

2024 | **MULTI V™**

2024  
**MULTI V™**  
LG AIR SOLUTION



**LG Electronics**

<http://www.lg.com>  
<http://partner.lge.com>

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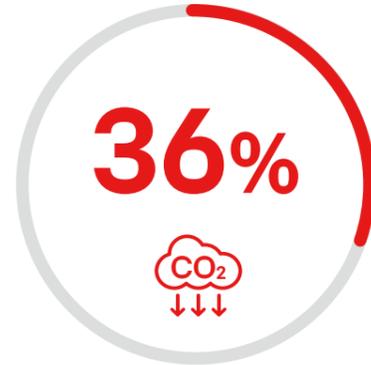
## AHU SOLUTION

# THE EU BUILDING SECTOR

Buildings account for 40% of the total carbon emissions in Europe. The building stock that dates back to the 90s is three times less energy efficient than the new construction built today.



OF EU ENERGY IS USED BY THE BUILDING SECTOR, MAKING IT THE SINGLE LARGEST ENERGY CONSUMER IN EUROPE



OF GREENHOUSE GAS EMISSIONS COMES FROM BUILDINGS

## LG: OUR MISSION

- ① Create low-consuming or self-consuming innovations
- ② Build awareness and help people use energy more conservatively
- ③ Reimagine a building's usability, connectivity, convenience & health

\* Source: The European Commission website. [https://commission.europa.eu/news/focus-energy-efficiency-buildings-2020-02-17\\_en](https://commission.europa.eu/news/focus-energy-efficiency-buildings-2020-02-17_en)

## RE-DESIGN

### IMPROVE CIRCULARITY OF RAW MATERIALS

We minimize environmental impact with our eco-conscious air conditioning solutions. By reducing reliance on finite resources such as plastic, aluminum, and copper, LG's innovative approach embraces a circular economy supply chain. This not only lessens carbon emissions during pre-manufacturing but also ensures resource efficiency, particularly for energy-hungry materials. Discover the sustainability of LG air conditioners, where recycled materials play a pivotal role. We conduct thorough stability and quality tests to guarantee optimal performance, leading the way toward a more sustainable and efficient future.



### RECYCLING OLD APPLIANCES

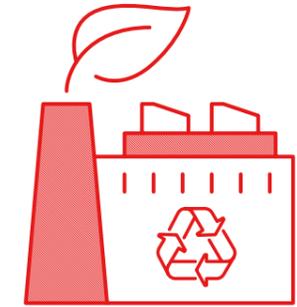
Many reusable resources are left in discarded products. Founded in 2001 through investment from LG, the Chilseo Recycling Center acts as a virtuous cycle of resources, from product design, use, and recovery, to disposal. Engineers collect old appliances from LG and other brands, then carefully take them apart. More than 40 kinds of renewable raw materials, including separated plastic, iron, and non-ferrous metals, are reborn into new LG products.



## RE-PROGRAM

### ACHIEVE 95% WASTE RECYCLING AT PRODUCTION SITES BY 2030

At LGE, we continuously invest in environmental facilities and improve our waste treatment processes with a view to being able to recycle 95% of waste generated at production sites around the world by 2030.



## INNOVATE

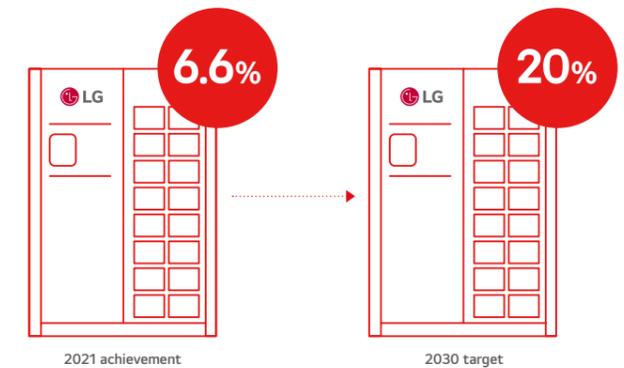
### REDUCE RELIANCE ON HIGH GWP REFRIGERANT GASES

While they are not the biggest contributors, refrigerant gasses do contribute to global warming. LG was the first manufacturer to launch an R32 monobloc air-to-water heat pump in 2018 and have also converted our full single split lineup to R32 with 3 years lead time on the EU-driven planned ban in 2025. Also, LG is likely to put in place collection and recovery streams of refrigerant gases from end-of-life equipment at no extra cost for its customers.

### CONSTANT PRODUCT EFFICIENCY IMPROVEMENTS

Electrically-driven heating and cooling equipment is LG's signature. What's more, we always aim for the highest energy ratings with each generation of our products.

Reduce the carbon emissions of our 7 major products (baseline year 2020)



### FIRST HOME APPLIANCES LIGHTHOUSE FACTORY

In March 2022, Changwon LG Smart Park was named the first 'lighthouse factory' by the World Economic Forum (WEF). The WEF "Lighthouse" facilities implement Fourth Industrial Revolution technologies, such as the Internet of Things, big data, artificial intelligence and robots into manufacturing and supply chain operations to deliver a wide range of benefits, from increased production efficiency to enhanced environmental sustainability. LG plans to apply the innovative, smart production technologies pioneered at LG Smart Park to a total of 26 LG production facilities in 13 countries, accelerating the digital transformation of its global manufacturing network by 2025.

## CERTIFICATIONS

### LG Electronics is listed in the:

- DJSI World for 9 consecutive years
- 2020 Global Sustainability Leadership top 100, announced by Privileged United Nations Sustainability Development Goals (UNSDGs)
- 6<sup>th</sup> place in the top 100 World Sustainable Management Companies by Wall Street Journal
- ECOVADIS Platinum certified in 2021 & 2023



# EU MARKET TRENDS

More efficient HVAC systems are required to significantly reduce energy consumption and to meet energy regulations.

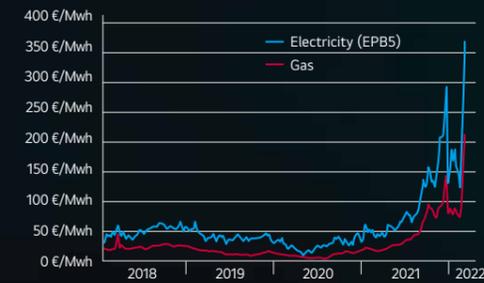


## Soaring Energy Prices in Europe

- Climate change increases the need for more efficient mechanical HVAC systems and energy usage
- Electricity and gas prices are constantly rising for a number of reasons, such as growing energy demand, taxes, oil prices, wars, etc

### Electricity & Gas price

Wholesale Prices EU27



Source : brusselstimes



## Efficiency

- Global warming in Europe is faster than the rest of world according to the IPCC
- AI, big data, 5G, and cloud technologies can improve the human lifestyle
- For a comfortable environment, humidity has to be considered



Increase of average yearly temperature in selected cities in Europe (1900–2017)



## Environment

- The EU reinforces its efforts to stimulate energy efficiency as part of its 2050 decarbonization objectives
- HVAC accounts for more than 50% of a building's energy consumption

### Low-carbon Strategy (Targets compared to 1990)

- Cutting emissions by at least 55% by 2030.
- EU targets a minimum reduction of 80% in carbon emissions by 2050.

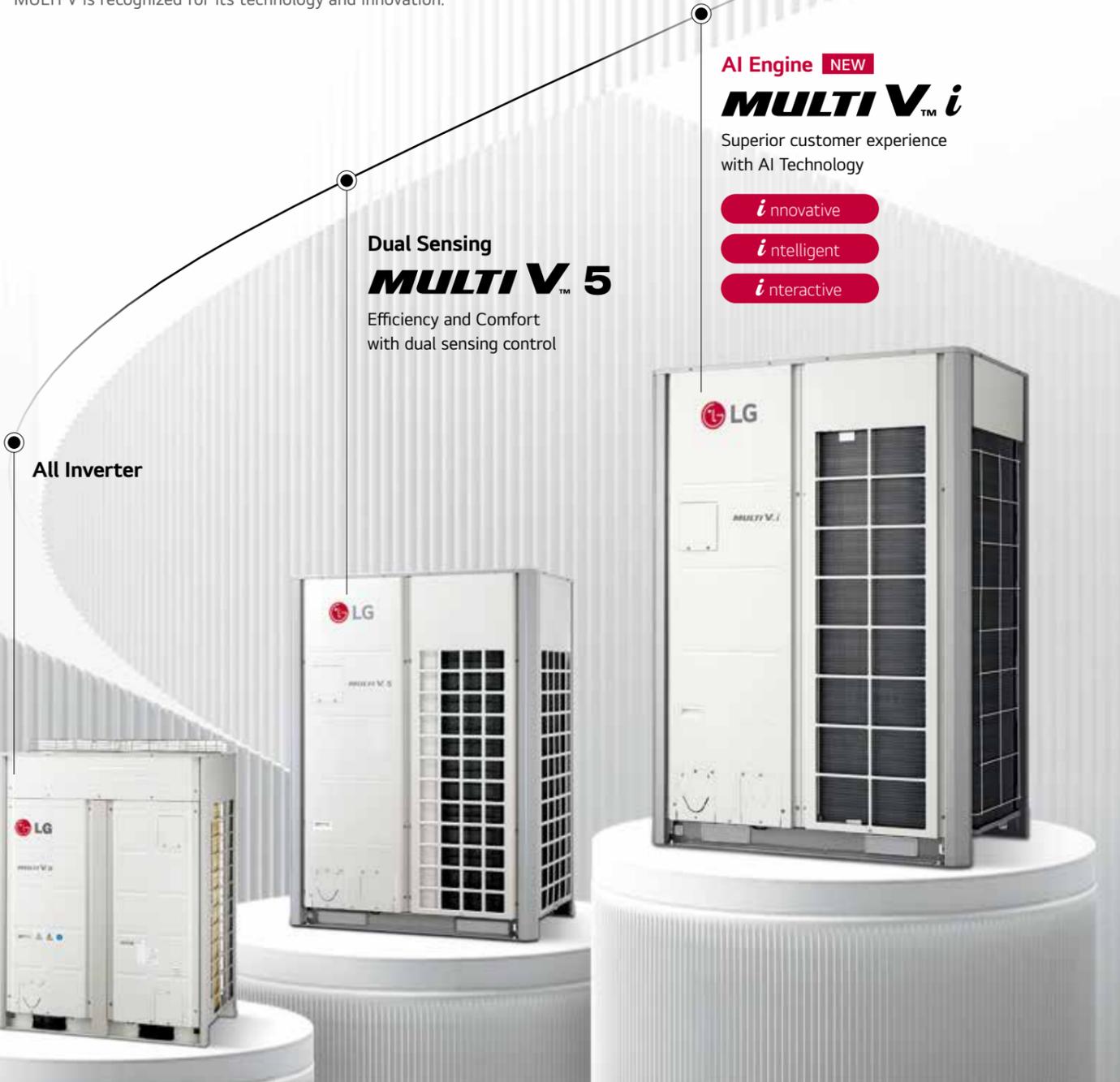
Category	2005	2030	2050
Power (CO <sub>2</sub> )	-7%	-54% - -68%	-93% - -99%
Industry (CO <sub>2</sub> )	-20%	-34% - -40%	-83% - -87%
Transport (incl. CO <sub>2</sub> , aviation, excl. maritime)	+30%	+20% - -9%	-54% - -67%
Residential & Services (CO <sub>2</sub> )	-12%	-37% - -53%	-88% - -91%
Agriculture (other than CO <sub>2</sub> )	-20%	-36% - -37%	-42% - -49%
<b>Total</b>	<b>-7%</b>	<b>-40% - -44%</b>	<b>-79% - -82%</b>

