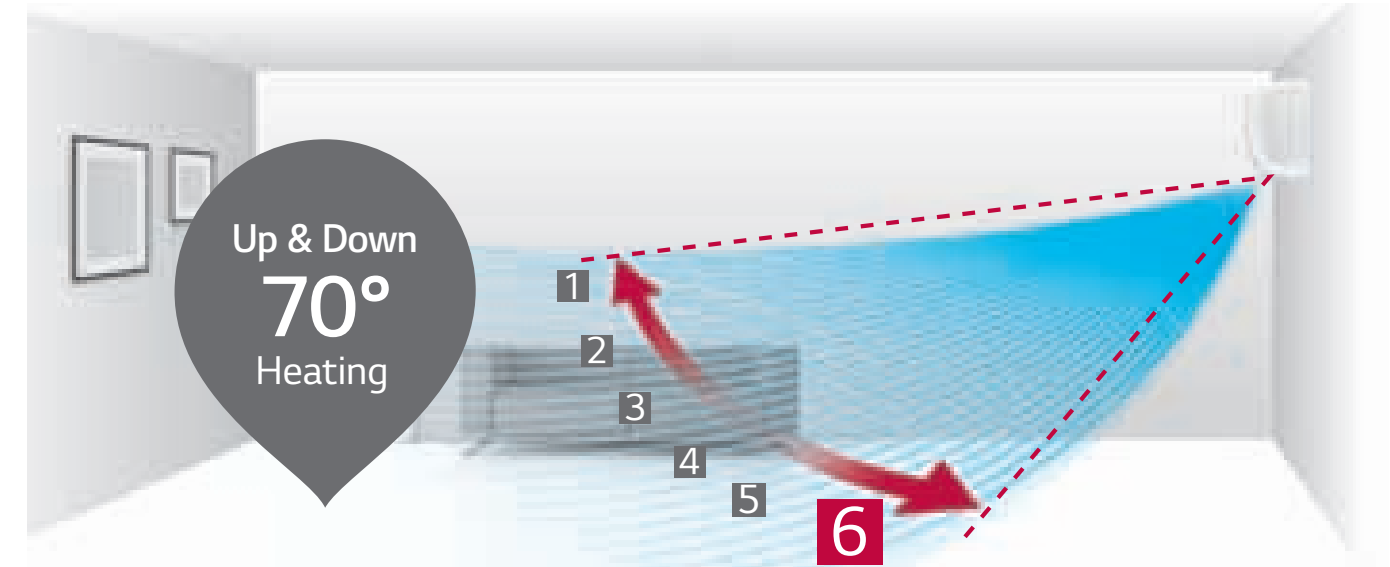
- Retail
- Restaurant
- Office
- Hotel
- Multi-family Residence

	Wall Mounted	Standard
Smart	Wi-Fi	Δ*
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  
 \* 30k, 36k model, Wi-Fi module is embedded

## 6-Step Vane, Control up to 70°

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



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

## Jet Cool

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

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

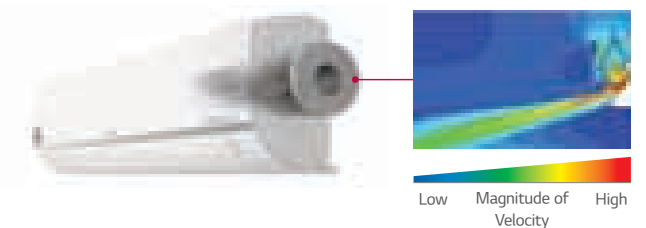
### One Click "Jet Mode"

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



### More Powerful Performance

By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of airflow is increased to 13.0 CMM.



# WALL MOUNTED

## Auto Cleaning

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

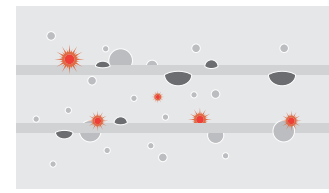
### Pain Point

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

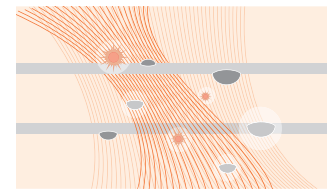


## Cleans Filter with Regular Airflow

The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger, providing an enhancing environment.



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



The indoor environment remains odorless with the advanced deodorizing function.



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

## Removes Harmful Particles

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



Bacteria Prevention



Odor Elimination

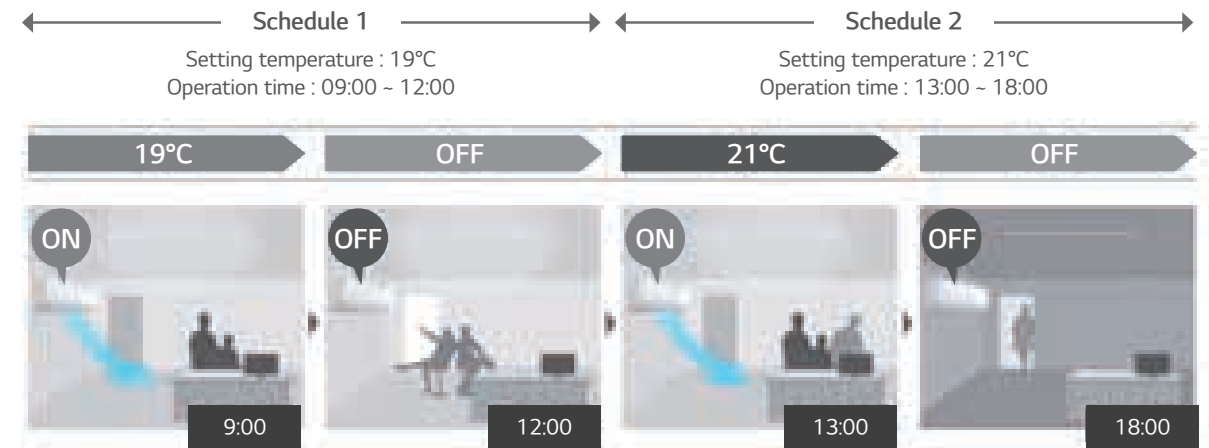


Mold Elimination

## Scheduled Operation

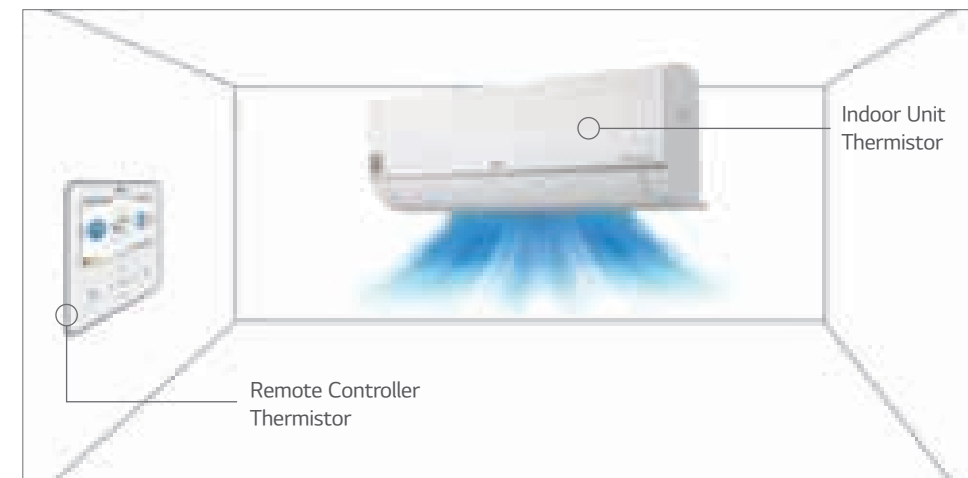
You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user or after setting period.

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



## Two Thermistors Control

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



## Group Control

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



Cooling / Heating Dehumidification Fan only operating setting temp.



Standard Operation +  
**In case of Group Control**



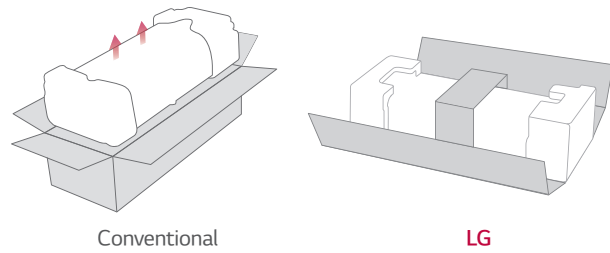
# WALL MOUNTED

## Quick & Easy Installation

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

※ Specifications may vary for each model.

### One Simple Packing Box



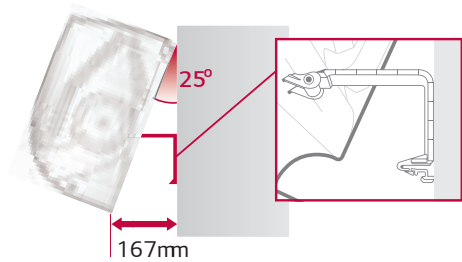
### Installation Plate Improvement

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



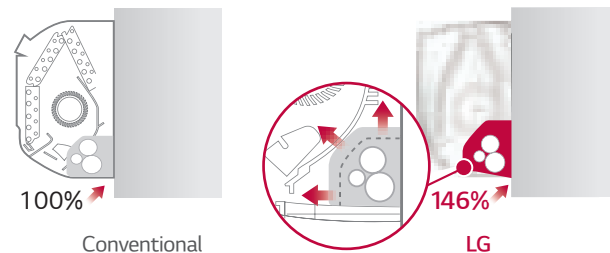
### Installation Support Clip

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



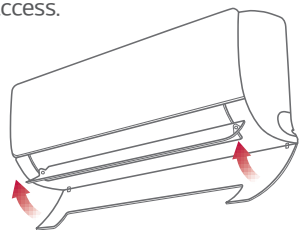
### Wider Tubing Space

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



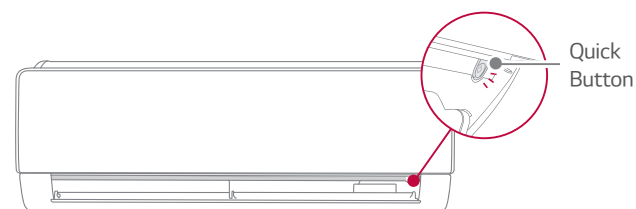
### Detachable Bottom Cover

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



### Quick Button for Running Test

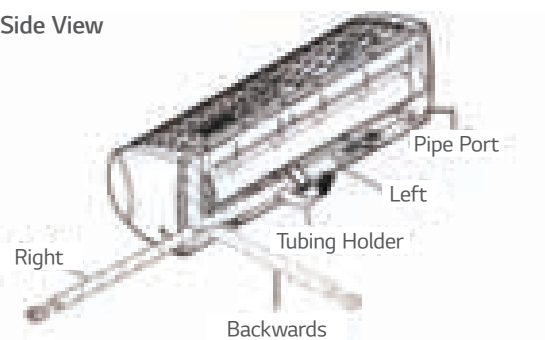
The test button is conveniently located and easy to find.



### 3 Way Flexible Installation

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

#### Back Side View



# STANDARD

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



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.  
 • Due to continuous improvement above function may be subjected to change without any prior notice.

## Accessories

Chassis	JRNU09GSJA4	JRNU12GSJA4	JRNU15GSJA4	JRNU18GSKA4	JRNU24GSKA4	ARNU30GSVA4	ARNU36GSVA4
Drain Pump							
Refrigerant Leakage Detector					PRLDNVSO		
Multi-tenant Power Module					NEW PINPMB001		
Pre Filter (Washable / Anti-fungus)					○		
Ventilation Kit					-		
IR Receiver					-		
Dry Contact (With Additional Accessory)					PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)					○		
Wi-Fi					△*		

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

# ROUND CASSETTE



## Features & Benefits

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

## Air Purification Kit

**PM1.0 Sensor**

**Smart Indicator**  
Color display by Air quality

Severe	Very Poor	Poor	Unhealthy	Moderate	Good
--------	-----------	------	-----------	----------	------

## Key Applications

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

**Step 4. Deodorization filter**  
High efficiency gas adsorption technology removes life odor & harmful gases

**Step 3. PM1.0 filter**  
Removes up to 99% of fine particle to ultrafine particle (Able to remove PM 1.0)

**Step 2. Dust Electrification<sup>3)</sup>**  
Anion increases the electrostatic force of particle & this improves filter's collecting efficiency

**Step 1. Pre-filter**  
Multi layer structure removes particle 2.5 times higher efficiency than general pre-filters and particle is reduced by 40% †

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

## Slim and Compact design

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

Other Brand	LG Round Cassette
384mm	330mm
	15% less body height makes room more higher

※ Product : 48 kBtu

## Minimal Exposure Design

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

Other Brand	LG Round Cassette
<p>① Drain Pipe</p> <p>② Refrigerant Pipe</p> <p>③ Exposed Hanger</p>	<p>① Piping in One Direction Only</p> <p>② Hanger Cover</p>

## Perfect Round Air Flow

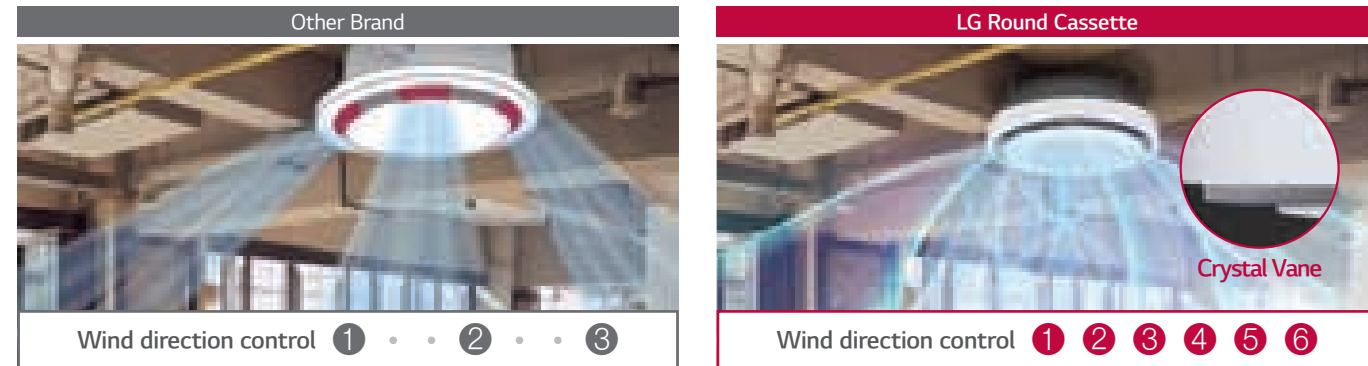
Perfect round flow without blind spots.

Other Brand	LG Round Cassette
3 Way airflow with blind spot.	Perfect circular airflow without blind spots.

# ROUND CASSETTE

## Visible Air Flow

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

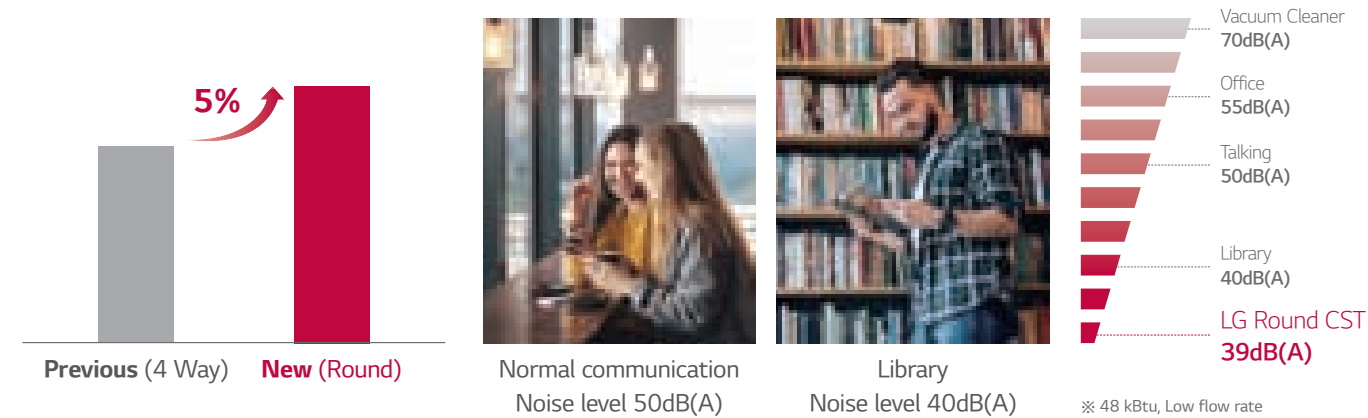


## Powerful and Quiet Air Flow

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

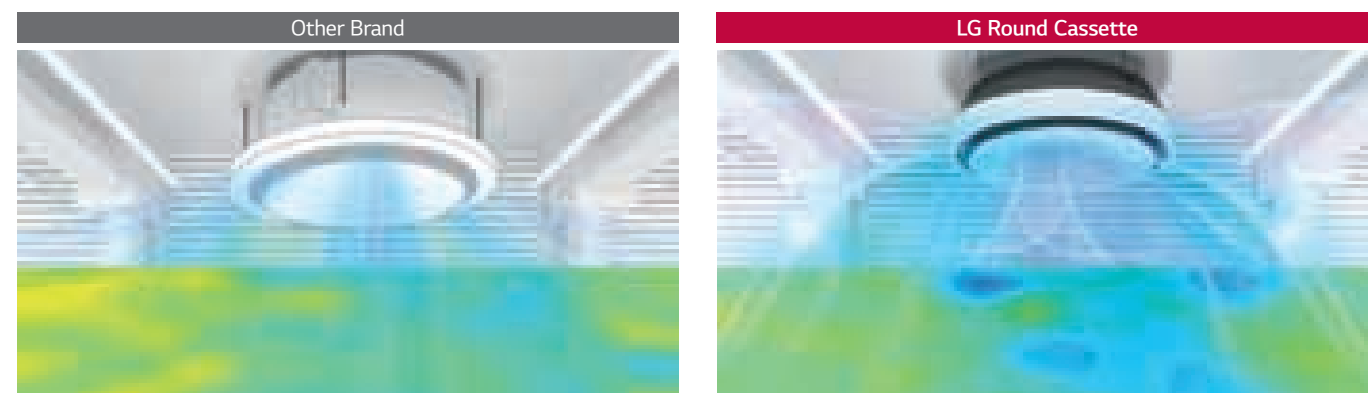
Full 3D Fan, Air flow rate 5% ↑

Full 3D Fan, Low noise



## 30% Faster in Cooling

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



Set temperature reach time 18 minutes (Height 1.1m)

Set temperature reach time 12 minutes (Height 1.1m)

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

# ROUND CASSETTE

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.  
 3. I.D : 'Internal Diameter'  
 4. LG Round cassette with black color panel is also available so LG Sales office can be contacted for further information.

## Accessories

Chassis	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump		○	
Refrigerant Leakage Detector		PRLDNV50	
Multi-tenant Power Module		<b>NEW</b> PINPMB001	
Pre Filter (Washable / Anti-fungus)		○	
Ventilation Kit		PTVK430	
IR Receiver		-	
Dry Contact (With Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 Point)		○	
Wi-Fi		PWFMDD200	
Air Purification Kit		PTAHYPO	

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

# CEILING MOUNTED CASSETTE



## Features & Benefits

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

## Key Applications

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

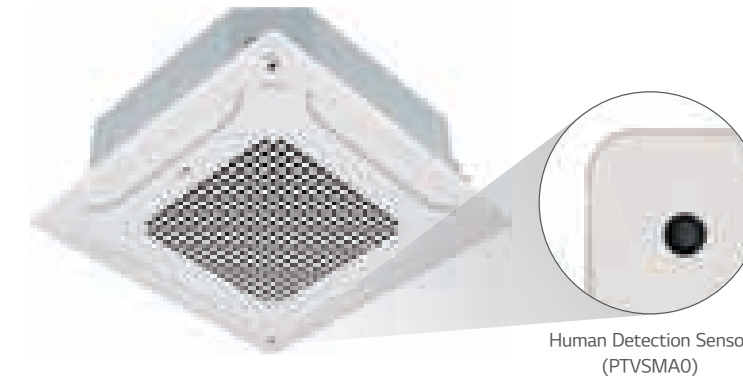
	Cassette	4 Way (570 x 570)	4 Way (840 x 840)	2 Way	1 Way
Smart	Wi-Fi	○	○	○	○
Energy Efficiency	Human Detection	-	○	-	-
Health	Air Purification	-	○	-	○
	Auto Cleaning	-	-	○	-
Comfort	Drain Pump	○	○	○	○
	Sleep Mode	○	○	○	○
	Timer (On / Off)	○	○	○	○
	Timer (Weekly)	○	○	○	○
	Two Thermistor Control	○	○	○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

※ ○ : Applied, - : Not applied

## Human Detection Sensor

### 4 Way Cassette (840 x 840)

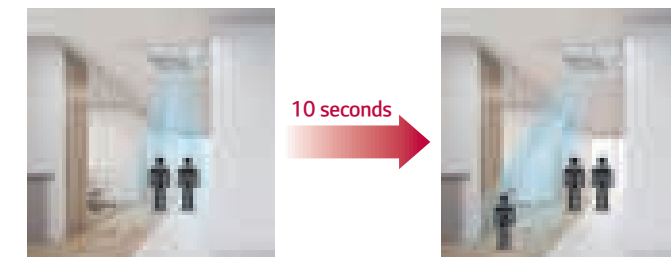
Panel Name (Accessory)  
: PT-MCGWO / PT-MPGWO  
(For Human Detection)



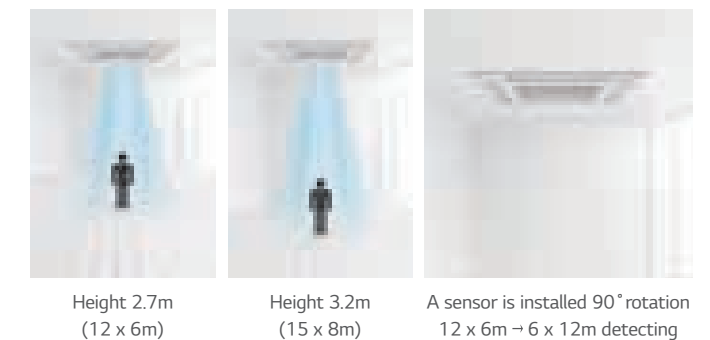
Apply human detect sensor  
- Saving energy  
- Supply comfortable flow  
- Sensor is optional accessory only can be applied to PT-MCGWO, PT-MPGWO

### Direction control based on human motion

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

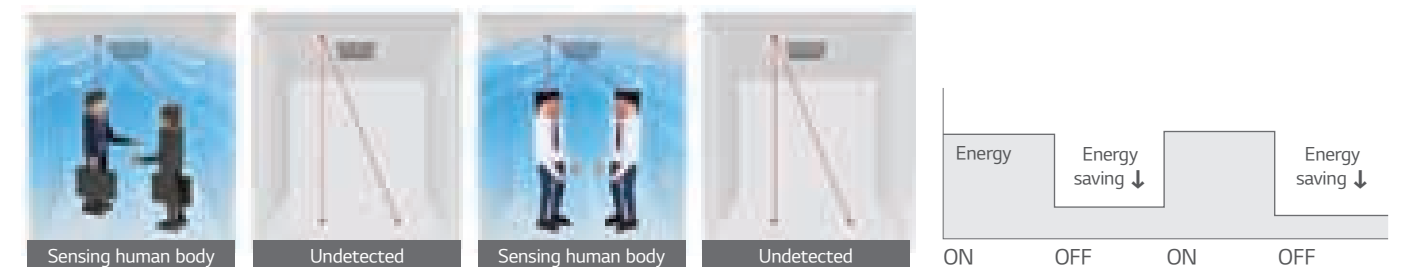


### Detection range (~ Height 4.2m)



### On / Off mode

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



### Temperature control mode

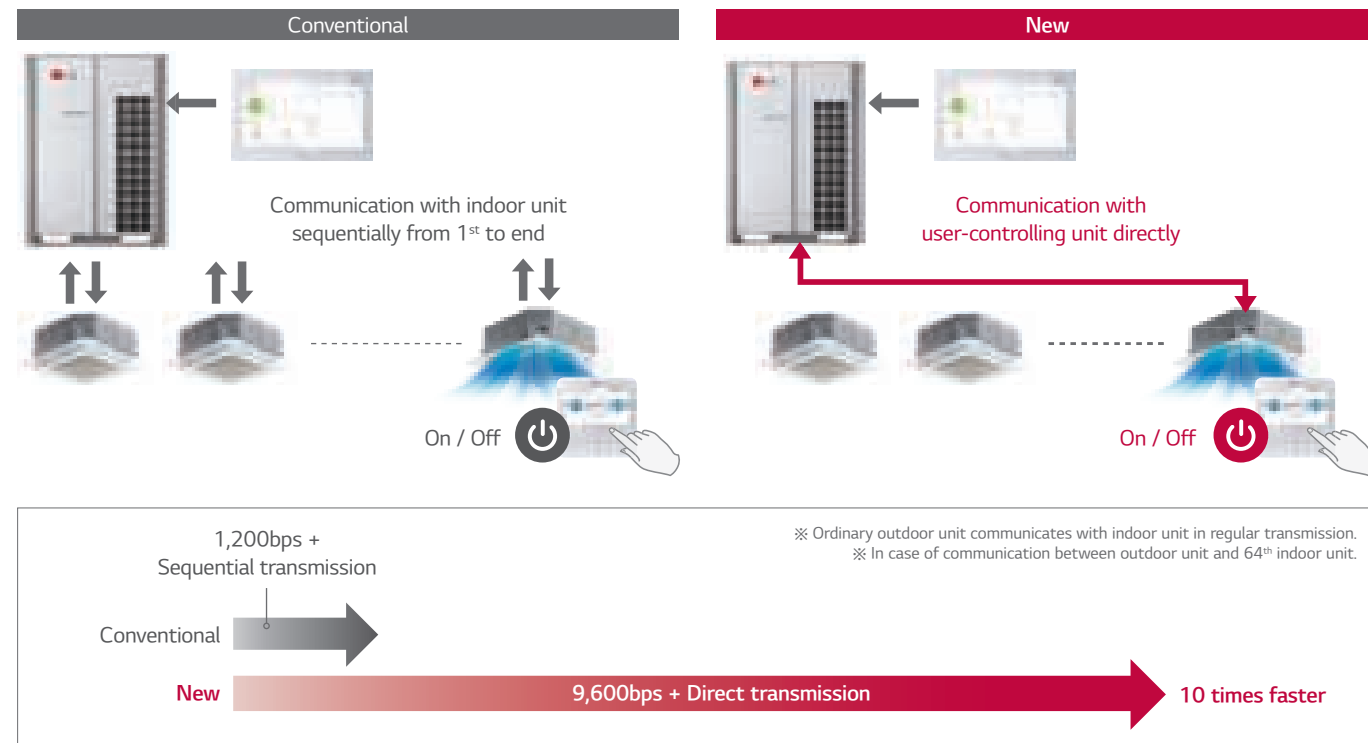
Energy savings by automatically setting target temperature during absence. (Judgement time : 5 ~ 90min)



# CEILING MOUNTED CASSETTE

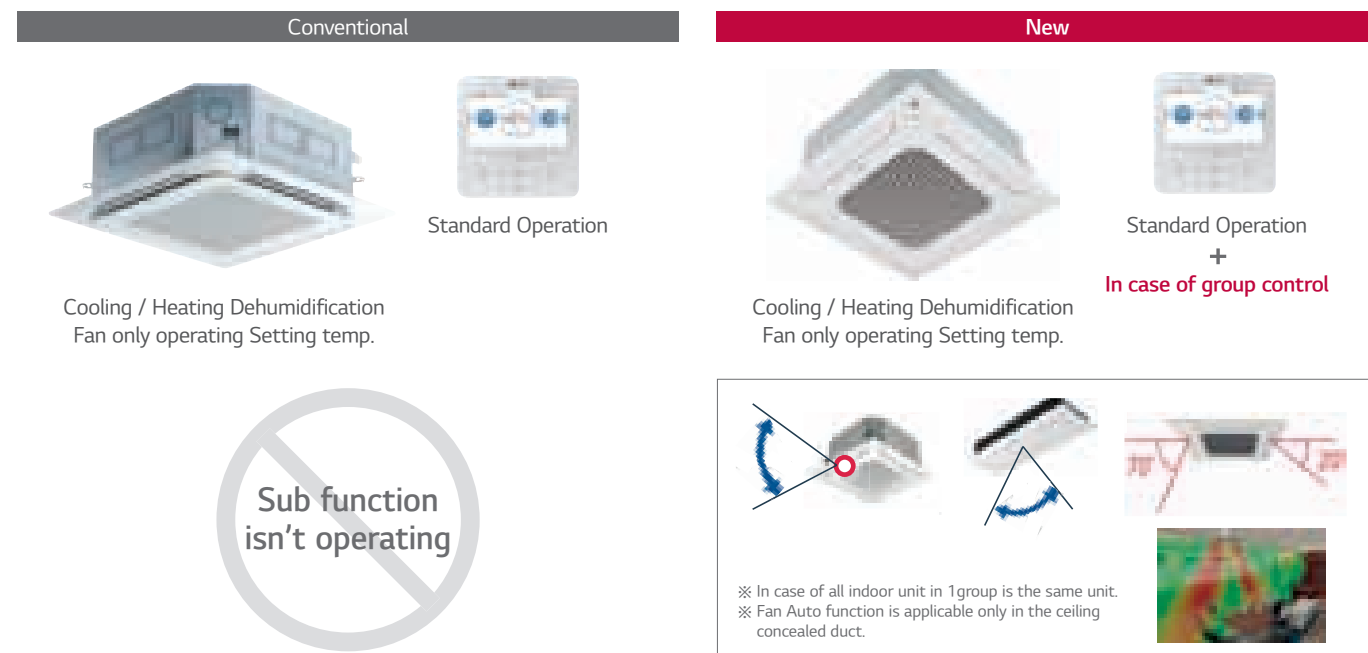
## Quick Control

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



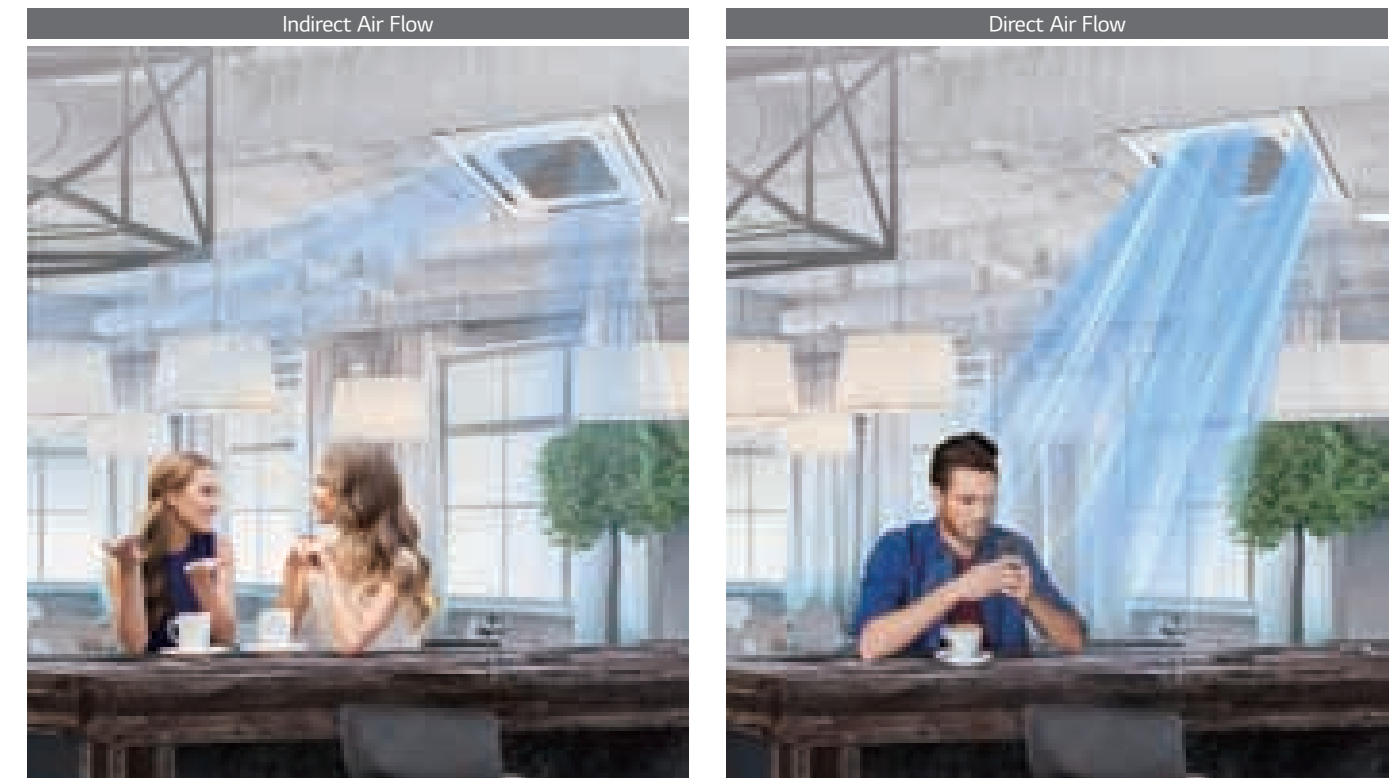
## Group Control

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



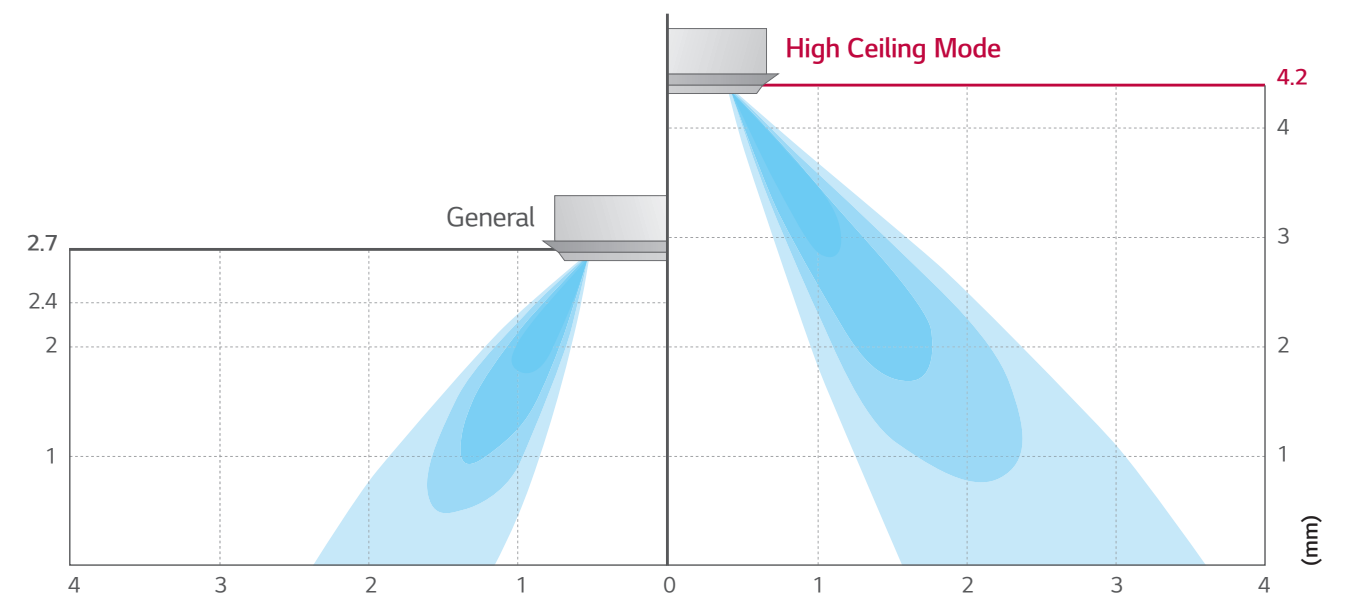
## Independent Vane Control

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



## High Ceiling Mode

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

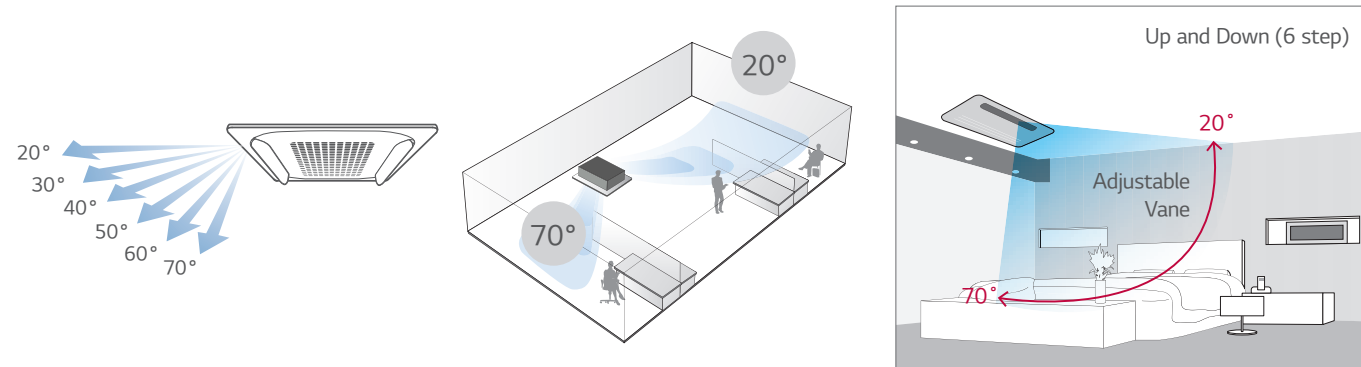




# CEILING MOUNTED CASSETTE

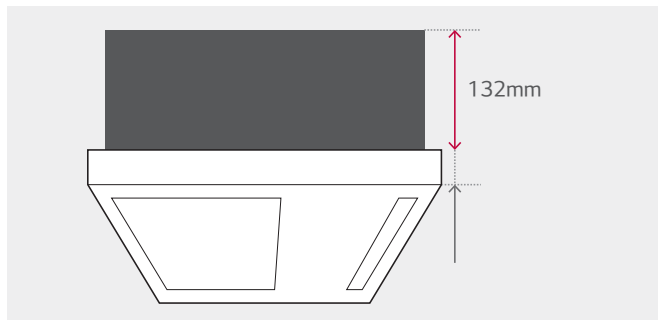
## 6-Step Vane Control

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



## Minimized Height

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



### Size Comparison

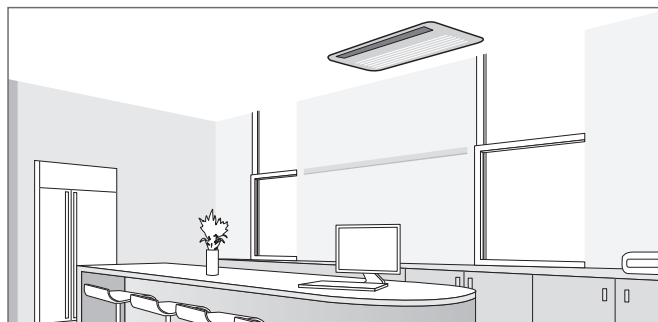
(Unit : mm)

	A company	B company	LG
1 Way cassette	215	230	132

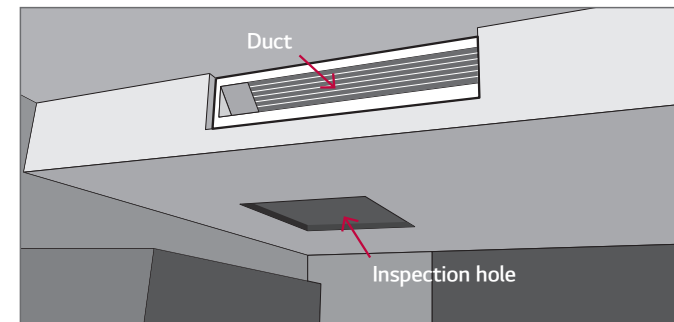
## Flexible Installation

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

1 Way cassette

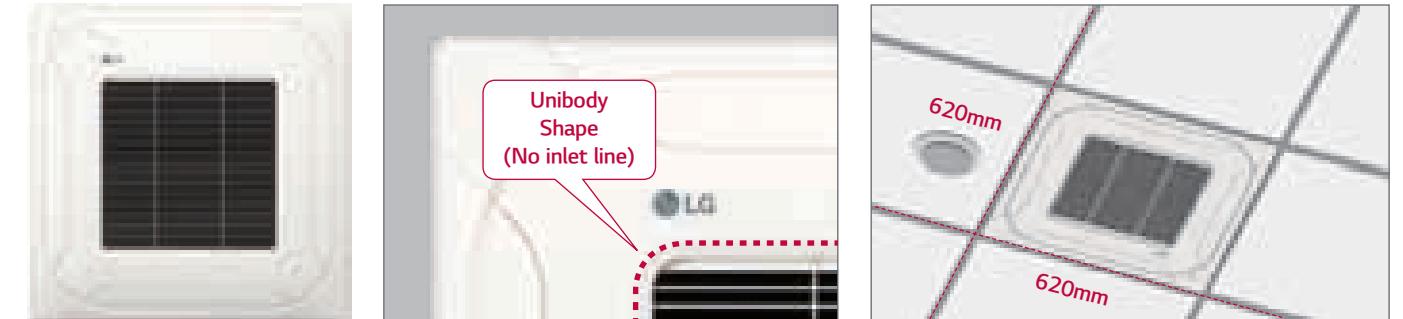


Duct



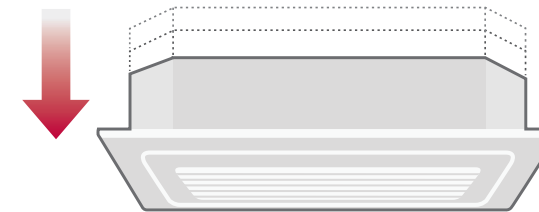
## Compact and Stylish Design

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



## Compact Size

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



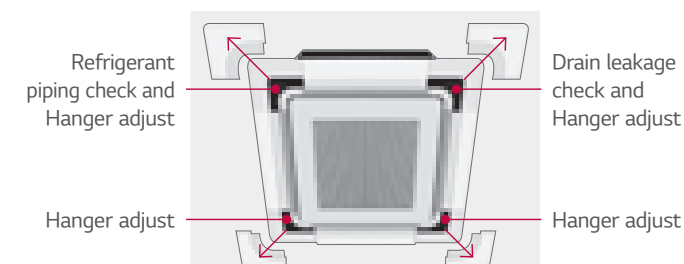
Capacity	Height
7.1 ~ 9.0kW	204mm
10.6kW	246mm
12.3 ~ 15.8kW	288mm

※ Length width : 840 x 840mm

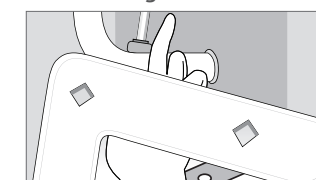
## Convenient Panel Installation

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

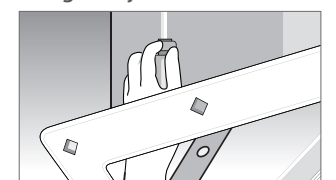
Detachable Corner Design



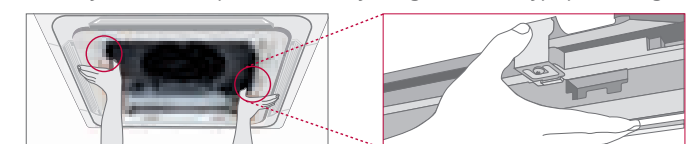
Drain leakage check



Hanger adjust



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



# 4 Way CASSETTE (570 X 570)

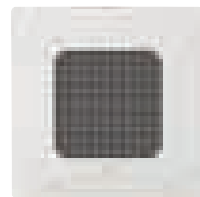
ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4



Model	Unit	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capacity	kW	1.6	2.2	2.8	3.6
	kcal/h	1,400	1,900	2,400	3,100
	Btu/h	5,500	7,500	9,600	12,300
Heating Capacity	kW	1.8	2.5	3.2	4.0
	kcal/h	1,500	2,200	2,800	3,400
	Btu/h	6,100	8,500	10,900	13,600
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
	Body (Gross)	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	7.8 / 7.5 / 7.0 / 6.6	7.8 / 7.5 / 7.0 / 6.6	8.6 / 8.0 / 7.5 / 7.1	9.3 / 8.7 / 8.0 / 7.0
	ft <sup>3</sup> /min	275 / 265 / 247 / 212	275 / 265 / 247 / 212	303 / 283 / 265 / 251	327 / 307 / 283 / 247
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	12.6	12.6	13.7
	Body (Gross)	kg	15.3	15.3	16.4
Sound Pressure Levels (SH / H / M / L)	dB(A)	30 / 29 / 27 / 26	30 / 29 / 27 / 26	32 / 30 / 29 / 27	34 / 32 / 30 / 27
Power Supply	∅, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)	PT-QAGW0			
	Panel Color	Morning fog	Morning fog	Morning fog	Morning fog
	Dimensions Panel (W x H x D)	mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model



PT-QAGW0

## Accessories

Chassis	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump			○	
Refrigerant Leakage Detector			PRLDNV50	
Multi-tenant Power Module		NEW PINPMB001		
Pre Filter (Washable / Anti-fungus)			○	
Air Purification Kit			-	
Human Detection Kit			-	
Dry Contact (With Additional Accessory)			PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 Point)			○	
Wi-Fi			PWFMD200	

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

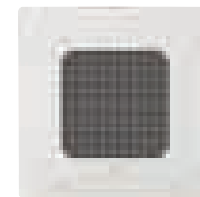
ARNU15GTQB4 / ARNU18GTQB4 / ARNU21GTQB4



Model	Unit	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Cooling Capacity	kW	4.5	5.6	6.0
	kcal/h	3,900	4,800	5,100
	Btu/h	15,400	19,100	20,500
Heating Capacity	kW	5.0	6.3	6.8
	kcal/h	4,300	5,400	5,800
	Btu/h	17,100	21,500	23,200
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	570 x 256 x 570	570 x 256 x 570
	Body (Gross)	mm	667 x 327 x 646	667 x 327 x 646
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	12.7 / 11.0 / 10.0 / 9.3	12.8 / 11.2 / 11.0 / 10.0	13.9 / 12.0 / 11.1 / 9.4
	ft <sup>3</sup> /min	447 / 388 / 353 / 328	453 / 396 / 388 / 353	490 / 424 / 392 / 332
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)
Weight	Body (Net)	kg	15.0	15.0
	Body (Gross)	kg	17.9	17.9
Sound Pressure Levels (SH / H / M / L)	dB(A)	40 / 36 / 34 / 32	39 / 37 / 35 / 34	44 / 40 / 38 / 34
Power Supply	∅, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)	PT-QAGW0		
	Panel Color	Morning fog	Morning fog	Morning fog
	Dimensions Panel (W x H x D)	mm	620 x 34 x 620	620 x 34 x 620

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model



PT-QAGW0

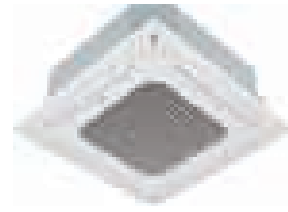
## Accessories

Chassis	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump			○
Refrigerant Leakage Detector			PRLDNV50
Multi-tenant Power Module		NEW PINPMB001	
Pre Filter (Washable / Anti-fungus)			○
Air Purification Kit			-
Human Detection Kit			-
Dry Contact (With Additional Accessory)			PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 Point)			○
Wi-Fi			PWFMD200

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

# 4 Way CASSETTE (840 X 840)

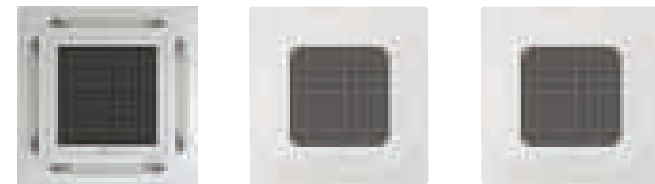
JRNU09GTPA4 / JRNU12GTPA4 / JRNU15GTPA4 / JRNU18GTPA4 / JRNU24GTPA4



Model	Unit	JRNU09GTPA4	JRNU12GTPA4	JRNU15GTPA4	JRNU18GTPA4	JRNU24GTPA4
Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1
	kcal/h	2,400	3,100	3,900	4,800	6,100
	Btu/h	9,600	12,300	15,400	19,100	24,200
Heating Capacity	kW	3.2	4.0	5.0	6.3	8.0
	kcal/h	2,800	3,400	4,300	5,400	6,900
	Btu/h	10,900	13,600	17,100	21,500	27,300
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Body (Gross)	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	13 / 12 / 11 / 10	14 / 13 / 12 / 11	17 / 15 / 14 / 12	18 / 16 / 15 / 13	21 / 17 / 15 / 13
	ft <sup>3</sup> /min	459 / 424 / 388 / 353	494 / 459 / 424 / 388	600 / 530 / 494 / 424	636 / 565 / 530 / 459	742 / 600 / 530 / 459
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25	25	25	25 (1)
Weight	Body (Net)	kg	20.8	20.8	20.8	20.8
	Body (Gross)	kg	23.7	23.7	23.7	23.7
Sound Pressure Levels (SH / H / M / L)	dB(A)	31 / 29 / 27 / 25	33 / 31 / 29 / 27	36 / 34 / 33 / 29	36 / 35 / 34 / 31	39 / 36 / 34 / 31
Power Supply	∅, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Panel	Panel Name (Accessory)	#1 : PT-UMC2, #2 : PT-MCGW0 (Human detection), #3 : PT-MPGW0 (Human detection, Air Purification)				
	Panel Color	Morning fog				
	Dimensions Panel #1 (W x H x D)	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Dimensions Panel #2 & 3 (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model



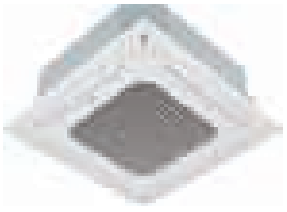
※ Human detection and Air purification kit need to be purchased additionally.

## Accessories

Chassis	JRNU09GTPA4	JRNU12GTPA4	JRNU15GTPA4	JRNU18GTPA4	JRNU24GTPA4
Drain Pump			○		
Refrigerant Leakage Detector			PRLDNVSO		
Multi-tenant Power Module			<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)			○		
Air Purification Kit			PTAHMPO		
Human Detection Kit			PTVSMAO		
Dry Contact (With Additional Accessory)			PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)			○		
Wi-Fi			PWFMDD200		

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

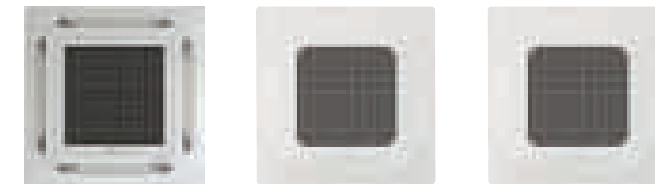
JRNU30GTPA4 / JRNU36GTNA4 / JRNU42GTMA4 / JRNU48GTMA4 / JRNU54GTMA4



Model	Unit	JRNU30GTPA4	JRNU36GTNA4	JRNU42GTMA4	JRNU48GTMA4	JRNU54GTMA4
Cooling Capacity	kW	9.0	10.6	12.3	14.1	15.8
	kcal/h	7,700	9,100	10,600	12,100	13,600
	Btu/h	30,700	36,200	42,000	48,100	54,000
Heating Capacity	kW	10.0	11.9	13.8	15.9	18.0
	kcal/h	8,600	10,200	11,000	13,200	15,500
	Btu/h	34,100	40,600	43,800	51,200	61,400
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
	Body (Gross)	mm	922 x 276 x 917	922 x 318 x 917	922 x 360 x 917	922 x 360 x 917
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	25 / 24 / 23 / 20	30 / 25 / 21 / 19	32 / 30 / 27 / 24	33 / 31 / 29 / 27	36 / 34 / 32 / 27
	ft <sup>3</sup> /min	883 / 858 / 805 / 688	1,059 / 883 / 742 / 671	1,130 / 1,059 / 954 / 848	1,165 / 1,095 / 1,024 / 954	1,271 / 1,201 / 1,130 / 954
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	20.8	23.5	25.6	25.6
	Body (Gross)	kg	23.7	27.3	30.1	30.1
Sound Pressure Levels (SH / H / M / L)	dB(A)	40 / 39 / 36 / 33	46 / 43 / 40 / 37	46 / 44 / 41 / 38	48 / 46 / 43 / 41	51 / 50 / 48 / 44
Power Supply	∅, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Panel	Panel Name (Accessory)	#1 : PT-UMC2, #2 : PT-MCGW0 (Human detection), #3 : PT-MPGW0 (Human detection, Air Purification)				
	Panel Color	Morning fog				
	Dimensions Panel #1 (W x H x D)	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Dimensions Panel #2 & 3 (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model



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

## Accessories

Chassis	JRNU30GTPA4	JRNU36GTNA4	JRNU42GTMA4	JRNU48GTMA4	JRNU54GTMA4
Drain Pump			○		
Refrigerant Leakage Detector			PRLDNVSO		
Multi-tenant Power Module			<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)			○		
Air Purification Kit			PTAHMPO		
Human Detection Kit			PTVSMAO		
Dry Contact (With Additional Accessory)			PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)			○		
Wi-Fi			PWFMDD200		

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

# 2 Way CASSETTE

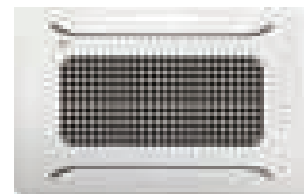
ARNU09G TSA4 / ARNU12G TSA4 / ARNU18G TSA4 / ARNU24G TSA4



Model	Unit	ARNU09G TSA4	ARNU12G TSA4	ARNU18G TSA4	ARNU24G TSA4
Cooling Capacity	kW	2.8	3.6	5.6	7.1
	kcal/h	2,400	3,100	4,800	6,100
	Btu/h	9,600	12,300	19,100	24,200
Heating Capacity	kW	3.2	4.0	6.3	8.0
	kcal/h	2,800	3,400	5,400	6,900
	Btu/h	10,900	13,600	21,500	27,300
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm 830 x 225 x 600	mm 830 x 225 x 600	mm 830 x 225 x 600	mm 830 x 225 x 600
	Body (Gross)	mm 1,055 x 290 x 682	mm 1,055 x 290 x 682	mm 1,055 x 290 x 682	mm 1,055 x 290 x 682
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	11.6 / 10.8 / 9.8 / 9.1	11.9 / 11.1 / 10.3 / 9.1	13.2 / 11.8 / 10.8 / 9.8	17.2 / 14.5 / 12.4 / 10.3
	ft <sup>3</sup> /min	410 / 381 / 346 / 321	420 / 392 / 364 / 321	465 / 417 / 381 / 346	608 / 512 / 438 / 364
Pipe Connections	Liquid Side	mm (inch) 6.35 (1/4)	mm (inch) 6.35 (1/4)	mm (inch) 6.35 (1/4)	mm (inch) 9.52 (3/8)
	Gas Side	mm (inch) 12.7 (1/2)	mm (inch) 12.7 (1/2)	mm (inch) 12.7 (1/2)	mm (inch) 15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch) 25 (1)	mm (inch) 25 (1)	mm (inch) 25 (1)	mm (inch) 25 (1)
Weight	Body (Net)	kg 18.1	kg 18.1	kg 18.1	kg 18.1
	Body (Gross)	kg 22.5	kg 22.5	kg 22.5	kg 22.5
Sound Pressure Levels (SH / H / M / L)	dB(A)	35 / 33 / 31 / 29	36 / 34 / 32 / 29	37 / 35 / 33 / 31	44 / 40 / 37 / 33
Power Supply	∅, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)	PT-USC			
	Dimensions (W x H x D)	mm 1,100 x 28 x 690	mm 1,100 x 28 x 690	mm 1,100 x 28 x 690	mm 1,100 x 28 x 690

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model



PT-USC

## Accessories

Chassis	ARNU09G TSA4	ARNU12G TSA4	ARNU18G TSA4	ARNU24G TSA4
Drain Pump			○	
Refrigerant Leakage Detector		PRLDNV50		
Multi-tenant Power Module		<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)		○		
Air Purification Kit		-		
Human Detection Kit		-		
Dry Contact (With Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)		○		
Wi-Fi		PWFMD200		

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

# 1 Way CASSETTE

JRNU07GTUB4 / JRNU09GTUB4 / JRNU12GTUB4 / JRNU18GTTB4 / JRNU24GTTB4

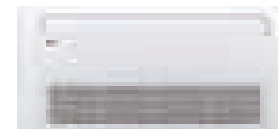


Model	Unit	JRNU07GTUB4	JRNU09GTUB4	JRNU12GTUB4	JRNU18GTTB4	JRNU24GTTB4
Cooling Capacity	kW	2.2	2.8	3.6	5.6	7.1
	kcal/h	1,900	2,400	3,100	4,800	6,100
	Btu/h	7,500	9,600	12,300	19,100	24,200
Heating Capacity	kW	2.5	3.2	4.0	6.3	7.1
	kcal/h	2,200	2,800	3,400	5,400	6,100
	Btu/h	8,500	10,900	13,600	21,500	24,200
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm 860 x 132 x 450	mm 860 x 132 x 450	mm 860 x 132 x 450	mm 1,180 x 132 x 450	mm 1,180 x 132 x 450
	Body (Gross)	mm 1,129 x 259 x 538	mm 1,129 x 259 x 538	mm 1,129 x 259 x 538	mm 1,449 x 259 x 538	mm 1,449 x 259 x 538
Air Flow Rate (SH / H / M / L)	m <sup>3</sup> /min	8.7 / 8.2 / 7.3 / 6.4	10.2 / 9.2 / 8.6 / 8.2	10.9 / 10.0 / 9.2 / 8.2	14.2 / 13.3 / 12.1 / 10.9	15.4 / 14.6 / 13.3 / 11.5
	ft <sup>3</sup> /min	305 / 290 / 258 / 226	359 / 325 / 304 / 290	386 / 353 / 325 / 290	500 / 470 / 427 / 385	545 / 516 / 470 / 406
Air Flow Rate High Ceiling Mode (SH / H / M / L)	m <sup>3</sup> /min	9.2 / 9.2 / 8.7 / 8.2	10.5 / 10.5 / 10.0 / 9.2	11.5 / 11.5 / 10.9 / 10.0	14.9 / 14.9 / 14.18 / 13.3	17.0 / 17.0 / 15.5 / 14.6
	ft <sup>3</sup> /min	325 / 325 / 304 / 290	370 / 370 / 353 / 325	406 / 406 / 385 / 353	526 / 526 / 501 / 469	600 / 600 / 547 / 515
Pipe Connections	Liquid Side	mm (inch) 6.35 (1/4)	mm (inch) 6.35 (1/4)	mm (inch) 6.35 (1/4)	mm (inch) 6.35 (1/4)	mm (inch) 9.52 (3/8)
	Gas Side	mm (inch) 12.7 (1/2)	mm (inch) 12.7 (1/2)	mm (inch) 12.7 (1/2)	mm (inch) 12.7 (1/2)	mm (inch) 15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch) 25 (1)	mm (inch) 25 (1)	mm (inch) 25 (1)	mm (inch) 25 (1)	mm (inch) 25 (1)
Weight	Body (Net)	kg 12.0	kg 12.0	kg 12.0	kg 15.3	kg 15.3
	Body (Gross)	kg 15.0	kg 15.0	kg 15.0	kg 18.8	kg 18.8
Sound Pressure Levels (SH / H / M / L)	dB(A)	34 / 32 / 29 / 25	38 / 35 / 34 / 32	41 / 38 / 35 / 32	42 / 40 / 37 / 35	45 / 43 / 40 / 36
Sound Pressure Levels High Ceiling Mode (SH / H / M / L)	dB(A)	35 / 35 / 34 / 32	40 / 40 / 38 / 35	42 / 42 / 41 / 38	44 / 44 / 42 / 40	47 / 47 / 45 / 43
Power Supply	∅, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60
Panel	Panel Name (Accessory)	#1 : PT-UAHW0, #2 : PT-UPHG0 (Air Purification)		#1 : PT-TAHW0, #2 : PT-TPHG0 (Air Purification)		
	Dimensions Panel #1 (W x H x D)	mm 1,100 x 34 x 500	mm 1,100 x 34 x 500	mm 1,100 x 34 x 500	mm 1,420 x 34 x 500	mm 1,420 x 34 x 500
	Dimensions Panel #2 (W x H x D)	mm 1,160 x 34 x 500	mm 1,160 x 34 x 500	mm 1,160 x 34 x 500	mm 1,480 x 34 x 500	mm 1,480 x 34 x 500

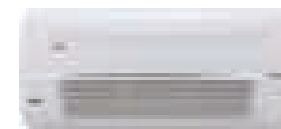
Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Panel Model

For JRNU - GTUB4 (860 x 450)

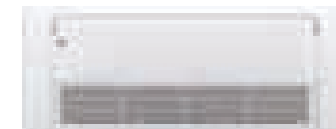


PT-UAHW0



PT-UPHG0  
(Glossy, For Air Purification)

For JRNU - GTTB4 (1,180 x 450)



PT-TAHW0



PT-TPHG0  
(Glossy, For Air Purification)

## Accessories

Chassis	JRNU07GTUB4	JRNU09GTUB4	JRNU12GTUB4	JRNU18GTTB4	JRNU24GTTB4
Drain Pump			○		
Refrigerant Leakage Detector			PRLDNV50		
Multi-tenant Power Module			<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)			○		
Air Purification Kit			PTAHTPO		
Human Detection Kit			-		
Dry Contact (With Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 Point)		○			
Wi-Fi		PWFMD200			

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

# CEILING CONCEALED DUCT



## Features & Benefits

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

## Key Applications

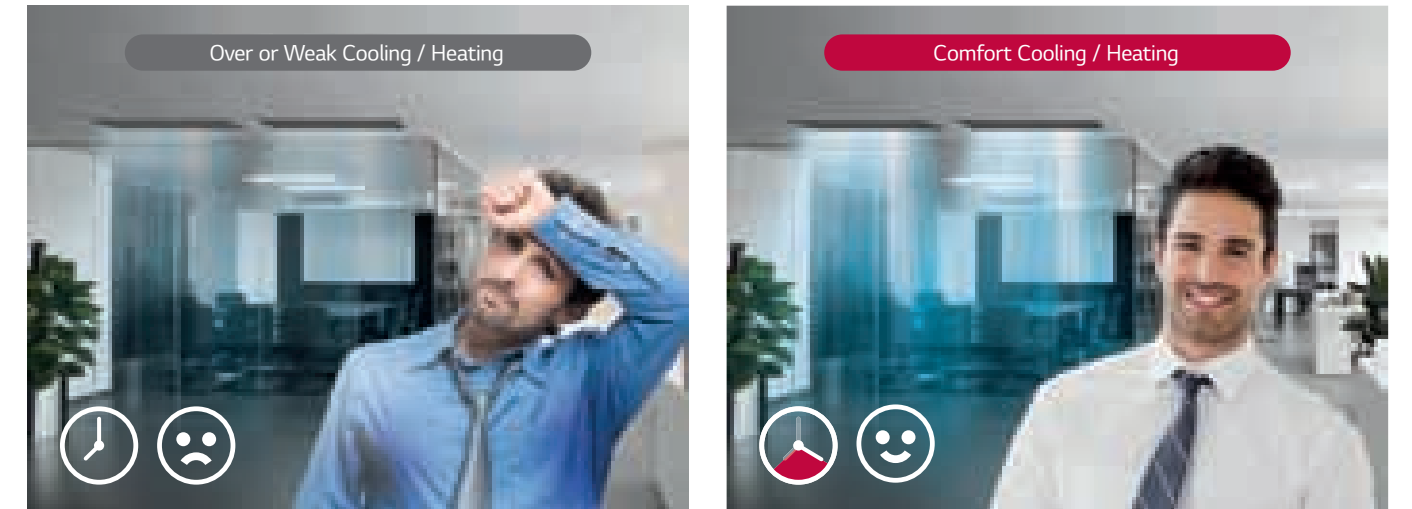
- Hotel / Conference Center
- Retail / Shopping Center
- School
- Office
- Restaurant
- Church
- Historic Building

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

※ ○ : Applied, - : Not applied

## Auto E.S.P.

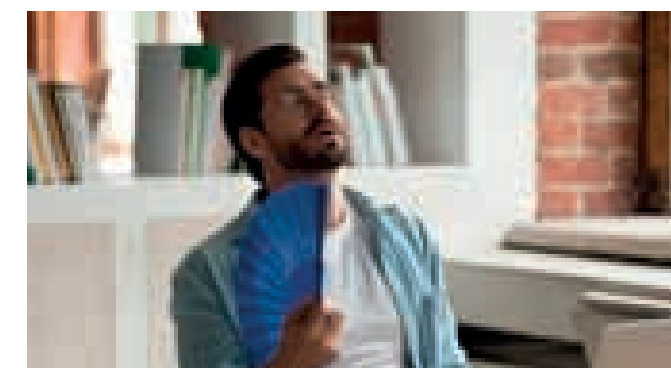
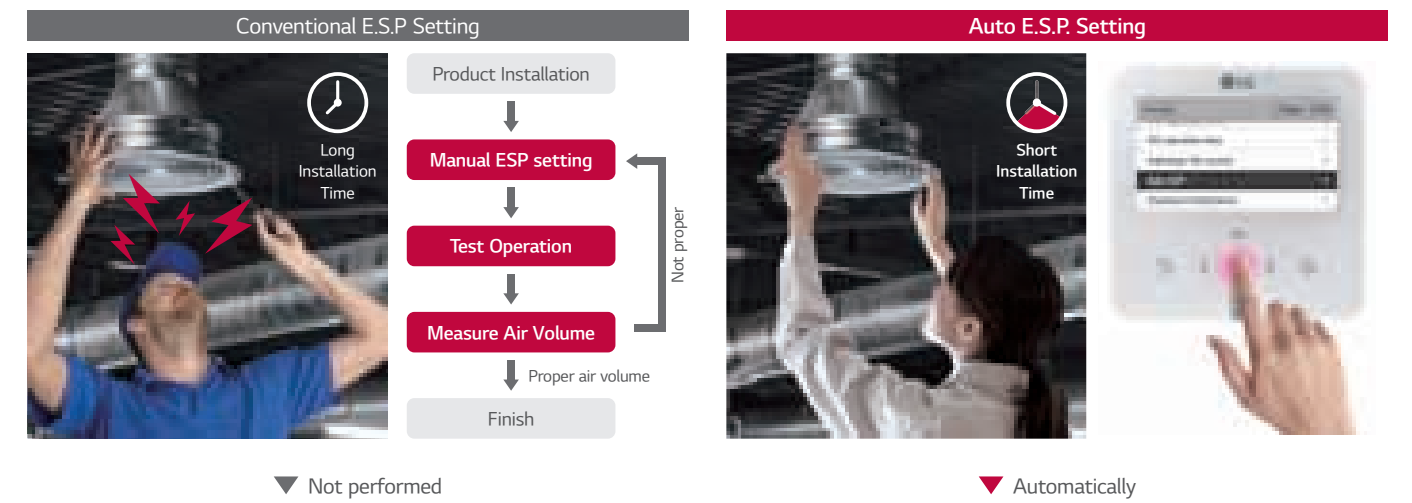
The product can control airflow volume by automatically sensing the discordance between the airflow volume and the external static pressure.



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

## Comfort Cooling & Heating

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

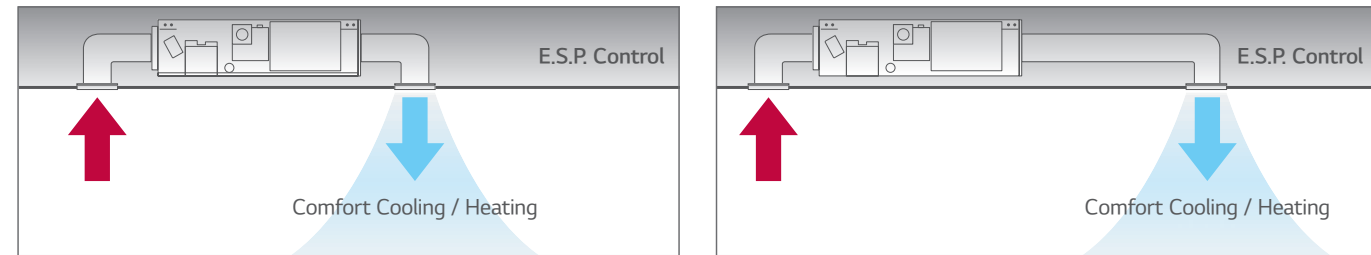




# CEILING CONCEALED DUCT

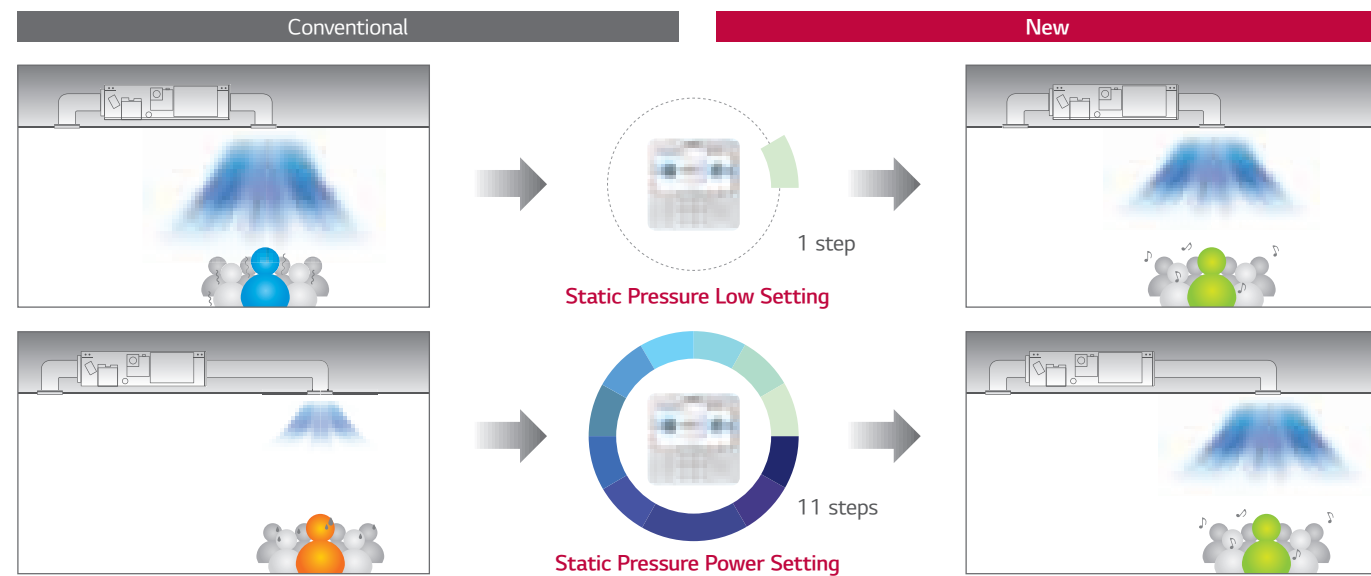
## E.S.P.(External Static Pressure) Control

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



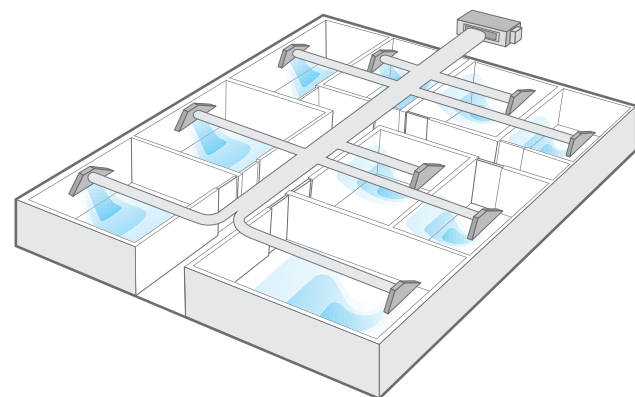
## Static Pressure 11 Steps Control

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



## Operation for Multiple Rooms

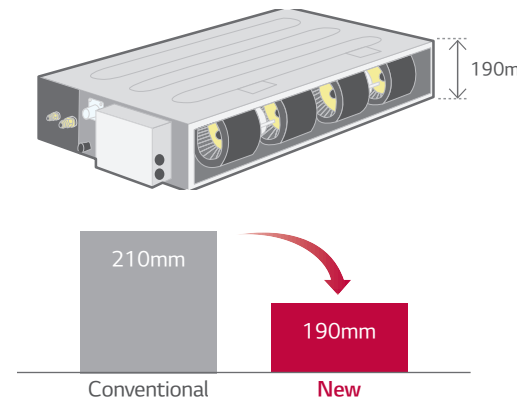
Using a spiral duct (Embedded or Flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



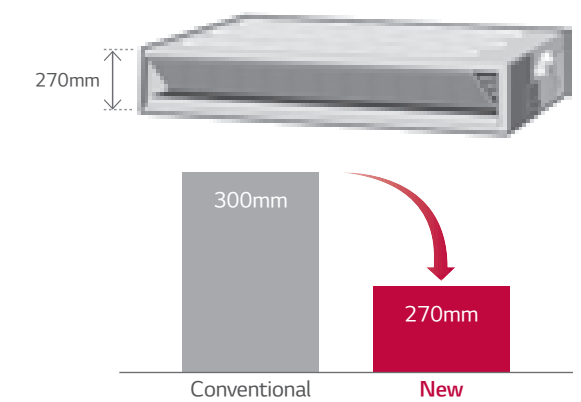
## Minimized Height

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

LOW STATIC

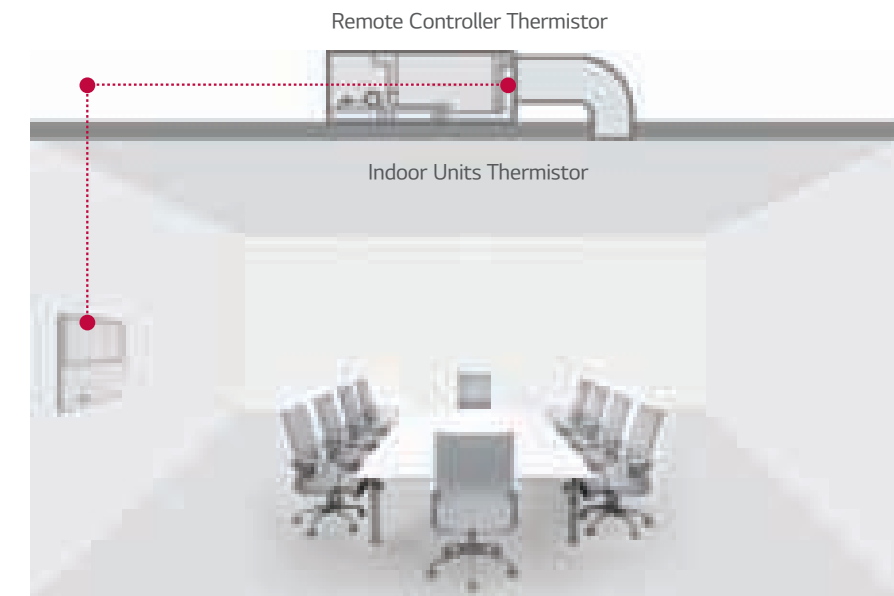


HIGH STATIC



## Two Thermistors Control

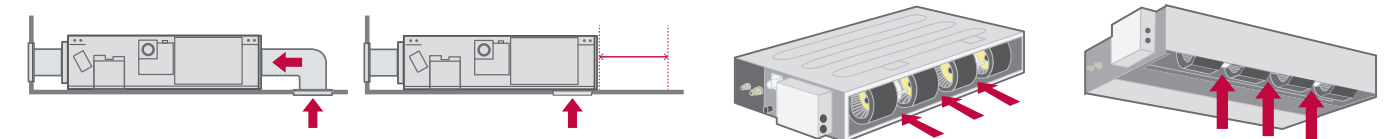
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimize indoor air temperature for a more comfortable environment.



## Flexible Installation (Low Static Duct Only)

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

Air intake at the rear or bottom



# CEILING CONCEALED DUCT

## Air Purification Operation

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

**Step 1**

**Pre-Filter**

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

**Step 2**

**UVnano**

- Sterilize bacteria and viruses parasitized on bacteria up to 99.99%<sup>1)</sup> by irradiating ultraviolet rays

**Step 3**

**MERV 13 Filter**

- Trap particles as small as 0.3µm in size<sup>2)</sup>
- 0.3µm-1.0µm : 50% ↑
- 1.0µm-3.0µm : 85% ↑
- 3.0µm-10.0µm : 90% ↑

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

2) Based on KCL (Korea Conformity Laboratories) test conducted in compliance with ASHRAE 52.2

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

### Easy Filter Management

#### Pre-Filter

- Reusable after washing with water
- Replacement recommended after washing 2-3 times



\*\* Using the warm water and the neutral detergent

#### UVnano

- Semi-Permanently without replacement



#### MERV 13 Filter

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

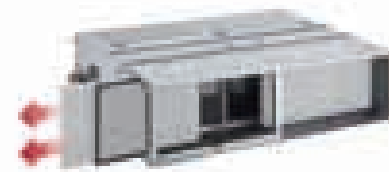


\*\* When replacing MERV 13 Filter, additionally checking the status of Pre-Filter is recommended

\*\* Standard III wired remote controller should be installed to check the accumulated usage time of MERV 13 Filter [If Standard III wired remote controller is not installed, the accumulated usage time of MERV 13 Filter can not be checked]

### Convenient Filter Replacement

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



# UV NANO FILTER BOX

PBM13M1UA0

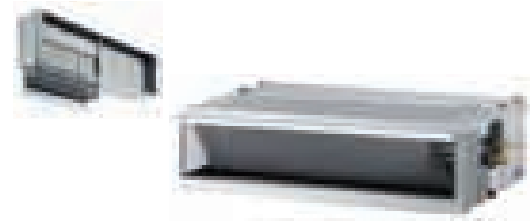


Model	Unit	PBM13M1UA0
Applied Model		ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4 / ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4
Net Size (W x H x D)	mm	900 x 270 x 280
Shipping Size (W x H x D)	mm	1,048 x 340 x 377
Net Weight	kg	9.1
Shipping Weight	kg	11.4
Filter (1)	Size (W x H x D)	600 x 251 x 50.8
	Quantity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

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

# HIGH STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4  
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4



Model	Unit	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions (W x H x D)	Body (Net)	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
	Body (Gross)	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
Fan	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0
		ft³/min	318 / 265 / 212	336 / 265 / 212	388 / 318 / 247	565 / 424 / 318	600 / 512 / 424
	External Static Pressure (Factory Set)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	External Static Pressure (Range)	mmAq (Pa)	2.5 (25)- 15 (147)	2.5 (25)- 15 (147)	2.5 (25)- 15 (147)	2.5 (25)- 15 (147)	2.5 (25)- 15 (147)
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Weight	Body (Net)	kg	25.5	25.5	25.5	25.5	26.5
	Body (Gross)	kg	31	31	31	31	31
Sound Pressure Levels (H / M / L)		dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25
Power Supply		∅, V, Hz	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60	1, 220-240, 50/60

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
• Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
• Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

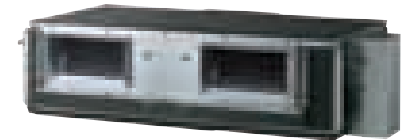
## Accessories

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump				○		
Refrigerant Leakage Detector				PRLDNVSO		
Multi-tenant Power Module				<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)				○		
Ventilation Kit				-		
IR Receiver				PWLRVN000		
Dry Contact (With Additional Accessory)				PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)				○		
Wi-Fi				PWFMD200		
UV Nano Filter Box (Air Purification)				PBM13M1UA0		

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

# HIGH STATIC

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



Model	Unit	JRNU28GBGA4	JRNU36GBGA4	JRNU42GBGA4	JRNU48GBGA4	JRNU54GBRA4	JRNU76GB8A4	JRNU96GB8A4	
Cooling Capacity	kW	8.2	10.6	12.3	14.1	15.8	22.4	28.0	
	kcal/h	7,100	9,100	10,600	12,100	13,600	19,300	24,100	
	Btu/h	28,000	36,200	42,000	48,100	54,000	76,400	95,900	
Heating Capacity	kW	9.2	11.9	13.8	15.9	18.0	25.2	31.5	
	kcal/h	8,000	10,200	11,000	13,600	15,500	21,700	27,100	
	Btu/h	31,500	40,600	43,800	54,200	61,400	86,000	107,500	
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	
Dimensions (W x H x D)	Body (Net)	mm	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,562 x 460 x 688	
	Body (Gross)	mm	1,415 x 360 x 565	1,415 x 360 x 565	1,415 x 360 x 565	1,415 x 360 x 565	1,420 x 460 x 695	1,806 x 537 x 825	
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	25.9 / 24.1 / 21.8	32.3 / 29.0 / 25.3	34.5 / 32.3 / 30.7	34.6 / 31.8 / 27.9	51.0 / 44.8 / 40.6	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
		ft³/min	915 / 851 / 770	1,141 / 1,024 / 894	1,218 / 1,141 / 1,084	1,222 / 1,123 / 986	1,801 / 1,582 / 1,434	2,119 / 1,766 / 1,766	2,542 / 2,260 / 2,260
	External Static Pressure (Factory Set)	mmAq (Pa)	10 (98)	10 (98)	10 (98)	10 (98)	14 (137)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	25.3 / 21.8 / 17.6	28.4 / 25.3 / 21.8	32.0 / 28.4 / 27.2	33.9 / 28.7 / 26.3	51.5 / 47.5 / 39.5	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
		ft³/min	893 / 770 / 622	1,003 / 894 / 770	1,130 / 1,003 / 961	1,198 / 1,014 / 929	1,819 / 1,678 / 1,395	2,260 / 1,766 / 1,766	2,684 / 2,260 / 2,260
	External Static pressure (Standard Mode)	mmAq (Pa)	8 (78)	8 (78)	8 (78)	8 (78)	10 (98)	15 (147)	15 (147)
External Static Pressure (Range)	mmAq (Pa)	5 (49) - 16 (157)	5 (49) - 16 (157)	5 (49) - 16 (157)	5 (49) - 16 (157)	5 (49) - 20 (196)	6 (59) - 25 (245)	6 (59) - 25 (245)	
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Side	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)	
Weight	Body (Net)	kg	38	38	38	38	53	87	
	Body (Gross)	kg	42.5	42.5	42.5	42.5	57	100	
Sound Pressure Levels (H / M / L)		dB(A)	33 / 31 / 28	33 / 31 / 28	36 / 33 / 30	41 / 38 / 37	39 / 37 / 35	45 / 41 / 40	
Power Supply		∅, 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	