\* Source : European Commission



# MULTI V BRAND HISTORY

MULTI V is recognized for its technology and innovation.



## AI Engine <sup>NEW</sup> MULTI V <sup>TM</sup> i

Superior customer experience with AI Technology

- i*nnovative
- i*ntelligent
- i*nteractive

## Dual Sensing MULTI V <sup>TM</sup> 5

Efficiency and Comfort with dual sensing control

All Inverter

### HISTORY OF MULTI V LEADERSHIP

#### 2013 MULTI V <sup>TM</sup> IV

- Active Refrigerant Control
- Variable Heat Exchanger Circuit
- Smart Load Control
- Smart Oil Return
- Vapor Injection (Advanced)

#### 2017 MULTI V <sup>TM</sup> 5

- Dual Sensing Control
- Ultimate Inverter Compressor
- Large Capacity ODU with Biomimetic Technology Fan
- Continuous Heating
- Ocean Black Fin

#### 2023 MULTI V <sup>TM</sup> i

- Energy Saving with AI Engine
- Adaptive Noise Control
- Smart Diagnosis Reporting
- Remote Upgrade System
- Weather Information Interlocking Control

# INFRASTRUCTURE IN EUROPE



## LG Air Conditioning Academy

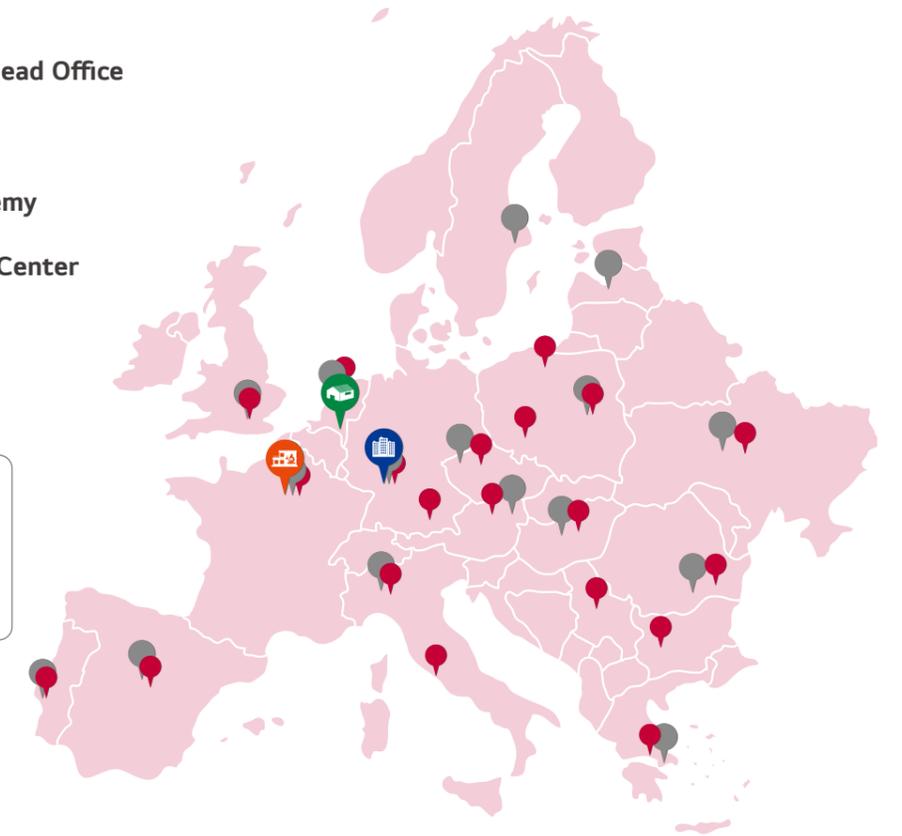
LG has set up 20 official air conditioning academies in Europe, teaching much needed skills to thousands of current industry professionals including installers, consultants, designers, sales staff and service technicians. The academy program is being used to share expertise and educate these HVAC experts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



## European Air Conditioning Distribution Center

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

- Europe B2B Regional Head Office
- National Sales Office
- Air Conditioning Academy
- European Distribution Center
- Europe Energy Lab
- Production Site

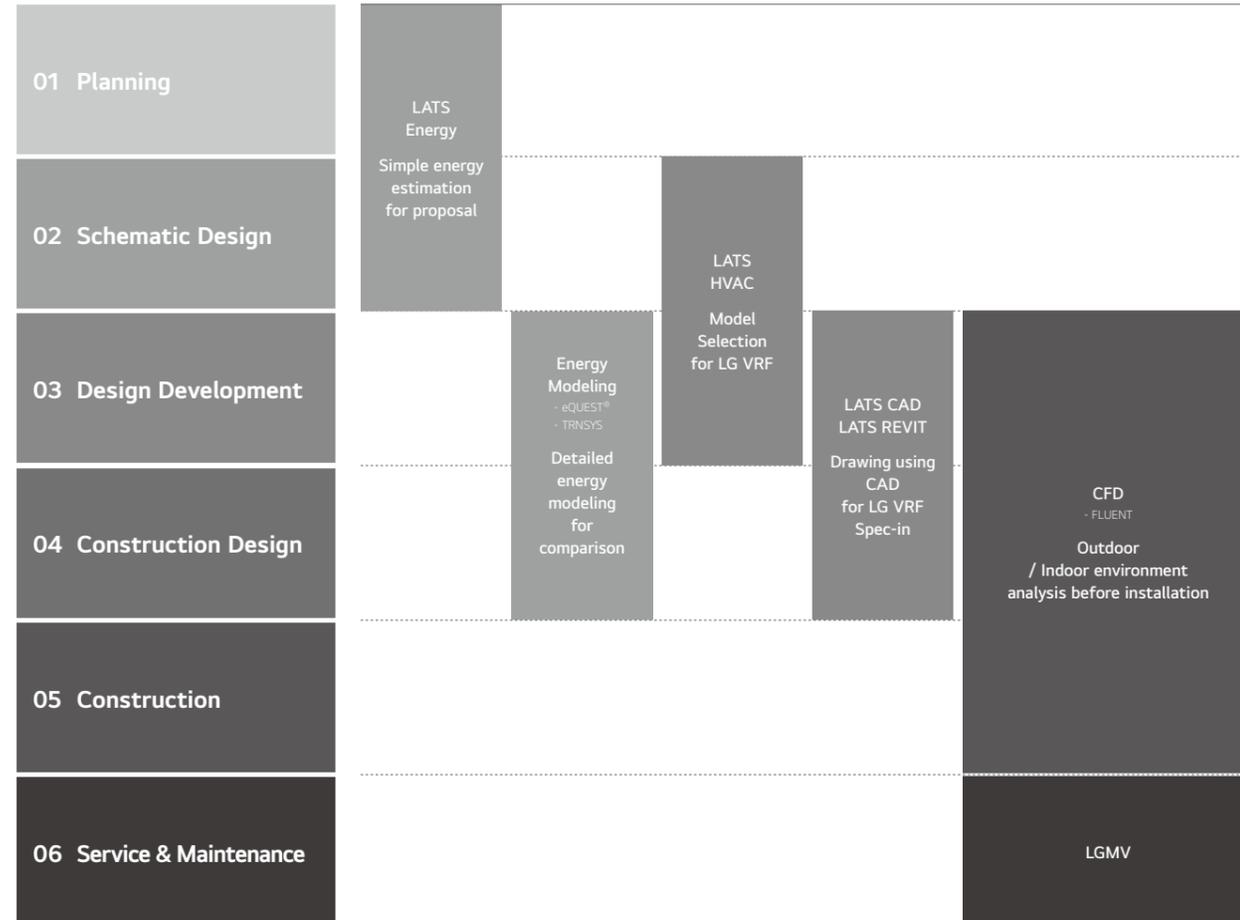
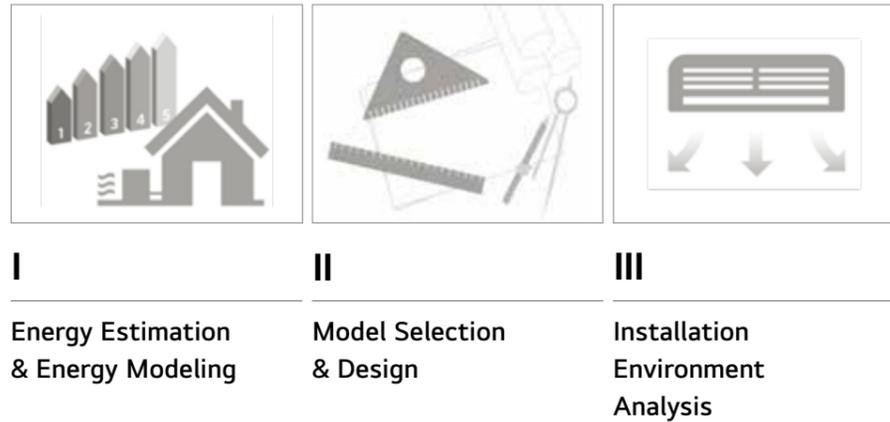


# ENGINEERING TOOLS & SUPPORT

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. Among them, the LATS\* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers with a solution that allows for faster, easier and more accurate model selection, draft energy estimations and more.

\* LATS : LG Air-conditioner Technical Solution



## 01 Draft Energy Estimation

### LATS Energy

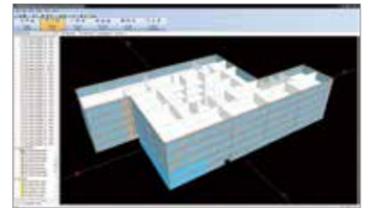
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems at the early stages of a project.



## 02 Building Energy Modeling

### eQuest, EnergyPro, Trace700 and More

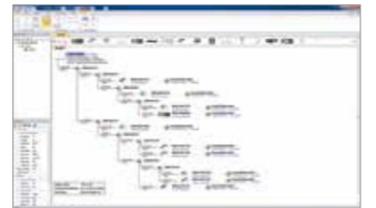
These are certified commercial programs which assess a HVAC system's efficiency and a building's annual energy savings for building standards or certifications, like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design where the overall design is finished.



## 03 Model Selection

### LATS HVAC

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



## 04 Design

### LATS CAD

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

\* AutoCAD program is required.



### LATS REVIT

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

\* AutoCAD Revit program is required.

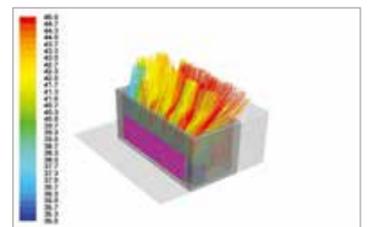


## 05 Environment Simulation

### CFD Analysis

CFD Analysis is applied to estimate indoor airflow, temperature distribution, outdoor airflow distribution and noise level while operating VRF products.

By running a simulation before construction, engineers estimate potential issues and find optimal solutions for malfunctions that could occur after construction.



## 06 Service & Maintenance

### LGMV

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



# BENEFITS OF LG MULTI V

## Benefits for Building Owners



### Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance with 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 during unexpected extreme environments



### Reliability at Every Stage

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



### Customized Comfort and Solution

- Preset monthly energy usage and consume power according to the target that has been previously set



## Benefits for Developers & Construction Companies



### Green Solutions

- Hydro kit provides environmentally friendly systems with higher energy efficiency and less carbon emissions.



### Maximizing Space Utilization

- Large capacity in a compact size enhances space utilization



### Smart Building Solutions

- Seamless integration with current Building Management Systems
- User friendly interface, flexible interlocking environment, energy management and smart individual controller for the optimized controlling conditions and smart building management
- Expandable control system can makes building management smart by setting up logic optimized for the site



## Benefits for Consultants



### Versatile Solutions

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



### Professional Design Support

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



### Optimized Convenience with HVAC Design

- Flexible combination provides more options for designing according to customers' preferences
- The outdoor unit noise can be restricted by the set noise level in advance



## Benefits for End-users



### Cost Saving Operation

- High efficiency guaranteed throughout product line-up
- Overuse of the HVAC system operational costs is prevented with AI Energy management



### Comfort Cooling & Heating

- MULTI V *i* is able to take control by itself in various situations through deep learning algorithms that enable it to self-learn
- Automatic operation provides more comfort and convenience by checking ambient weather conditions



### Convenient Functions

- Low-noise operation provides a pleasant environment



# APPLICATION SOLUTIONS

## Office

Supporting efficiency with flexibility

### High Rise Office Building



- MULTI V WATER 5 (with variable water flow control kit)
- DX AHU
- PDI\*\*
- High Static Duct
- ACP 5

### Small to Medium sized Office Building



- MULTI V i / S
- Dual Vane 4 Way CST\* / 4 Way CST\*
- ERV

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

## Commercial

Maximizing business, minimizing cost

### Shopping Mall



- MULTI V i
- DX AHU
- Duct

### Retail



- MULTI V i / MULTI V M
- Convertible
- ERV
- Duct

### Quick Service Restaurant (QSR)



- MULTI V M
- ERV
- Hydro Kit
- 4 Way CST\* / Duct

The highly efficient, energy saving MULTI V i and MULTI V M reduce operation costs and provide comfort to suit any purpose and any interior, helping your business save extra space and reduce expenses.

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

## Residential

Creating a comfortable home

### Condominium & Apartments



- MULTI V S
- Hydro Kit
- 1/2 Way CST
- ACS 5
- Duct

### Single Family House & Villa



- MULTI V S
- THERMA V
- ESS\*

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

## Hospitality

Meeting diverse needs



- MULTI V i
- DX AHU
- Hydro Kit
- Low Static Duct
- Simple Remote Controller
- Refrigerant Leak Detector

The variety of applications that MULTI V i offers represents a perfect opportunity for a sophisticated hotel business.

\* ESS : Energy Storage System

## Hot Water Solution

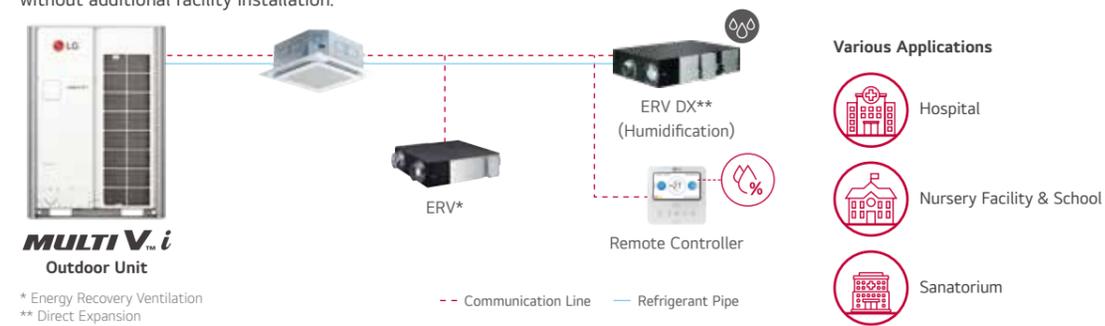
MULTI V *i* with Hydro kit provides floor heating and hot water supply as well as space heating & cooling. It is a more environmentally friendly system with higher energy efficiency and lower carbon emissions.



\* MT = Medium temp. 50°C LWT  
 \*\* HT = High temp. 80°C LWT

## Interlocking Operation with ERV

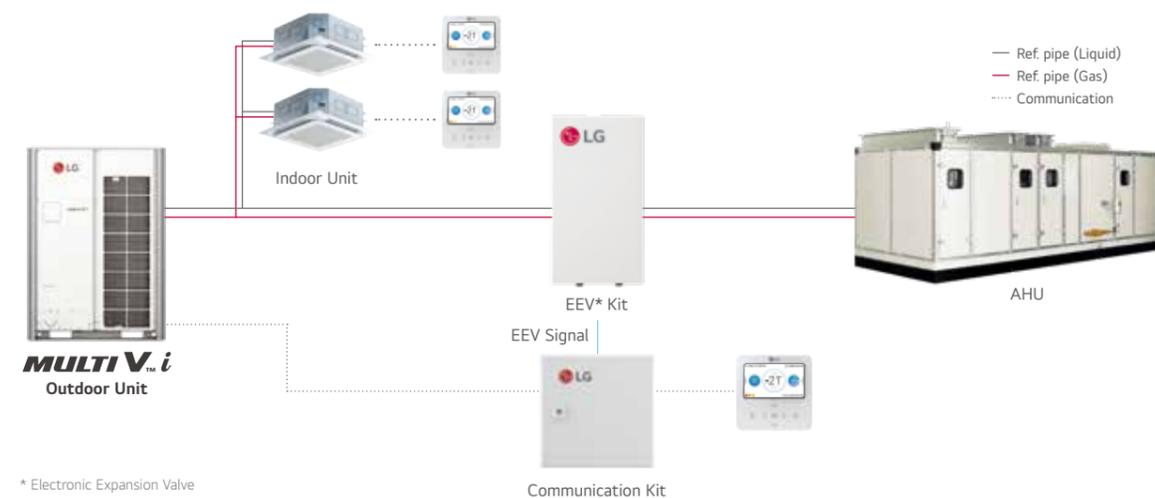
LG ERV DX with humidification function interlock operation is a solution for humidifying and ventilating the indoor space while communicating with other IDUs and the ODU. They provide improved comfort condition, while taking into account the indoor conditions without additional facility installation.



\* Energy Recovery Ventilation  
 \*\* Direct Expansion

## Air Handling Unit (AHU) Solution

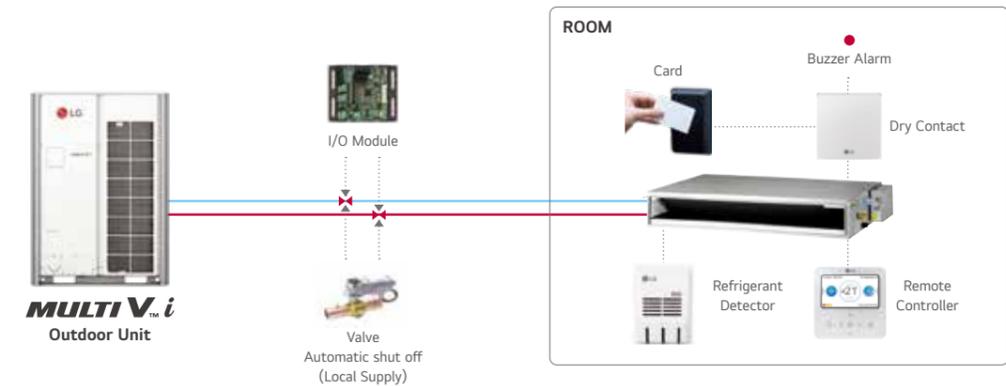
AHU is a suitable solution for cooling and heating in large spaces. With an LG AHU Comm. Kit (for both return air / supply air control) connected to the DX coil of the AHU, LG VRF system can be applied to deliver conditioned air.