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
• Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB  
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB  
• Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Accessories

Chassis	JRNU28GBGA4	JRNU36GBGA4	JRNU42GBGA4	JRNU48GBGA4	JRNU54GBRA4	JRNU76GB8A4	JRNU96GB8A4
Drain Pump				○			
Refrigerant Leakage Detector				PRLDNVSO			
Multi-tenant Power Module				<b>NEW</b> PINPMB001			
Pre Filter (Washable / Anti-fungus)				○			
Ventilation Kit				-			
IR Receiver				PWLRVN000			
Dry Contact (With Additional Accessory)				PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 Point)				○			
Wi-Fi				PWFMD200			

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

# LOW STATIC

JRNU09GL5G4 / JRNU12GL5G4 / JRNU15GL5G4 / JRNU18GL5G4 / JRNU24GL6G4



Model	Unit	JRNU09GL5G4	JRNU12GL5G4	JRNU15GL5G4	JRNU18GL5G4	JRNU24GL6G4	
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	
	kcal/h	2,400	3,100	3,900	4,800	6,100	
	Btu/h	9,600	12,300	15,400	19,100	24,200	
Heating capacity	kW	3.2	4.0	5.0	6.3	8.0	
	kcal/h	2,800	3,400	4,300	5,400	6,900	
	Btu/h	10,900	13,600	17,100	21,500	27,300	
Casing		Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	
Dimensions (W x H x D)	Body (Net)	mm	900 x 190 x 460	900 x 190 x 460	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
	Body (Gross)	mm	1,125 x 255 x 561	1,125 x 255 x 561	1,125 x 255 x 561	1,125 x 255 x 561	1,325 x 255 x 561
Fan	Air Flow Rate (H / M / L) (High Mode-Factory set)	m <sup>3</sup> /min	8.5 / 8.0 / 7.0	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
		ft <sup>3</sup> /min	300 / 283 / 247	360 / 310 / 250	450 / 360 / 300	530 / 450 / 360	710 / 570 / 430
	External Static Pressure (Factory Set)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m <sup>3</sup> /min	8.5 / 8.0 / 7.0	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
		ft <sup>3</sup> /min	300 / 283 / 247	360 / 310 / 250	450 / 360 / 300	530 / 450 / 360	710 / 570 / 430
	External Static pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
External Static Pressure (Range)	mmAq (Pa)	0 (0) - 5 (49)	0 (0) - 5 (49)	0 (0) - 5 (49)	0 (0) - 5 (49)	0 (0) - 5 (49)	
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm	25.0	25.0	25.0	25.0	25.0
Weight	Body (Net)	kg	20	20	20	20	22.2
	Body (Gross)	kg	22.2	22.2	22.2	22.2	25.8
Sound Pressure Levels (H / M / L)	dB(A)	30 / 29 / 26	29 / 27 / 25	32 / 29 / 27	35 / 32 / 29	36 / 33 / 29	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWb, Outdoor Ambient Temp. 35°CDB / 24°CWb  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWb, Outdoor Ambient Temp. 7°CDB / 6°CWb  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Accessories

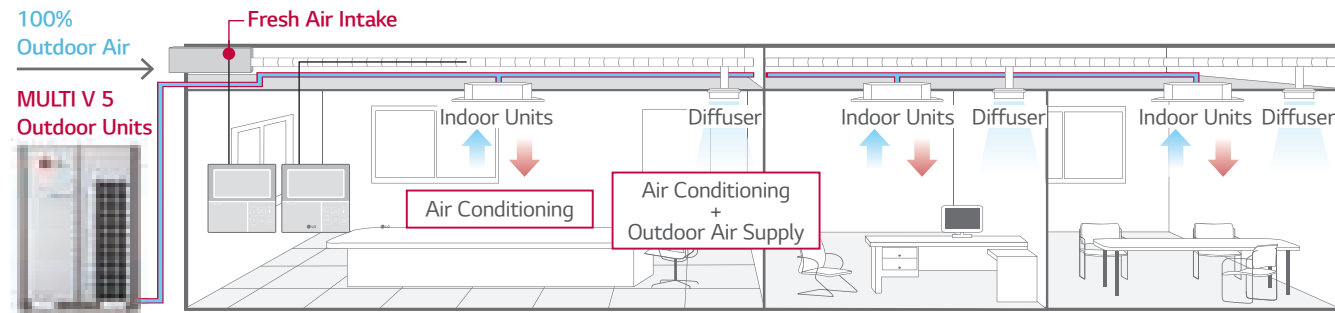
Chassis	JRNU09GL5G4	JRNU12GL5G4	JRNU15GL5G4	JRNU18GL5G4	JRNU24GL6G4
Drain Pump			○		
Refrigerant Leakage Detector			PRLDNVSO		
Multi-tenant Power Module			<b>NEW</b> PINPMB001		
Pre Filter (Washable / Anti-fungus)			○		
Ventilation Kit			-		
IR Receiver			PWLRVN000		
Dry Contact (With Additional Accessory)			PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 Point)			○		
Wi-Fi			PWFMD200		

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

# FRESH AIR INTAKE

## Fresh Outdoor Air Supply

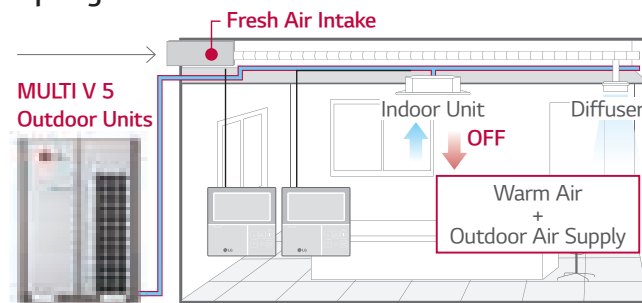
The LG Fresh Air Intake (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated air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



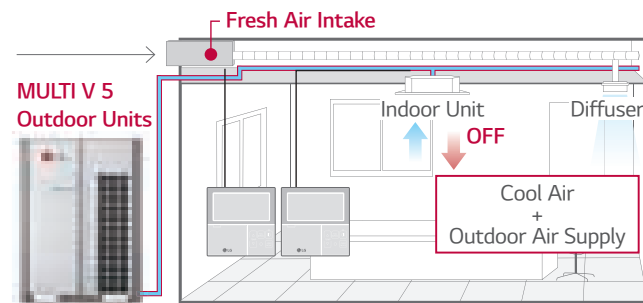
## Economic Operation

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

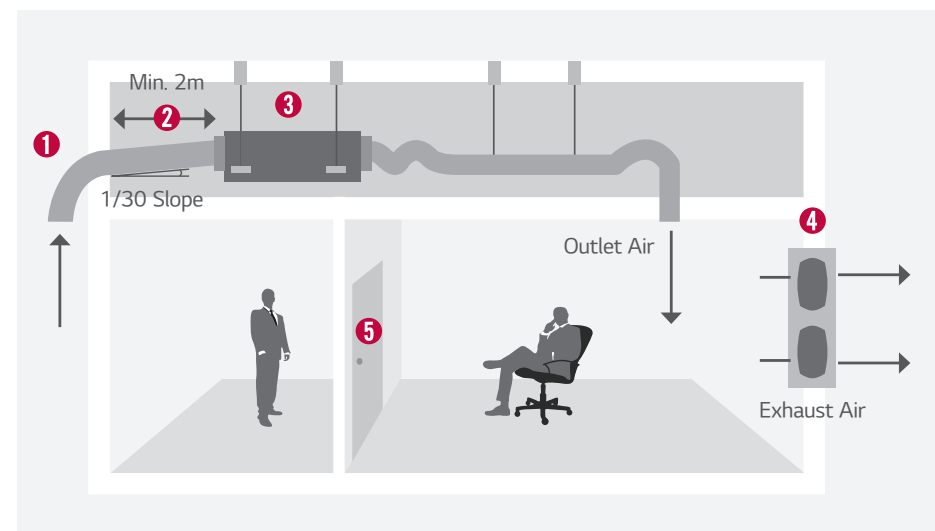
### Spring Season



### Autumn Season



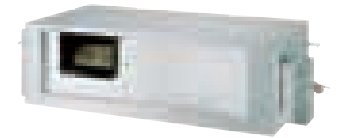
## Installation Scene



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

# FRESH AIR INTAKE

ARNU76GB8Z4 / ARNU96GB8Z4



Model	Unit	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity	kW	22.4	28.0
	kcal/h	19,300	24,100
	Btu/h	76,400	95,900
Heating Capacity	kW	21.4	26.7
	kcal/h	18,410	23,000
	Btu/h	73,080	91,360
Casing		Galvanized Steel Plate	
Dimensions (W x H x D)	Body (Net)	mm 1,562 x 460 x 688	1,562 x 460 x 688
	Body (Gross)	mm 1,806 x 537 x 825	1,806 x 537 x 825
Fan	Air Flow Rate (H / M / L) (High static Mode-factory set)	m <sup>3</sup> /min 23.7 / 13.2 / 13.2 ft <sup>3</sup> /min 837 / 446 / 446	35.7 / 23.7 / 23.7 1,261 / 837 / 837
	External Static Pressure (Factory Set)	mmAq (Pa) 22 (216)	22 (216)
	External Static Pressure (Range)	mmAq (Pa) 7 (69) - 25 (245)	7 (69) - 25 (245)
Pipe Connections	Liquid Side	mm (inch) 9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch) 19.05 (3/4)	22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm 25	25
Weight	Body (Net)	kg 73	73
	Body (Gross)	kg 81.65	87
Sound Pressure Levels (H / M / L)		dB(A) 45 / 43 / 43	
Power Supply		Ø, V, Hz 1, 220-240, 50/60	

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

### CAUTION

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

No	Connection Condition	Combination
1	Fresh air intake only are connected with outdoor units	1) The total capacity of fresh air intake 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) should be 50 - 100% of outdoor unit. 2) The total capacity of fresh air intake should be less than 30% of the total capacity of indoor units.

## Accessories

Chassis	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump	-	-
Refrigerant Leakage Detector	-	PRLDNV50
Multi-tenant Power Module	-	NEW PINPMB001
Pre Filter (Washable / Anti-fungus)	-	○
Ventilation Kit	-	-
IR Receiver	-	PWLRVN000
Dry Contact (With Additional Accessory)	-	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 Point)	-	○
Wi-Fi	-	PWFMD200

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



# FLOOR STANDING



## Features & Benefits

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

## Key Applications

- Factory
- Retail
- Shop
- Office
- Restaurant

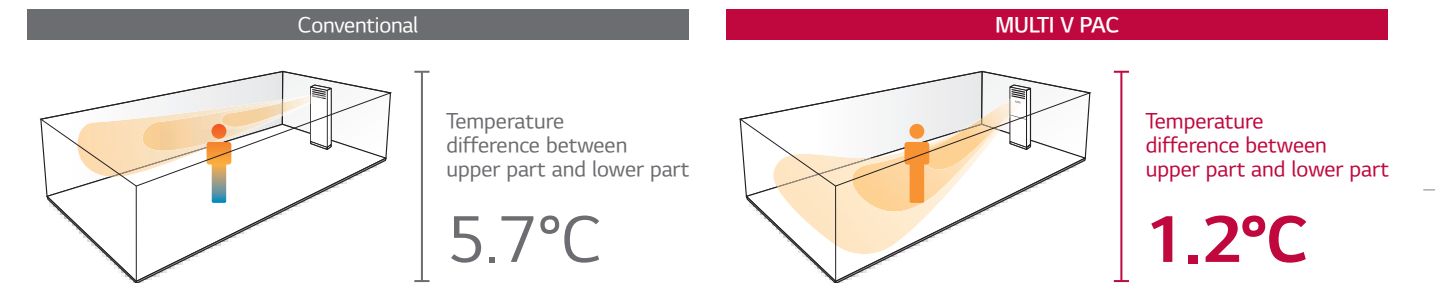
## Simple & Elegant Design

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



## Less Temperature Difference

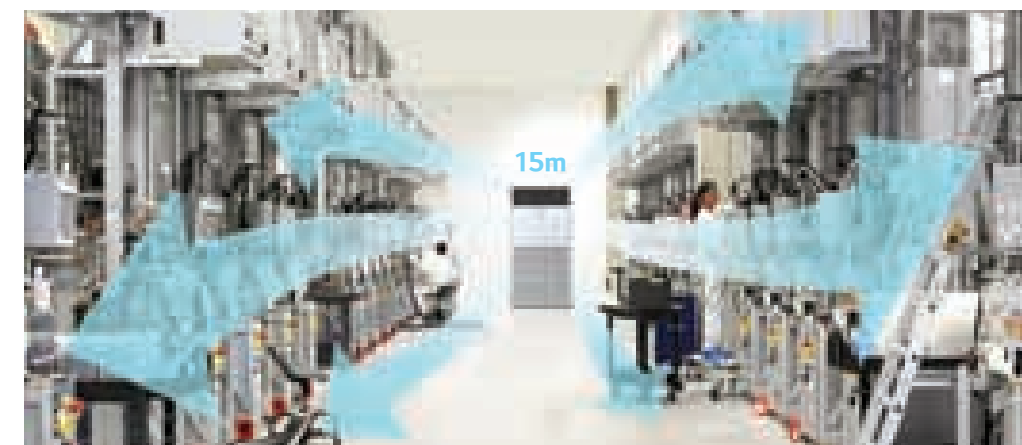
Power cooling and heating will minimize the temperature difference between upper part and lower part of the room.



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

## 15m Long Power Cooling

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



※ Based on 131.8m<sup>2</sup>

Type	Floor Standing
Air Flow (m <sup>3</sup> /min)	68

# FLOOR STANDING

ARNU48GPTA4 / ARNU96GPFA4



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

Note : 1. Due to our policy of innovation some specifications may be changed without notification.  
 2. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.  
 • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWb, Outdoor Ambient Temp. 35°CDB / 24°CWb  
 • Heating : Indoor Ambient Temp. 20°CDB / 15°CWb, Outdoor Ambient Temp. 7°CDB / 6°CWb  
 • Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Accessories

Chassis	ARNU48GPTA4	ARNU96GPFA4
Drain Pump	-	-
Refrigerant Leakage Detector	PRLDNVSO	-
Multi-tenant Power Module	<span style="color: red;">NEW</span> PINPMB001	-
Pre Filter (Washable / Anti-fungus)	○	-
Ventilation Kit	-	-
IR Receiver	-	-
Dry Contact (With Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (8 Points for thermostat compatible + Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	-
External Input (1 Point)	○	-
Wi-Fi	PWFMDD200	-

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

OUTDOOR UNITS

INDOOR UNITS

HOT WATER SOLUTION

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

ACCESSORIES

# COMPATIBILITY

No.	New Function Name (4 <sup>th</sup> generation indoor)	Function Description	Required Controller		Remarks
			Wired Remote Controller	Centralized Controller	
1	Energy Monitoring (Accumulated Electric Energy Check)	Monitoring accumulated power consumption by Wired Remote Controller	○	○	* Necessary to install the PDI (Power Distribution Indicator) and central controller
		Monitoring accumulated power consumption by Central Control Device / PDI	-	○	* Necessary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	2 Set Point	1) 2 set point control by Indoor and Central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring)	○	○	* Wired remote controller and central controller must be installed
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronization according to occupied / unoccupied by Indoor and Central control 2) Synchronization icon with remote controller (Synchronization Monitoring)	○	○	* Centralized control is able to when you combine only 4 <sup>th</sup> generation indoor units (Use together with 2 <sup>nd</sup> generation and 4 <sup>th</sup> generation indoors, only wired remote controller is able to set this function as existing way) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.)
4	Group Control	Group Control can use Additional function	○	○	* Check more details in PDB (Product Data Book) * Central controller can create and control group.
5	Test Run (Heating)	Test run mode can be operated in cooling mode and heating mode for easy service	○	-	
6	Model Information Monitoring	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	○	-	
7	Indoor Unit Address Checking	Wired remote controller can check indoor unit address information	○	-	
8	Refrigerant Leakage Detection	Function error sign display when refrigerant leakage occurred	○	○	* Central controller has been installed, CH230 error code can be recognized (Old/New Same) * Without Central Controller, it is able to recognize with wired remote controller (CH230) * Accessory PRLDNVS0 must be separately ordered
9	Thermo On / Off range Setting (Cooling)	User can set cooling thermo On / Off range with wired remote controller for prevention overcooling	○	-	* Thermo On / Off temperature setting (3 step)
10	Thermo On / Off range Setting (Heating)	User can set heating thermo On / Off range with wired remote controller for prevention overheating. (4 Steps)	○	-	* Thermo On / Off temperature setting (4 step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4 <sup>th</sup> generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	○	-	* Only applied in Ceiling Concealed Duct
12	1 point External Input (On / Off control)	Indoor unit can control external devices without purchasing Dry contact as an accessory (All 4 <sup>th</sup> generation indoors)	○	-	* Simple On / Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted / FAU / Floor Standing : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen	○	○	* The alarm activates on the central controller, but the remaining time is not displayed.
14	Auto Restart Function Disable / Enable	After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off	○	-	
15	Indoor Humidity Display	Monitoring indoor humidity Wired Remote Controller	○	○	* Available only with MULTI V 5
16	Comfort Cooling Setting	Set the outdoor unit Comfort cooling operation value	○	○	* Available only with MULTI V 5
17	Smart Load Control Setting	Change the outdoor unit's Smart Load Control stage value.	○	○	* Available only with MULTI V 5
18	ODU Refrigerant Noise Reduction Setting	Set the outdoor unit's refrigerant noise reduction function	○	○	* Available only with MULTI V 5
19	Low Noise Mode Time Setting	Set the start and end time of the outdoor unit's low noise mode operation	○	○	* Available only with MULTI V 5
20	Human Detection	Detect human existence, location. 1. Unoccupied off / power saving temp. 2. Direct / In-direct wind.	○	○	* Available only with 4 <sup>th</sup> generation 4 Way CST.
21	Air Purification	Clean indoor dust automatically	○	○	* Available for 4 <sup>th</sup> generation 1 Way, 4 Way CST.

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

# FEATURE FUNCTIONS

	Wired Remote Controller				Centralized Controller				
	Premium (PREMTA000)	Standard III (PREMTB100)	Standard II (PREMTB001)	Simple (PQRCVCL0QW)	AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart 5 (PAC55A000)	ACP 5 (PACP5A000)	AC Manager 5 (PACM5A000)
○	○	○	○	-	-	○	○	○	○
-	-	-	-	-	-	○	○	○	○
○	○	-	-	-	-	○	○	○	○
○	○	-	-	-	-	○	○	○	○
○	○	○	○	-	-	-	-	-	-
○	○	○	○	-	-	-	-	-	-
○	○	○	○	-	-	-	-	-	-
○	○	○	○	-	-	○	○	○	-
○	○	○	-	-	-	-	-	-	-
○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	-	-	-	-	-	-
○	○	○	○	-	-	-	-	-	-
-	○	○	-	-	-	-	-	-	-
○	○	-	-	○	○	○	○	○	○
○	○	○	-	-	-	-	-	-	-
-	○	-	-	-	-	○	○	○	-
-	○	-	-	-	-	-	○	○	-
-	○	-	-	-	-	○	○	○	-
-	○	-	-	-	-	-	○	○	-

※ ○ : Applied, - : Not applied

OUTDOOR UNITS

INDOOR UNITS

HOT WATER SOLUTION

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

ACCESSORIES

# COMPATIBILITY

Controller	Premium	Standard III	Standard II	Simple	Wireless	Dry Contact			
Product	PREMTA000	PREMTB100	PREMTB001	PQRCVCOQW	PWLSSB21H	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB320	For Modbus PDRYCB500 / PDRYCB510 (w/o case)
Round Cassette	○	○	○	○	○	○	○	○	○
Ceiling Mounted Cassette	4 Way	○	○	○	○	○	○	○	○
	2 Way / 1 Way	○	○	○	○	○	○	○	○
Ceiling Concealed Duct	High Static	○	○	○	○	△	○	○	○
	Low Static	○	○	○	○	△	○	○	○
FAU (Fresh Air Intake)	○	○	○	○	△	○	○	○	○
Wall Mounted	○	○	○	○	○	○	○	○	○
Floor Standing	○	○	○	○	○	○	○	○	○
HYDRO KIT <sup>1)</sup>	-	-	-	-	-	○	-	○	-
Ventilation 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 Controller
	Premium	Standard III	Standard II	Simple		
Model Name						
	PREMTA000	PREMTB100	PREMTB001	PQRCVCL0QW	PWLSSB21H	PWFMD200
Basic	On / Off	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○
	Temperature Setting	○	○	○	○	○
	Mode Change	○	○	○	○	○
	Auto Swing	○	○	○	○	○
	Vane Control (Louver Angle)	○	○	○	○	○
	E.SP (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
	Additional Mode Setting <sup>1)</sup>	○	○	○	-	-
	Time Display	○	○	○	-	○
	Humid. Display	○	○	-	-	-
	Advanced Lock (mode, set point, set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-
	Filter Sign	○	○	○	-	-
	Energy Management <sup>2)</sup>	○	○	○	-	-
	Dual Set Point	○	○	-	-	-
	Human Detection	-	○	-	-	-
	Temp., Humidity Compensation	○	○	-	-	-
Wi-Fi AP mode setting	○	○	○	○	○	
ETC	Operation Status LED	○	○	○	○	-
	Wireless Remote Controller Receiver	○ <sup>3)</sup>	-	○ <sup>3)</sup>	○ <sup>3)</sup>	-
	Display	5 inch Color	4.3 inch Color	4.3 inch Mono	2.6 inch Mono	2 inch Mono
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	51 x 153 x 26
Black Light Control for Screen Saver	○	○	-	-	-	

※ ○: Applied, - : Not Applied  
 1) It might not be indicated or operated at the partial product  
 2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000) 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)

OUTDOOR UNITS

INDOOR UNITS

HOT WATER SOLUTION

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

ACCESSORIES

# HOT WATER SOLUTIONS

• HYDRO KIT





# HYDRO KIT

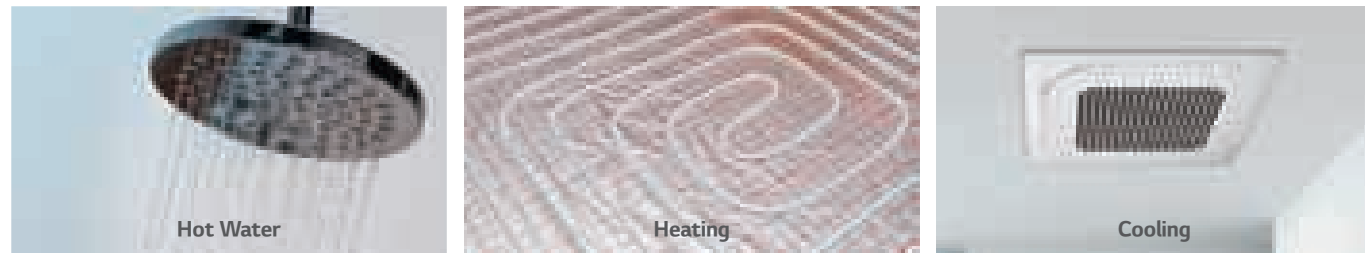
## HYDRO KIT Features

### Features & Benefits

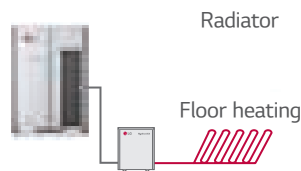
- Lower operation cost compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V system.

### Key Applications

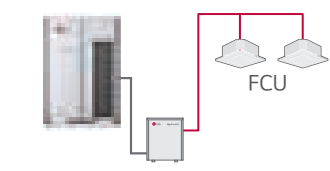
- Where hot water is needed such as domestic hot water, in-floor or radiant heat. Where cold water is needed such as fan coil unit and chilled beam.



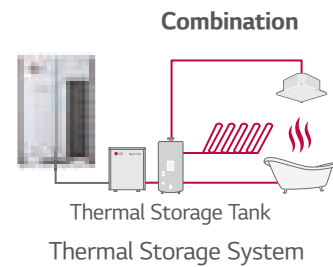
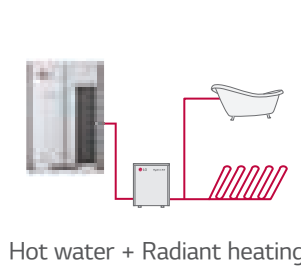
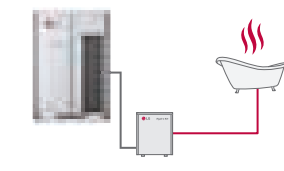
### Radiant Heating / Cooling



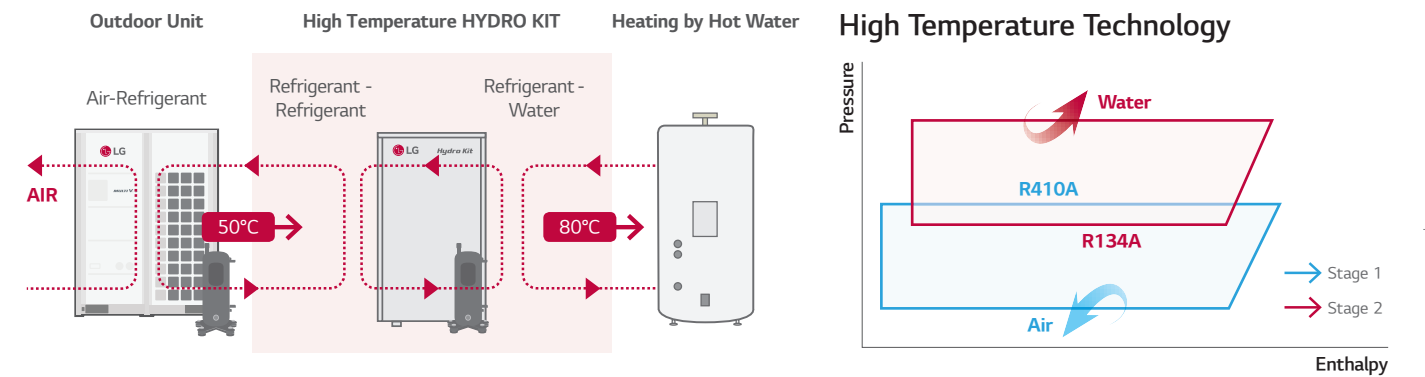
### Fan Coil Unit Heating / Cooling



### Hot Water / Cooled Water

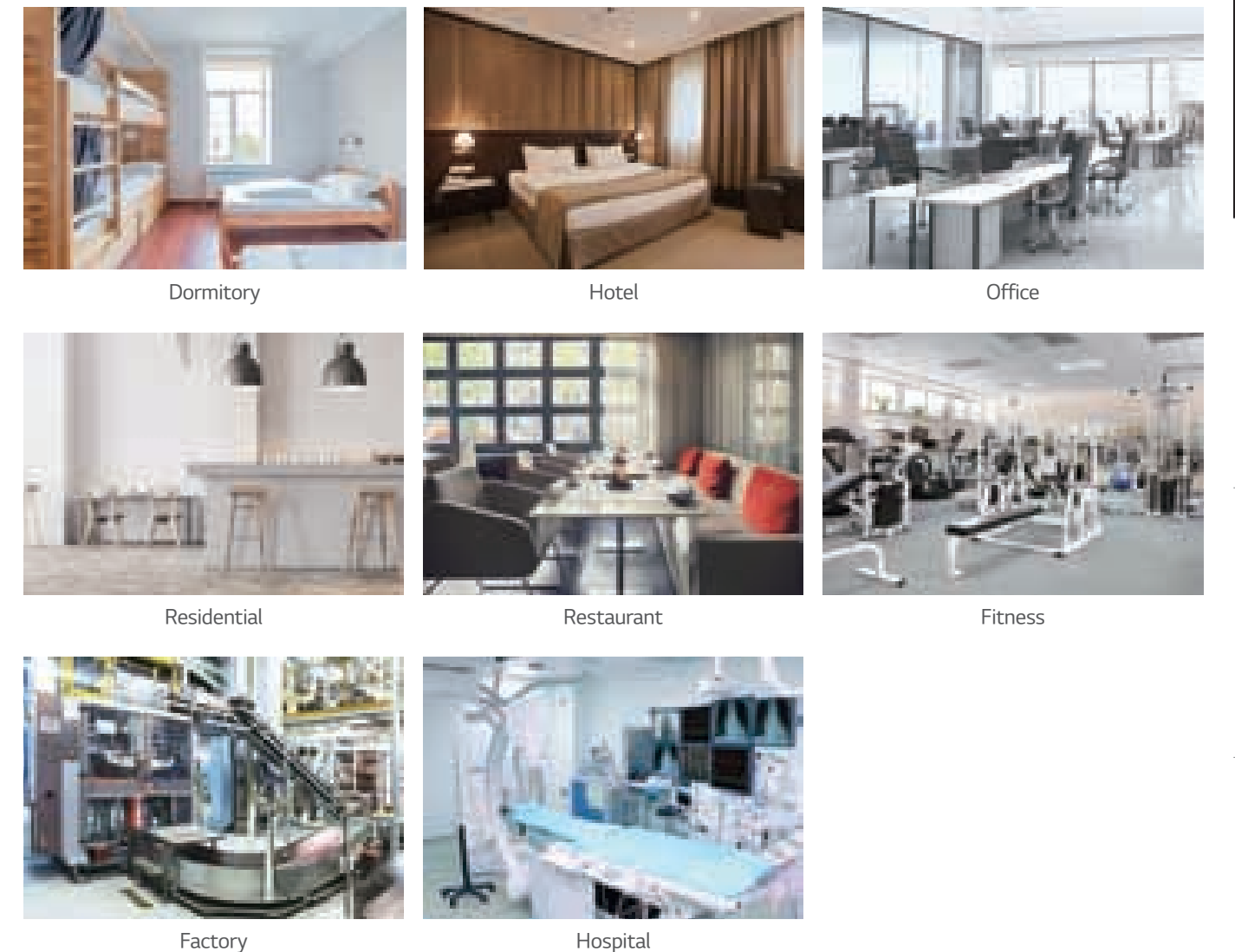


## High Temperature HYDRO KIT Cycle Diagram



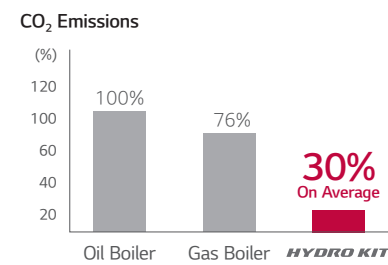
## Various Applications

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



## Eco-friendly Green Energy Solution

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



## High Temperature Concept of HYDRO KIT

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

### Dual Inverter Cascade Cycle Technology

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

### High Volume of Hot Water

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

# HYDRO KIT

## MEDIUM TEMPERATURE

ARNH04GK2A4 / ARNH10GK2A4



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

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

2. Capacities are based on the following conditions : Specifications for calculating the real capacity.

- Cooling Temperature : Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB, Water Inlet 23°C(73.4°F) / Outlet 18°C(64.4°F)
- Heating Temperature : Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB, Water Inlet 30°C(86°F) / Outlet 35°C(95°F)
- Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Accessories

Chassis	ARNH04GK2A4	ARNH10GK2A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit	-	-
Independent Power Module		○
Robot Cleaner	-	-
Pre Filter (Washable / Anti-fungus)	-	-
Ion Generator	-	-
CO <sub>2</sub> Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320(8 points for thermostat compatible)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

## HIGH TEMPERATURE

ARNH04GK3A4 / ARNH08GK3A4



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

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

2. Capacities are based on the following conditions : Specifications for calculating the real capacity.

- Cooling Temperature : Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB, Water Inlet 23°C(73.4°F) / Outlet 18°C(64.4°F)
- Heating Temperature : Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB, Water Inlet 30°C(86°F) / Outlet 35°C(95°F)
- Interconnected Pipe is standard length and difference of Elevation (Outdoor - Indoor Unit) is Zero.

## Accessories

Chassis	ARNH04GK3A4	ARNH08GK3A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit	-	-
Independent Power Module		○
Robot Cleaner	-	-
Pre Filter (Washable / Anti-fungus)	-	-
Ion Generator	-	-
CO <sub>2</sub> Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320(8 points for thermostat compatible)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

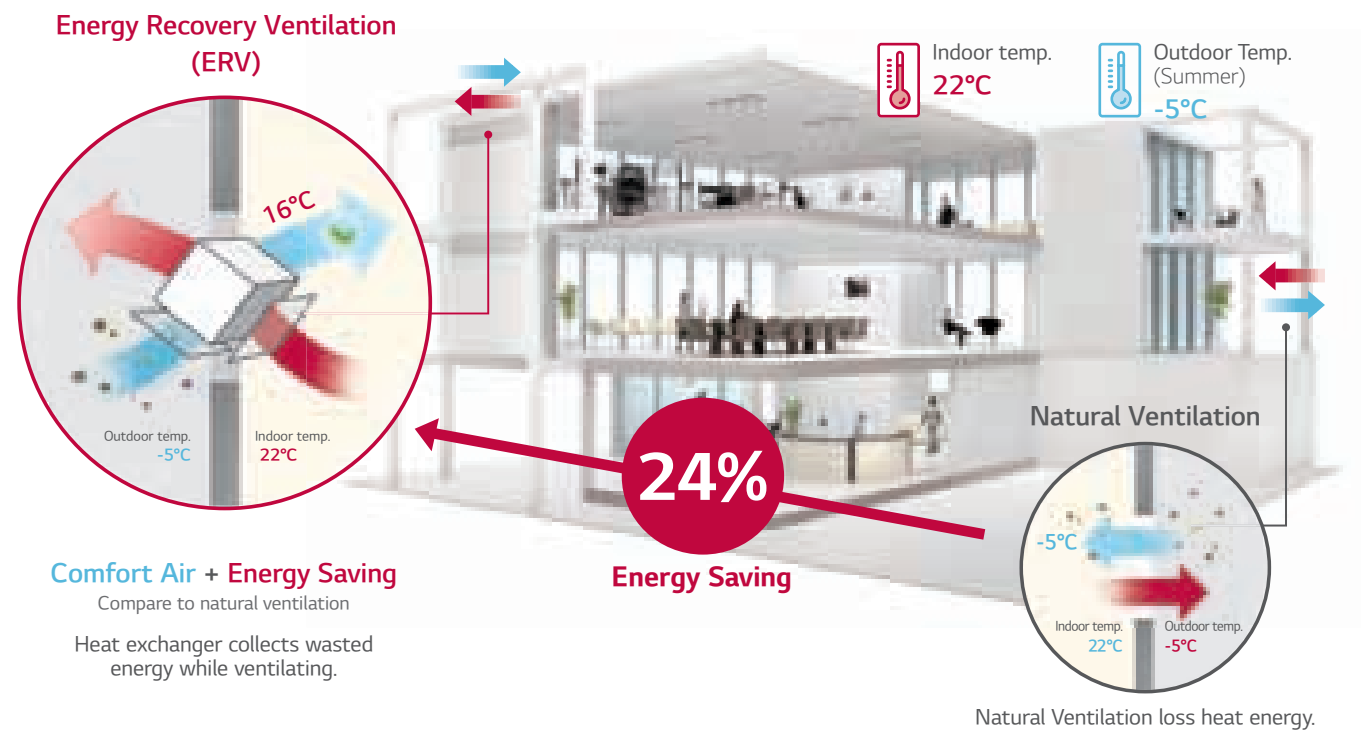
# VENTILATION SOLUTIONS

- ERV
- ERV WITH DX COIL
- RESIDENTIAL ERV



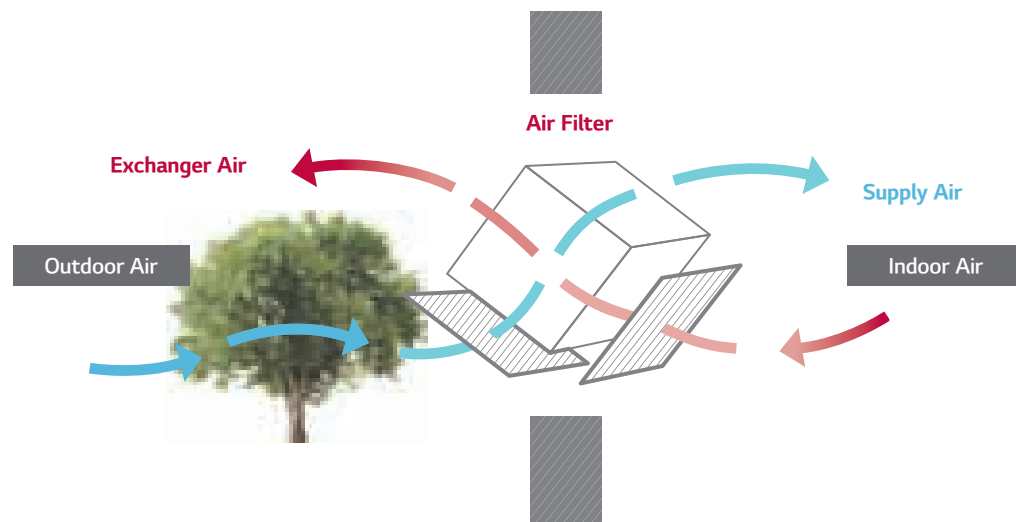
# ERV

## Necessity of ERV



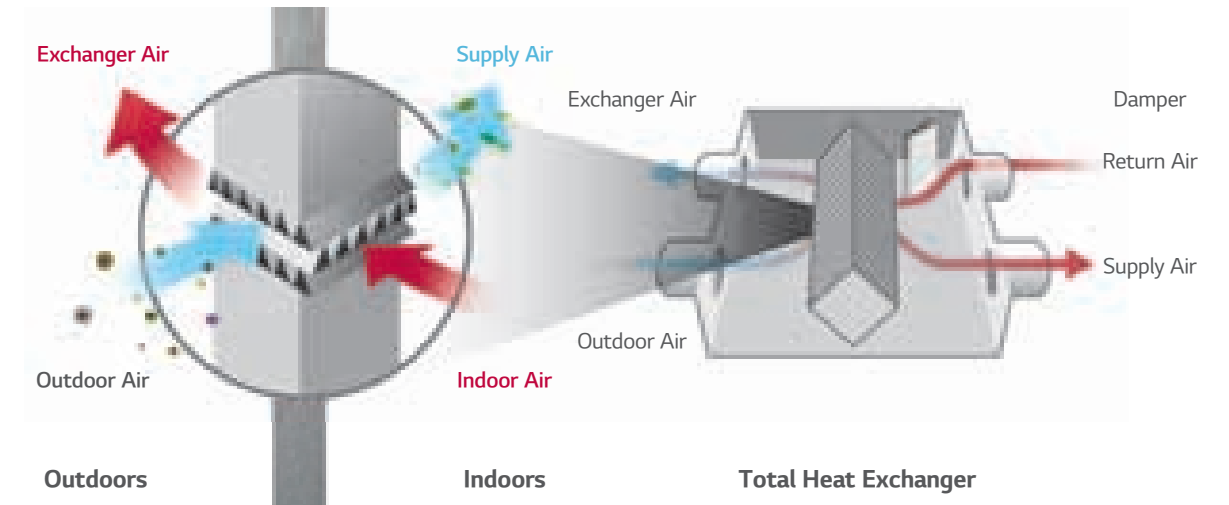
## High Efficiency Heat Exchanger

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



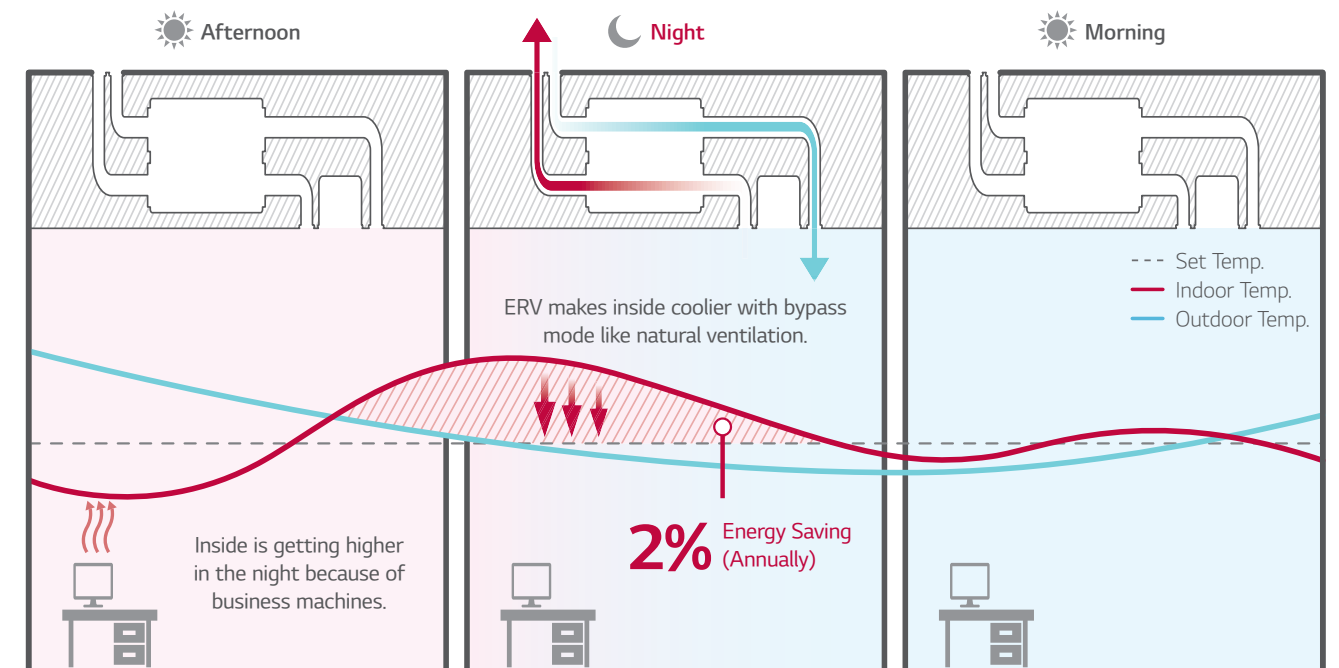
## Cross Flow System

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



## Night Time Free Cooling

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

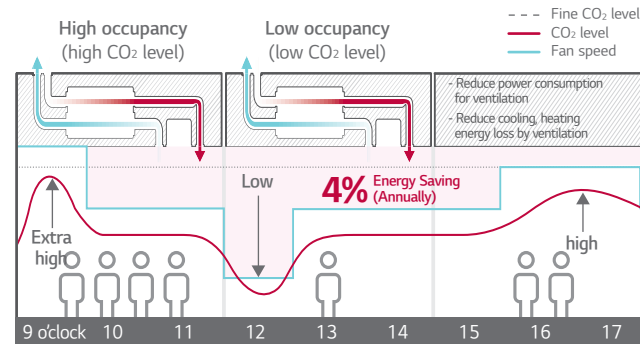


※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition  
 - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination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

# ERV

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

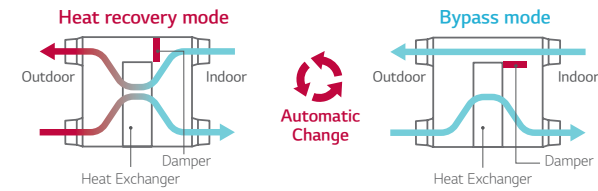
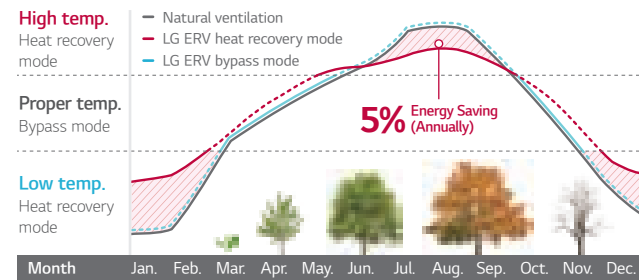
LG ERV reduces energy loss with auto fan speed control following CO<sub>2</sub> level.



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

## Seasonal Auto Operation

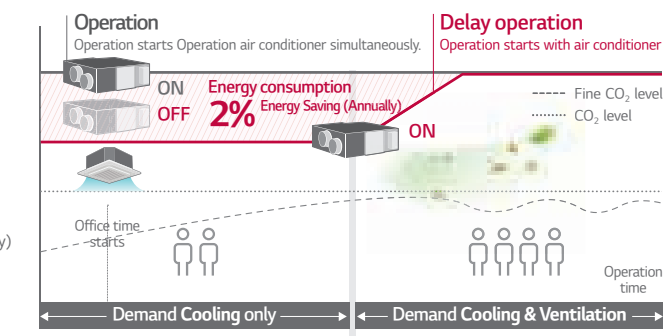
LG ERV senses outdoor temperature and operates automatically following weather conditions.



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



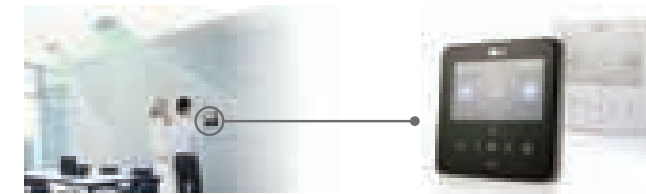
- ※ This function is operated with 'Night Time Free Cooling' on remote controller.(with MULTI V only)
- ※ Energy saving ratio can be differed by weather condition.
- ※ Test Condition - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination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

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

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

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

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



### Main display

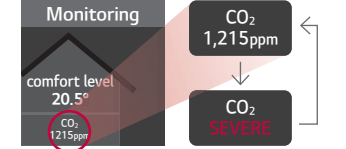
If the CO<sub>2</sub> level is above 900ppm in the room, the red mark is on.



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

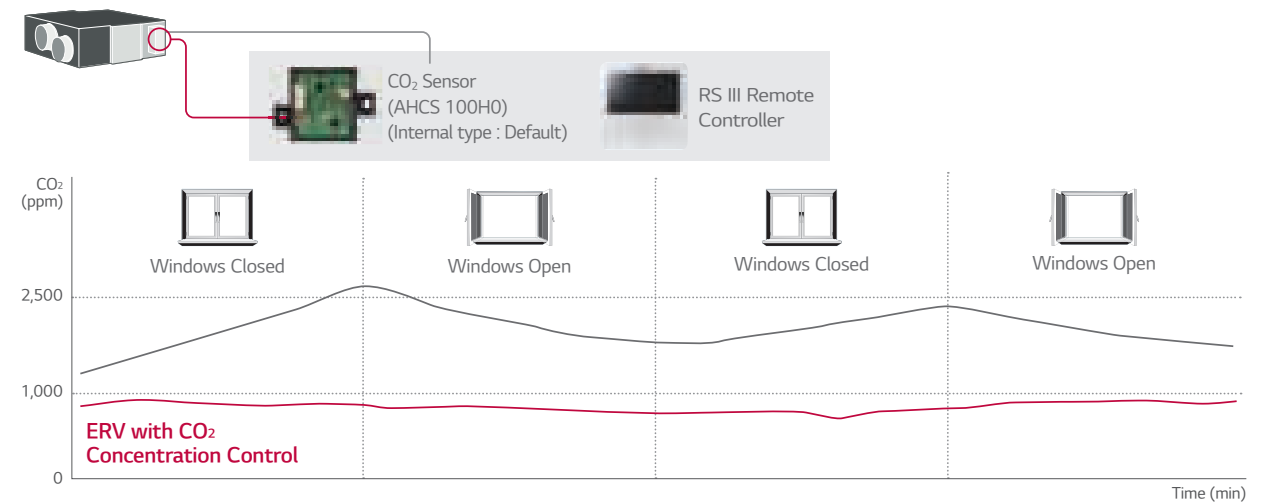
### Further information

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



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

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



## High Durability

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





# ERV

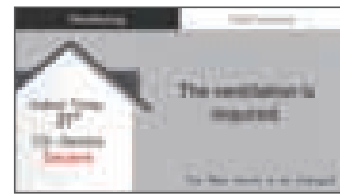
## Easy Control

Wired remote controller is easy for usage.



### Easy

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



### Display

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



### Convenient

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

## Group Control

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

### Several units combination

16 units group control is available with 1 remote controller.



Good looking interior



Conventional

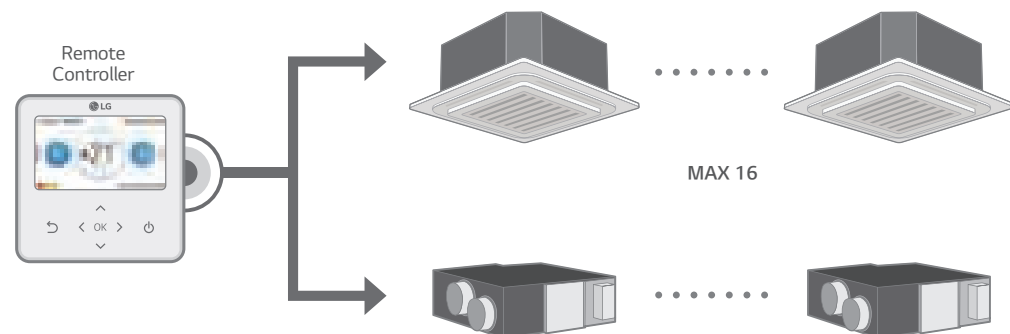
New

Controller & installation cost saving



## Interlocking with Air Conditioning System

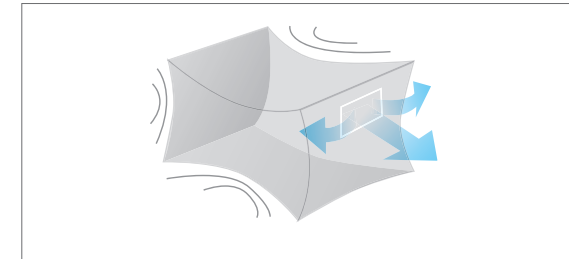
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



## Fast Ventilation Mode

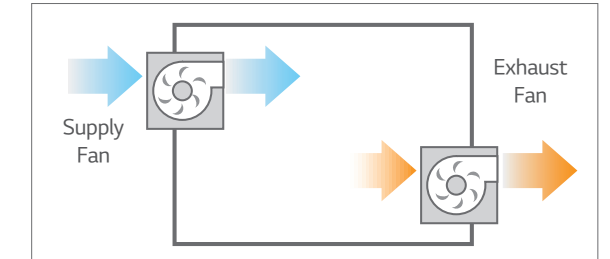
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

### Only Exhausting



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

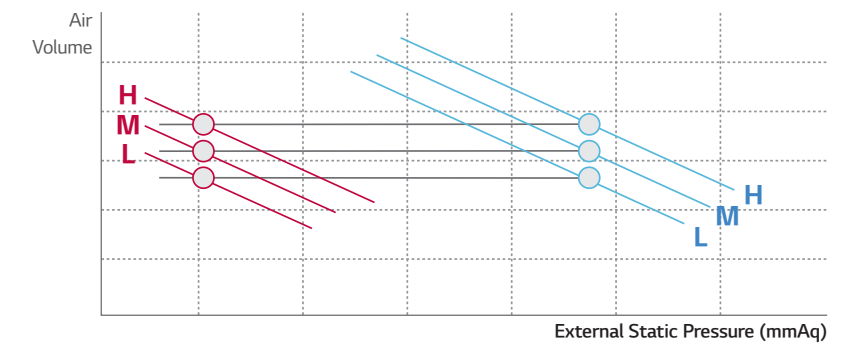
### Fast Ventilation Mode



Exhausting and Supplying Simultaneously

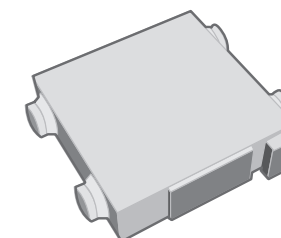
## External Static Pressure Control

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.

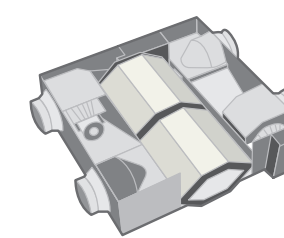


## Easy Cleaning and Filter Change

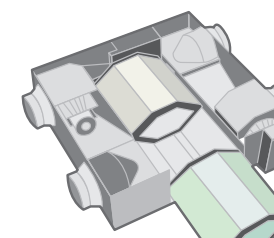
It is easy and convenient to change and clean the filter.



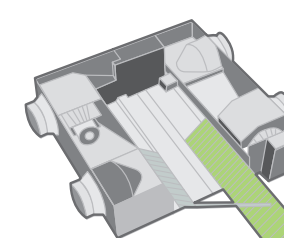
ERV Unit



Remove Side Panel



Remove Heat Exchanger



Change Filter

# ERV

LZ-H025GBA4 / LZ-H035GBA5 / LZ-H050GBA5



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

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

## Accessories

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

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

# ERV

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



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

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

## Accessories

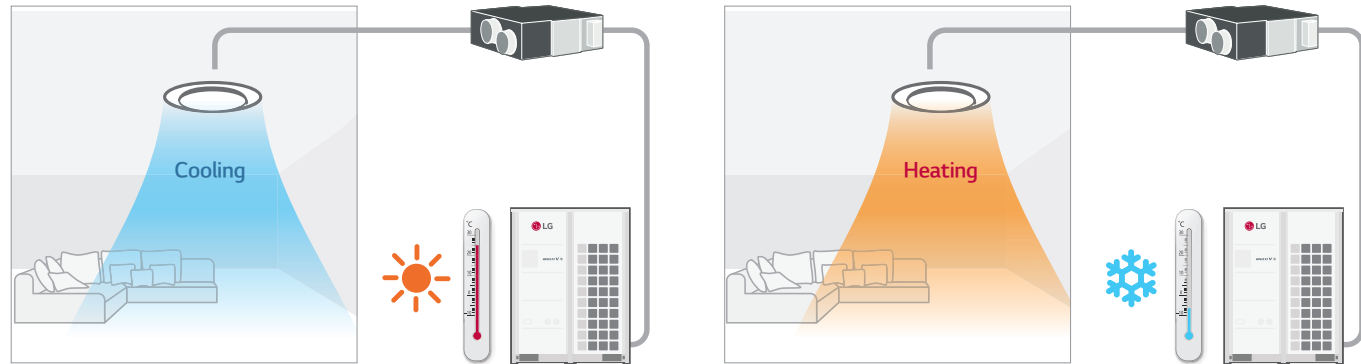
Chassis	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5
Drain Pump		-	-	-
Cassette Cover		-	-	-
Refrigerant Leakage Detector		-	-	-
EEV Kit		-	-	-
Multi-tenant Power Module		-	-	-
Robot Cleaner		-	-	-
Pre Filter (Washable)		-	-	-
Ion Generator		-	-	-
CO <sub>2</sub> Sensor		-	○	-
Ventilation Kit		-	-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

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

# ERV WITH DX COIL

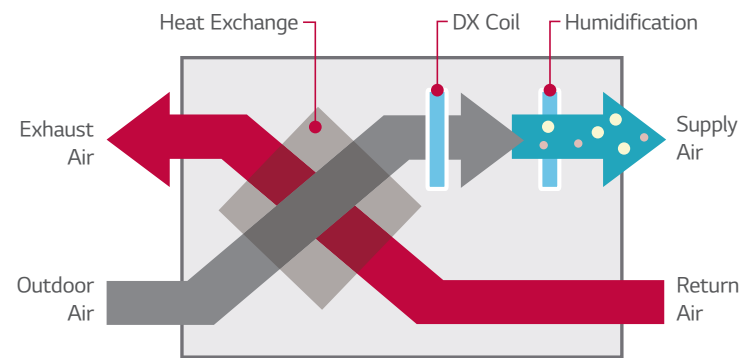
## Providing Cool & Warm Fresh Air

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



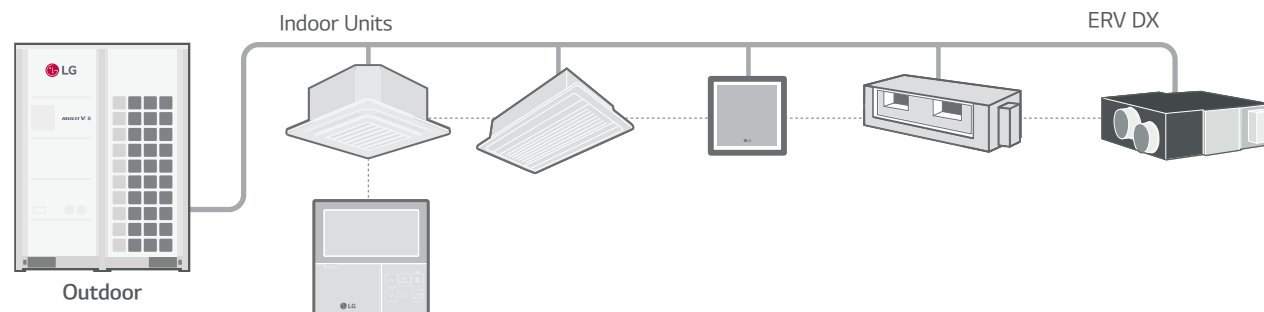
## Total Air Conditioning Solution

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



## Interlocking with MULTI V

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



# ERV WITH DX COIL

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



Model		LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air	Cooling	kW	4.93	7.46	9.12	4.93	7.46
Conditioning Load	Heating	kW	6.73	9.80	11.72	6.73	9.80
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81
Enthalpy Exchange Efficiency	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66	76 / 76 / 77	67 / 67 / 69
Operation Range	Outdoor air Temperature	°C	-15 - 45	-15 - 45	-15 - 45	-15 - 45	-15 - 45
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80
	System		Natural Evaporating Type				
Humidifier	Amount	kg/h	2.70	4.00	5.40		
	Pressure Feed Water	Mpa	0.02 - 0.49				
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36
Refrigerant		R410A					
Power Supply		Ø, V, Hz					
		1, 220-240, 50,60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5
Heat Exchange System		Air to air cross flow total heat (Sensible + Latent heat) exchange			Air to air cross flow total heat (Sensible + Latent heat) exchange		
Heat Exchange Element		Specially processed non-flammable paper			Specially processed non-flammable paper		
Air Filter		Multidirectional fibrous fleeces			Multidirectional fibrous fleeces		
Dimensions	W x H x D	mm	1,667 x 365 x 1,140			1,667 x 365 x 1,140	
Net Weight		kg	105			98	
	Liquid	mm	Ø6.35			Ø6.35	
Piping	Gas	mm	Ø12.7			Ø12.7	
	Water	mm	Ø6.35			-	
Connection	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)			Ø25 (1)	
	Connection Duct Diameter	mm	Ø250			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	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump						
Cassette Cover						
Refrigerant Leakage Detector						PRLDNV50
EEV Kit						
Multi-tenant Power Module						
Robot Cleaner						
Pre Filter (Washable)						
Ion Generator						
CO <sub>2</sub> Sensor						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

# RESIDENTIAL ERV

## Supply Clean Air

① Remove Up to 99.99% of Harmful Particles on Pre-Filter with UV nano

**UV nano**

UV nano is a compound word of UV (ultraviolet) LED which reduces harmful bacteria, and nanometer which is the UV wavelength unit.





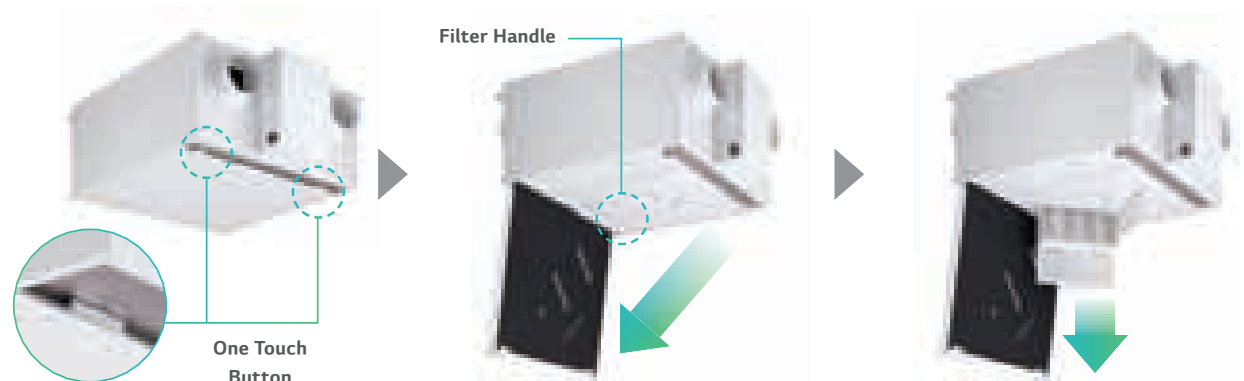
UV nano Technology Applied



It Prevents 99.99 % of Bacteria and Viruses from Growing

## Easy Filter Maintenance

Via the one-touch button, the user can open the access door at the bottom of the unit, pull down the heat exchanger to change the filters. It is easy and simple without the need of any additional tools.



**One Touch Button**

**Filter Handle**

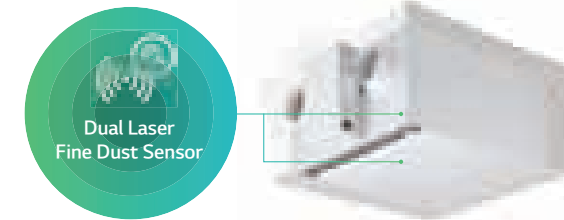
After pressing the one-touch button, unhook the safety hooks that holds door from failing to fully open the door.

Hold the filter handle and pull it out down.

## Smart Control

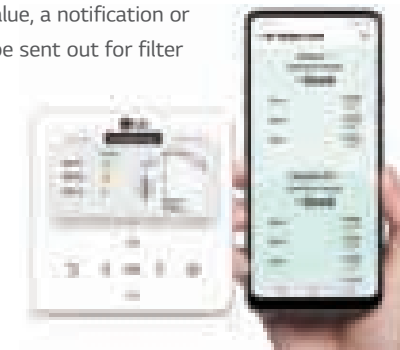
### ① Dual Laser Fine Dust Sensor

Two fine dust sensors monitor the incoming air and the supplied air to the room in real time to ensure that clean air is always supplied.



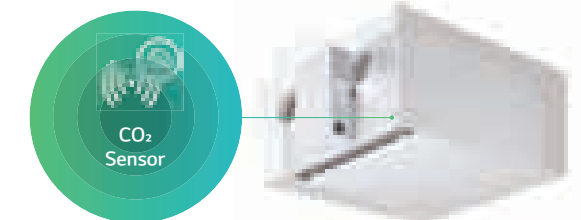
When the measured dust concentration in the air supplied to the room is higher than the pre-set value, a notification or text message will be sent out for filter replacement.

\* Wi-Fi Modem is Optional.



### ② CO<sub>2</sub> Monitoring

The embedded CO<sub>2</sub> sensor monitors the carbon dioxide concentration in the room in real time and automatically controls the ventilation rate.



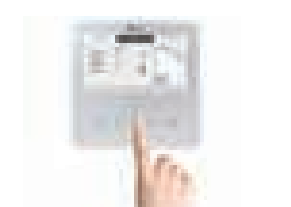
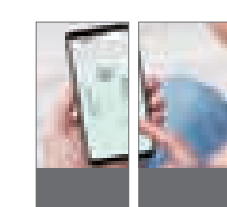

It monitor CO<sub>2</sub> concentration in the room. It increases the ventilation rate. when the concentration of carbon dioxide is high, and automatically reduces the ventilation rate. if it is low.

\* Wi-Fi Modem is Optional.

\* CO<sub>2</sub> Sensor is Embedded.



### ③ Control ERV Anytime, Anywhere

Wired Remote Control	Mobile	Third-Party Compatibility
		
<ul style="list-style-type: none"> <li>- Indoor CO<sub>2</sub> concentration</li> <li>- Dust concentration in the supply air</li> <li>- Dust concentration in outdoor air</li> </ul>	Check and Control the Indoor air conditioner Anytime, Anywhere	With the dry contact connected, Modbus protocol is available.

\* To use 3<sup>rd</sup> party wall pad, please contact Sales Engineer.

### ④ Filter Maintenance Alarm

The filter replacement notification and text message are sent when the fine dust concentration is higher than the pre-set point.

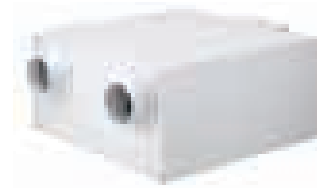


**When Should the Filter be Replaced?**

Replace the fine dust filter in ERV.

# RESIDENTIAL ERV

LZ-H015GBA6 / LZ-H020GBA6



Model	UNIT	LZ-H015GBA6	LZ-H020GBA6	
Dimensions (W x H x D)	Body	mm	640 x 320 x 640	
Weight	Body	kg	23	
Power Supply		Ø, V, Hz	1,230,50	
ERV Mode	Operating Step		SH / H / L	
	Current	SH / H / L	A	
	Power Input	SH / H / L	W	
	Air Flow	SH / H / L	CMH	
	External Static Pressure	SH / H / L	Pa	
	Temperature Exchange Efficiency	Heating (SH/H/L) (ErP)	%	85
		Heating (SH / H / L) (JIS)	%	80 / 80 / 84
		Cooling (SH / H / L) (JIS)	%	74 / 74 / 83
	Enthalpy Exchange Efficiency	Heating (SH/H/L) (JIS)	%	79 / 79 / 83
		Cooling (SH / H / L) (JIS)	%	74 / 74 / 80
	Sound Power Level	SH / H / L	dB(A)	53 / 51 / 45
	Sound Pressure Level	SH / H / L	dB(A)	28 / 26 / 21
Bypass Mode	Current	SH / H / L	A	
	Power Input	SH / H / L	W	
	Air Flow	SH / H / L	CMH	
	External Static Pressure	SH / H / L	Pa	
Operation Range	Outdoor Air Temperature / Relative Humidity	°C / %	-10 - 40 / 20 - 80	
Duct Work	Qty	EA	4	
	Size (Ø)	mm	125	
Fan Motor	Supply Air Fan	RPM	1,850 / 1,710 / 1,300	
	Exhaust Air Fan	RPM	1,750 / 1,600 / 1,250	
	Max.	RPM	2,100	
	Min.	RPM	1,000	
Filters	Grade <sup>(1)</sup>	-	ePM1: 95%	
	Size (W x H x D)	mm	278 x 276 x 50	

Note :

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

## Accessories

Chassis	LZ-H015GBA6	LZ-H020GBA6
CO <sub>2</sub> Sensor		Embedded
UVnano		Embedded
Pre Filter (Washable)		Embedded
Dual Laser Fine Dust Sensor		Embedded
Remote Controller (PREMTB100 / PREMTBB10)		○
Wi-Fi Modem (PWFMD200)		○

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

## Functions

Model	LZ-H015GBA6	LZ-H020GBA6
Air Purification	UVnano	○
	Pre-Filter	○
	Fine Filter (ePM1: 95%)	○
Reliability	Self Diagnosis	○
	Auto Restart	○
Convenience	Child Lock*	○
	Forced Operation	○
	Group Control*	○
	Turn On/Off Reservation	○
	Schedule*	○
	Night Silent Cooling Operation	○
	Delayed Operation	○
	Airflow Amount Customized Operation	○
	Seasonal Customized Operation	○
	Seasonal Auto Operation	○
	E.S.P. Control*	○
Installation	Central Control(LGAP)	○
	Filter Alarm	○
ETC	CO <sub>2</sub> Sensor	○
	Wi-Fi	Accessory

Note

- : Applied, X : Not applied  
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.  
Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- \* : These functions need to connect the wired remote controller



# CONTROL SOLUTIONS

- INDIVIDUAL CONTROL
- CENTRALIZED CONTROL

- INTEGRATION DEVICE



The perfect choice for innovative building management

# LG BECON HVAC SOLUTION

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



**ENERGY SAVING**



**SMART MANAGEMENT**



**EASY EXPANDABILITY**

## ENERGY SAVING



PDI



AC Smart 5



AC Manager 5



AC Ez Touch

## SMART MANAGEMENT



Standard III Remote Controller



Premium Remote Controller



Wi-Fi Modem (with LG ThinQ)

## EASY EXPANDABILITY



Modbus Gateway



ACU IO Module



Dry Contact



ACP 5  
\* -64, Lonworks with U60FT



Cloud Gateway



OUTDOOR UNITS

INDOOR UNITS

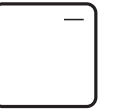
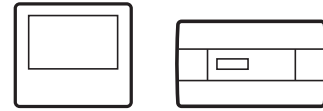
HOT WATER SOLUTION

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

ACCESSORIES

# VARIOUS INTEGRATED SOLUTIONS



## Retail

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



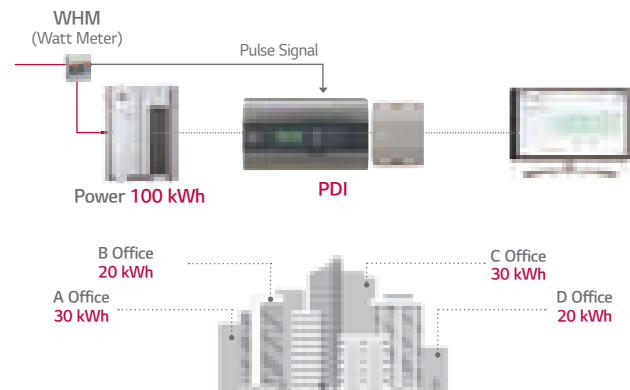
## Hospitality

**Dry Contact**  
Meeting diverse needs



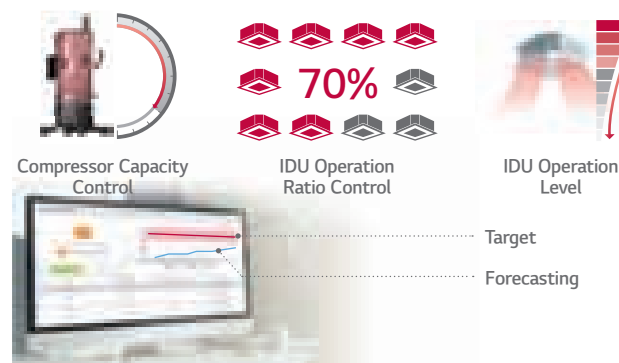
### Power Consumption Distribution Solution

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



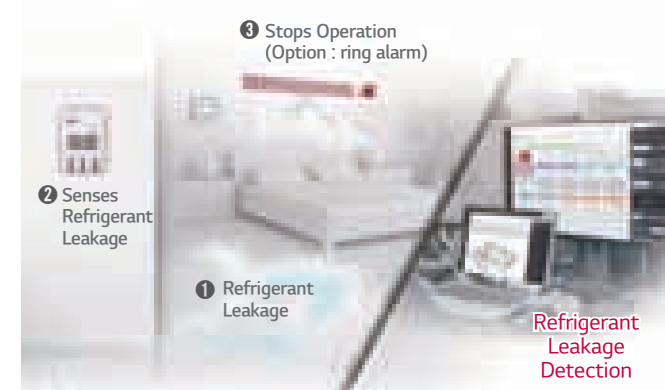
### Energy Management Solution

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



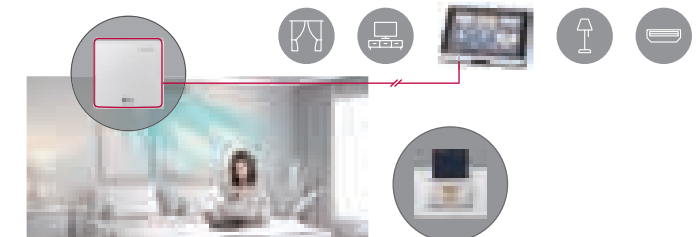
### Refrigerant Leak Detection Solution

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



### Interlocking Solution Using Dry Contact

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



# VARIOUS INTEGRATED SOLUTIONS



## Residential

**Standard III, Wi-Fi Modem**  
Creating a comfortable home



## Office

**AC Smart 5**  
Supporting efficiency with flexibility



### 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 CO<sub>2</sub> level, Air Purify quality level, Humidity
  - Alarm for filter change / Remained time to change filters

### Energy Management

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



### Air Purify Solution

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

#### Air Quality Level Monitoring

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

#### Air Purify Control

- Air Purify Set / Clear



#### Mobile Remote Control

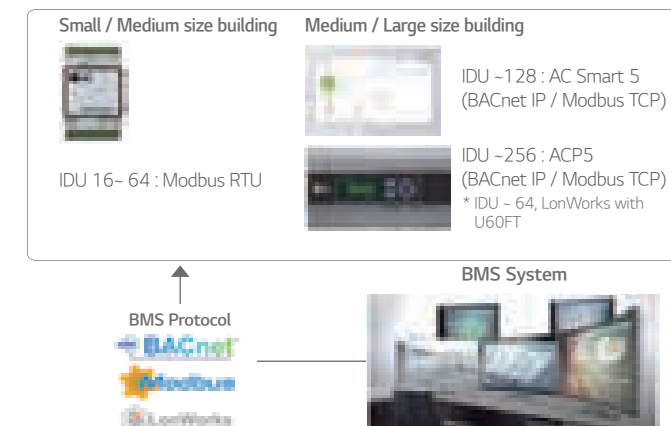
- Using a Wi-Fi modem, control and monitor air purify from your LG ThinQ App.
- Temp. / Mode / Fan / Air Flow and so on

※ Wi-Fi modem (PWFMD200) is an accessory.



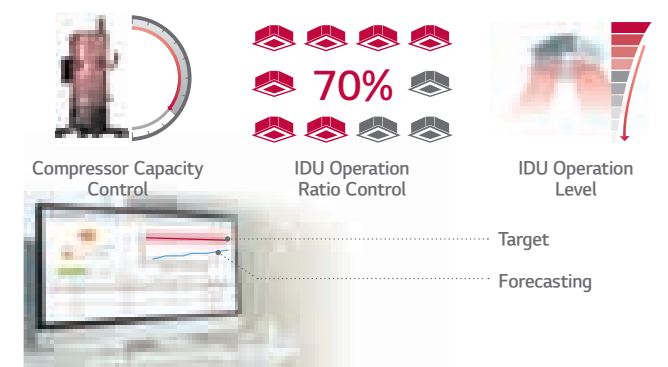
### Integration Solution with BMS

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

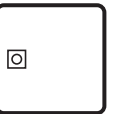


### Energy Management Solution

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



# VARIOUS INTEGRATED SOLUTIONS



## Education

**AC Manager 5**  
Large capacity in compact size enhances space utilization



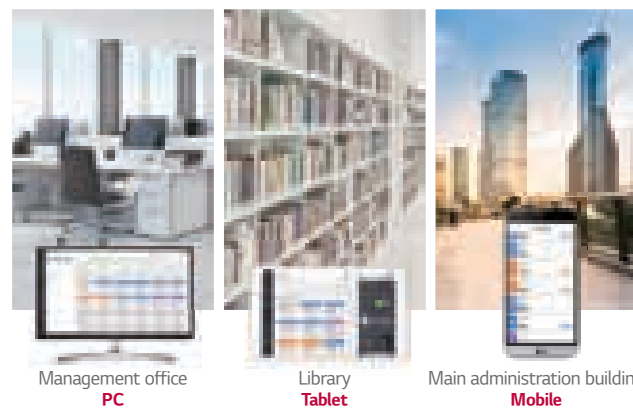
## Public Facility

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



### 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.



### Air Purify Total Solution

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

- Air Quality Information**
  - Air Quality Level Monitoring
- Air Purify Control**
  - Set / Clear

**Air Quality Level Monitoring**  
System Air Purifier

**Air Purify Control**  
Air Purify

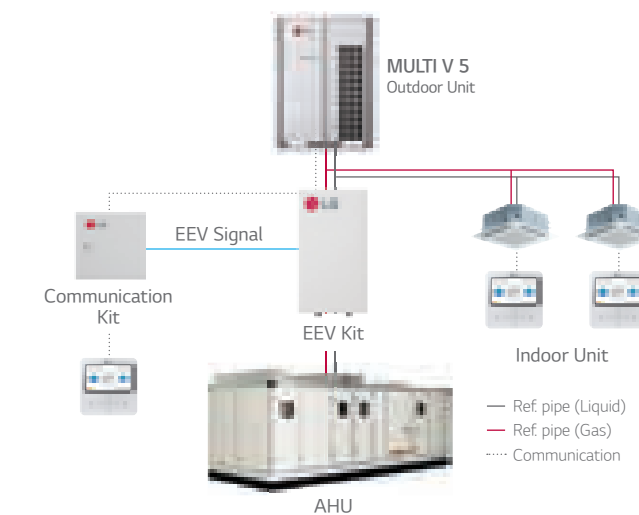
- Easy setting of Air Purify function (Set / Clear)

**View Air Quality Trends**

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

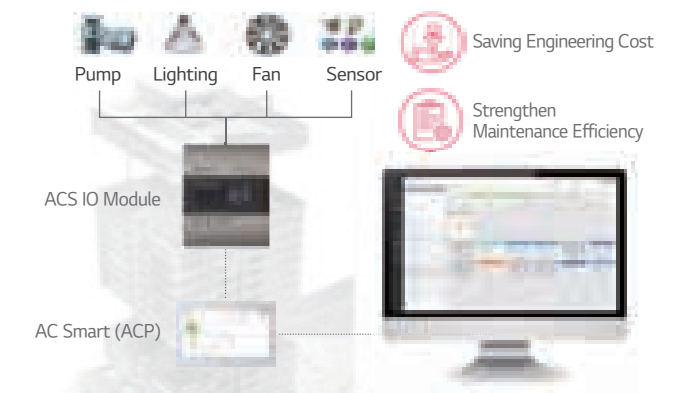
### Air Handling Unit (AHU) Solution

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



### Interlocking Solution by Using ACS IO Module

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





# INDIVIDUAL CONTROL



## Feature Functions

Controller Name	Wired Remote Controller				Wireless Remote Controller	Wi-Fi Modem
	Premium	Standard III	Standard II	Simple		
Model Name						
	PREMTA000	PREMTB100	PREMTB001	PQRCVCLQW	PWLSSB21H	PWFMD200
Basic	On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Fan Speed Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Temperature Setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Auto Swing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Vane Control (Louver Angle)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	E.S.P (External Static Pressure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Electric Failure Compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Indoor Temperature Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	All Button Lock (Child Lock)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
Advanced	Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	Sleep / On / Off	Weekly
	Wi-Fi AP Mode Setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Additional Mode Setting <sup>1)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-
	Time Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>
	Humidity Display	<input type="radio"/>	<input type="radio"/>	-	-	-
	Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-
	Filter Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-
	Energy Management <sup>2)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-
	Dual Set Point	<input type="radio"/>	<input type="radio"/>	-	-	-
	Human Detection	-	<input type="radio"/>	-	-	-
ETC	Temp., Humidity Compensation	<input type="radio"/>	<input type="radio"/>	-	-	-
	Air Purify Control	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	<input type="radio"/>
	Air Quality Level	-	<input type="radio"/>	-	-	<input type="radio"/>
	Operation Status LED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Wireless Remote Controller Receiver	<input type="radio"/> <sup>3)</sup>	-	<input type="radio"/> <sup>3)</sup>	<input type="radio"/> <sup>3)</sup>	-
	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	51 x 153 x 26
	Black Light Control for Screen Saver	<input type="radio"/>	<input type="radio"/>	-	-	-

※ ○ : Applied, - : Not Applied

1) It might not be indicated or operated at the partial product.

2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000) 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)

OUTDOOR UNITS

INDOOR UNITS

HOT WATER SOLUTION

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

ACCESSORIES

# INDIVIDUAL CONTROL

## Standard III Wired Remote Controller



New Modern Design



Convenience



Schedule



Comfort & Reliability (Air Purify)



Energy Management



Interlocking

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

### Design

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

### Comfort & Air Purification

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

### Energy Contents

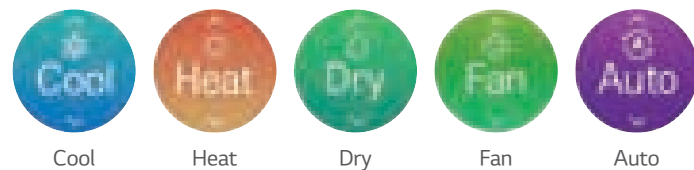
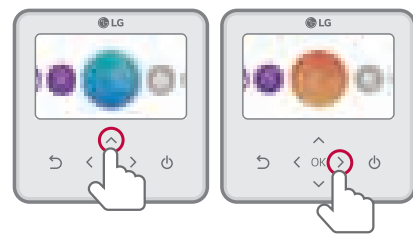
- Power consumption monitoring
- Operation time monitoring
- Temperature setback
- Time limit control

### Advanced Functions

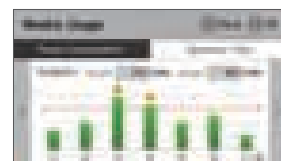
- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost noise setting
- ODU capacity control
- Schedule functions



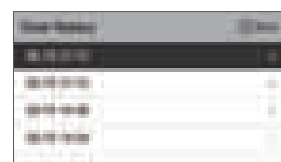
Touch Button



Comfort Level



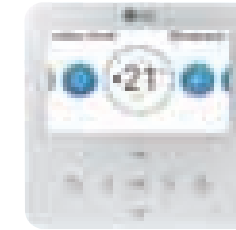
Energy Contents



Error History

### PREMTB100

4.3 inch colored screen with modern design.



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

※ ○ : Applied, - : Not Applied

1) The function is available in some product. (Refer to the product data Book).

2) This function is available for duct type.

3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

4) This function is available for indoor units that provide corresponding function.

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

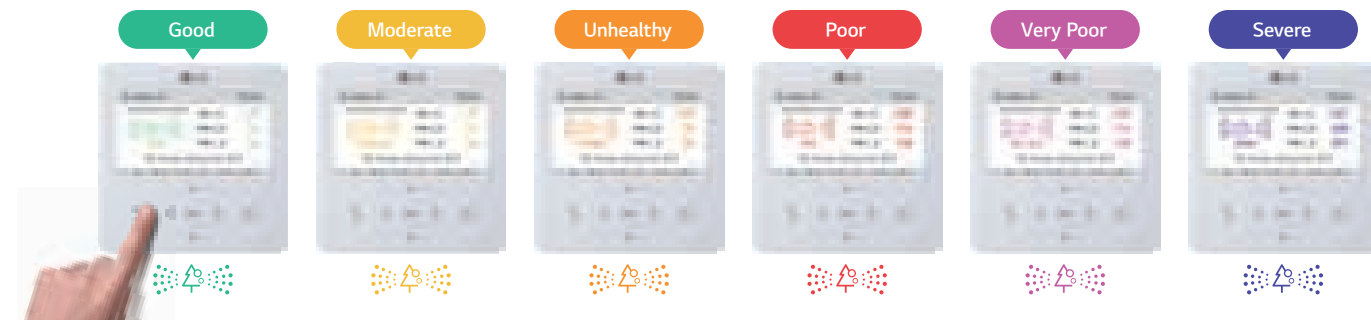
# INDIVIDUAL CONTROL

## Standard III Wired Remote Controller

### Air Quality Level Display

Easy check for indoor air quality

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



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

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

### Environment Display

Displaying environment information for the more user comfort

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



### Energy Savings

Energy Management

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

※ PDI (PQNUD1S40 / PPWRDB000) is required.