\* Electronic Expansion Valve

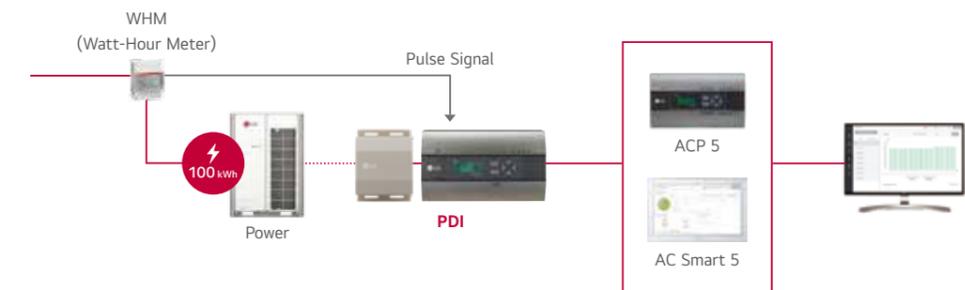
## Refrigerant Leak Detection Solution

LG leakage detector keep the indoor space safe and guarantees the customer's peace of mind.



## Power Consumption Distribution Solution

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



## Total Control via Any Device

When managing multiple spaces, building administrators should be able to control systems from wherever they are. The LG central controller can be accessed from any web browser that supports HTML5. The interface has been adapted to look great and perform well on any device.



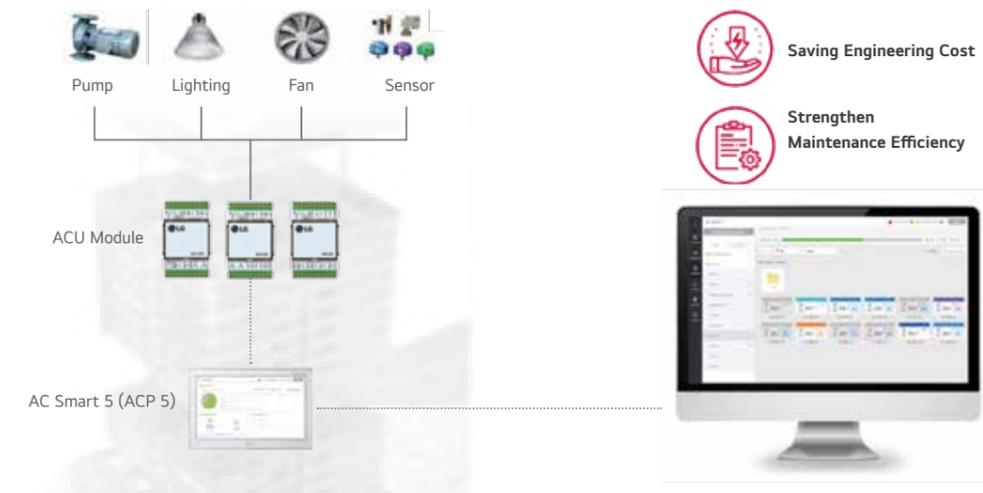
## Energy Management Solution

Energy navigation function allows LG MULTI V i to preset monthly energy usage and consume what has been previously planned. By comparing and analyzing previous consumption and planned energy usage for the month, overuse of the HVAC system operational costs can be prevented with central controller.



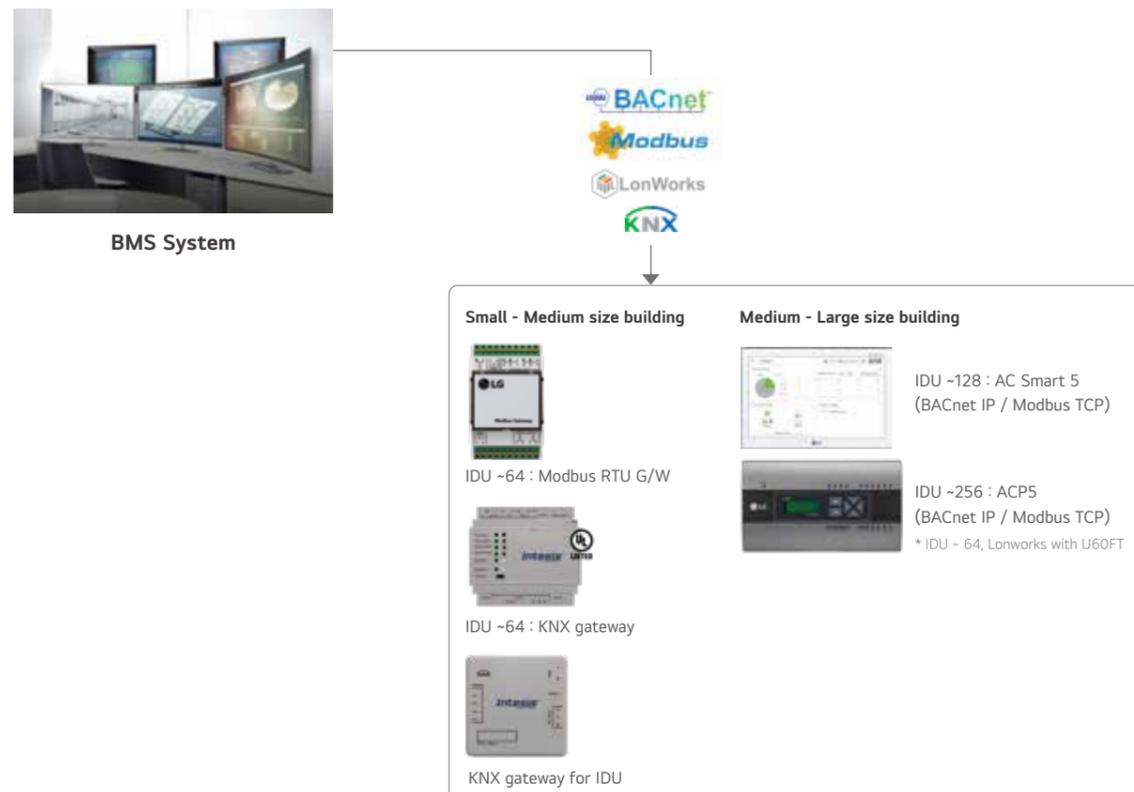
## Interlocking Solution by Using ACU Module

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



## 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

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 controller has a DO port. With this DO port, it is possible to interlock the indoor unit with 3<sup>rd</sup> party devices such as lighting, a fan, or a radiator, based on parameters like operation mode or current temperature. The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor ect., so that the air conditioner is automatically operated. In addition, the dry contact option settings enable the operation of the 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.





**MULTI V<sup>TM</sup> i**

<p><b>8 - 12 HP</b> R32 <b>8 - 12 HP</b> 380V, 3Ø</p> 	<p><b>14 - 20 HP</b> R32 <b>14 - 20 HP</b> 380V, 3Ø</p> 	<p><b>22 - 26 HP</b> R32 <b>22 - 26 HP</b> 380V, 3Ø</p> 
<p><b>28 - 48 HP</b> R32 <b>28 HP</b> 380V, 3Ø</p> 		
<p><b>50 - 68 HP</b> 380V, 3Ø</p> 		
<p><b>70 - 96 HP</b> 380V, 3Ø</p> 		

**MULTI V<sup>TM</sup> M**

**5 HP**  
220V, 1Ø  
380V, 3Ø




**MULTI V<sup>TM</sup> s**

<p><b>4 HP</b> 220V, 1Ø</p> 	<p><b>5 - 6 HP</b> 220V, 1Ø <b>4 - 8 HP</b> 380V, 3Ø</p> 	<p><b>10 - 12 HP</b> 380V, 3Ø</p> 
<p><b>6 HP</b> 220V, 1Ø</p> <p><b>Heat Recovery</b></p> 	<p><b>3 - 6 HP</b> 220V, 1Ø 380V, 3Ø</p> <p>R32</p> 	

**MULTI V<sup>TM</sup> WATER 5**

<p><b>8 - 20 HP</b> 380V, 3Ø</p> 	<p><b>22 - 40 HP</b> 380V, 3Ø</p> 
<p><b>42 - 60 HP</b> 380V, 3Ø</p> 	



kW		1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0															
		5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k	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
4 <sup>th</sup> generation Wall Mounted	Artcool Gallery 		●	●	●													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Artcool Mirror 	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Standard 	●	●	●	●	●	●	●	●		●	●						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4 <sup>th</sup> generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570) 	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	4 Way Cassette (840 x 840) 								●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	4 Way Cassette High Sensible (840 x 840) 	●	●	●	●	●	●	●	●	●		●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Round Ceiling Cassette 								●			●		●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	2 Way Cassette 			●	●		●		●									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1 Way Cassette 		●	●	●		●		●									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4 <sup>th</sup> generation Ceiling Concealed Duct	Mid / High Statics 		●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Low Static (Slim) 	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	High Sensible 		●	●	●	●	●	●	●	●		●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4 <sup>th</sup> generation Fresh Air Intake 															●	●		●	●	●	●	●	●	●	●	●	●	●	●	●		
4 <sup>th</sup> generation Ceiling & Floor Convertible 			●	●														●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4 <sup>th</sup> generation Ceiling Suspended 						●		●			●		●					●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4 <sup>th</sup> generation Console 		●	●	●	●													●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4 <sup>th</sup> generation Floor Standing	Floor Standing with Case 		●	●	●	●	●	●										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Floor Standing without Case 		●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Floor Standing (PAC) 														●		●		●			●	●	●	●	●	●	●	●	●	●		
4 <sup>th</sup> generation HYDRO KIT	Wall-Mounted 						●		●		●							●			●	●	●	●	●	●	●	●	●	●		
	IWT 						●		●		●							●			●	●	●	●	●	●	●	●	●	●		
	Low Temperature 												●				●		●			●	●	●	●	●	●	●	●	●		
	High Temperature 												●			●			●			●	●	●	●	●	●	●	●	●		
4 <sup>th</sup> generation Energy Recovery Ventilator with DX Coil	with Humidifier 				●			●		●											●	●	●		●	●	●	●	●	●		
	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"