Time Limit Control

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



Instantaneous Power Check

Energy Usage Target Setting



### Schedule Function

Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

Possible to set up exceptional date on regular schedule.



### External Device On / Off

External Equipment Control

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



Customized Interlocking Control

User can create a automatic control pattern. For example controlling the external heater switches on when temperature drops below or rises above a certain temperature.



# INDIVIDUAL CONTROL

## Premium Wired Remote Controller

### PREMTA000

5 inch full touch screen with a premium design.



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

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

※ ○ : Applied, - : Not Applied

1) It might not be indicated or operated at the partial product.

2) This function is available for duct type.

3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

4) For ceiling type ducted unit

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



Full Touch Screen



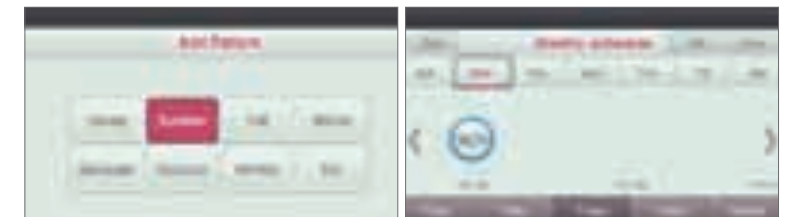
### Easy Energy Management

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



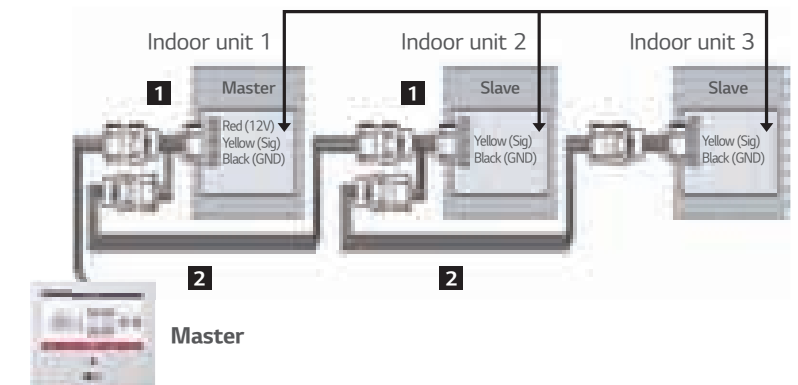
### Easy Scheduling

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



### Group Control

- Max. 16 Indoor units by one remote controller

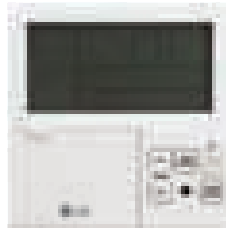


# INDIVIDUAL CONTROL

## Standard II Wired Remote Controller

### PREMTB001

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



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

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

※ ○ : Applied, - : Not Applied

1) For ceiling type ducted unit

2) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

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

## Simple Wired Remote Controller

### PQRCVCLOQW

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



- Small remote control with minimal functionality

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

※ ○ : Applied, - : Not Applied

1) For ceiling type ducted unit

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





# INDIVIDUAL CONTROL

## Wi-Fi Modem

### PWFMDD200

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

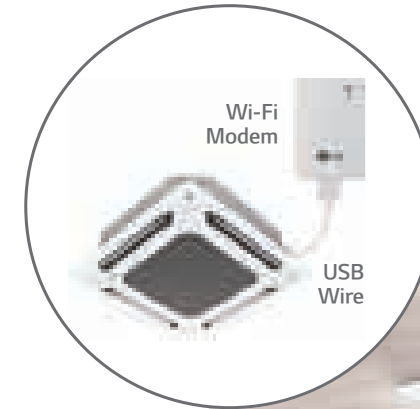
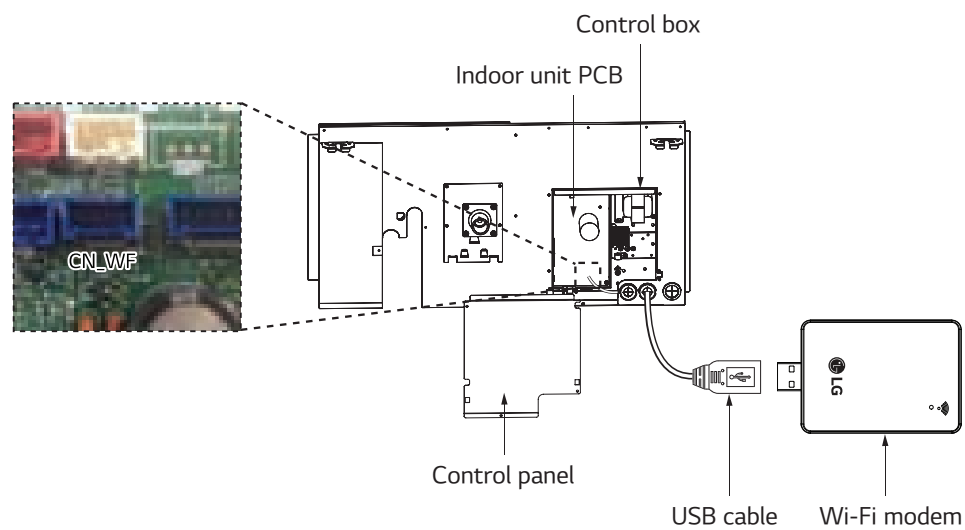


Model Name	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	System Air Conditioner <sup>3)</sup>
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b / g / n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or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

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

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

### Installation Scene



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

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

# INDIVIDUAL CONTROL

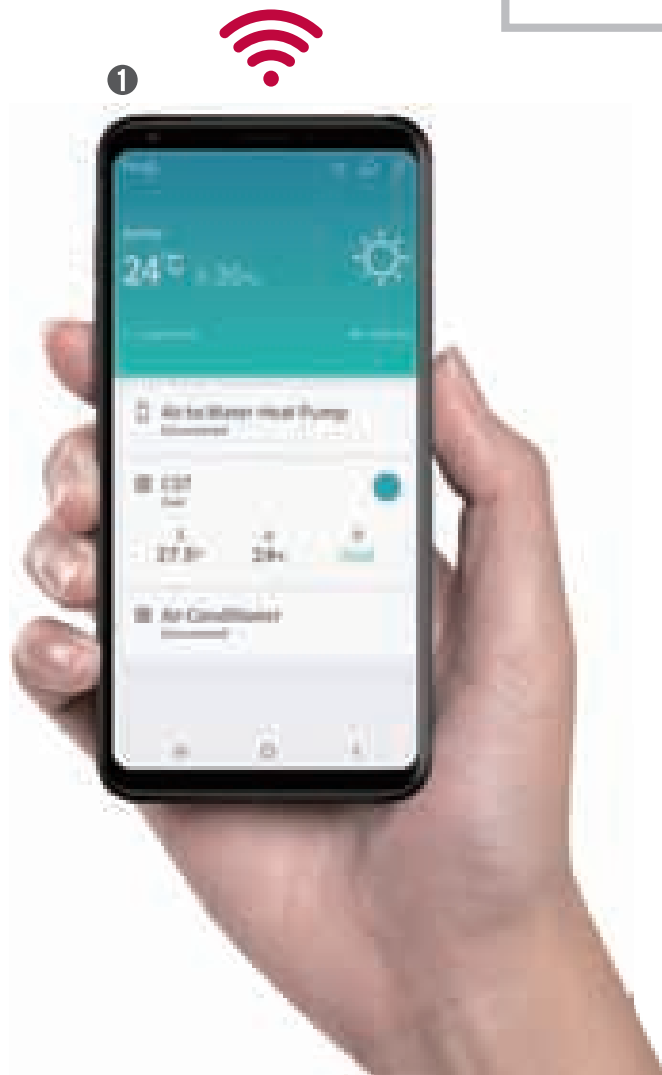
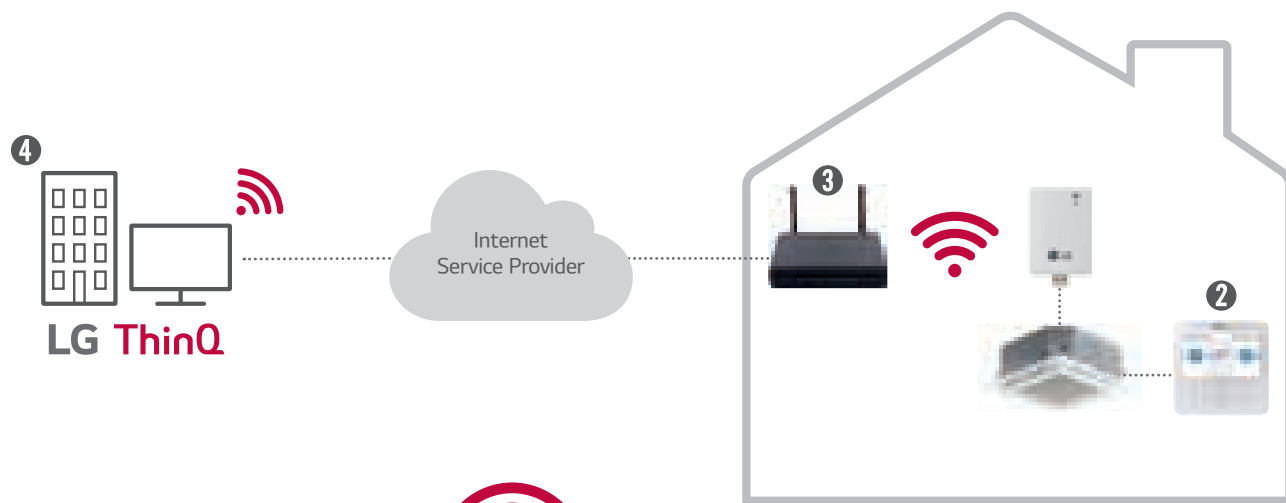
## Wi-Fi Modem

### LG ThinQ Connectivity

Connection (Pairing) Order

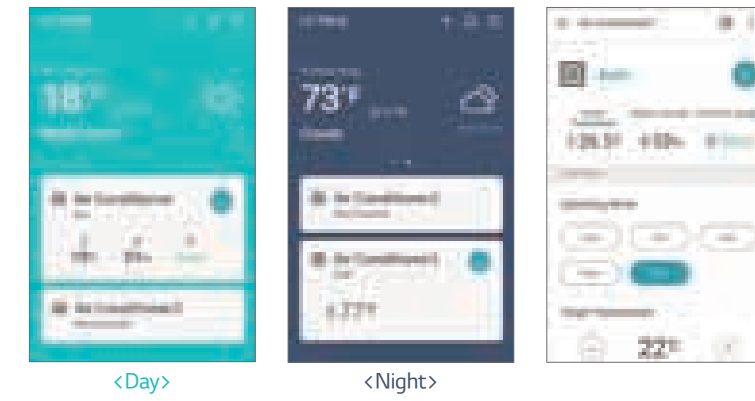
- 1 Make LG account on LG ThinQ (Application) and login.
- 2 Select the installed product and set AP (Access Point) mode by wired / wireless remote controller.
- 3 Select the Wi-Fi network that will be used and insert the passwords.
- 4 Product registration progress is completed.

\* 5GHz networks may not be supported.

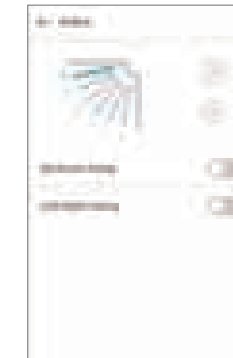


### LG ThinQ Mobile App

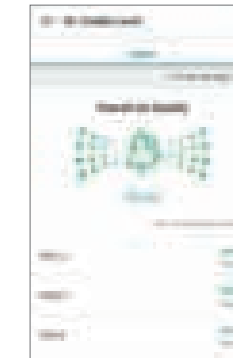
Simple operation for various functions  
On, Off, Current Temp., Mode, Set Temp.



#### Vane Control

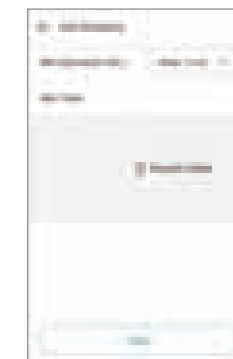


#### Air Purify

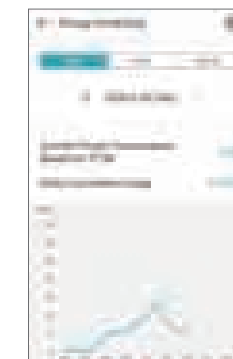


### Easy Management

#### Schedule



#### Energy Monitoring



#### Smart Diagnosis



#### Filter Management



# CENTRALIZED CONTROL



## Feature Function

Controller Name		AC Ez	AC Ez Touch	AC Smart 5 <sup>6)</sup>	ACP 5 <sup>6)</sup>		AC Manager 5 <sup>7)</sup>	Cloud Gateway	
Model Name									
		PQCSZ250S0	PACEZA000	PAC55A000	PACP5A000	Using Lonworks	PACM5A000	PWFMDB200	
<b>Product</b>	DO	-	-	2	4	2	-	-	
	DI	-	1	2	10	2	-	-	
	IDUs		32	64	128	256	64	8,192	16
		ERV	32	64	128	256	64	8,192	16
	Max. Connectable No.	A / C + ERV	32	64	128	256	64	8,192	16
		AHU	-	-	16	16	16 <sup>3)</sup>	16 x 32	-
		Chiller	-	-	5	10	-	10 x 32	-
Commercial Air Purifier <sup>1)</sup>	-	-	64	128	-	128 x 32	-		
<b>Compatibility</b>	Air Conditioner	○ <sup>3)</sup>	○	○	○	○	○	○	
	Ventilation (ERV / ERV DX)	○ <sup>4)</sup>	○	○	○	○	○	○	
	Heating	-	○	○	○	○	○	○ <sup>8)</sup>	
	AHU	-	-	○	○	○	○	-	
	Chiller	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
	Commercial Air Purifier <sup>1)</sup>	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
	ACS IO	-	-	○	○	○ <sup>5)</sup>	○	-	
<b>Additional Function</b>	Add Drawing	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Group Management	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Auto Changer Over	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Set Back	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Dual Setpoint	-	○	○	○	○ <sup>5)</sup>	○	-	
	Change Alarm	-	Filter	Filter	Filter	Filter	Filter	-	
	Indoor Unit Lock	○ <sup>2)</sup>	○	○	○	○ <sup>5)</sup>	-	-	
	Cycle Monitoring	-	-	○	○	○ <sup>5)</sup>	○	○	
	Air Purify	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
	Schedule	○	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	○ <sup>9)</sup>	
<b>Auto Control</b>	Peak Control	Energy & Priority Control	-	○	○	○	○ <sup>5)</sup>	○	-
		Outdoor Unit Capacity Control	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-
	Time limit control	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Interlocking	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
<b>Energy Navigation</b>		-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
<b>Energy Report</b>	Power	-	○	○	○	○ <sup>5)</sup>	○	○ <sup>8)</sup>	
	Gas	-	-	○	○	○ <sup>5)</sup>	○	-	
	Run time	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Save to PC / USB (Excel)	-	-	PC / USB <sup>5)</sup>	PC	PC	PC	-	
<b>Trend Reporting</b>		-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
<b>History</b>	Report (Control / Error)	-	Error	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	○	
	Send Email	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Save to PC / USB (Excel)	-	-	PC / USB	PC	○ <sup>5)</sup>	PC	-	
<b>etc</b>	Summer Time	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Outdoor Unit Oil-Return Operation	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	-	-	
	User Authority	-	Password	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	PC Access	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	

※ ○ : Applied, - : Not Applied  
 1) The Commercial Air purifier must additionally install PI485 (PHNFP14A0).  
 2) Hard Lock  
 3) Except for some feature (Individual lock, Limit temp., etc.)  
 4) Except for some feature (User mode, additional function, etc.)  
 5) This function is not applied for BMS points.  
 6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.  
 7) ACP 5 or AC Smart 5 is required.  
 8) Only for Therma V  
 9) It will be released until 1Q in 2023.

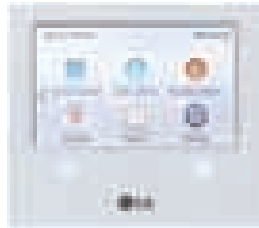
OUTDOOR UNITS  
INDOOR UNITS  
HOT WATER SOLUTION  
VENTILATION SOLUTIONS  
CONTROL SOLUTIONS  
ACCESSORIES

# CENTRALIZED CONTROL

## AC EZ Touch

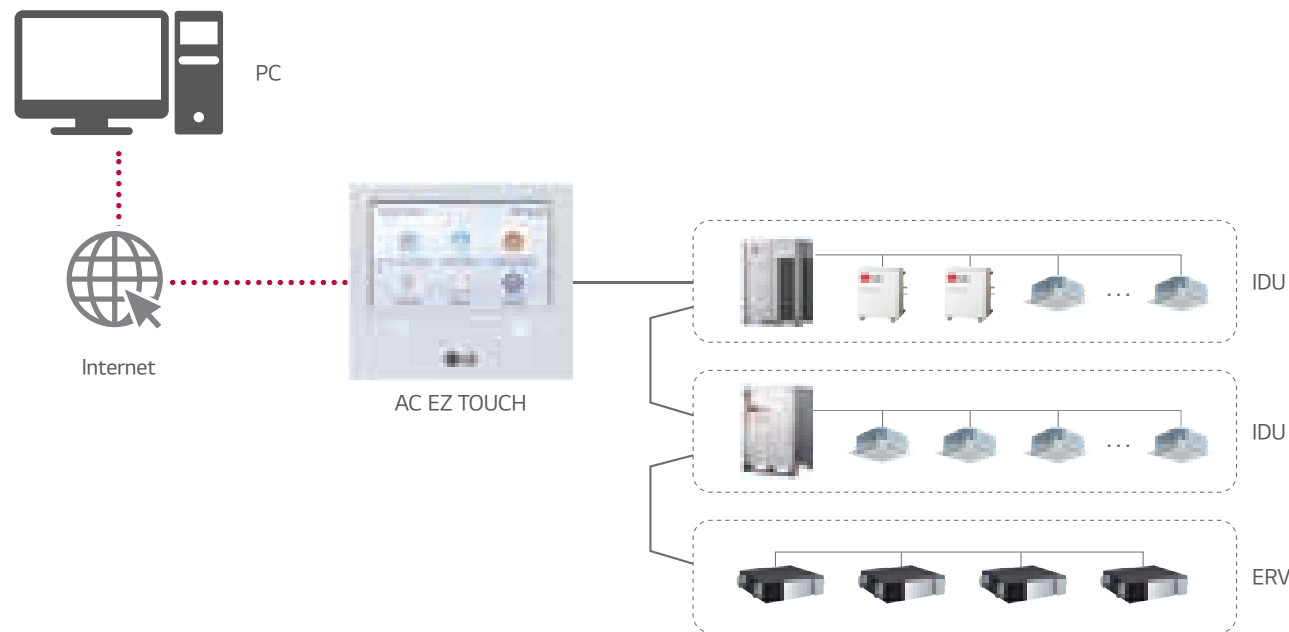
### PACEZA000

Smart management with 5 inch touch screen for small site.



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

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



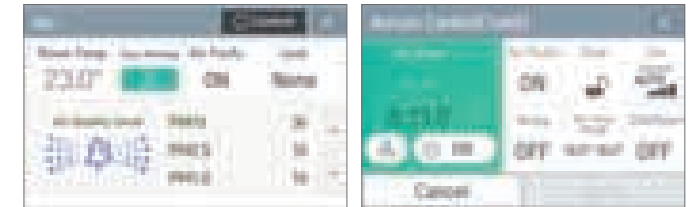
### PC Access

Users can control each space efficiently through PC access.



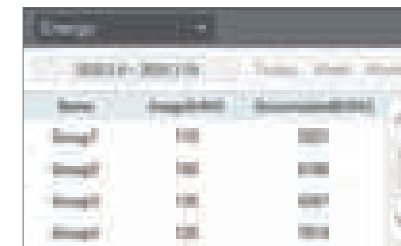
※ IPv6 supported  
 - Fixed Public IP is recommended. If not, router's configuration of NAT is required.  
 - Open port 80 & 9300

### Air Purify Control & Monitoring



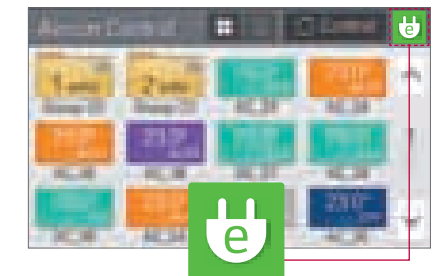
### Energy Statistics (with PDI)

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



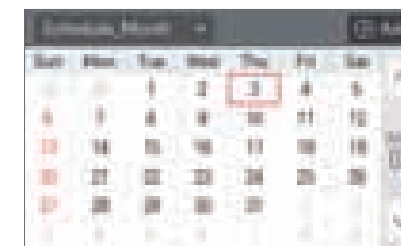
### Energy Mode

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



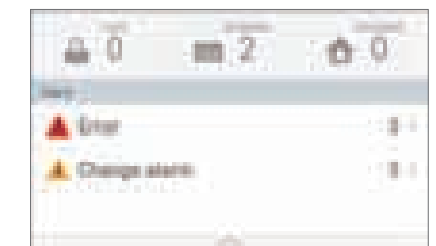
### Alarm Indicator

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



### Schedule

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



### Group / Individual Control

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





# CENTRALIZED CONTROL

## AC EZ

### PQCSZ250S0

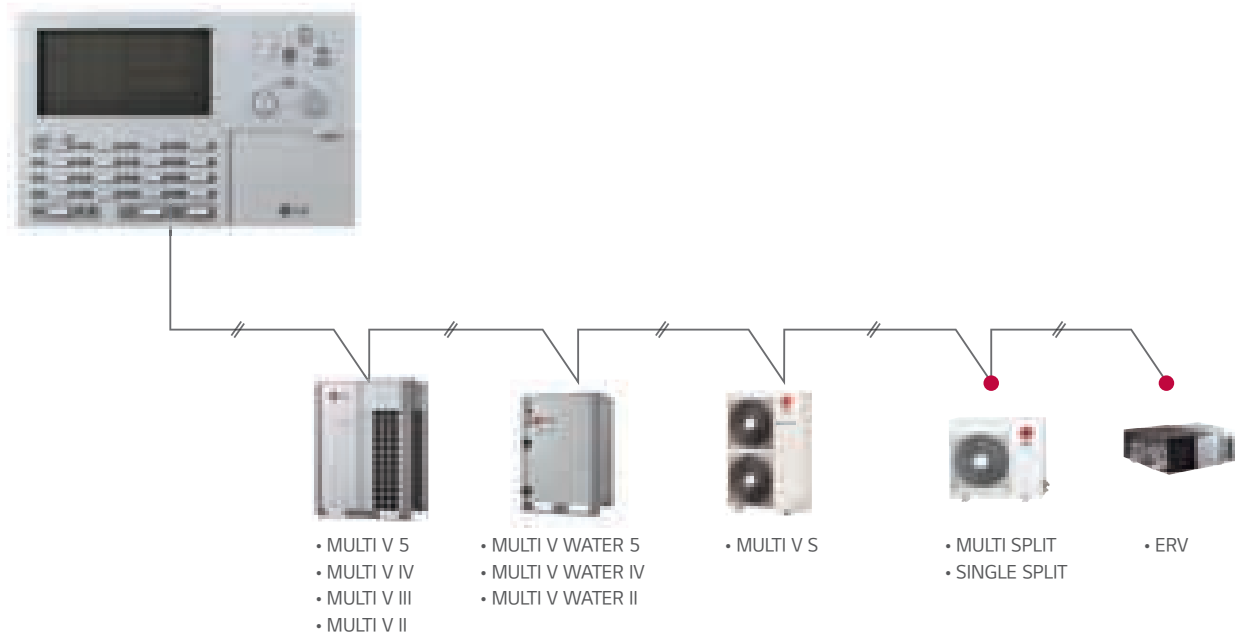
Easy to manage up to 32 indoor units, including ERV DX with simple interface.



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

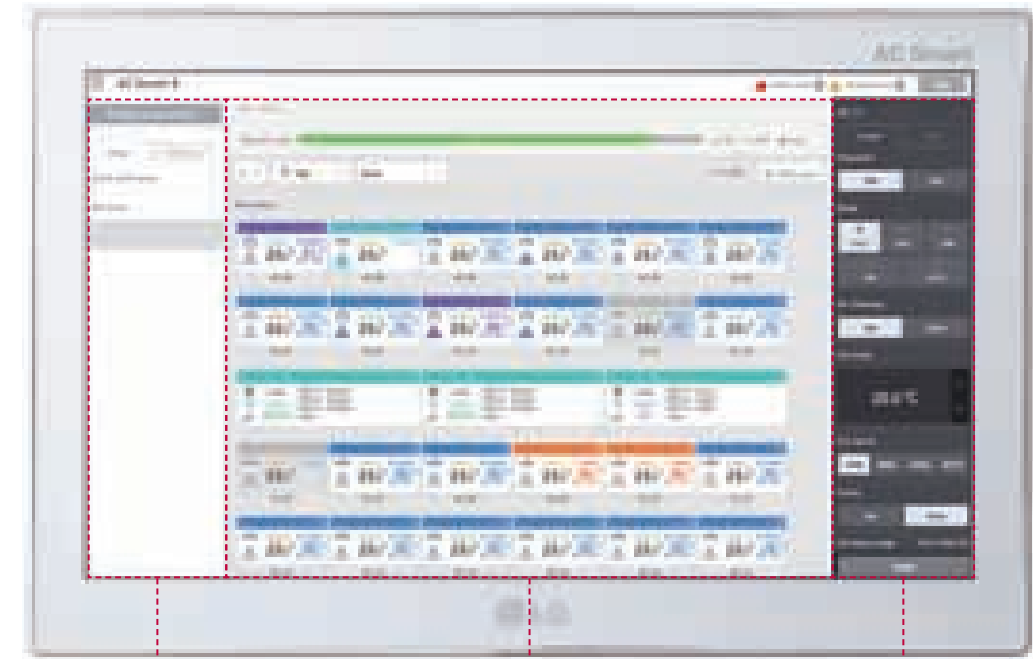
<b>Model Name</b>	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	DC 12V
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	○
Slave Mode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

※ ○ : Applied, - : Not Applied



• Appropriate PI485 should be used according to PDB.

## AC SMART 5



Menu Bar

Status Viewing

Control Menu

Max. 128 IDU control

Schedule

Map View (Visual Navigation)

Energy Monitoring

Air Purify

Multi Level Grouping

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

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

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

# CENTRALIZED CONTROL

## AC SMART 5

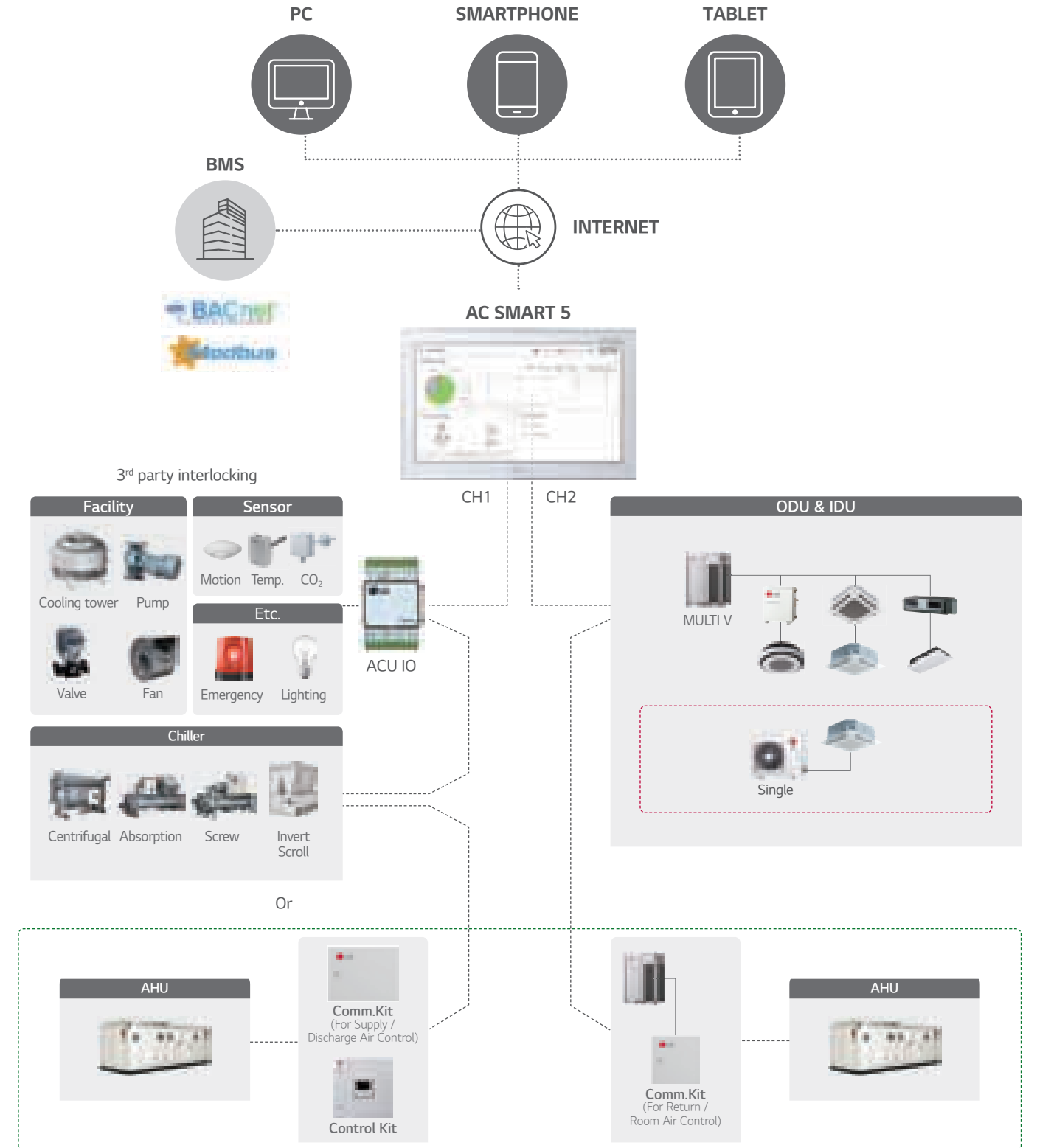
### PACS5A000

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



Model Name	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / AHU Kit / LG Chiller
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display <sup>1)</sup>	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO <sub>2</sub> Level display (for ERV DX) / Night Time Free Cooling (for ERV DX)
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 2 / DO 2
BMS Integration <sup>2)</sup>	BACnet IP / Modbus TCP
IPv6 Support	○

※ ○ : Applied, - : Not Applied  
 1) It is only available in some products.  
 2) For the detail point list, please refer to the installation manual.



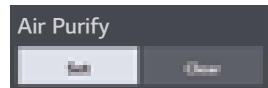
- According to CH1 setting, normal ODU can be connected to CH1. (Flexible wiring design with 2 ports)
- Appropriate PI485 should be used according to PDB (Product Data Book).
- For details, refer to the product PDB or manual.

# CENTRALIZED CONTROL

## AC SMART 5

### Air Purify Total Solution

#### Air Purify Control

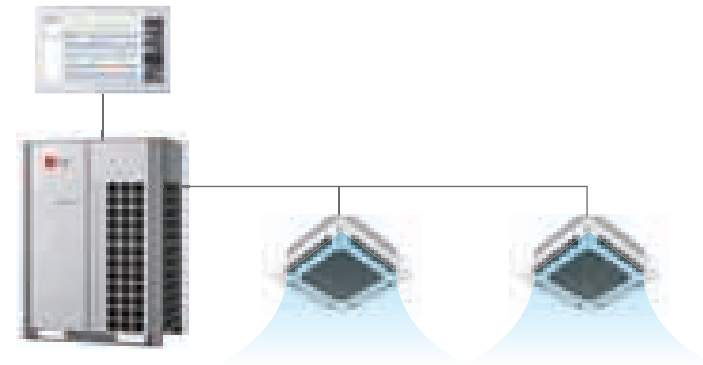


- Easy setting of Air Purify function (Set / Clear)

#### Air Quality Level Monitoring

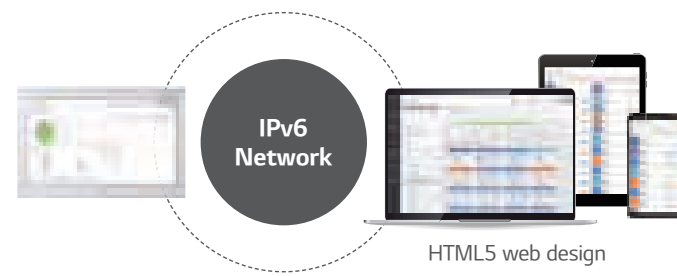


System Air Conditioner



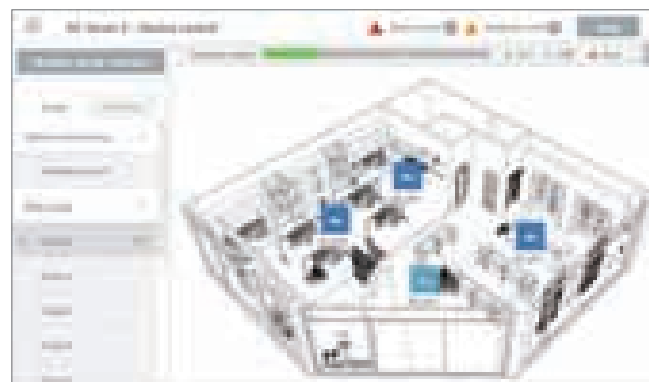
### Advanced Network Accessibility

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



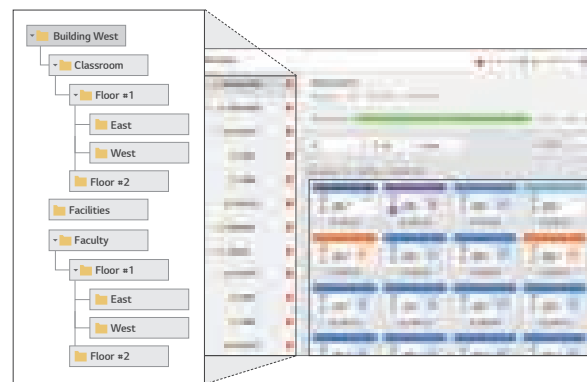
### Visualized Control

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



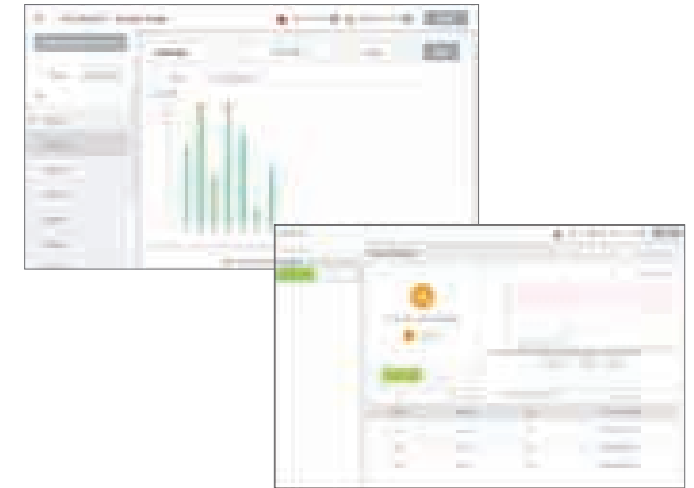
### Multi Level Group Composition

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



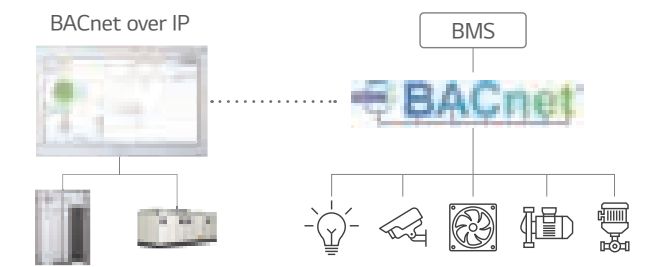
### Energy Management

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



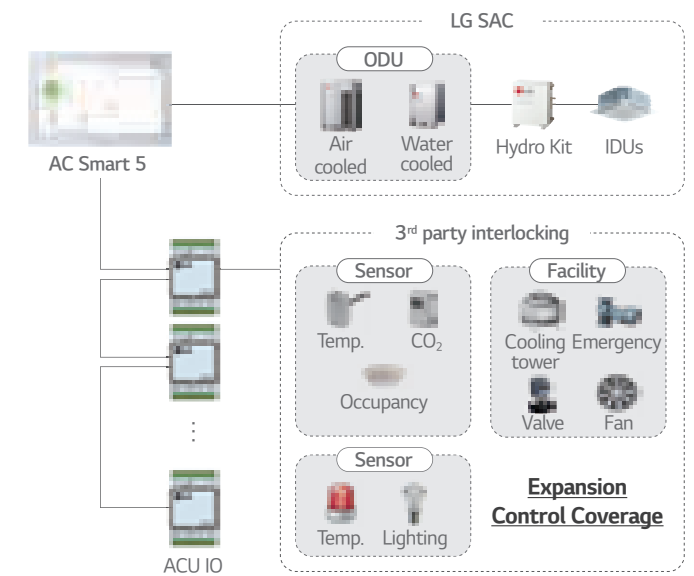
### Building Management System (BMS) Integration

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



### Interlocking with 3rd Party Equipment

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



# CENTRALIZED CONTROL

## ACP 5

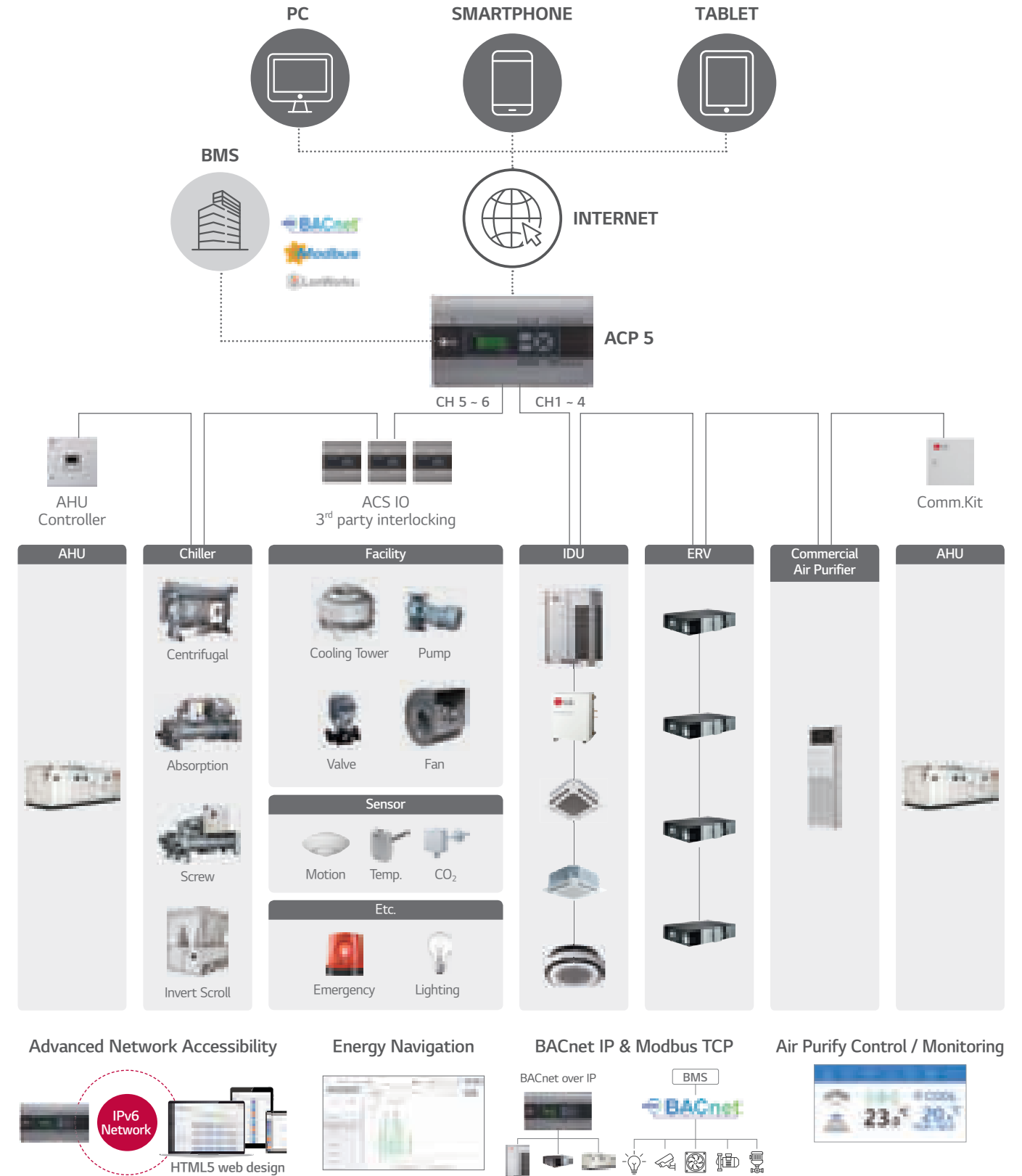
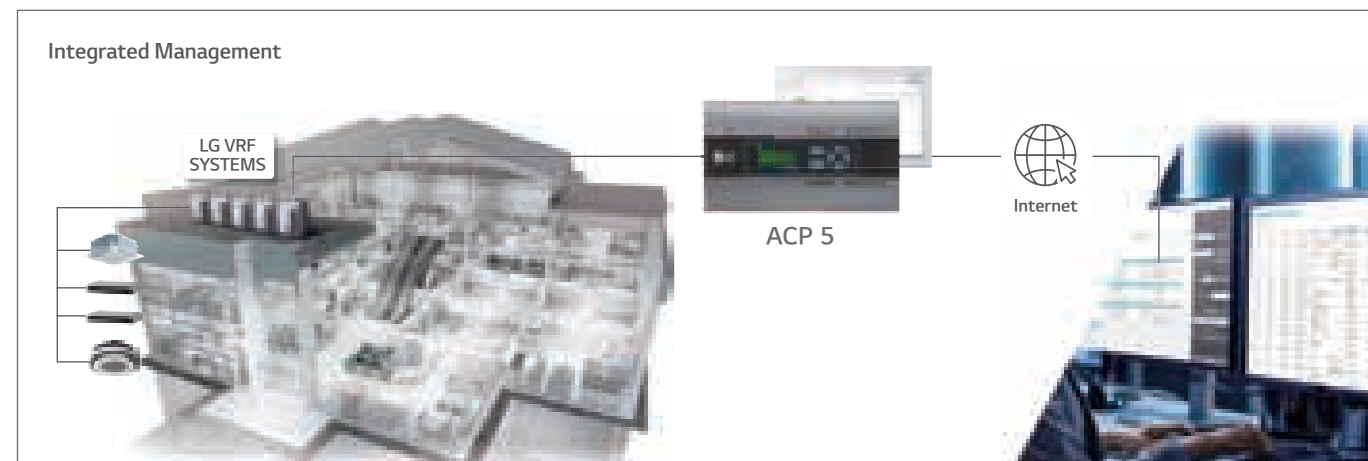
### PACP5A000

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



Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / AHU Kit / LG Chiller
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display <sup>1)</sup>	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO <sub>2</sub> Level display (for ERV DX) / Night Time Free Cooling (for ERV DX)
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 10 / DO 4
BMS Integration <sup>2)</sup>	BACnet IP / Modbus TCP / LonWorks
IPv6 Support	○

※ ○ : Applied, - : Not Applied  
 1) It is only available in some products.  
 2) For the detail point list, please refer to the installation manual.