Individual Control		Centralized Control				
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway	
Standard	Simple					
<b>Deluxe</b>  PREMTA201		 PWLSSB21H (Heat Pump) PWLSSB21C (Cooling Only)	<b>AC Ez</b>  PQCSZ250S0 (Indoor Unit ~ 32)	<b>ACP 5</b>  PACP5A000 (Indoor Unit ~ 256) BACnet IP / Modbus TCP * ~64, Lonworks with U60FT	<b>Modbus RTU gateway</b>  PMBUS00A (Indoor Unit ~ 16 with single module, Indoor Unit ~ 64 with 4 modules)	
<b>Premium</b>  PREMTA000 PREMTA000A PREMTA000B			<b>Wi-Fi Modem</b>  For Indoor Unit PWFMD200	<b>AC Ez Touch</b>  PACEZA000 (Indoor Unit ~ 64)	<b>AC Manager 5</b>  PACM5A000 (Indoor Unit ~ 8,192)	<b>KNX gateway</b>  INKNXLGE0160036 (Indoor Unit ~16) INKNXLGE0640036 (Indoor Unit ~64)
<b>Standard III (White)</b>  PREMTB101		 PQRCHCA0QW (Simple for Hotel)	<b>AC Smart 5</b>  PACS5A000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP			 INKNXLGE001R000 (For Indoor Unit)
<b>Standard III (Black)</b>  PREMTBB11			 PQRCHCA0Q (Simple for Hotel)	<b>PI485</b>  For ERV PHNFP14A0		
<b>Standard II (White)</b>  PREMTB001		 For ERV PSNFP14A0 (with case)				
<b>Standard II (Black)</b>  PREMTBB01		 For AWH-IP PP485A00T				
		 For SINGLE / MULTI PMNFP14A1				

Centralized Control	Integration Device			
Facility Integrator	Indoor Unit		Outdoor Unit	AHU Kit
	Dry Contact	Control Accessory		
<b>PDI (Power Distribution Indicator)</b>  Premium (8 ports) PQNUD1S40 Standard (2 ports) PPWRDB000	 Simple Dry Contact PDRYCB000	 PZCWRCG3	 IO Module (Input / Output Module) For MULTI V IV, 5, i PVDSMN000	 Communication Kit Return / Room Air Control PAHCMR000
<b>ACS IO Module (Input / Output Module)</b>  PEXPMB000	 Dry Contact for Thermostat PDRYCB320	 PQRSTA0	 Variable Water Flow Control Kit For MULTI V WATER 5 PWFCKN000	 Discharge / Supply Air Control PAHCMS000
<b>ACU IO Module UIO</b>  PEXPMB300	 2 Points Dry Contact (For Setback) PDRYCB400	 Zone Controller 4 Zones by thermostat ABZCA	 Low Ambient Kit For MULTI V IV, 5, i PRVC2	 Controller Module Main Module PAHMM000
<b>UO</b>  PEXPMB200	 For Modbus PDRYCB500 / PDRYCB510 (w/o case)	 Multi-tenant Power Module PINPMB001	 Cool / Heat Selector PRDSBM	 Communication Module PAHCMC000
<b>UI</b>  PEXPMB100	 Control Kit PAHCNM000 (Max. 3 Outdoor Units)			
<b>Water Communication Module</b>  PAHCMW000				
<b>EEV Kit (Electronic Expansion Valve)</b>  PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW)				
 PRLK396A0 (~ 112 kW)				
 PRLK594A0 (~ 168 kW)				

028 ~ 123

# OUTDOOR UNITS

MULTI V *i*

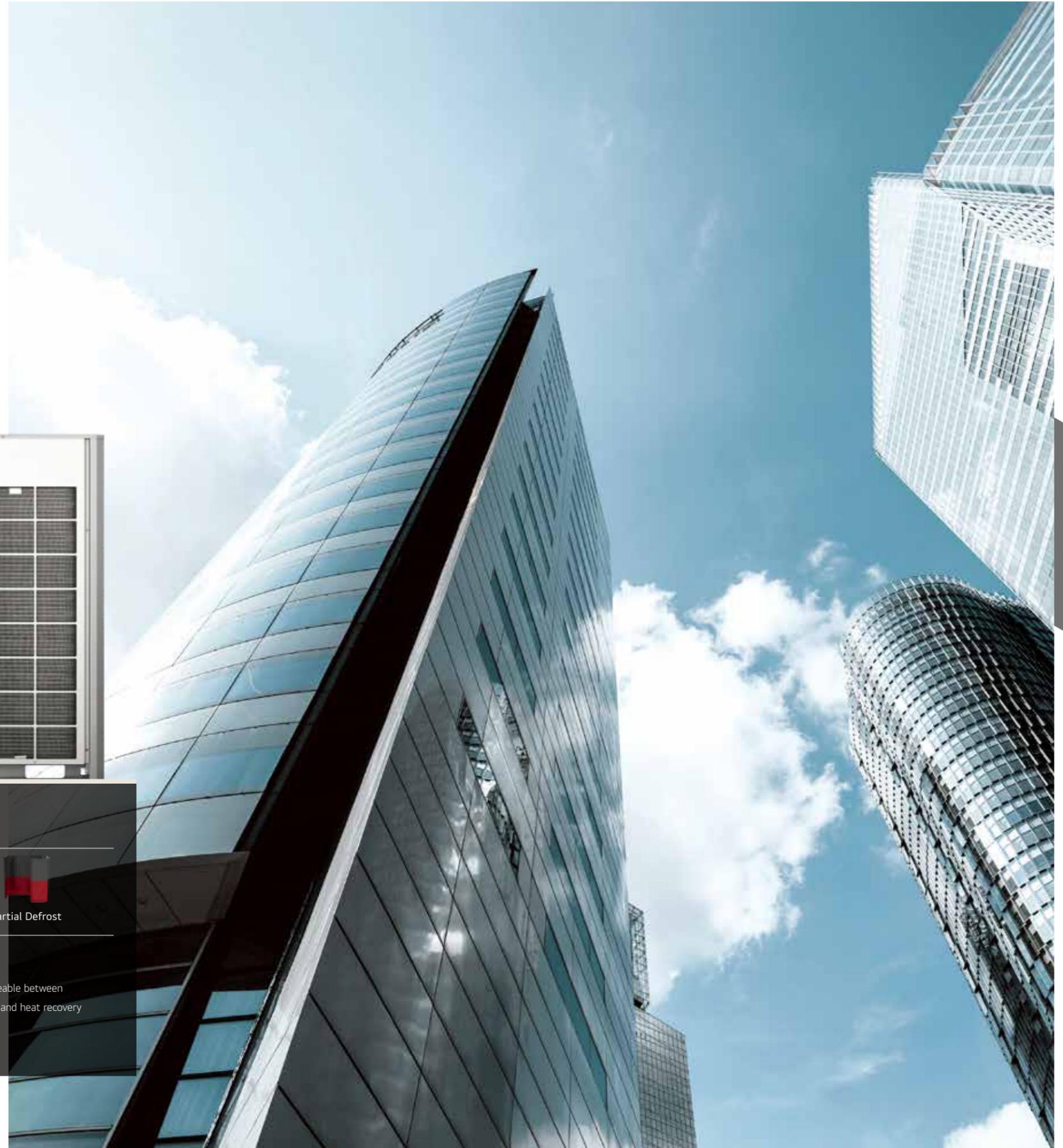
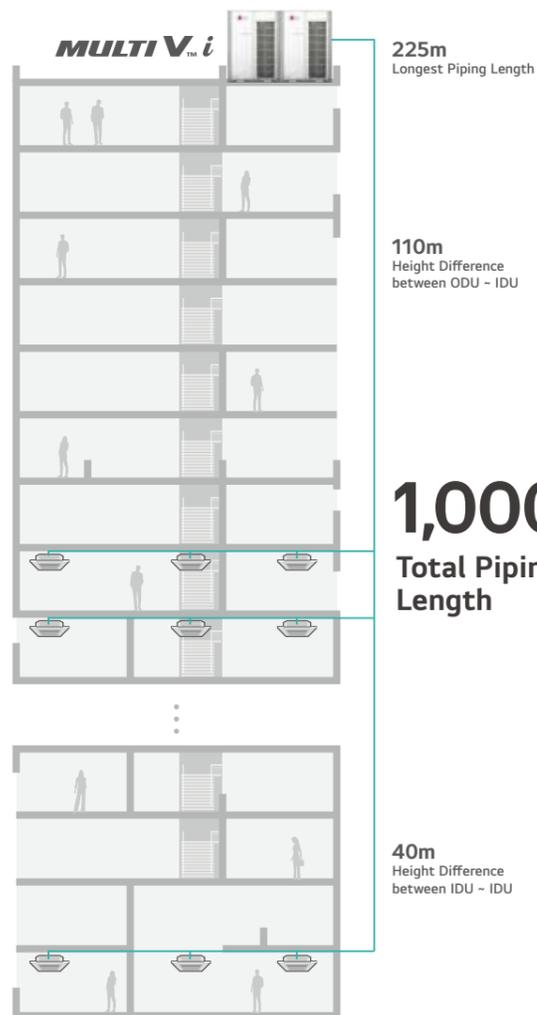
MULTI V S

MULTI V M

MULTI V WATER 5



# MULTI V™ i



## Highlights



Energy savings



Reliability



Low noise



Advanced performance

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

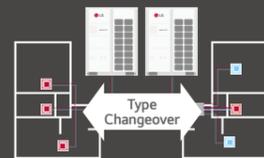
## How does it work?



Dual Sensing

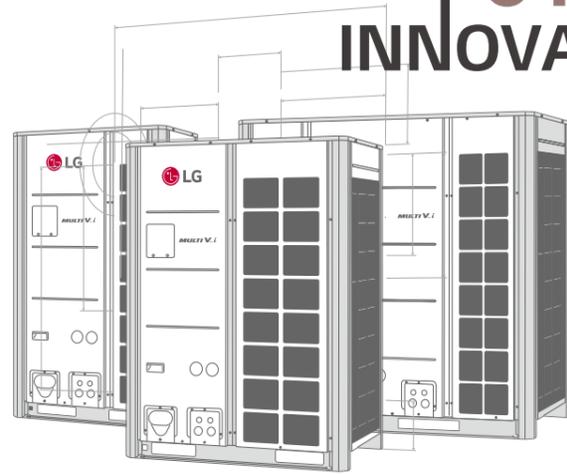


Partial Defrost



Interchangeable between  
heat pump and heat recovery

# 01 INNOVATIVE



*Innovative Energy efficiency / Performance realization*

- Maximum 26HP for a Single Outdoor Unit
- Compact Design with Larger Capacity
- Powerful Performance
- Powerful Cooling Performance
- Powerful Heating Performance
- Newly Designed Compact Fan
- Flexible Outdoor Units Combination
- Corrosion Resistant

# 02 INTELLIGENT

*Recognizes various environments & optimizes itself through its AI Engine*

**AI EFFICIENCY UP**

- AI Smart Care
- AI Energy Management

**AI COMFORT UP**

- Adaptive Noise Control
- Noise Target Control
- Weather Information Interlocking Control

**AI SMART UP**

- AI Smart Diagnosis
- Large Capacity Black Box
- Auto Tuning System
- Remote Upgrade System



# 03 INTERACTIVE

*Upgrading & evolutionary system according to customer*

- LG's Control Solution
- New Innovative Controller
- Smart GUI



**Interlocking System**

- A/C (Air Conditioner)
- LG AHU
- Valve / Pump AO (Analog Output)
- Occupancy Sensor / Alarm / Key-Tag DI (Digital Input)
- Fan / Lighting / Switch DO (Digital Output)
- Temperature / Humidity / CO<sub>2</sub> Sensor AI (Analog Input)



## Maximum 26HP for a Single Outdoor Unit

LG MULTI V i saves space, time, and installation costs by offering a larger capacity single outdoor unit.



## Compact Design with Larger Capacity

Lighter outdoor units reduce the installation area and architecture structure, increasing the space for roof gardens.



**Install 260HP**



※ Previous model: ARUM261LTE5, New model: ARUM260LTE6  
 ※ This scene is designed only for easier understanding, because 26HP unit cannot be applicable.

## Powerful Performance

MULTI V 5 has already proved itself highly competitive in the European market in terms of efficiency levels, but MULTI V *i* exceeded its predecessor.

[ Better than the Best ]



※ For certain models in the line-up.

## Powerful Cooling Performance

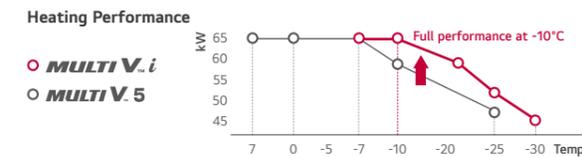
Reliable cooling operation up to 52°C, with full performance at 43°C. End users are able to enjoy comfortable indoor environments, even with extreme weather conditions outside.



※ Final specifications may change slightly.

## Powerful Heating Performance

More reliable heating operation is provided at down to -30°C and full performance at -10°C. Stable heating performance is guaranteed even in the case of an unexpected outdoor temperature drop.



※ Final specifications may change slightly.

### Stable & Powerful Heating

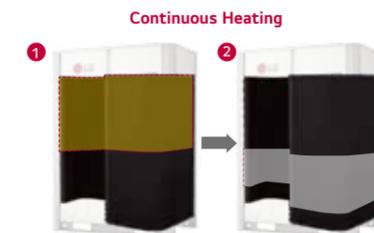
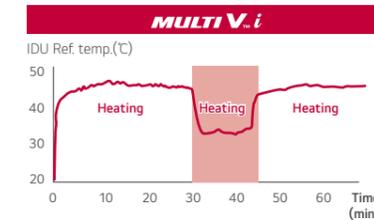
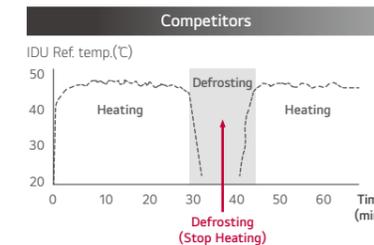
	<b>MULTI V.i</b>	<b>MULTI V.5</b>
Heating Operation Range	-30 ~ 16°C	-25 ~ 16°C
Performance at -10°C	Full	92 %

### Improved design

Improved design for defrost with an independent HEX system and accumulated freezing prevention design. With a differentiated structure and design, it provides longer heating time and reduced defrost time.

#### Continuous Heating

The heating operation duration was extended by independent HEX system for defrosting.



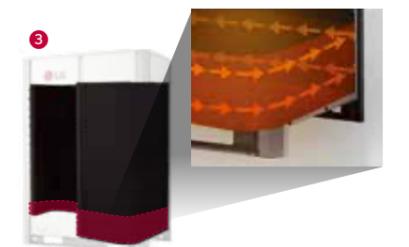
※ The defrost process is simplified for easier understanding.

#### NEW Accumulated Freezing Prevention Design

Preventing the freezing of the lower part of the heat exchanger



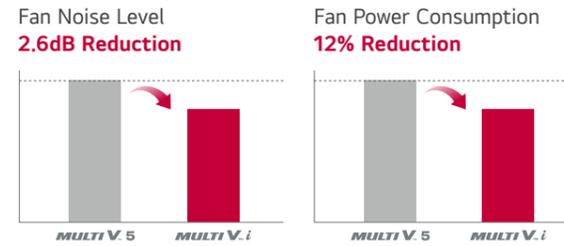
Defrost Time Reduction **65% ↓**  
Indoor outlet air temperature deviation during heating minimum load operation **70% ↓**



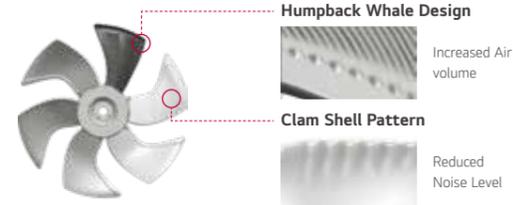
※ HEX: Heat Exchanger

## Newly Designed Compact Fan

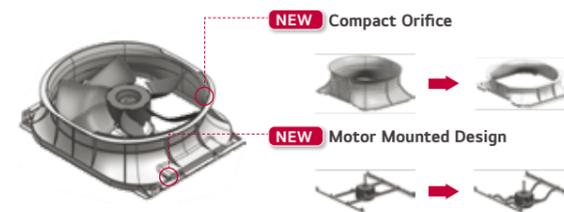
The design of a new biomimetic fan was inspired by nature. It brings more air volume and less noise with the same air flow rate compared to the conventional system.



**NEW Designed Biomimetic Fan**  
The new biomimetic fan has 6 blades that can reduce noise level and power consumption.



**Compact Aero-Design**  
With an optimal air flow, the noise level and power consumption is reduced.



※ Final specifications may change slightly.

## Flexible Outdoor Unit Combination

Flexible combination can contribute to faster delivery and installation. It provides more options for designing according to customers' preferences.

**Applicable Free Combination**

2 Units : 28-36 HP  
3 Units : 50-56 HP  
4 Units : 70-76 HP

**Standard Combination**  
18HP + 12HP

**Flexible Combination**  
20HP + 10HP

**Flexible Combination**  
16HP + 14HP

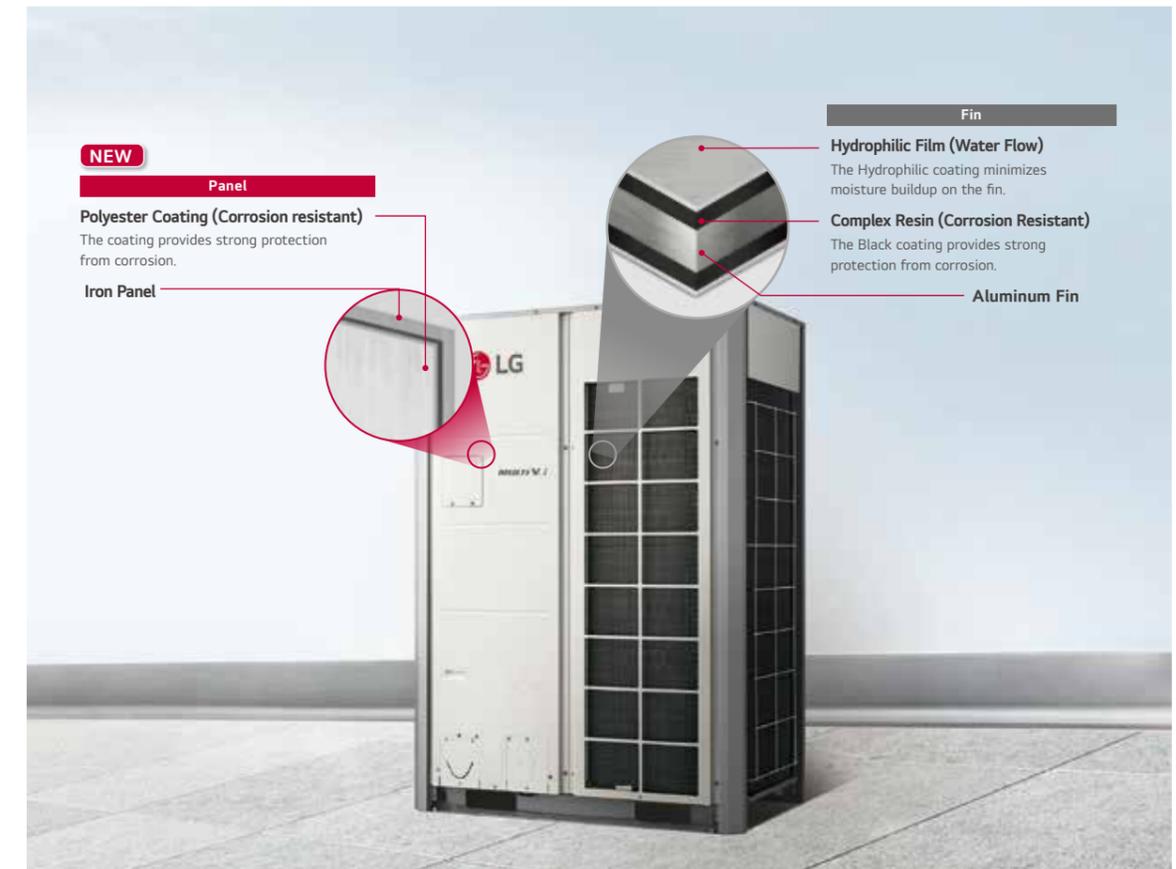
**For Customer**  
Faster Delivery & Installation

**For Consultant**  
Flexible Design for higher efficiency

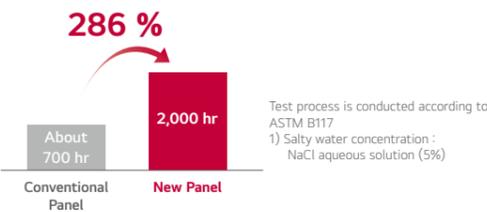
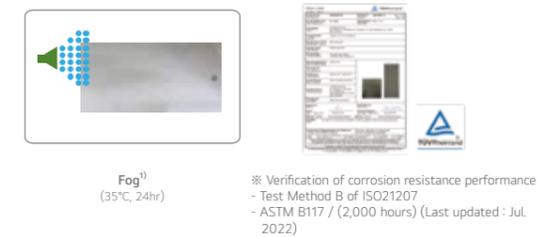
※ The UXC chassis models are not applicable to free combination.  
※ The 26 HP model of UXC chassis cannot be combined with other models.  
※ More information can be checked in the LATS tool.