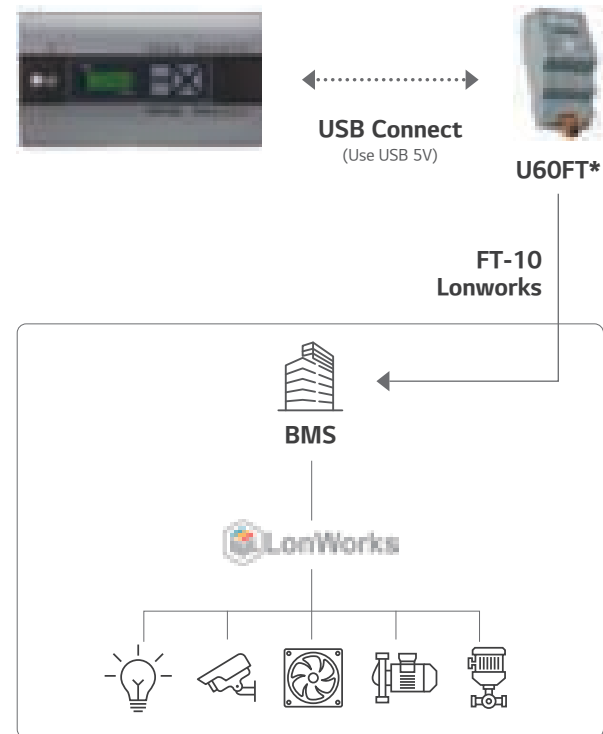


\* Fix Public IP is mandatory.  
 \* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

# CENTRALIZED CONTROL

## For Lonworks

For using Lonworks Protocol, Only ACP 5 provides interface for BMS integration, And, need to U60FT Module between ACP 5 and BMS System Interface between Lonworks FT-10 BMS and LG HVAC unit

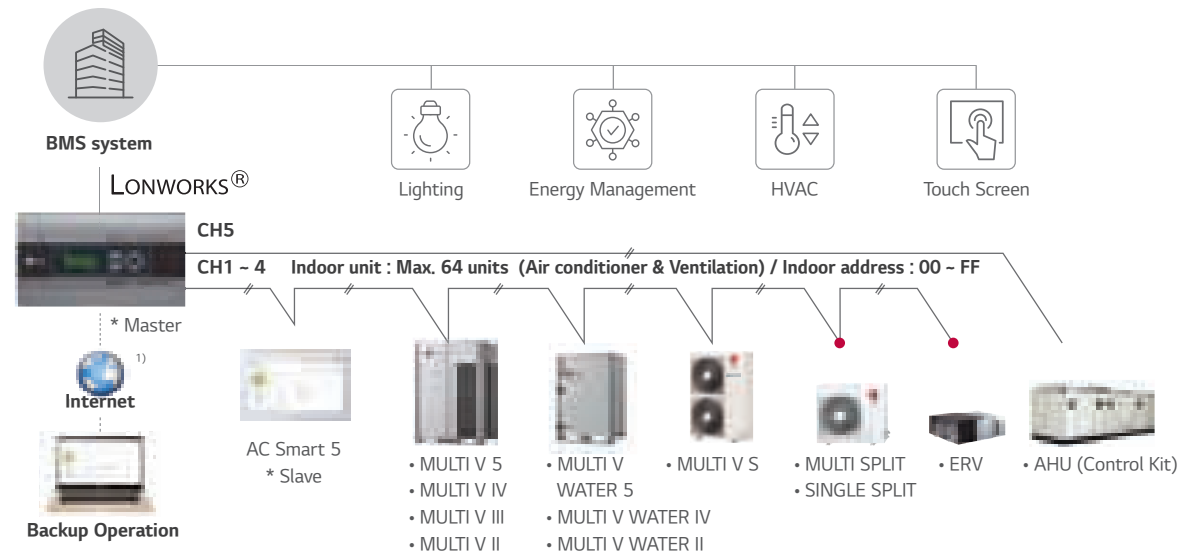


Control	Monitoring
On / Off Command	On / Off
Operation Mode Setting	Operation Mode
Lock	Lock
Temperature	Temperature
Fan Level	Fan Level
Fan Direction Auto	Fan Direction Auto
Mode Lock	Mode Lock
Fan Level Lock	Fan Level Lock
Temperature Lock	Temperature Lock
Temperature Lower Limit	Temperature Lower 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

※ O: Applied, - : Not applied  
 \*U60FT : This device should be purchased separately from 3rd party supplier. Please contact regional LG office for more detailed information.

UNIT TYPE	BACNET IP	MODBUS TCP	LONWORKS
IDU	○	○	○
ERV, DX ERV	○	○	○
ODU	Monitoring Only	-	-
Heating	○	○	○
AHU	○	○	-
Scroll Air Inv Gen2	○	-	-
EXP I/O	○	-	-
Air Purifier	○	-	-

※ O: Applied, - : Not applied



1) Assignment of public IP address is required to access central controller through internet. ● Appropriate PI485 should be used according to PDB (Product Data Book).

## AC Manager 5

### PACM5A000

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



Model Name	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / AHU Kit / LG Chiller
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○

※ O: Applied, - : Not Applied  
 Note: AC Manager 5 required for ACP 5 or AC Smart 5

### Up to 8,192 Connections for Indoor Units

Administrators can easily and conveniently manage a variety of LG HVAC equipment. Also, it is available to manage many buildings or areas at one place via AC Manager 5.



### Advanced Network Accessibility & User Friendly GUI

As an advanced central controller, AC Manager 5 offers flexible interface for each user by assessing the device screen and automatically customizing the layout to provide the most optimized interface.



### Energy Navigation & Energy Usage Graph

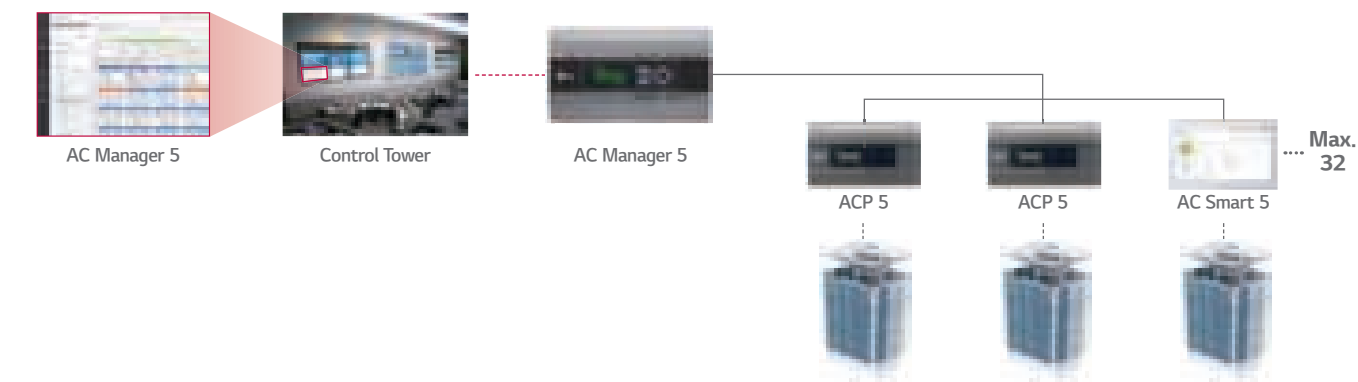
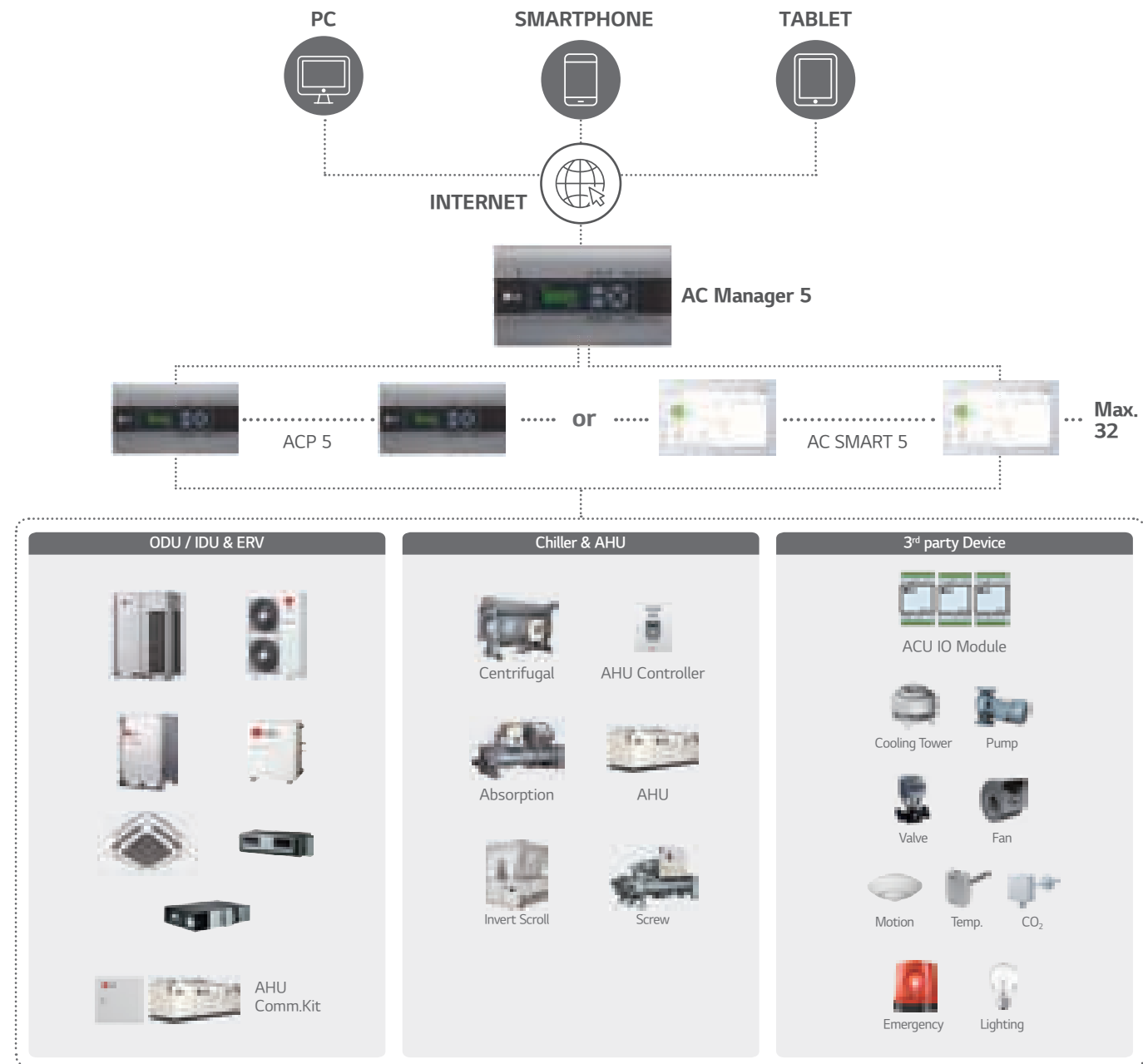
Energy navigation is the function to set the target usage amount to limit the monthly power consumption and to control so that the total accumulated power consumption does not exceed the target usage amount. It performs total of 7 control levels with the estimated / actual usage amount exceeding ratio compared to the monthly target usage amount. For the control method, there are indoor unit operation ratio, outdoor unit capacity control, and indoor unit operation control.





# CENTRALIZED CONTROL

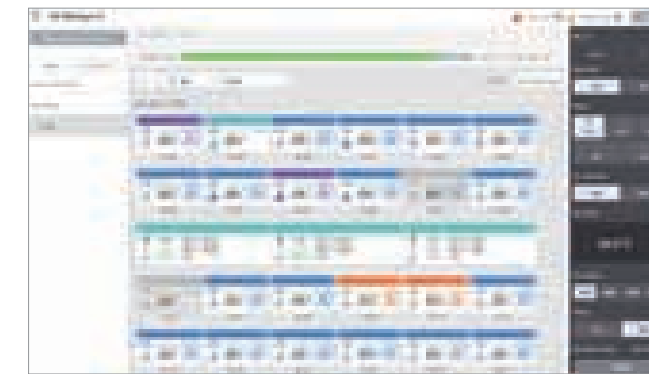
## AC Manager 5



### Smart Air Purify Solution

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

#### Air Quality Multi Status View



#### Air Quality Summary Widget

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

- Average Value  
- View by Device (Name, Air Quality Value, Status)

#### Air Purify Control



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

#### View Air Quality Trends

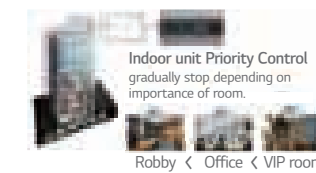


- Daily (per hour), period (30 days) shows trends  
- Excel output / easy to manage

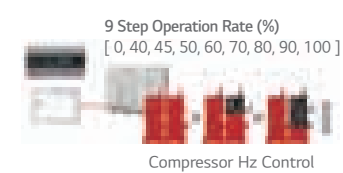
### Peak Control

This function can reduce electricity use. There are two kinds of control logic. Energy saving effect by indoor unit operation rate control. Load management effect by outdoor unit capacity control.

#### Operation ratio (IDUs) Control

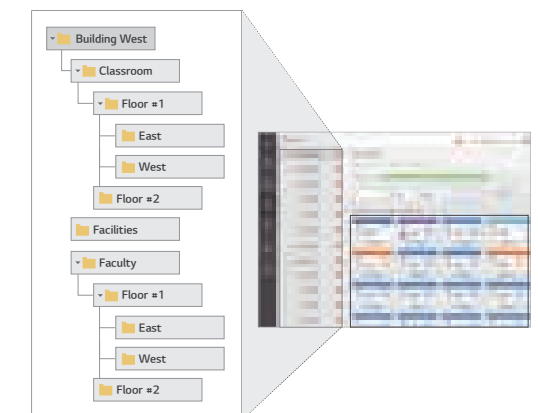


#### ODU Capacity Control



### Multi Level Group Composition

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



# CENTRALIZED CONTROL

## Modbus RTU Gateway

### PMBUSB00A

Providing Modbus RTU connection between LG Air conditioners and BMS



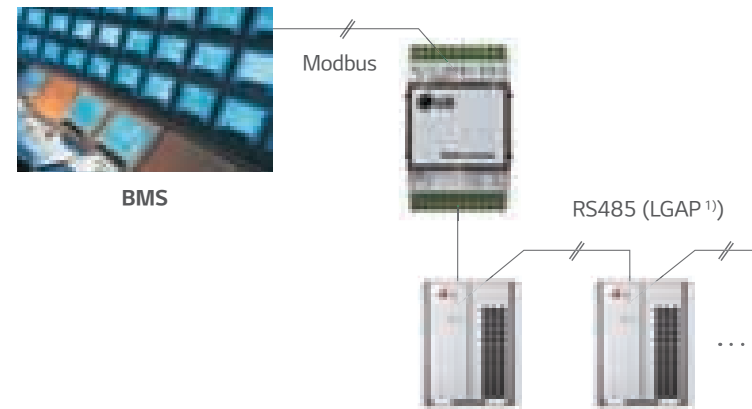
#### Function

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

### Installation Scene

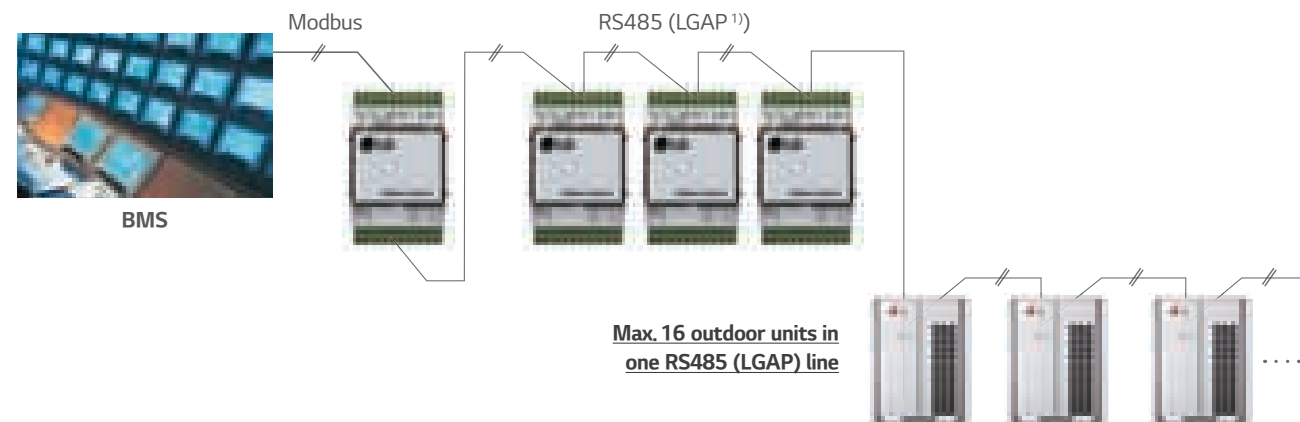
#### Single Module

Max. 16 indoor units with a single module



#### Multiple Module

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



1) LGAP is LG Protocol.

### Modbus Gateway Memory Map

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

#### Coil Register (0 x 01)

No.	Data Bit			Function	Register
	Air Conditioner	DX ERV	Hydro Kit		
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Auto Swing	Aircon Operate (On / Off)	Hot Water Mode (On / Off)	0 : Disable / 1 : Enable	
3	Filter Alarm Release	Filter Alarm Release <sup>1)</sup>	Reserved	0 : Normal / 1 : Alarm Release	
4	Lock Remote Controller	Lock Remote Controller	Lock Remote Controller	0 : UnLock / 1 : Lock	
5	Lock Operate Mode	Lock Operate Mode <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
6	Lock Fan Speed	Lock Fan Speed <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
7	Lock Target Temp.	Lock Target Temp. <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
8	Lock IDU Address	Lock IDU Address <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
9	Reserved	Quick Ventilate	Reserved	0 : Disable / 1 : Enable	
10	Reserved	Energy Save	Reserved	0 : Disable / 1 : Enable	

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

#### Discrete Register (0 x 02)

No.	Data Bit			Function	Register
	Air Conditioner	DX ERV	Hydro Kit		
1	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
3	Filter Alarm	Filter Alarm <sup>1)</sup>	Hot Water Only <sup>2)</sup>	• 0 : Normal / 1 : Alarm Hydro Kit • 0 : Normal / 1 : Hot Water Only	
4	Reserved	Reserved	Target Temp. Select	0 : Air / 1 : Water	
5	Reserved	Reserved	Error Division <sup>2)</sup>	0 : CH type error / 1 : BC type error	

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

2) This register value is applied 'Hydro Kit' ONLY.

#### Holding Register (0 x 03)

No.	Data Bit			Function	Register
	Air Conditioner	DX ERV	Hydro Kit		
1	Operate Mode	Operate Mode	Connected IDU	• 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP • 0 : Cooling, 3 : Auto, 4 : Heating Hydro Kit (High Temp. DHW)	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Fan Speed	Fan Speed	Target Temp. DHW <sup>2)</sup>	1 : Low, 2 : Mid, 3 : High, 4 : Auto	
3	Target Temp.	Target Temp. <sup>1)</sup>	Target Temp. <sup>2)</sup>	16.0 - 30.0 [°C] x 10	
4	Target Temp. Limit (Upper)	Target Temp. Limit <sup>1)</sup> (Upper)	Reserved	16.0 - 30.0 [°C] x 10	
5	Target Temp. Limit (Lower)	Target Temp. Limit <sup>1)</sup> (Lower)	Reserved	16.0 - 30.0 [°C] x 10	
6	Reserved	Vent. Operate Mode	Reserved	0 : HEX, 1 : Auto, 2 : Normal	

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

2) This value range can be between 0 - 127 [°C]. And it would be limited by upper & lower value according to the setting of remote controller.

#### Input Register (0 x 04)

No.	Data Bit			Function	Register
	Air Conditioner	DX ERV	Hydro Kit		
1	Error Code	Error Code	Error Code	0 - 255 ※ Please refer to the product error table.	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Room Temp.	RA Temp.	Room Temp.	-99.0 - 99.0 [°C] x 10	
3	Pipe In Temp.	OA Temp. <sup>1)</sup>	Water Inlet Temp.	-99.0 - 99.0 [°C] x 10	
4	Pipe Out Temp.	SA Temp. <sup>1)</sup>	Water Outlet Temp.	-99.0 - 99.0 [°C] x 10	
5	Reserved	Pipe In Temp. <sup>1)</sup>	Sanitary Tank Temp.	-99.0 - 99.0 [°C] x 10	
6	Reserved	Pipe Out Temp. <sup>1)</sup>	Solar Temp. <sup>2)</sup>	-99.0 - 99.0 [°C] x 10	

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

2) This register value is applied 'AWHP' ONLY.

# CENTRALIZED CONTROL

## Cloud Gateway

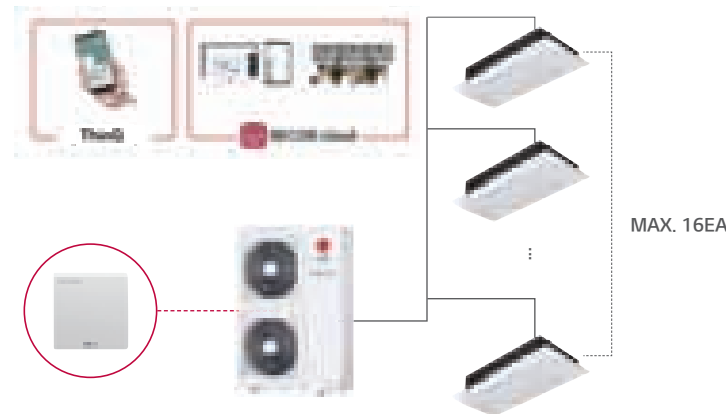
### PWFMDB200

Control conditioners by using internet devices as Android or iOS smartphones. Cloud Gateway can remotely control up to 16 indoor units through LG ThinQ or BECON Could.



Model Name	PWFMDB200
Size (W x H x D, mm)	120 x 120 x 29
Interfaceable Products	System Air Conditioner <sup>3)</sup>
Maximum number of units	16
Ethernet	10 / 100 Mbps
Wireless Standards	2.4 GHz, IEEE 802.11b / g / n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)

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



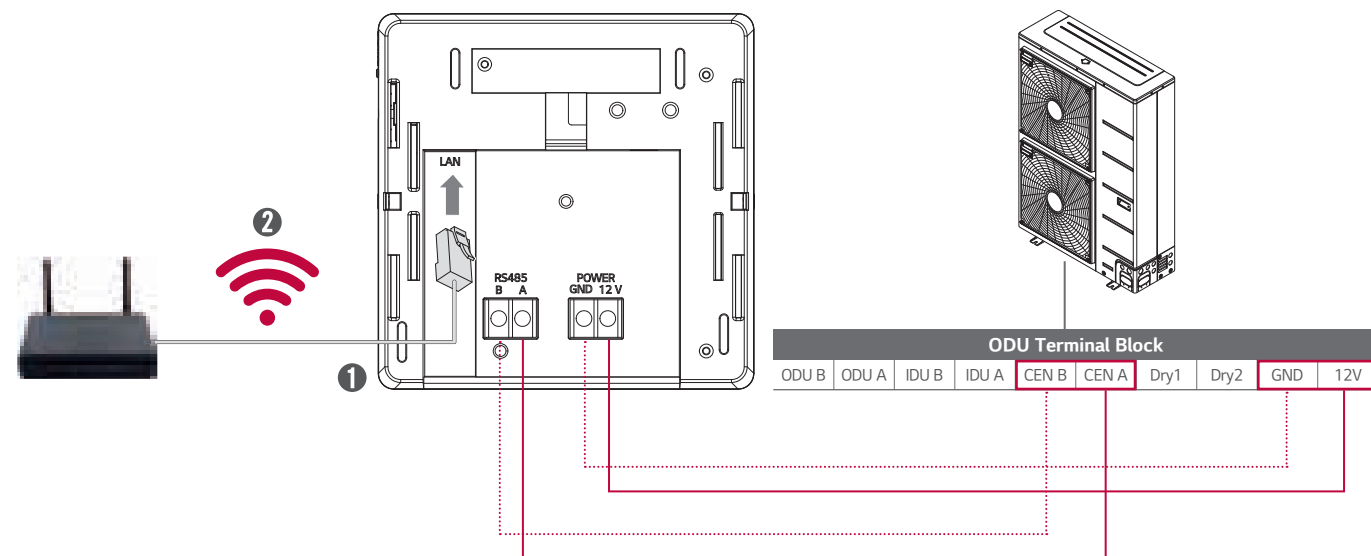
• Applicable to air conditioner models with RS 485 function.

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

## Installation Scene

### Option

- ① Ethernet ② Wi-Fi

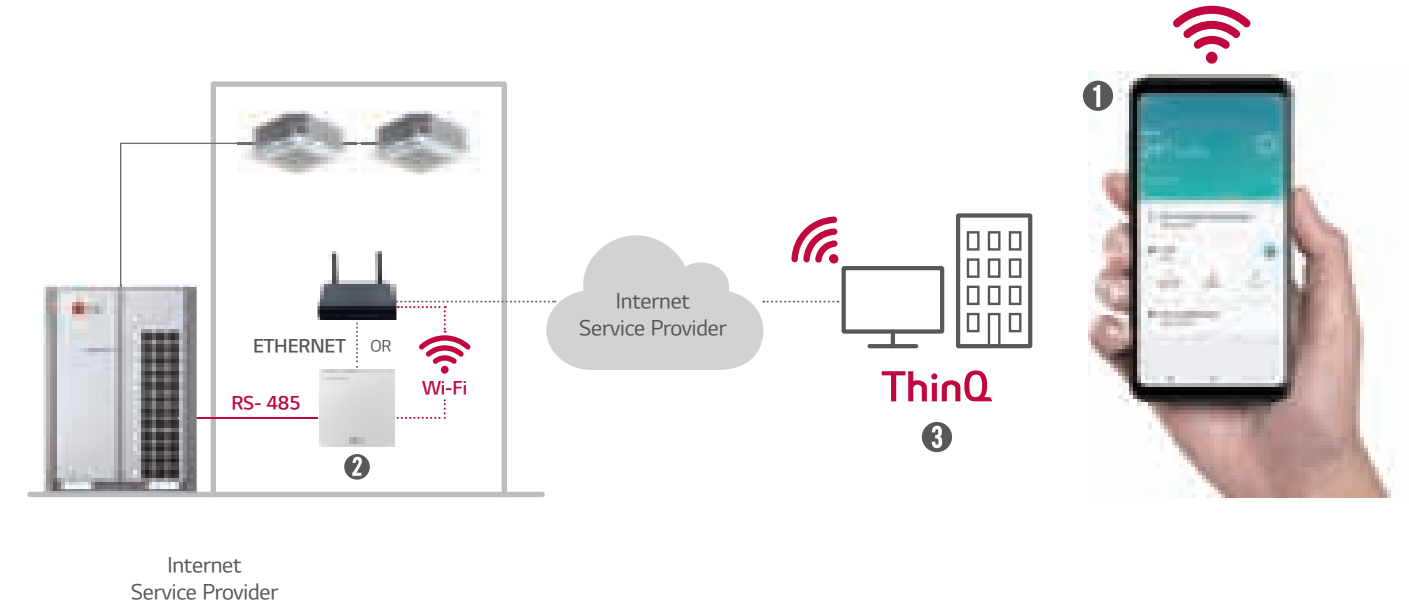


## LG ThinQ Connectivity

### Connection (Pairing) Order

- 1 Make LG account on LG ThinQ (Application) and login.
- 2 Select the installed product and set AP (Access Point) mode by pushing button for 3 seconds
- 3 Product registration progress is completed.

※ 5GHz networks may not be supported.

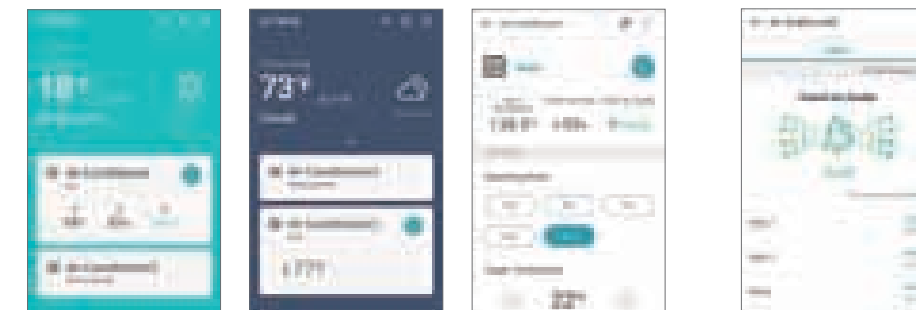


## LG ThinQ Mobile App

### Simple operation for various functions

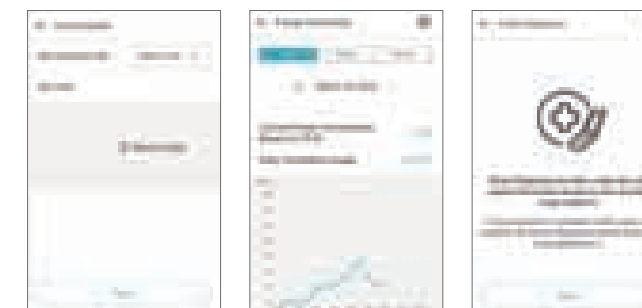
On, Off, Current Temp., Mode, Set Temp.

Air Purify



### Easy Management

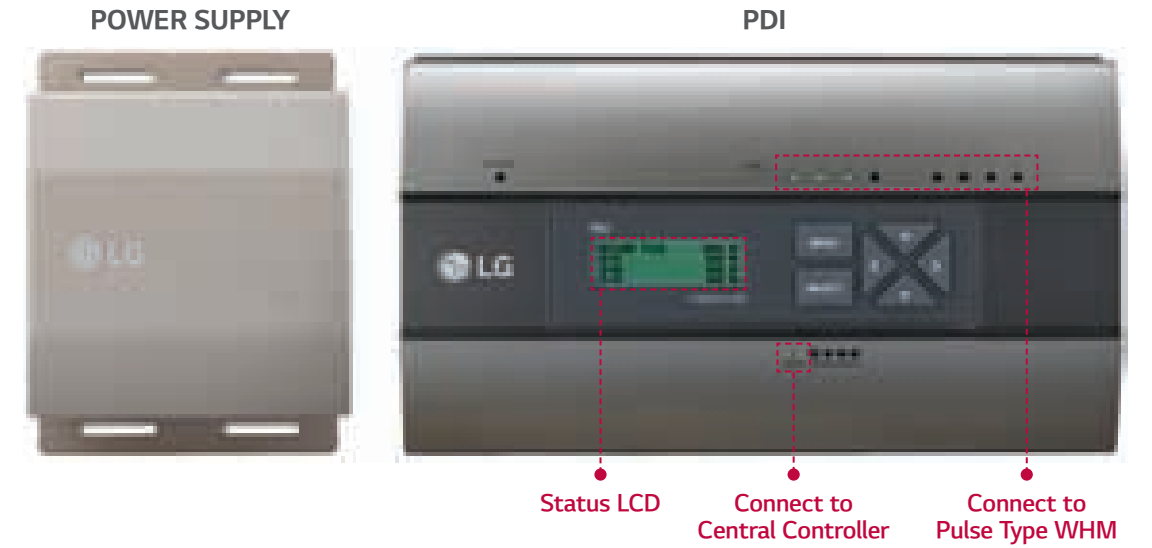
Schedule Energy Monitoring Smart Diagnosis



# INTEGRATION DEVICE



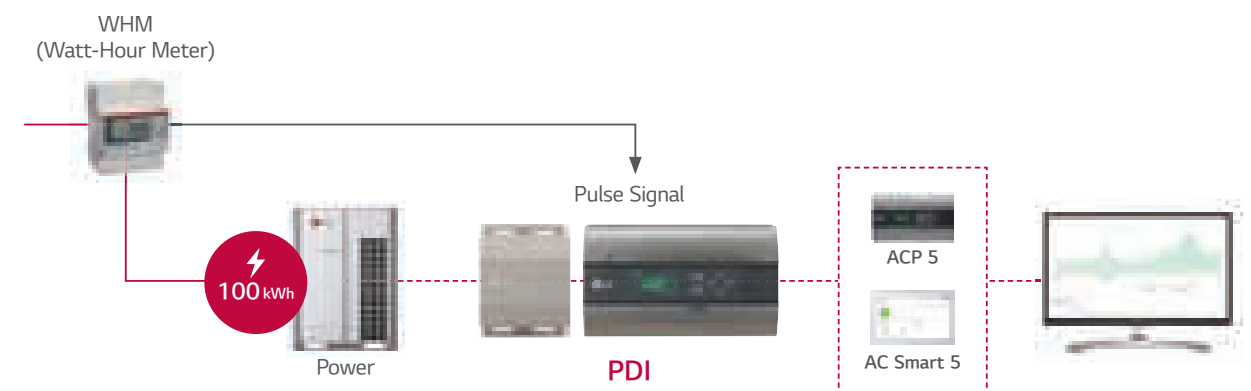
## PDI (Power Distribution Indicator)



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

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

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



# INTEGRATION DEVICE

## PDI (Power Distribution Indicator)

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

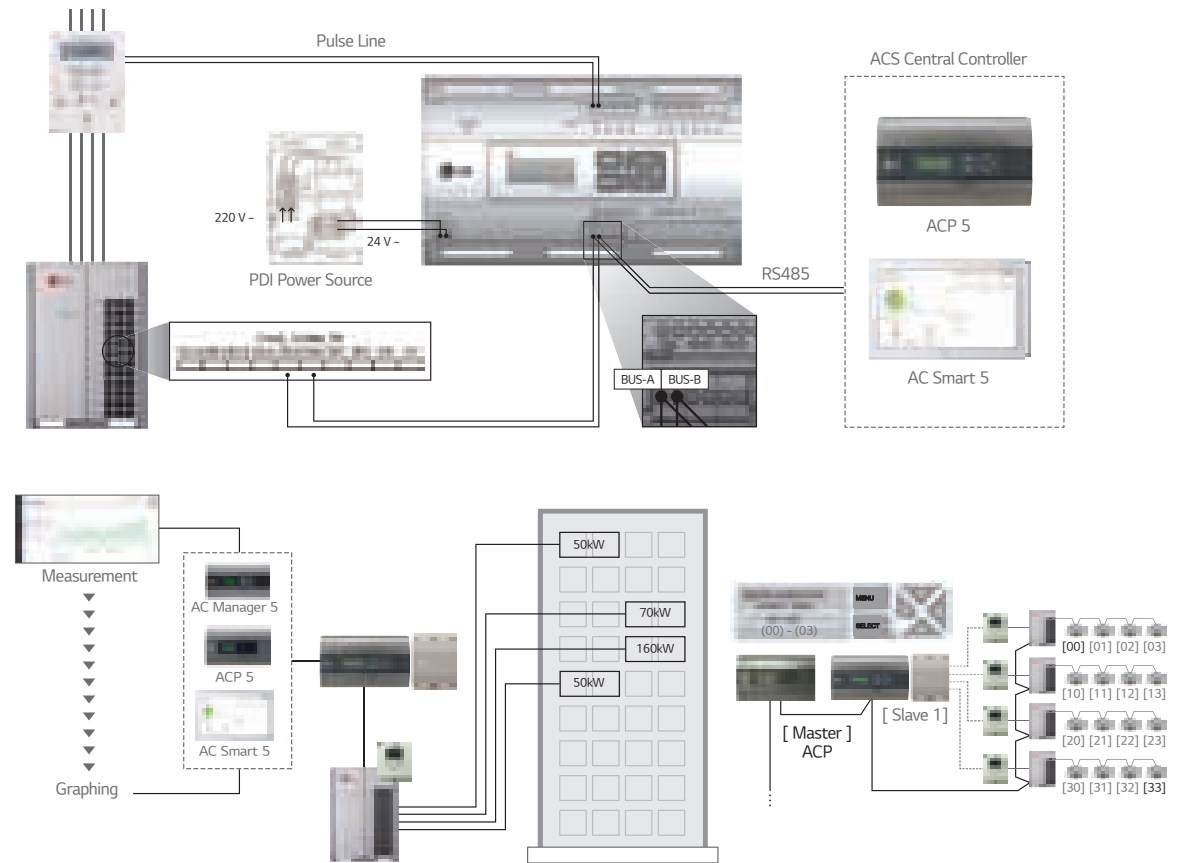
PDI shows distributed power consumption of up to 128 indoor units.



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

Model Name	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 155 x 65	
Interfaceable Products	Air conditioner, ERV DX	
Maximum Number of Power Meters	EHP : 8 Watt meter GHP : 4 Watt meter / 4 Gas meter	EHP : 2 Watt meter GHP : 1 Watt meter / 1 Gas meter
Maximum Number of Indoor Units	EHP : 128 GHP : 64	
Data Back up When Power Outage	○	
Power Input	PDI : AC 24V, Transformer : AC 220V	

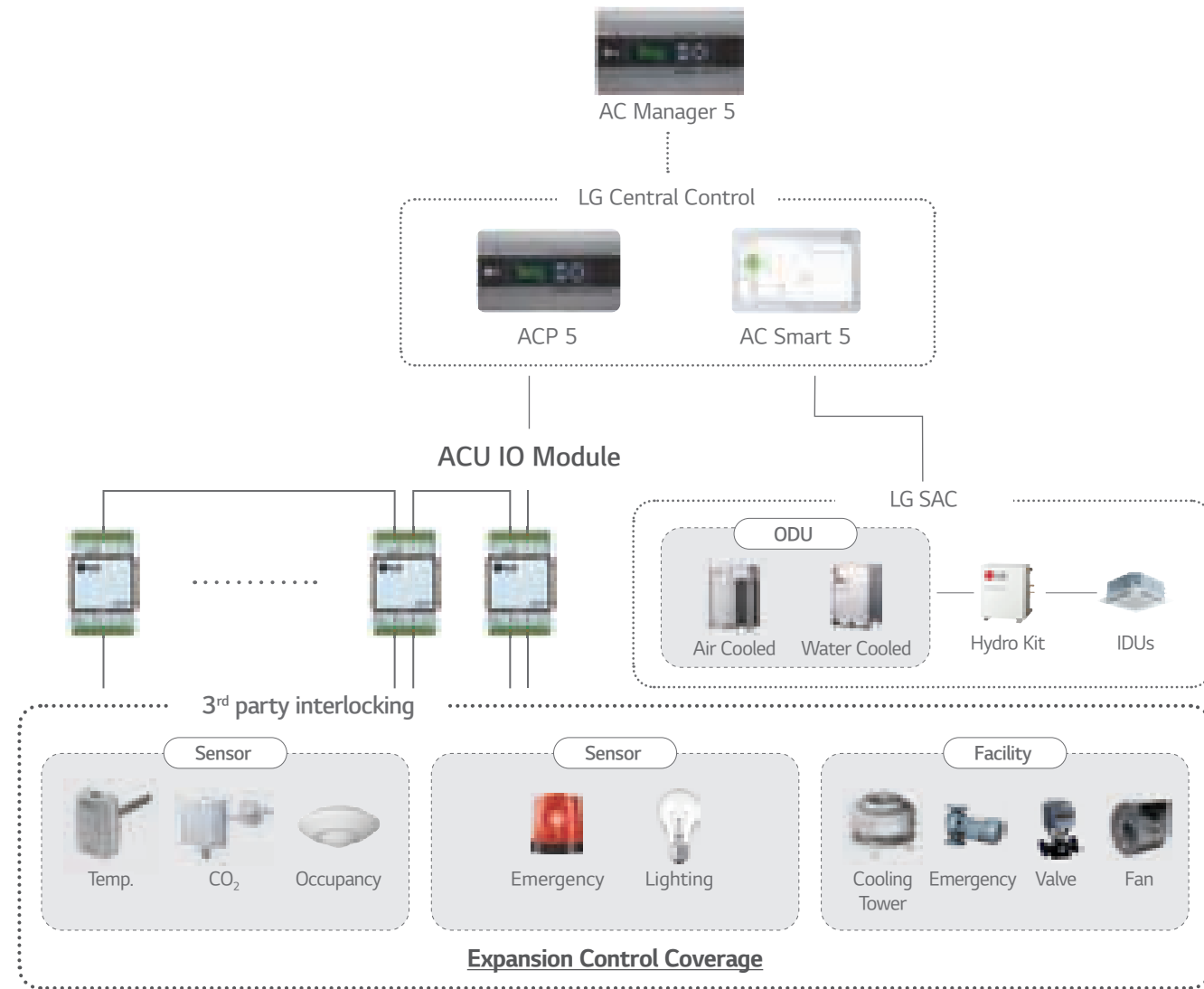
※ ○ : Applied, - : Not Applied



Note : 1. Power cable and type could be different from this scene depending on the Outdoor unit's specification.  
 2. Measured power consumption could be different between PDI and Watt meter.  
 3. Applicable Central Controller : ACP 5, ACP LonWorks, AC Smart 5, AC Ez Touch  
 (Combination : we recommend to connect separated watt meter for Outdoor units to have correct power distribution value)

# INTEGRATION DEVICE

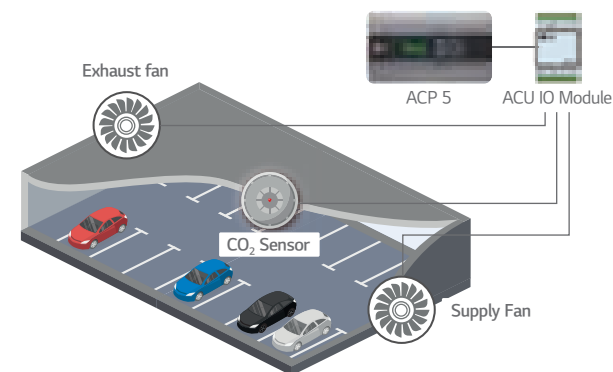
## ACU IO Module



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

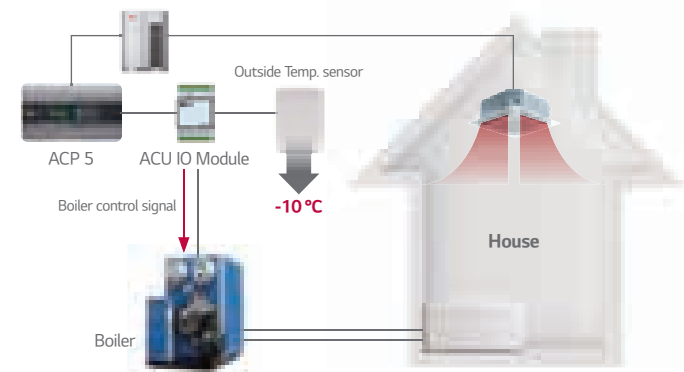
### Case. 1 Parking Lot Ventilation

Turning on ventilator when CO<sub>2</sub> Level is high



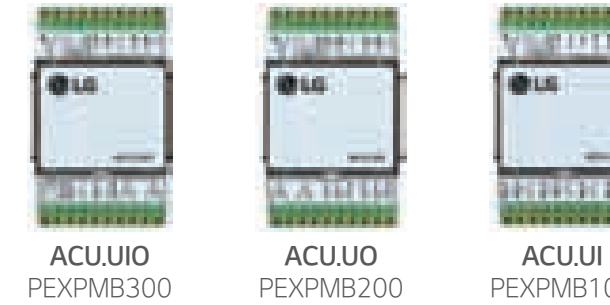
### Case. 2 Auxiliary Heater

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



### PEXPMB300 / PEXPMB200 / PEXPMB100

This module can be connected with ACP 5 or AC Smart 5 controller if additional I / O points such as UIO / UI / UO for 3<sup>rd</sup> party devices control and monitoring are needed.



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

Module Name	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PACSSA000, PACPSA000		
Communication RS-485	2 ch <sup>1)</sup>	1 ch	1 ch
Digital Input	-	-	3 ports
Digital Output	2 ports	6 ports	-
Universal Input <sup>2)</sup>	4 ports	-	6 ports
Analog Output	2 ports	4 ports	-

Value Spec		Min.	Max.
Analog Input	DC (Voltage)	0V	10V
Analog Output	DC (Voltage)	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal Open	-	30VDC, 1A

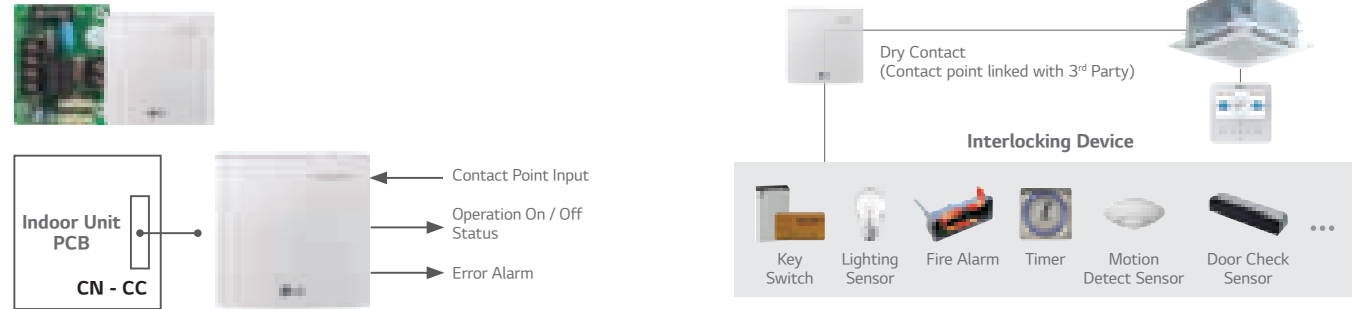
※ O : Applied, - : Not Applied  
 1) 1 ch is reserved for internal communication.  
 2) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.



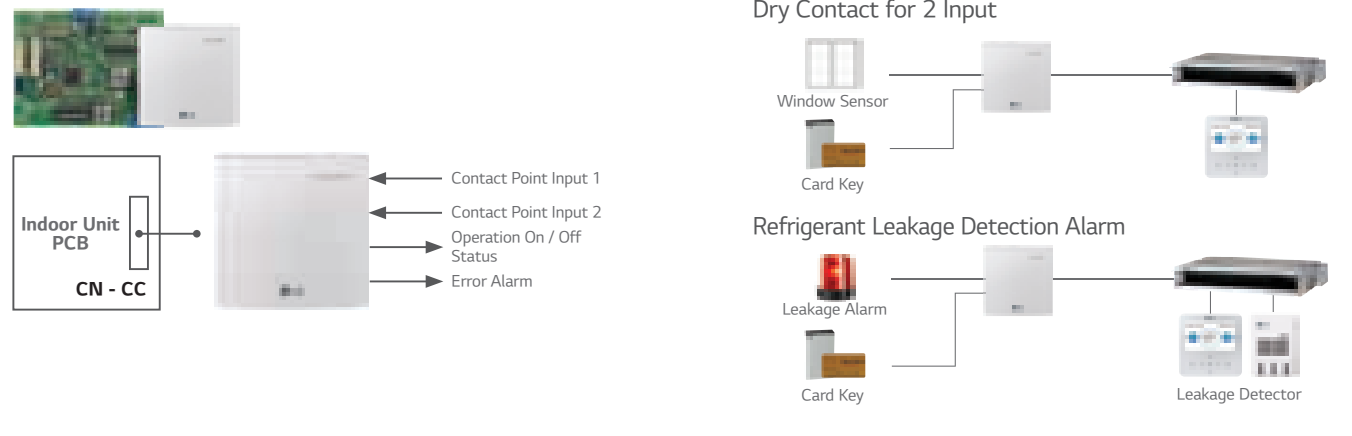
# INTEGRATION DEVICE

## Dry Contact

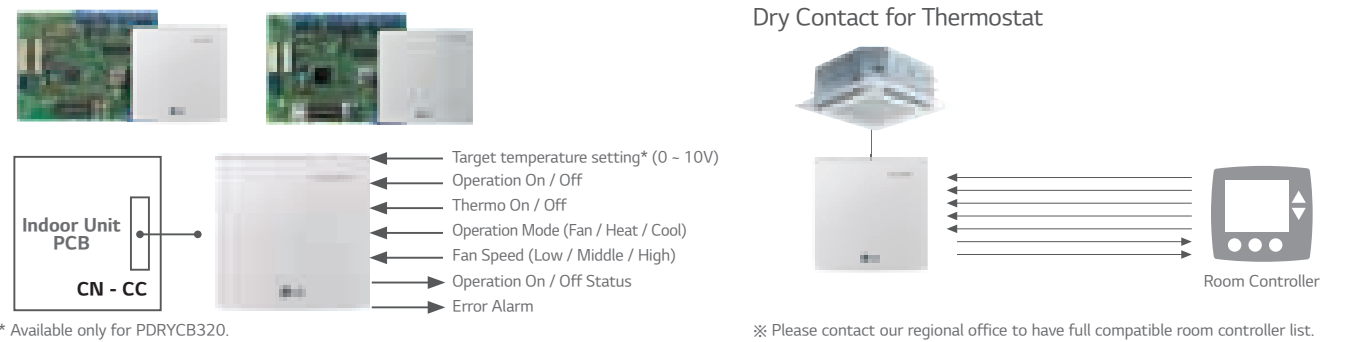
### PDRYCB000



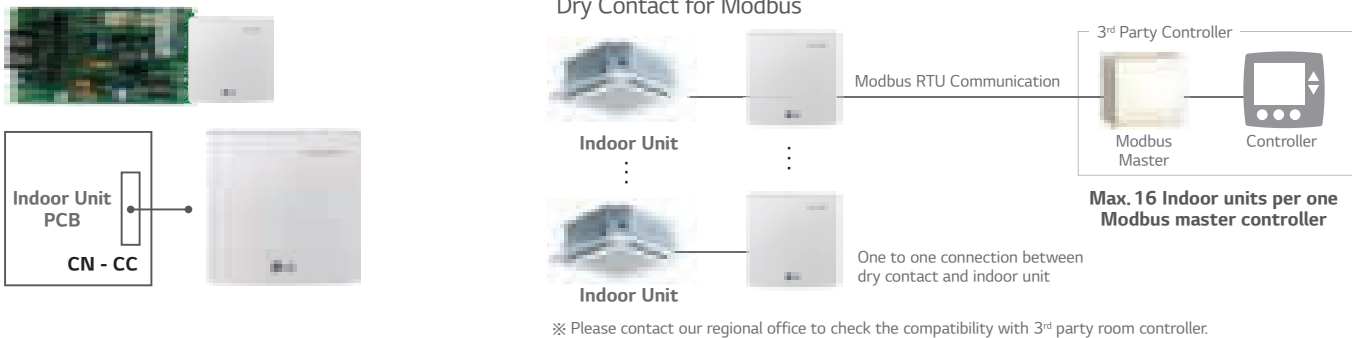
### PDRYCB400



### PDRYCB320



### PDRYCB500 / PDRYCB510 (w/o case)



## Specification

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

Model Name	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500 / PDRYCB510*	
Case	○	○	○	○	
Input Port	1	2	8	-	
Universal Input port	-	-	1	-	
Comm. Protocol	-	-	-	Modbus RTU	
Power	AC 220V	Connect to Indoor unit PCB (CN_CC) : DC 12V			
IDU	On / Off	○	○	○	
	Operation Mode	-	○	○	
	Set Temp.	-	(Select & Fix)	(Select & Fix)	
	Fan Speed	-	-	○	
	Thermo-Off	-	(Select & Fix)	○	
	Energy Saving	-	(Select & Fix)	-	
Control	Lock / Unlock	-	(Select & Fix)	-	
	Heating	On / Off	○	-	○
		DHW On / Off	-	-	○
		Thermo-Off	-	-	○
	Operation Mode	-	-	○	
	Silent Mode	-	-	○	
Emergency Mode	-	-	○		
ERV	On / Off	○	-	○	
	Operation Mode	-	-	○	
	Aircon Mode	-	-	○	
Output	Additional Mode	-	-	○	
	Fan Speed	-	-	○	
	Operation Status	○	○	○	
	Error	○	○	○	
Room Temp.	-	-	-	○	

※ ○ : Applied, - : Not Applied  
\*No case for PDRYCB510

Note :

- Compatibility of PDRYCB320
  - Can use with all types of aircon indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
  - Can use with new single package AK-W model after 2020. 1Q (The previous version Single package is not compatible)
  - Heating : 3 series AWHP split and Monobloc models 4 generation Hydro Kit

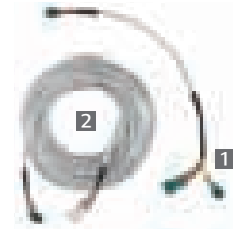
- Compatibility of PDRYCB400
  - Can use with all types of air conditioner indoor units after 2010. (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
  - Can use with new single package AK-W model after 2020. 1Q (The previous version Single package is not compatible)
  - Can not use with AWHP, Hydro Kit models.
- (Select & Fix) : This function is preset by rotary switch.

# INTEGRATION DEVICE

## Group Control Wire

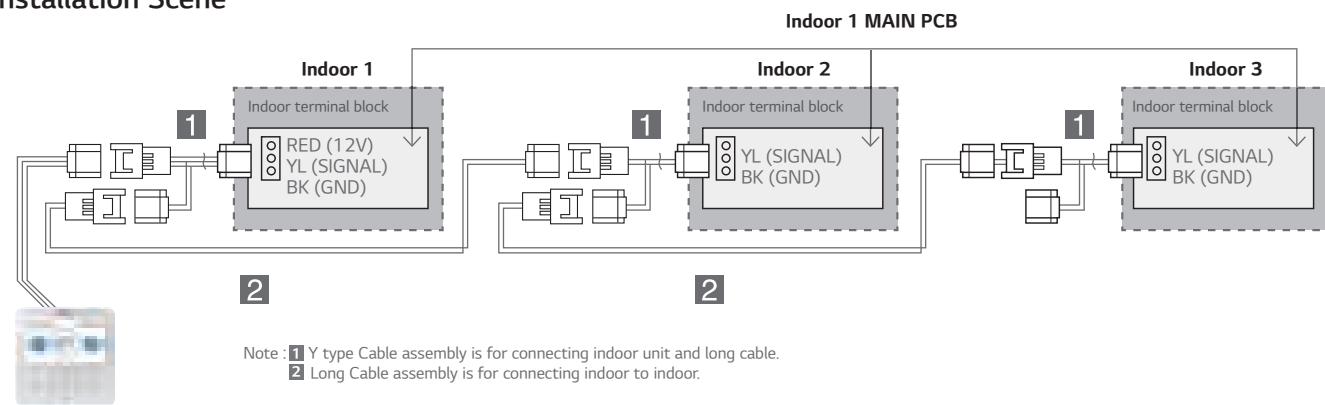
### PZCWRCG3

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



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

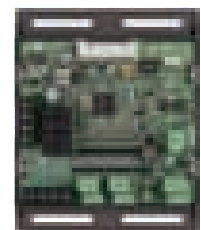
## Installation Scene



## IO Module

### PVDSMN000

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



#### Function

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

#### Description

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

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

#### Models Applied

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

#### Part Description

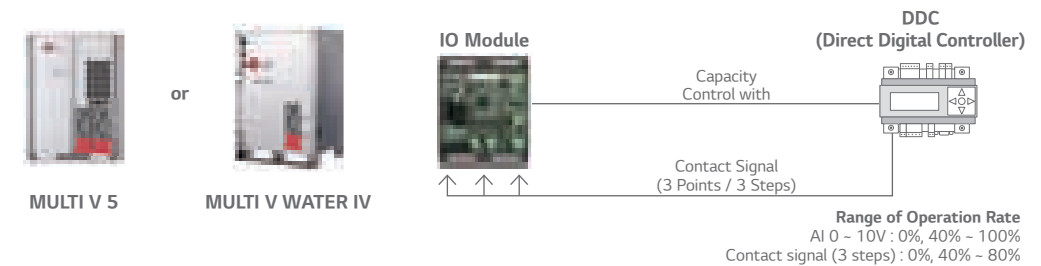
- 1) Digital Input Part (DI : Dry Contact Input)
  - Demand control by contact input (3 Step)
  - Low Noise Operation input
  - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
    - Open : External signal has priority to central controller (Default)
    - Close : Central controller has priority to external signal
- 2) Analog Input Part (AI : DC 0 ~ 10V)
  - Demand control by analog input (10 Step)
- 3) Digital Output Part (DO : AC 250V, Max. 1A)
  - Error status relay output
  - Operation status relay output
  - Valve control



## IO Module

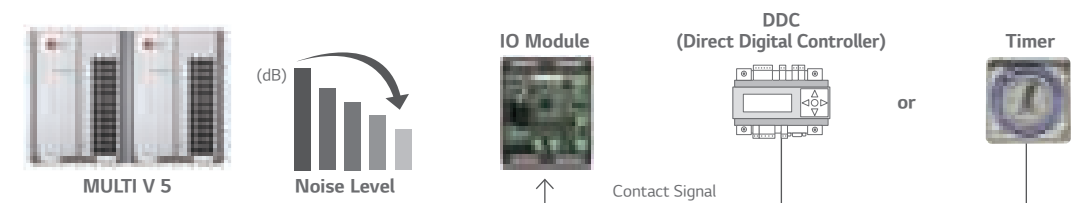
### ODU Capacity Control

Provides variable settings for ODU Capacity Control according to input method to reduce the power consumption. IO Module supports 2 types of input signal : Analog Inputs (0 ~ 10V, 10 steps) and contact signals (3 steps)



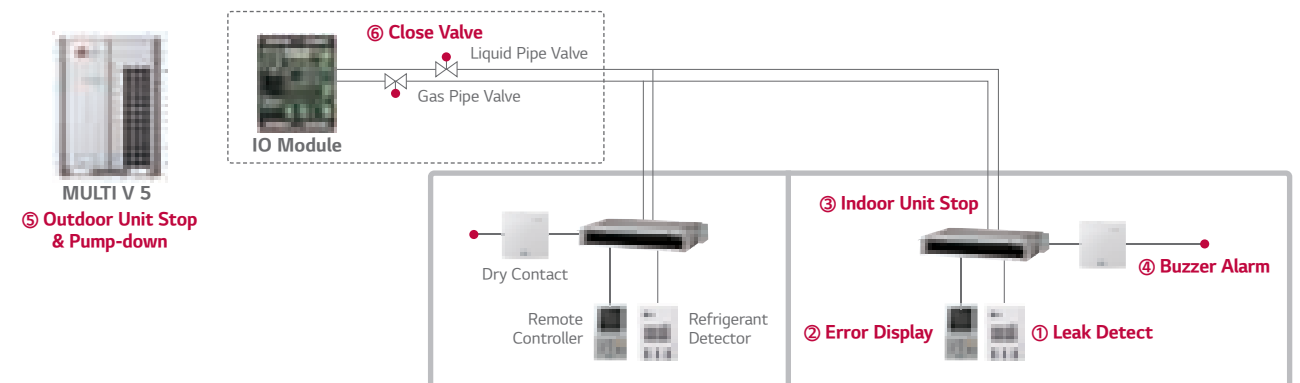
## Low Noise Operation

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



## Refrigerant Leakage Detection with Pump-down

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



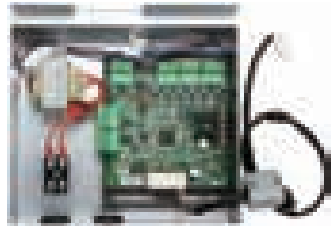
※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence which written in red, 1-6)

# INTEGRATION DEVICE

## Variable Water Flow Control Kit

PWFCKN000 (MULTI V WATER 4 & 5)

Accessory for controlling the water flow.



### Function

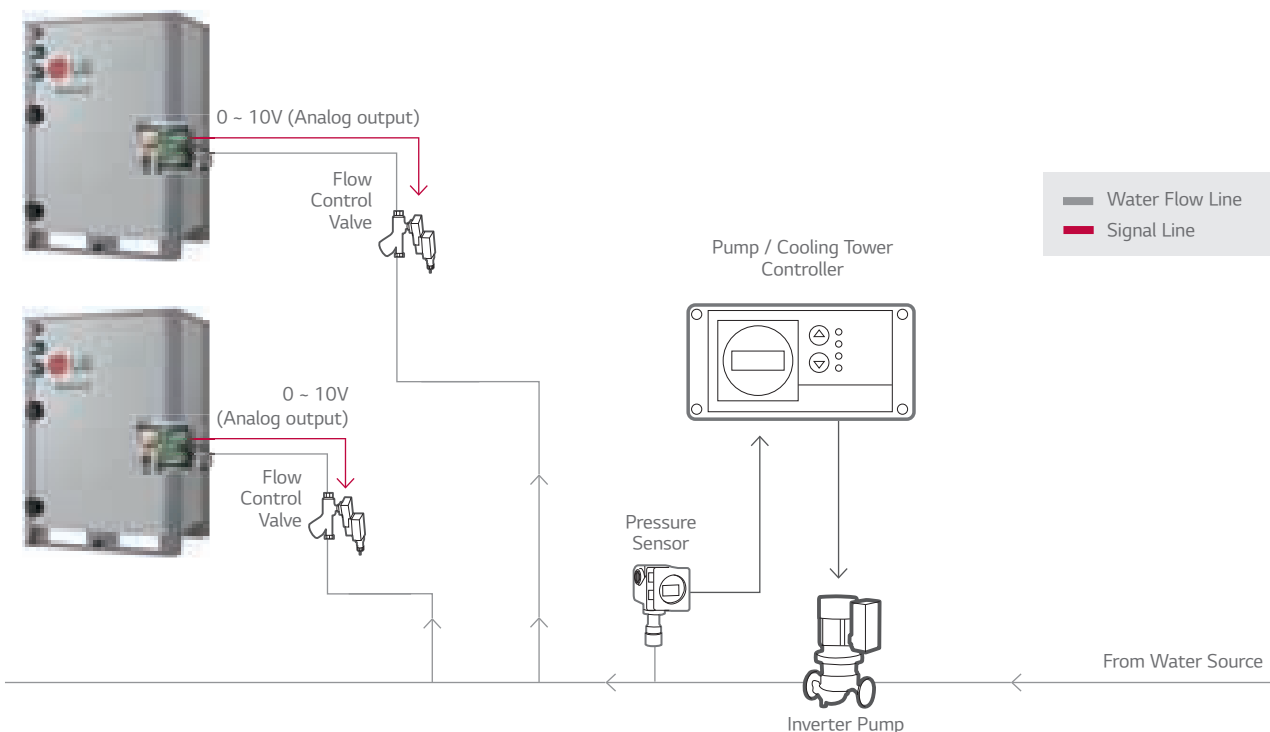
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

### Description

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input / output, Digital output)
- : Using Dry contact and variable water flow control function simultaneously.

## Installation Scene

- Flow Control Valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube.  
(The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
- Pressure Sensor : Measures the pressure.



## Cool / Heat Selector

PRDSBM

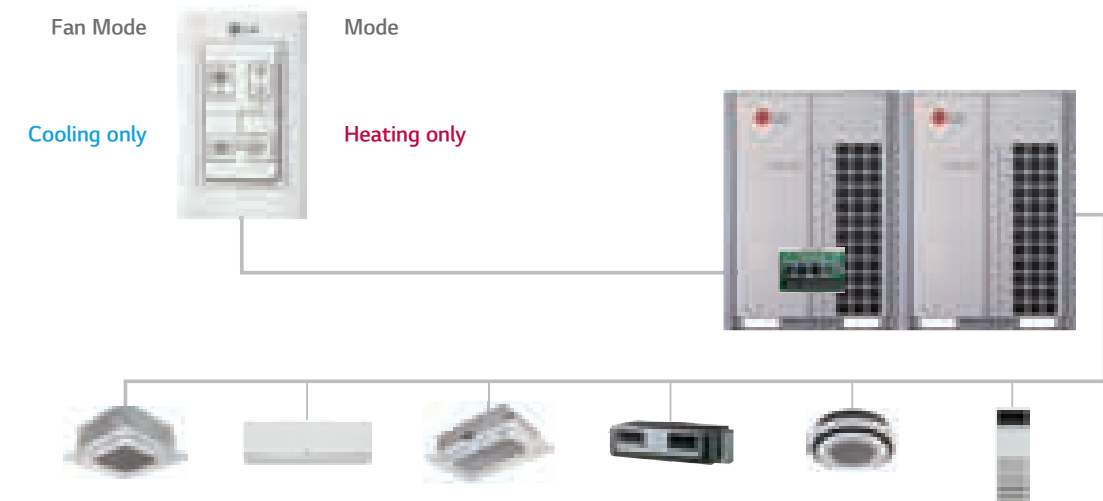
Cooling only, heating only, and fan mode can be selected.



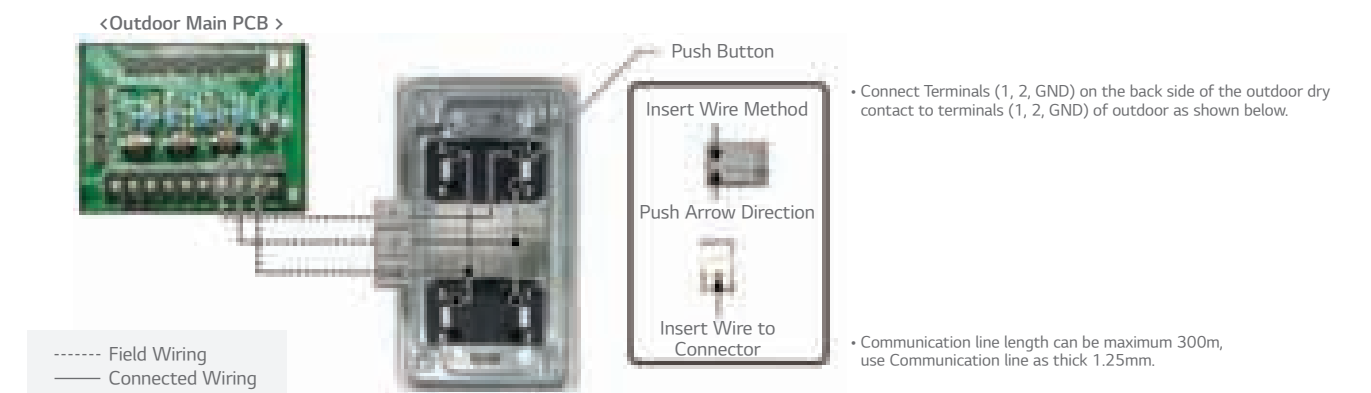
- Indoor unit mode control without central controller.
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season.

### Models Applied

- MULTI V 5
- MULTI V 4
- MULTI V S
- MULTI V WATER IV



## Installation Scene



# INTEGRATION DEVICE

## AHU Kits

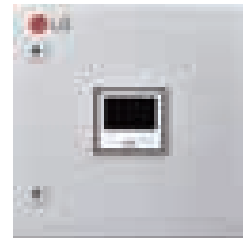
A solution to connect LG's high efficiency system to the DX coil of an air handling unit for the maximum energy savings.

### COMMUNICATION KIT



PAHCMR000 PAHCMS000

### CONTROL KIT



PAHCNM000

### EEV KIT



PRLK048A0 PRLK096A0 PRLK396A0 PRLK594A0

## Specifications

### Control Application Kit

Type	Model	Dimensions (mm)			Power Supply	IP Rating	Description
		W	H	D			
Communication Kit	PAHCMR000	300	300	155	1Ø, 220 - 240 V, 50 / 60 Hz	IP66	Return / Room air temperature control by DDC or LG individual / centralized controller.
	PAHCMS000	380	300	155	1Ø, 220 - 240 V, 50 / 60 Hz	IP66	Discharge air / Supply air temperature control by DDC or LG individual / centralized controller
Control Kit	PAHCNM000	500	500	210	1Ø, 220 - 240 V, 50 / 60 Hz	-	Various AHU control functions with multiple DX coils (Maximum connectable ODU is 3 units)

### Expansion Application Kit

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

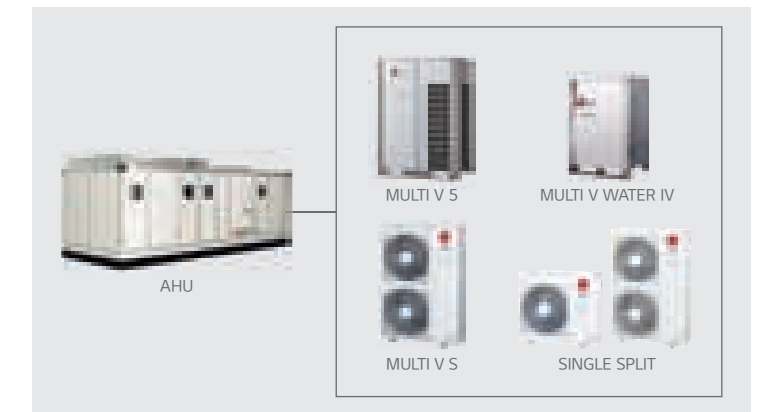
### Communication Kit

#### High Energy Efficiency

LG's DX AHU solutions' superior performance provides a highly efficient heat source system.

- High energy efficiency inverter system
- Large range of expansion application Kit : Max.168 kW EEV Kit <sup>1)</sup>
- Connected to various heat sources : MULTI V, MULTI V WATER IV, MULTI V S, SINGLE SPLIT

1) Maximum connectable EEV capacity for PAHCMR000, PAHCMS000 is 112 kW.

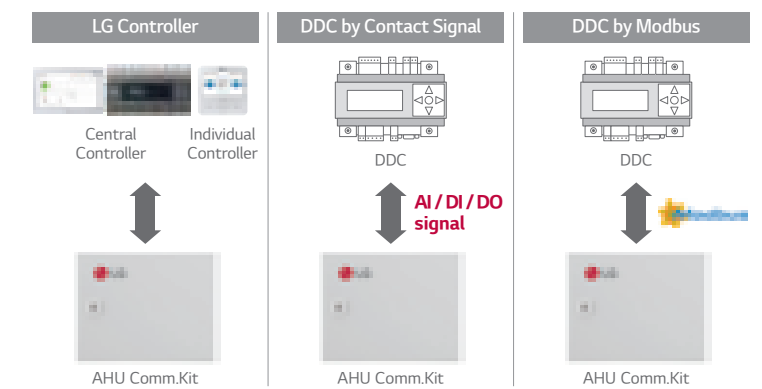


### Diverse Options for Control

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

It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

- LG Individual / Central controller supported
  - LG controller stand alone or combination with DDC
- Direct wiring between DDC and AHU communication kit
  - Embedded Digital I / O and Analog Input
  - Modbus RTU protocol supported

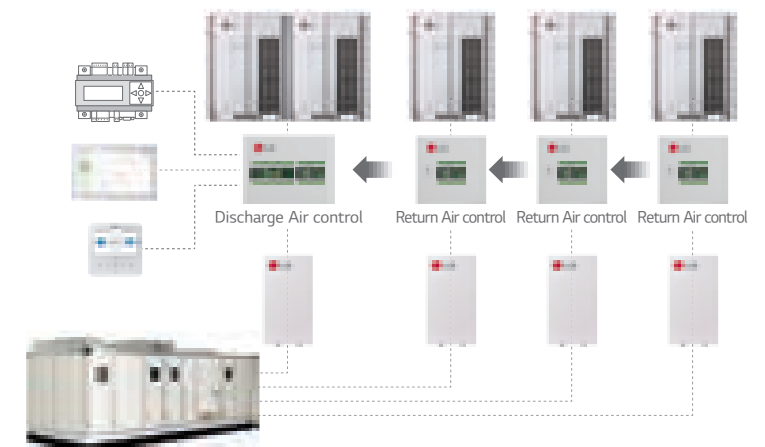


1) DDC : Direct Digital Controller

### Expandable System Design

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

- Multiple module combination for large capacity AHU

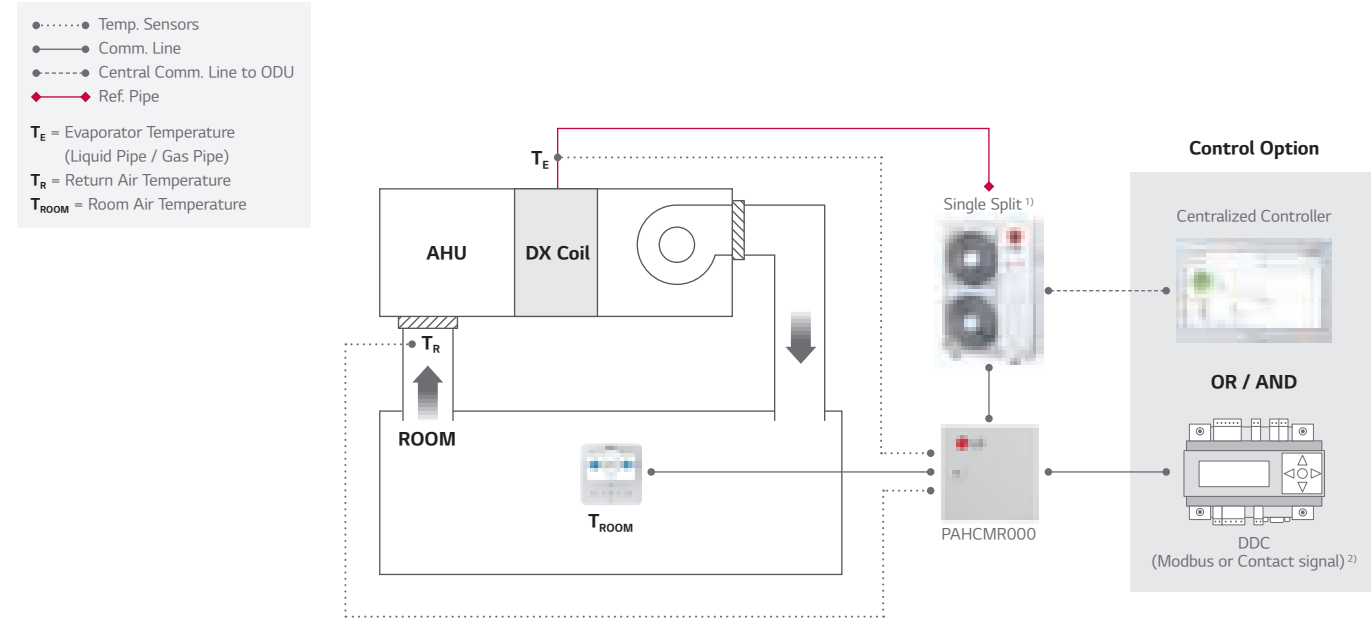


# INTEGRATION DEVICE

## AHU Kits

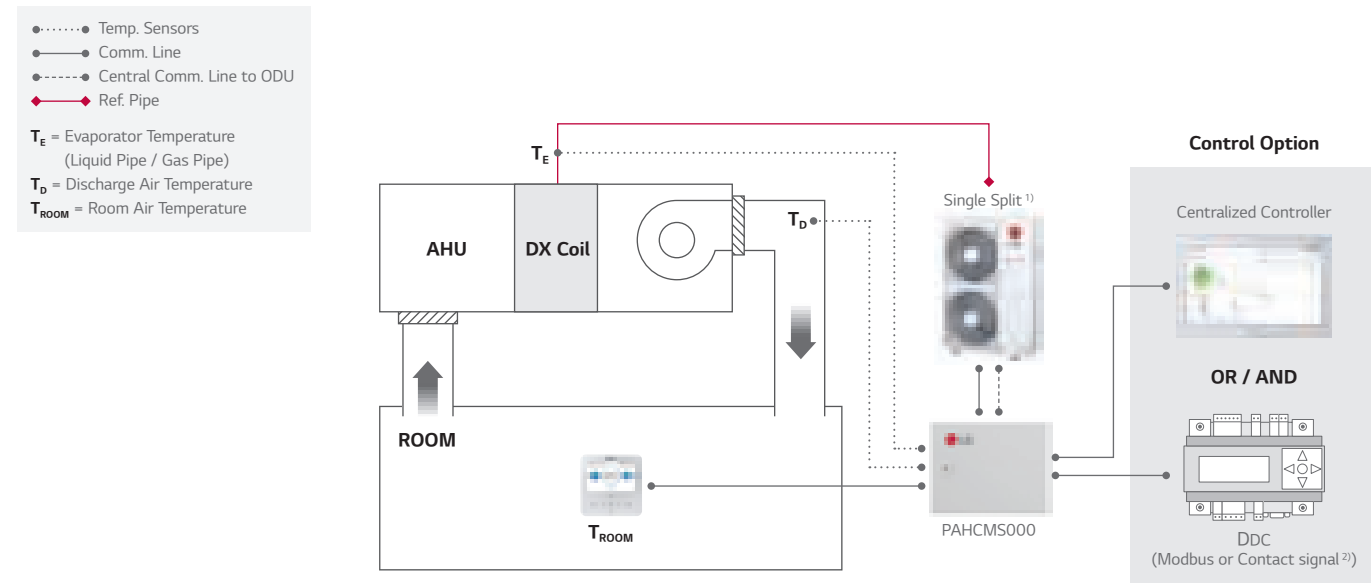
### Communication Kit & Controller Module

Single Split Application (Communication Kit & Controller Module)  
 Single Split + Return / Room Air Temperature Control



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

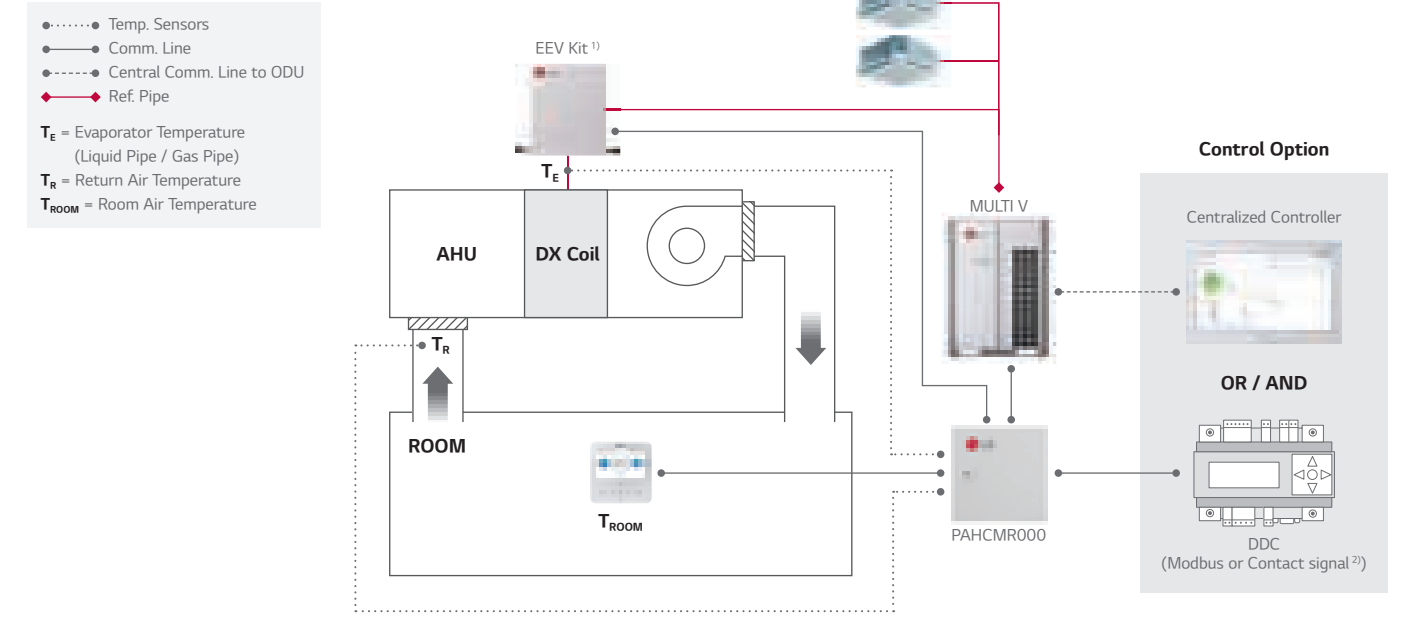
Single Split Application  
 Single Split + Discharge Air Temperature Control



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

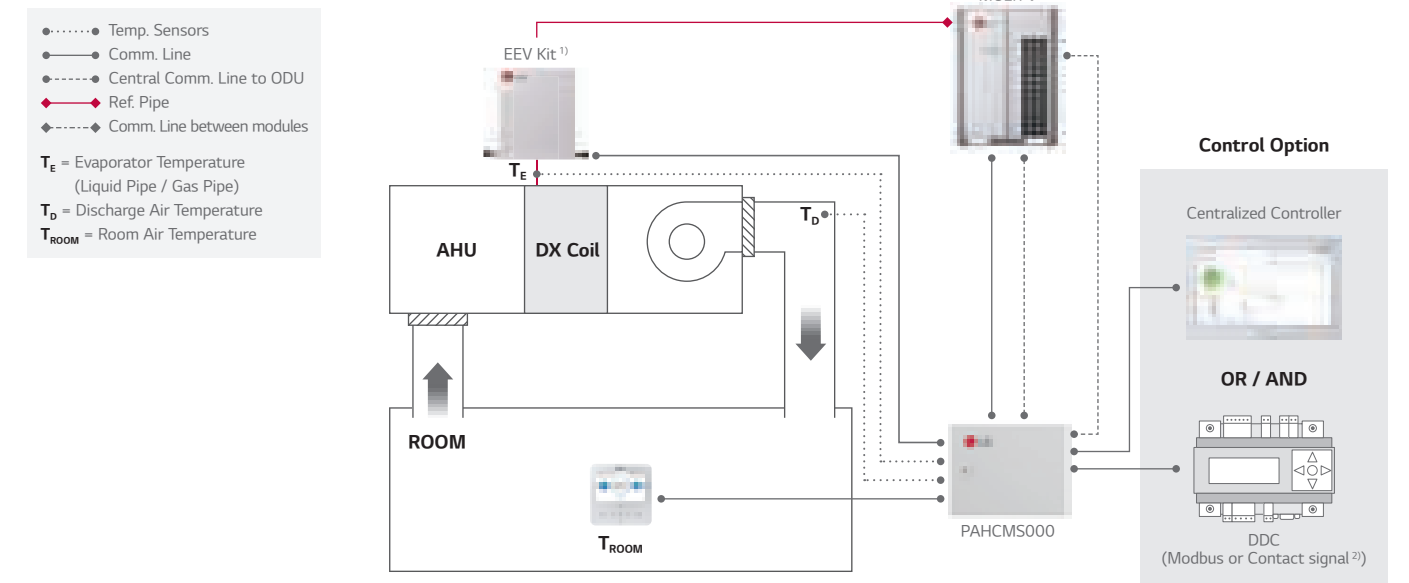
### Communication Kit & Controller Module

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



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

MULTI V Application  
 MULTI V + EEV Kit + Discharge Air Temperature Control



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

# INTEGRATION DEVICE

## AHU Kits

### Communication Kit Function

#### Communication with DDC via Contact Signal

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

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

#### Communication with DDC via Modbus protocol

Function List	PAHCMR000	PAHCMS000	Note
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 <sup>2)</sup>	-	○	Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C. Standard III <sup>4)</sup> : 12 ~ 50 °C
Fan Speed <sup>3)</sup>	High / Middle / Low	-	
Forced Thermal On / Off	-	-	
ODU Capacity Control <sup>2)</sup>	-	10 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
Emergency Stop	-	-	
Operation	On / Off	On / Off	
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
Return (Room) Air Temperature	○	-	Corresponding air temperature sensor connected to AHU Comm.Kit is required
Discharge Air Temperature	-	○	
Fan Speed	High / Middle / Low	High / Middle / Low	
Defrost Operation	Defrost / Normal	Defrost / Normal	
Error Alarm	Error / Normal, Error code	Error / Normal, Error code	
Compressor On / Off	On / Off	On / Off	

- ※ ○ : Applied, - : Not Applied  
 1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.  
 2) In case of PAHCMS000, control type between "Discharge Air Temperature" and "ODU Capacity Control" is selectable.  
 3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.  
 4) Standard III wired remote controller after version 2.10.5a.  
 Note : For the Modbus memory map and more detail information, please refer to the product data book.