## Corrosion Resistant

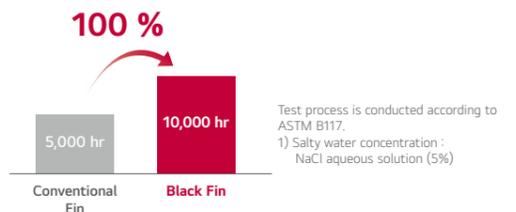
"Corrosion Resistant Black Fin" heat exchanger is designed for improved corrosion resistance. Body panels are also designed for improved corrosion resistance. 2,000 hours for body panels and 10,000 hours for heat exchanger make the product more reliable for customers.



**Salt Spray Test (SST)** × Process repeated  
5% Area of defects compared to initial state.



**Salt Spray Test (SST)** × Process repeated  
5% Area of defects compared to initial state.

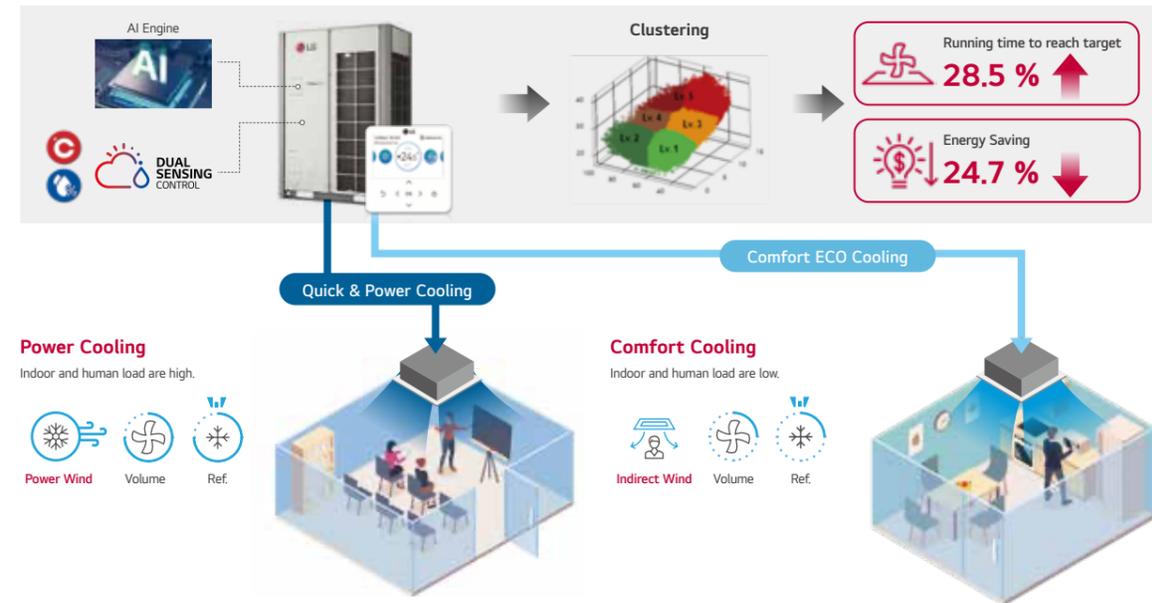


※ The product is not fully anticorrosive. To install near the sea, additional measures can be required.

## AI Smart Care

MULTI V *i* is capable of autonomous adaptation to various situations. When no one is in the space, power saving mode automatically turns on. MULTI V *i* is equipped with deep learning algorithms enabling it to self-learn.

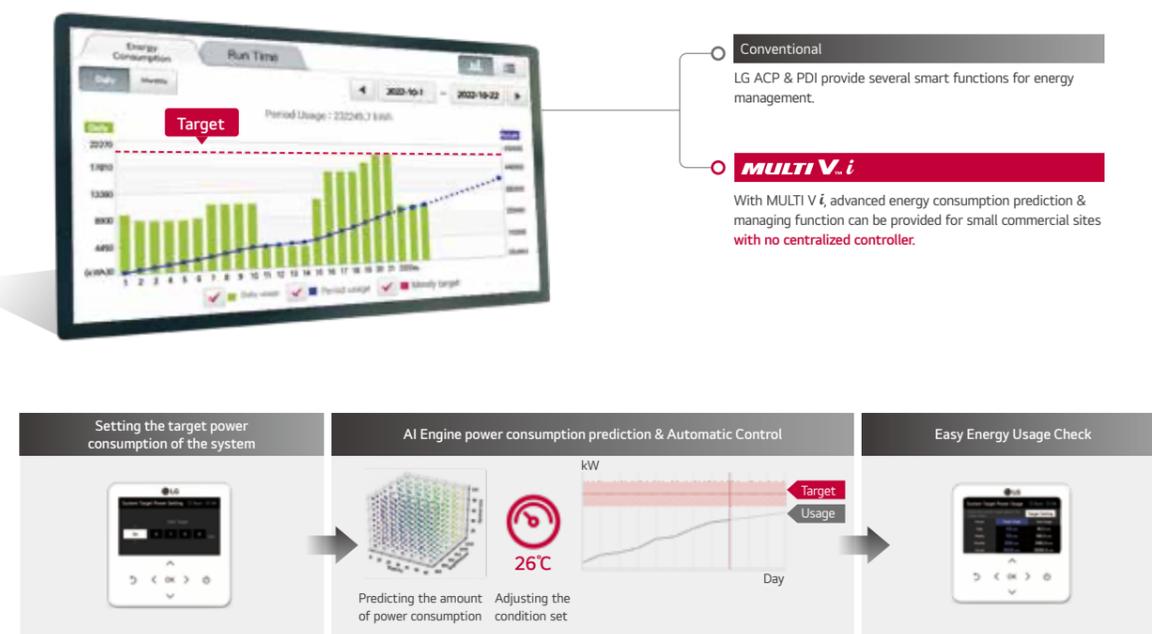
Data Collecting and Saving from IDU & ODU



※ This is the result from internal test that is followed KS Test Standard, the result may be differed by applied model, local temperature, and environment.  
- Model : MULTI V *i* 57 kW - Test Standard : KS B ISO15042

## AI Energy Management

MULTI V *i* is able to preset monthly energy usage and consume power according to the target that has been previously set. By comparing and analyzing previous power consumption of the current month and planned daily energy usage, overuse of the HVAC system operational costs can be prevented by AI Energy management.



※ If more accurate status for energy consumption is needed, ACP and PDI have to be installed.

## Adaptive Noise Control

The outdoor unit's noise level is automatically adjusted to the ambient conditions guaranteeing the customers' peace of mind, as they no longer have to worry about causing noise damage to neighbors.



※ This function will be available along with the schedule below.  
- single / combination unit : Production from Jan, '25  
- 2 or more units / groups : Application within '26

## Noise Target Control

The outdoor unit's noise can be restricted by the set sound level in advance, allowing customers to enjoy comfortable conditions while avoiding disturbing their neighbors and complying with the local noise regulations.



# Weather Information Interlocking Control

LG MULTI V *i* provides more comfort and convenience by checking ambient weather conditions.



**MULTI V *i***  
Sensing Temp. & Humidity

Hot  
Comfort  
Cold

Automatic Comfort / Energy Saving mode

Manage Ref. Manage Ref. temp.



※ Connecting with the AccuWeather is needed the ThinQ sever.  
※ The operation is based on AccuWeather information.

# AI Smart Diagnosis

AI Smart Diagnosis saves service time and provides for reliable LG MULTI V *i* operation by automatically analyzing and visualizing the product's performance status.

The AI Smart Diagnosis interface features a technician on the left, a smartphone in the center displaying a 'Product Status Index' with a score of 96/100, and a mobile LGMV device on the right. The index includes categories like Performance, Communication, Sensors/Parts, and Reliability. A legend indicates: OK (red dot), Check Needed (yellow dot), Check Immediately (pink dot).

※ UI may be changed without notification.

# Large Capacity Black Box

Operation data can be saved for up to 6 months before the system failure, contributing to quick service of the product.

The Large Capacity Black Box interface shows a technician on the left, a smartphone in the center displaying 'Data Analysis' and 'Recording operation data for - Max. 6 months before system failure! - Saved for 1 hour before and after the error occurred', and an outdoor unit on the right. A 'NEW' banner highlights the 'Data Saving Period' for MULTI V 5 (170 sec) and MULTI V *i* (Max. 6 months).

※ UI may be changed without notification.