### Communication Kit Function

#### With LG Control System (Individual & Centralized Controller)

Function List	PAHCMR000	PAHCMS000	Note
Operation On / Off	On / Off	On / Off	-
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	Available operation mode can vary depending on the settings of Communication Kit
Return (Room) Air Temperature <sup>2)</sup>	16 ~ 30 °C	-	-
Discharge Air Temperature <sup>2)</sup>	-	○	Standard II : 16 ~ 30 °C Standard III <sup>4)</sup> : 12 ~ 50 °C Central Controllers : 12 ~ 50 °C
Fan Speed <sup>3)</sup>	High / Mid / Low	High / Mid / Low	To control the AHU fan, dip switch 1-3 'DO type' should be set 'On (Fan Speed)' (PAHCMR000)
Operation	On / Off	On / Off	-
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	-
Return (Room) Air Temperature	○	-	-
Discharge Air Temperature	-	○	Standard II : 11 ~ 39.5 °C Standard III <sup>4)</sup> : 0 ~ 100.0 °C Central : -50.0 ~ 100.0 °C
Fan Speed	High / Middle / Low	High / Middle / Low	-
Defrost Operation	On / Off	On / Off	Only with Individual Controller
Error Alarm	Error Code	Error Code	Error code will be displayed on the screen
Compressor On / Off	On / Off	On / Off	Only with Individual Controller

- ※ ○ : Applied, - : Not Applied  
 1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.  
 2) The range of setting temperature is different depending on the type of the controllers. And operation may different from setting range.  
 3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.  
 4) Standard III wired remote controller after version 2.10.5a.  
 Note : For more detail information, please refer to the product data book.

#### Compatibility with LG HVAC Controllers

Controller	Individual Controller			Centralized Controller					PDI
	Premium	Standard III	Standard II	AC Ez	AC Ez Touch	AC Smart 5	ACP 5	AC Manager 5 <sup>1)</sup>	Premium Standard
									
Model no.	PREMTA000	PREMTB100	PREMTB001	PQCSZ250S0	PACEZA000	PACSSA000	PACP5A000	PACM5A000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○
PAHCMS000	-	○ <sup>2)</sup>	○	-	-	○	○	○	-

- ※ ○ : Applied, - : Not Applied  
 1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.  
 2) Set temperature range of this model shall be extended April, 2020.  
 Note : 1. Dry contact for indoor unit (PDRYCB000 / 400 / 300 / 500) is not applied.  
 2. For more details, please refer to the product data book.



# INTEGRATION DEVICE

## AHU Kits

### Outdoor Unit Compatibility

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

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

1) When connecting to Single Split outdoor unit, please check the compatibility to the regional sales office.

For Medium-Large Size Application (~ 672 kW) - MULTI V

Type	Model	MULTI V				MULTI V WATER	
		S	IV	III	S	IV	
Communication Kit (Controller Module)	PAHCMR000	○	○	○	○	○	
	PAHCMS000	○	○	○	○	○	
Control Kit	PAHCNM000	○	○	○	○	○	

### EEV Kit Compatibility

EEV Kit Model	Capacity index (kW / HP)		AHU Application Kits (Maximum connectable EEV Kits)			Connection by ODU system		
	Min.	Max.	PAHCMR000	PAHCMS000	PAHCNM000	MULTI V		Single Split
						HEAT PUMP	HEAT RECOVERY	
PRLK048A0	3.6 / 2	28 / 10	○ (1)	○ (1)	○ (6)	○	○	-
PRLK096A0	28.1 / 10	56 / 20	○ (1)	○ (1)	○ (6)	○	○ (Max. 33.7 kW)	-
PRLK396A0	56.1 / 20	112 / 40	○ (1)	○ (1)	○ (6)	○	-	-
PRLK594A0	112.1 / 40	168 / 60	-	○ (1)	○ (3)	○	-	-

※ ○ : Applied, - : Not applied

Note : 1. Table of the outdoor unit compatibility is based on European regional model.

2. When connecting outdoor units in other areas, please check whether they are compatible or not.

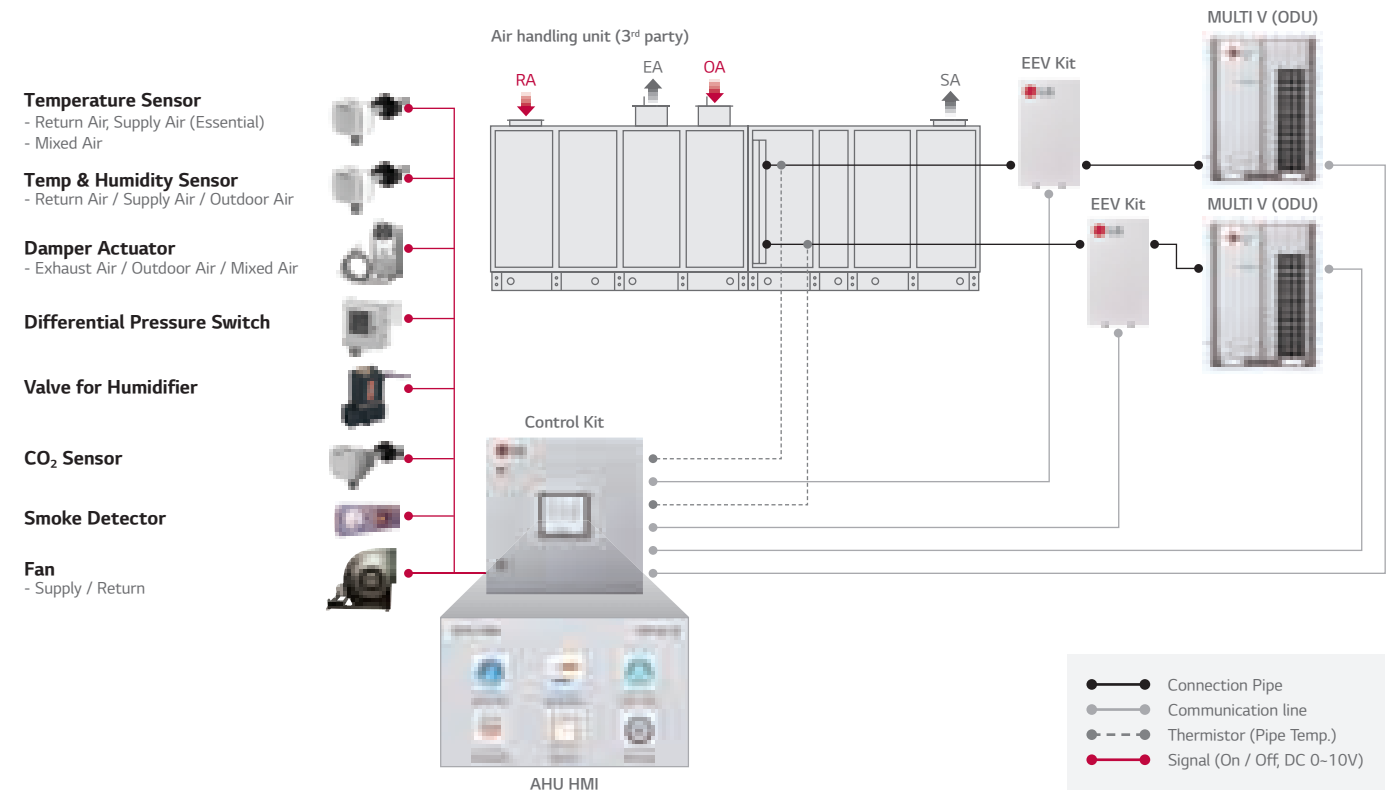
3. Expansion application kit compatibility is based on capacity index of the system, it may be changed according to system design condition.

### Control Kit

Field Supplied Item

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

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



# HOTEL APPLICATION

## Hotel Control Solution

**Guest Rooms**  
Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

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

**Public Areas**  
Centralized management of the public areas

### Design Proposal

Guest Room				Reception / Public Areas	
<p>The air conditioner automatically turn off when guests leave</p>	<p>Integrated control of air conditioner with the hotel room controller</p>	<p>Control with existing hotel thermostat</p>	<p>Guest safety is the first priority</p>	<p>Air conditioner control in conjunction with check-in or check out</p>	
<p><b>PDRYCB400</b> 2 contact point</p> <p><b>Input</b></p> <ul style="list-style-type: none"> <li>• Operation On / Off</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>• Operation On / Off status</li> <li>• Error alarm</li> </ul>	<p><b>PDRYCB500 / PDRYCB510 (w/o case)</b> Modbus RTU (9,600bps)</p> <p><b>Function</b></p> <ul style="list-style-type: none"> <li>• Operation</li> <li>• Indoor temperature</li> <li>• Error alarm</li> <li>• Set run mode</li> <li>• Set temperature</li> <li>• Set fan speed</li> </ul>	<p><b>PDRYCB320</b> 8 contact point</p> <p><b>Input</b></p> <ul style="list-style-type: none"> <li>• Universal Input</li> <li>• Operation On / Off</li> <li>• Thermo On / Off</li> <li>• Operation mode (Fan / Heat / Cool)</li> <li>• Fan speed (Low / Middle / High)</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>• Operation On / Off status</li> <li>• Error alarm</li> </ul>	<p><b>PRLDNV50</b> Refrigerant leakage detector</p> <ul style="list-style-type: none"> <li>• 6,000ppm</li> </ul> <p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>• 4.3 inch color LCD</li> <li>• Touch button</li> </ul>	<p><b>PACS5A000</b> AC Smart 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul> <p><b>PACP5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	

# SHOPPING MALL APPLICATION

## Shopping Mall Control Solution

**Retail**  
Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alert

**Maintenance Office**  
Reduces energy by checking operational trends

**Atrium**  
Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

### Design Proposal

Retail		Maintenance Office	Atrium	
<p>Rationally distribute and manage power consumption by the tenant</p>	<p>Fast problem detection and alarms</p>	<p>Reduces energy by checking operational trends</p>	<p>Integrated management of AHU applied to large spaces</p>	<p>Chiller and VRF integrated control</p>
<p><b>PPWRDB000</b> PDI Standard (2 port)</p> <ul style="list-style-type: none"> <li>• Max. 128 IDU</li> </ul> <p><b>PQNUD1S40</b> PDI Premium (8 port)</p> <ul style="list-style-type: none"> <li>• Max. 128 IDU</li> </ul>	<p><b>PACS5A000</b> AC Smart 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul> <p><b>PACP5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>• BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PAHCMR000</b> AHU Comm. Kit</p> <ul style="list-style-type: none"> <li>• Return air</li> </ul> <p><b>PAHCMS000</b> AHU Comm. Kit</p> <ul style="list-style-type: none"> <li>• Discharge air</li> </ul>	<p><b>PACS5A000</b> AC Smart 5</p> <p><b>PACP5A000</b> ACP 5</p>	

# HOSPITAL APPLICATION

## Hospital Control Solution

**Hospital Ward**

- Proper airflow management for patients
- Monitor the comfort level for each hospital ward
- Control fan speed and air volume

**Service Zone**

- Energy savings based on flexible scheduling

**Lobby**

- Centralized management of AHU for large spaces

**Hospital Ward**

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**Service Zone**

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**Lobby**

### 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
PTVSM AO 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)	<b>Input</b> • Operation On / Off	• BMS Integration (BACnet IP, Modbus TCP)	• Return air
		<b>Output</b> • Operation On / Off status • Error alarm		
PREMTB100 Wired remote controller	PACP5A000 ACP 5		• BMS Integration (BACnet IP, Modbus TCP)	PAHCMS000 AHU Comm. Kit
• 4.3 inch color LCD • Touch button	• BMS Integration (BACnet IP, Modbus TCP)			• Discharge air

# EDUCATION APPLICATION

## Education Control Solution

**Class Room**

- Automatically save energy in the absence of students
- Central controls prevent students from arbitrary control

**Lecture Hall**

- Schedule management according to academic plan

**Maintenance Office**

- Integrated management of distributed buildings
- Centralized management with multiple interfaces

**Class Room**

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**Lecture Hall**

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**Maintenance Office**

### Design Proposal

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

# OFFICE APPLICATION

## Office Control Solution

**Maintenance Office**

Energy savings and management throughout the building

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Integrated management of HVAC with BMS system

---

Reduce costs by replacing BMS

**Office Room**

Reasonable power distribution to tenants

**Server Room**

24-hour back up management

**Meeting Room**

Energy savings based on occupancy detection

### Design Proposal

Maintenance Office	Office Room	Server Room	Meeting Room
<p>Energy savings and management throughout the building</p>	<p>Reasonable power distribution to tenants</p>	<p>Main equipment 24 hours back up management</p>	<p>Energy savings based on occupancy detection</p>
<p>Integrated management of HVAC with BMS system</p>	<p>Reduce costs by replacing BMS</p>	<p>Human detection sensor</p>	<p>Human detection sensor</p>
<p><b>PAC5A000</b> AC Smart 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PACP5A000</b> ACP 5</p>	<p><b>PAC5A000</b> AC Smart 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PTVSMAO</b> Human detection sensor</p>
<p><b>PACP5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PEXPM300</b> <b>PEXPM200</b> <b>PEXPM100</b> ACU IO Module</p>	<p><b>PAC5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>4.3 inch color LCD</li> <li>Touch button</li> </ul>
<p><b>PAC5A000</b> AC Smart 5</p>	<p><b>PPWRDB000</b> PDI Standard (2 port)</p> <ul style="list-style-type: none"> <li>Max. 128 IDU</li> </ul>	<p><b>PAC5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>4.3 inch color LCD</li> <li>Touch button</li> </ul>
<p><b>PAC5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PQNUD1S40</b> PDI Premium (8 port)</p> <ul style="list-style-type: none"> <li>Max. 128 IDU</li> </ul>	<p><b>PAC5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>4.3 inch color LCD</li> <li>Touch button</li> </ul>
<p><b>PAC5A000</b> ACP 5</p>	<p><b>PMBUSB00A</b> Modbus RTU gateway</p>	<p><b>PAC5A000</b> ACP 5</p> <ul style="list-style-type: none"> <li>BMS Integration (BACnet IP, Modbus TCP)</li> </ul>	<p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>4.3 inch color LCD</li> <li>Touch button</li> </ul>

# RESIDENTIAL APPLICATION

## Residential Control Solution

**Home**

Anytime, anywhere air conditioner control and access

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Integrate systems for smart connectivity throughout

**Bed Room**

Use a familiar residential thermostat

---

Simple interlocking control by remote control

**Apartment / Residence**

Stable system operation.

### Design Proposal

Home	Living Room	Bed Room	Apartment
<p>Control your home air conditioner anytime, anywhere</p>	<p>Build a smart house</p>	<p>Use a familiar residential thermostat</p>	<p>Stable system operation when indoor unit power is lost</p>
<p><b>PWFMD200</b> LG Wi-Fi modem</p>	<p><b>PDRYCB500 / PDRYCB510 (w/o case)</b> Modbus RTU (9,600bps)</p>	<p><b>PDRYCB320</b> 8 contact point</p>	<p><b>PINPMB001</b> Independent power module</p> <ul style="list-style-type: none"> <li>EEV full close function</li> </ul>
<p><b>Function</b></p> <ul style="list-style-type: none"> <li>On / Off</li> <li>Fan speed</li> <li>Operation mode</li> <li>Vane control</li> <li>Reservation (Sleep, Weekly On / Off)</li> <li>Error check</li> </ul>	<p><b>Function</b></p> <ul style="list-style-type: none"> <li>Operation</li> <li>Indoor temperature</li> <li>Error alarm</li> <li>Set operation mode</li> <li>Set temperature</li> <li>Set fan speed</li> </ul>	<p><b>Input</b></p> <ul style="list-style-type: none"> <li>Universal Input</li> <li>Operation On / Off</li> <li>Thermo On / Off</li> <li>Operation mode (Fan / Heat / Cool)</li> <li>Fan speed (Low / Middle / High)</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>Operation On / Off status</li> <li>Error alarm</li> </ul>	<p><b>PREMTB100</b> Wired remote controller</p> <ul style="list-style-type: none"> <li>4.3 inch color LCD</li> <li>Touch button</li> </ul>



# ACCESSORIES

• MECHANICAL ACCESSORIES

• PIPING ACCESSORIES



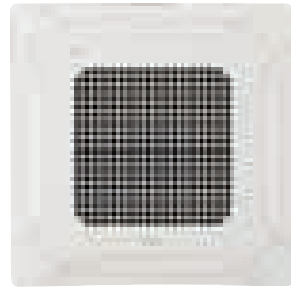
# MECHANICAL ACCESSORIES

## Cassette Panel

### Key Features

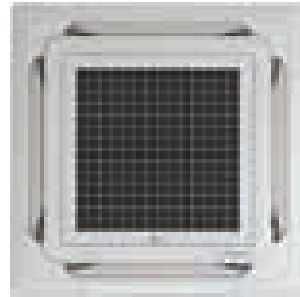
Stylish designed panels make more unique space by various applications.

4 Way Cassette Panel (570 x 570)

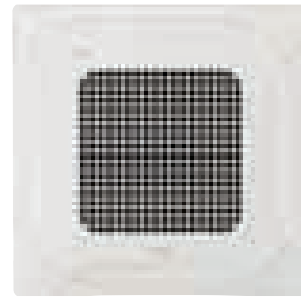


PT-QAGW0

4 Way Cassette Panel (840 x 840)

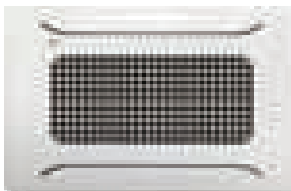


PT-UMC2



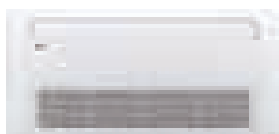
PT-MCGW0  
(For Human Detection)  
PT-MPGW0  
(For Human Detection,  
For Air Purification)

2 Way Cassette Panel

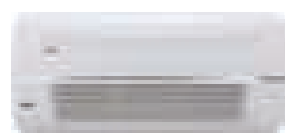


PT-USC

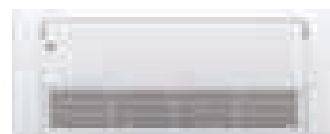
1 Way Cassette Panel (860 x 450)



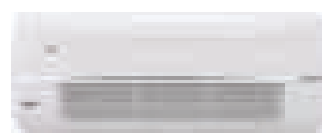
PT-UAHW0



PT-UPHG0  
(Glossy, For Air Purification)



PT-TAHW0



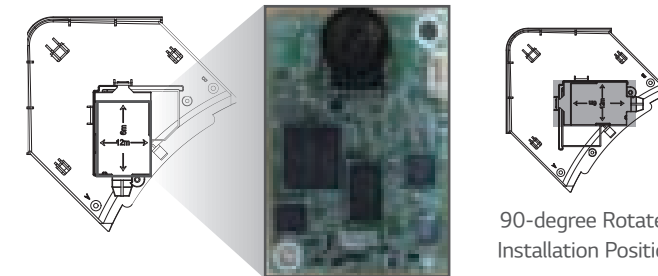
PT-TPHG0  
(Glossy, For Air Purification)

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

## Human Detection Kit

### Key Features

Human Detection Kit ensures energy saving and controls wind direction.



90-degree Rotated  
Installation Position

- Human Detection Control provides two functions. 'Saving Operation' for energy savings and 'Wind Direction Operation' for comfort.
- Detection Range : ~ height 4.2m
  - Installation Height 2.7m → Detection area 12m x 6m
  - Installation Height 3.2m → Detection area 15m x 8m
  - Installation Height 4.2m → Detection area 18m x 9m

### Model Name

PTVSMAO

### Applied Products

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

## Air Purification Kit

### Key Features

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



PTAHMPO

PTAHTPO

PTAHYPO

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



PREMTB100

### Model Name

PTAHMPO (For 4 Way Cassette, 840 x 840)  
PTAHTPO (For 1 Way Cassette)  
PTAHYPO (For Round CST)

### Applied Products

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

### Air Purification Kit Maintenance

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



# MECHANICAL ACCESSORIES

## Refrigerant Leakage Detector

### Key Features

R410A refrigerant leakage detector makes our space safer.



- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously)
- Alarm is "ON" over 6,000ppm has been maintained 5 seconds, and Alarm is "OFF" under 6,000ppm has been maintained 5 seconds.
- When the alarm of the refrigerant leak detector is switched on the user must ventilate the room until the alarm is disabled.
- The detector has to be installed inside the room and it should be installed 300 ~ 500mm above the floor.

### Model Name

PRLDNVSO

### Applied Products

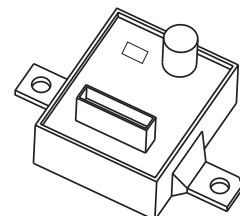
MULTI V 5  
MULTI V IV  
MULTI V WATER IV  
MULTI V WATER 5

### Specification

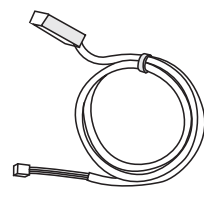
Parts	Specifications	
Sensor	Rated voltage (V)	DC 5.0 ±5%
	Dimensions (W x H x D, mm)	31 x 44 x 20
	Weight (g)	22
	Detectable refrigerant	R410A
	Detected concentration (ppm)	0 / 6,000 Alarm Off / On
	Operating temperature range (°C)	-10 ~ 50
	Preserved temperature range (°C)	-40 ~ 60
Connecting Cable	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 backplate (W x H x D, mm)	80 x 110 x 6.5

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

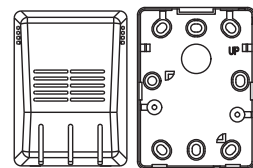
### Included Parts



Sensor



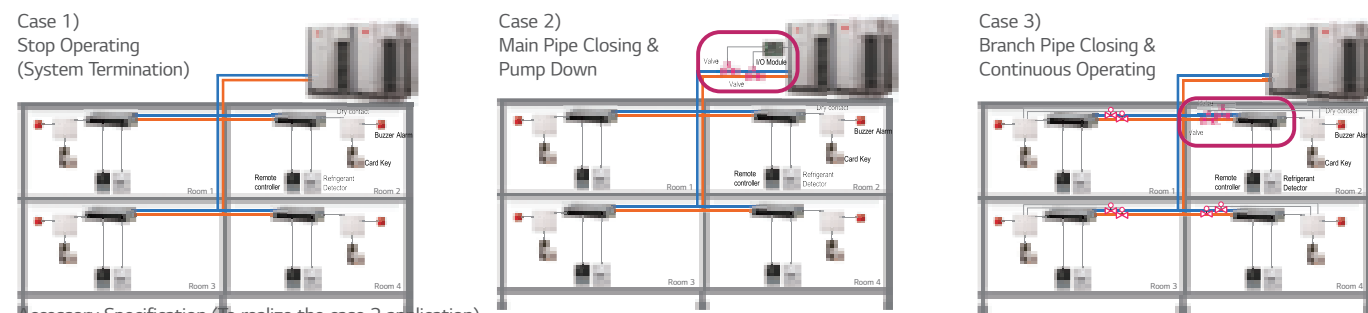
Connecting Cable



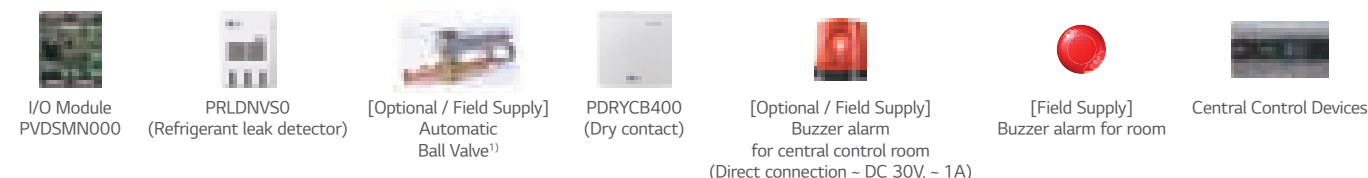
Sensor Protective Cover

### Key Application

Refrigerant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)



## IR Receiver

### Key Features

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



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

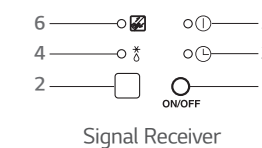
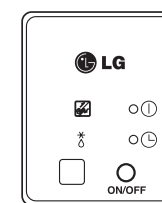
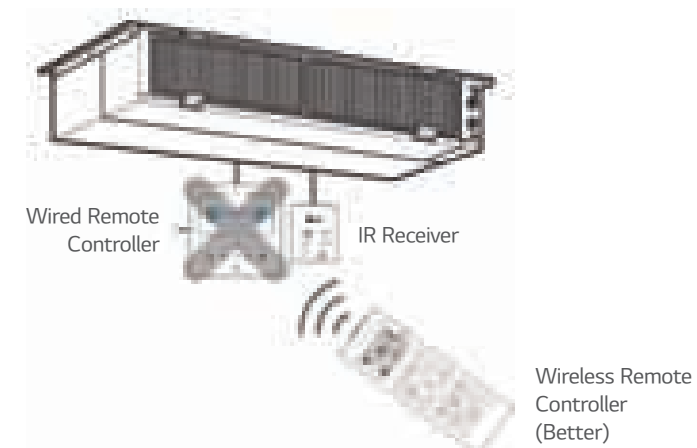
### Model Name

PWLRVN000

### Applied Products

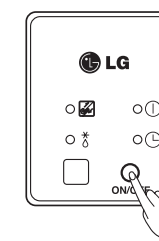
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing)

### Key Application



### Operation of Indication Lamps

- ① Emergency Operation button : Turns the indoor unit on or off when remote controller is not working.
- ② Signal Detector : Receives the signal from remote controller.
- ③ Timer lamp (Green) : Lights up during the timer operation.
- ④ Hotstart lamp (Orange) : Lights up during the pre-heating operation, defrost operation as well as latent heat removal operation in heat mode. Available only for the heat pump models, not cooling only models.
- ⑤ System On / Off lamp (Red) : Lights up during system controller operation.
- ⑥ Filter Sign lamp (Green) : Lights up after 2,400 hours from the time of first power on operation.



### Test Run Mode

After installing the product, you must run a test run mode. Press the emergency operation button for 5 seconds, until the LED flickers. Then the indoor unit, duct runs cooling mode for 18 minutes, where the setting temperature is 18°C and the fan speed is high.

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

# MECHANICAL ACCESSORIES

## Multi-tenant Power Module

System operation is stable when indoor unit power is lost.

### Key Features

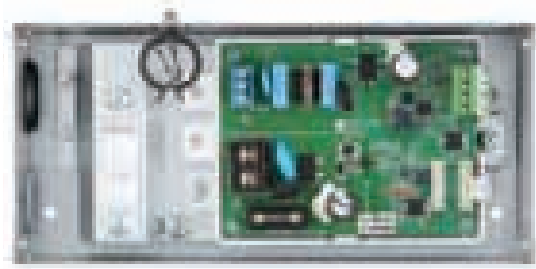
- Multi-tenant site IDUs are powered separately, some of IDU power is gone by each tenant. In this case, system operation is not stable without Multi-tenant Power Module.
- This module power each EEV for stabilizing system operation.

### Model Name

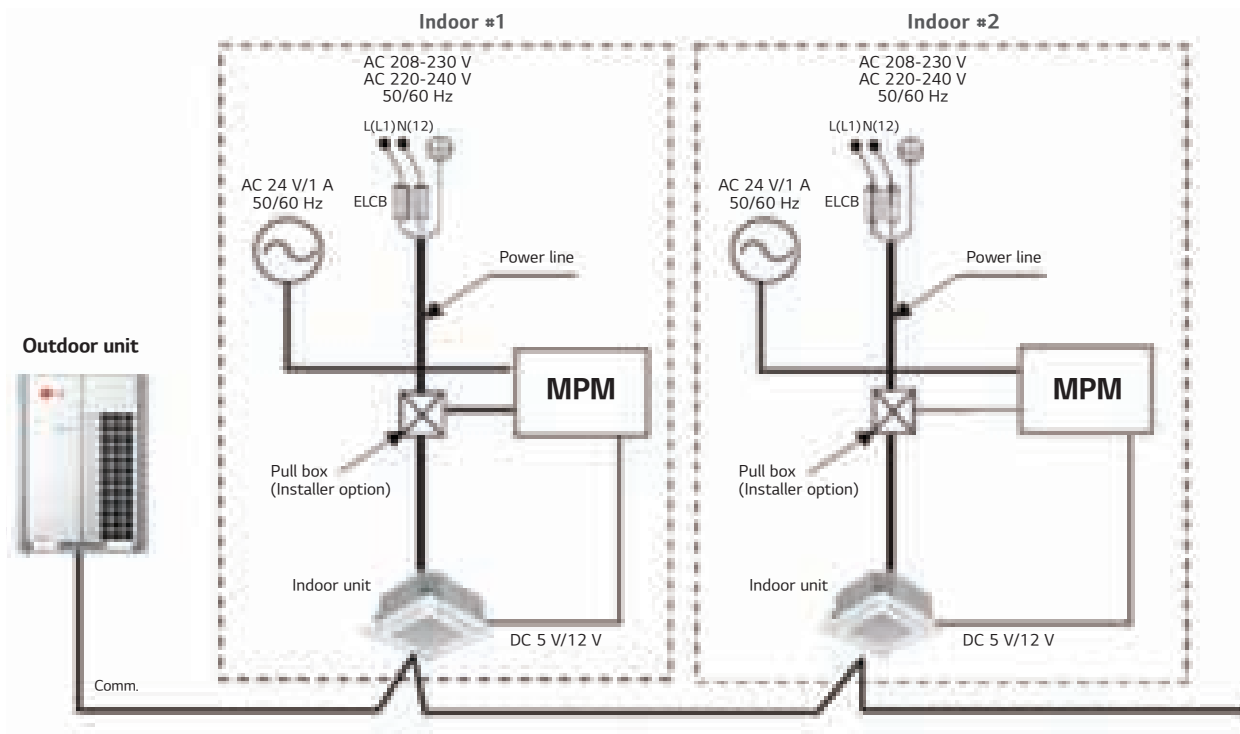
PINPMB001

### Applied Products

MULTI V Indoor Units



## Installation Scene



※ When Multi-tenant Power Module is adopted, CN-EXT must used for it. Instead of being used CN-EXT, PDRYCB000 (220Vac input) / PDRYCB100 (24Vac Input) Module are being used for Single contact.

# PIPING ACCESSORIES

## Y Branch and Header Branch

### Key Features

For refrigerant distribution of indoor units.



### Model Name

Refer to specifications

### Applied Products

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

- 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.

## Specification

### Header Branch

#### R410A

(Unit : mm)

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

# PIPING ACCESSORIES

## Y Branch and Header Branch

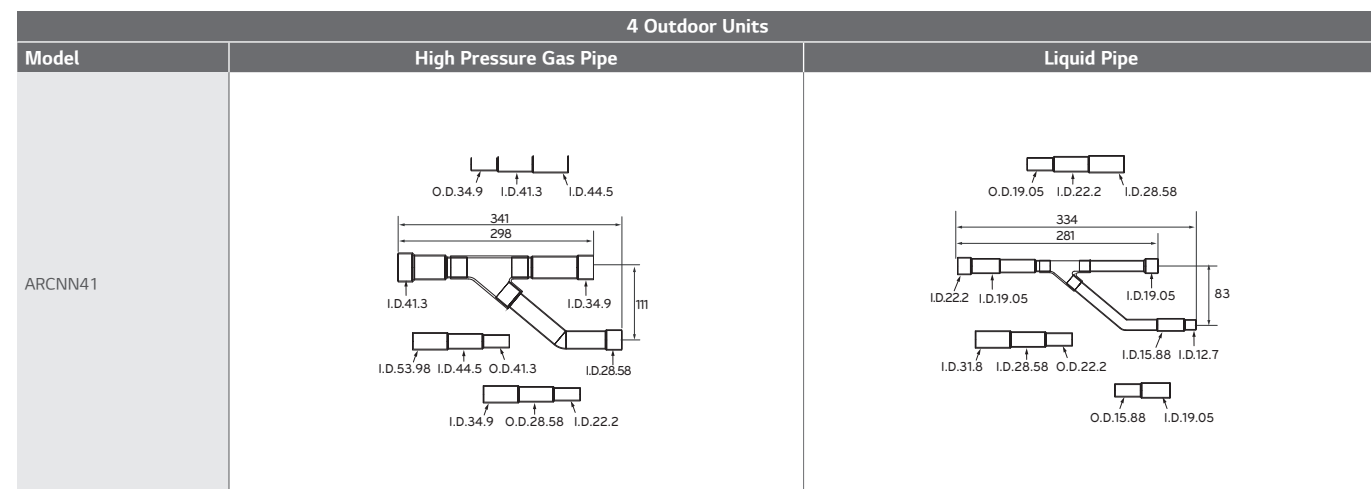
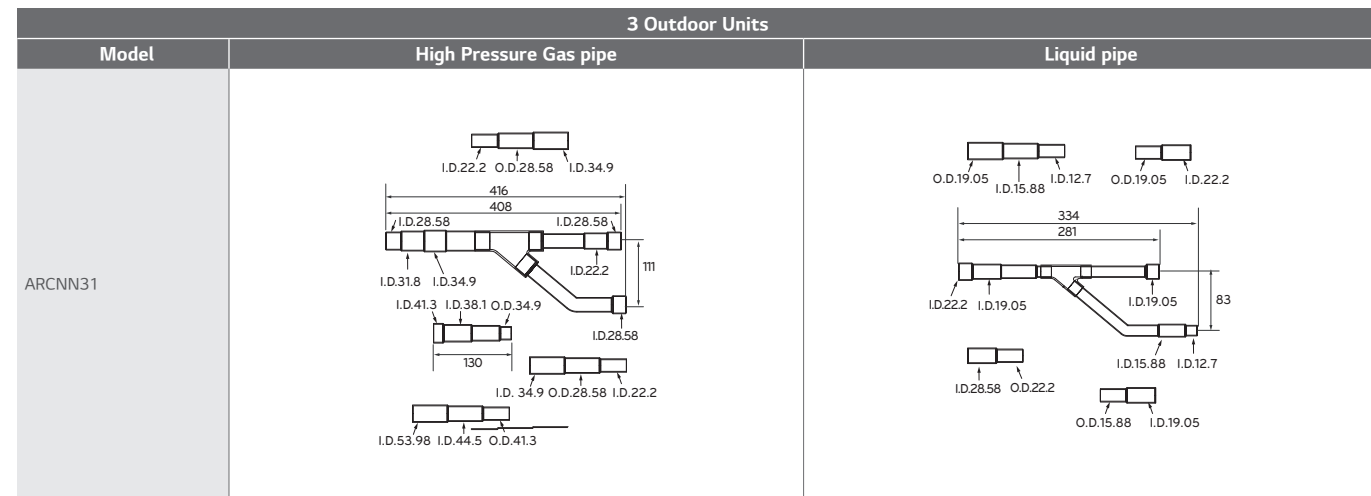
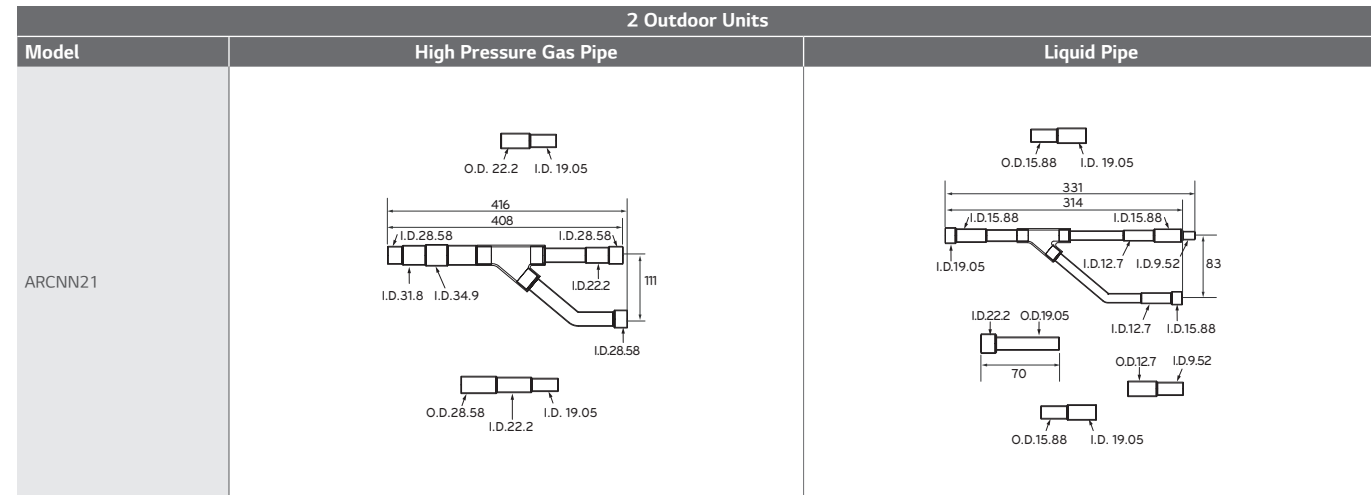
### Specification

Y Branch

**R410A**

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

(Unit : mm)



## Y Branch and Header Branch

### Specification

Y Branch

**R410A**

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

(Unit : mm)