## Auto Tuning System

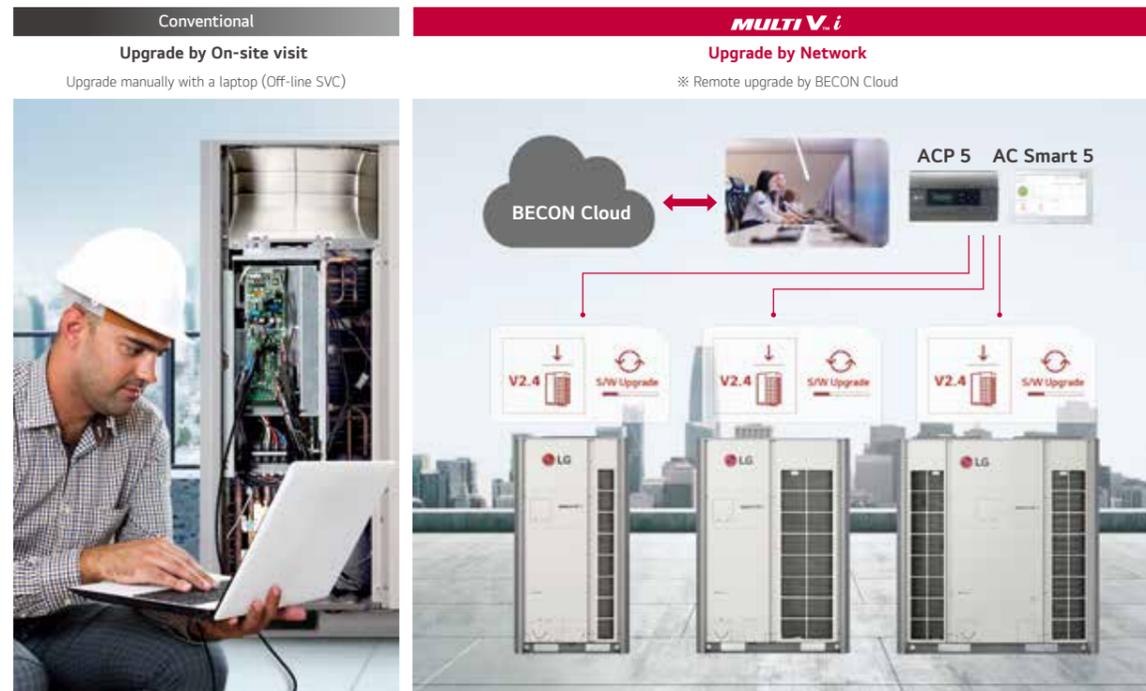
LG MULTI V *i* provides a new experience to customers with faster and easier installation and service. The AI engine is automatically upgradable when the compressor and motor are replaced.



※ This function is to be applied to compressor and fan motor.

## Remote Upgrade System

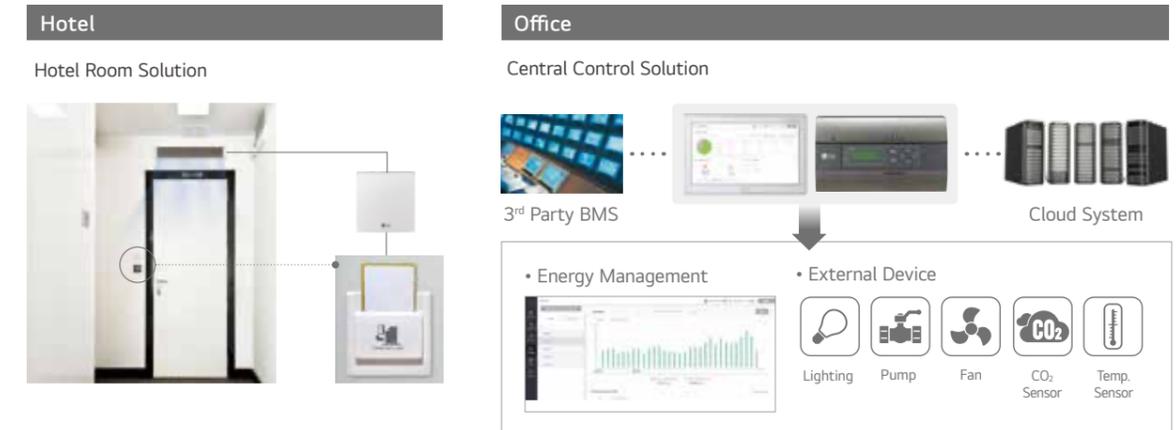
Like a smart phone, LG MULTI V *i* upgrades itself remotely! You can opt for the latest version of software immediately without on-site service



※ LG BECON Cloud is needed.

## LG's Control Solution

LG MULTI V *i* offers a diverse range of effective control solutions that satisfy the specific needs of each building and its user scene.



## Smart GUI

Smart GUI allows remote management via various devices such as PC, tablet and smart phone.

**reddot award**  
communication design

AM 11:00  
Monitoring room  
**PC**

PM 02:00  
Checking each room  
**Tablet**

PM 05:00  
Working outside  
**Mobile**

- Schedule function
- Energy Management
- Operation Trending Report
- Automatic E-mail Sending

## New Innovative Controller

LG Deluxe remote controller provides better customer experiences. (It's easy to use, with E-saving and simple maintenance.)

**Full touch & Easy access**  
LG Deluxe has full touch LCD screen & slim design suitable for the residential application. In addition, user-oriented UX design enhances user convenience.

**Pre-set Schedule**  
Seven Day scheduling with Home/Away/Sleep/Awake mode makes configuration much easier. And seasonal program setting offers more flexibility.

**Remote Control**  
The built-in Wi-Fi module makes the connection to ThinQ cloud simple and easy. Seven day schedule is synchronized between ThinQ cloud and wired remote controller.

**Easy Installation**  
The installation wizard helps the customer set up the basic configurations (Date & Time, Language, Temperature unit etc.) easily during installation.

**Air quality Monitoring**  
LG Deluxe can display air quality status when the air purifying device is installed. It also shows air quality monitoring history by day, week, month and year.

**Energy Navigation**  
The Energy Navigation provides the system operation trend per day. Running time and power consumption is also provided compared to last year by week, month and year.

**Features**  
Installation wizard  
Built-in Wi-Fi with ThinQ Capability  
Humidity / Proximity sensor  
Seven (7) Day Scheduling with Mode - Home / Away / Sleep / Awake  
Function Code search Tool

## Simpler Installation by Free HR Unit Function

When an indoor unit is used solely for cooling or heating, it can be connected to the simultaneous system without the need to connect to the HR unit, allowing it to operate seamlessly.

< Without HR Unit heat recovery system >



### Features

Applicable in sites where cooling, heating and hot water are simultaneously needed (ex. hotel, hospital, etc.)

Save time and money with the Free HR Unit Function

(Cost reduction through fewer HR units, piping installations and reduced labor)

※ This function will be available within 1H, '24 (This function application schedule may be changed without notification).

### AI Function Application

Category	Sub Category	Tool	Application Date <sup>1)</sup> (Based on MP)	AI Function (IDU)						AI Function (ODU)	
				AI Smart Care	AI Indoor Space Care	AI Smart Metering	AI Energy Management	Noise Target Control	AccuWeather Interlocking Control	Smart Diagnosis	Big Capacity Black Box
Cassette	Dual Vane 4 Way	TM-A / TP-B	available	●	●	●	●	●	●	●	●
	1 Way	TU / TT	available	●	●	●	●	●	●	●	●
	2 Way	TS	available	●	●	●	●	●	●	●	●
	Round	TY	available	●	●	●	●	●	●	●	●
Duct	Mini 4 Way	TQ / TR	available	●	●	●	●	●	●	●	●
	Low Static	L4 / L5 / L6	available	●	X	●	●	●	●	●	●
	High Static	B8	available	●	X	●	●	●	●	●	●
Floor Standing	CE / CF	available	●	●	●	●	●	●	●	●	
Convertible*	Ceiling Suspended	VM1 / VM2	'24	●	●	●	●	●	●	●	●
	Ceiling & Floor	VE	'24	●	●	●	●	●	●	●	●
Console*	QA	'24	●	●	●	●	●	●	●	●	
Floor Standing (PAC)*	PT3 / PF2	Apr, '24	●	●	●	●	●	●	●	●	
Wall Mounted*	Artcool, Standard	SJ / SK / SR	Apr, '24	●	●	●	●	●	●	●	

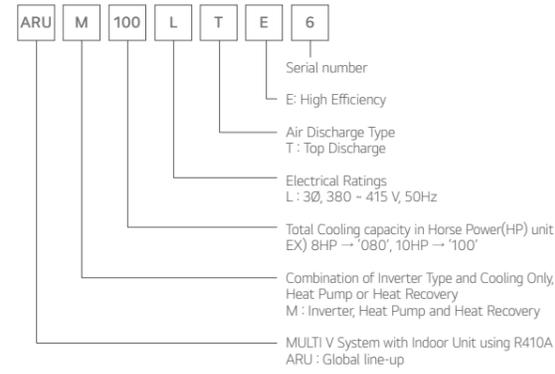
※ Indoor units produced from 2020.

- AI Functions available via indoor units' Main PCB Onboarding.

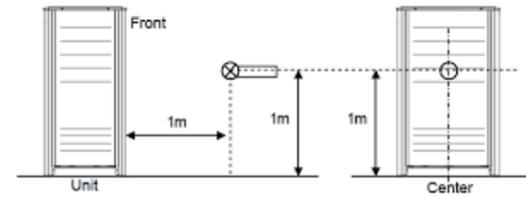
- AI Functions available of marked models(\*) by replacing indoor units' Main PCB.

1) Application Date is subject to change.

Nomenclature



Position of Sound Pressure Level Measuring



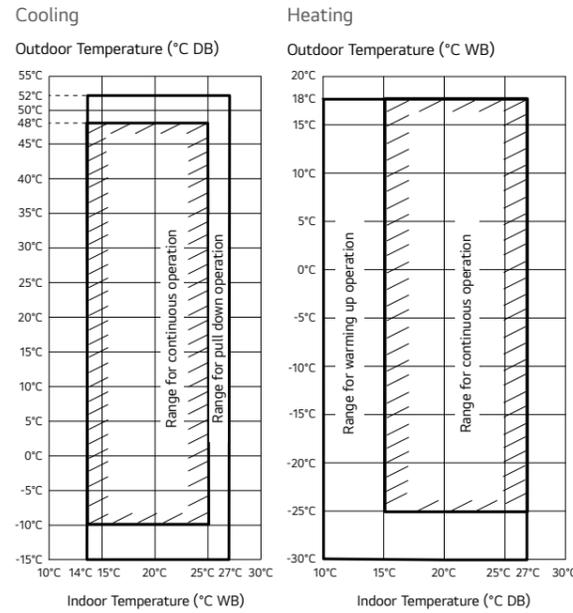
- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference acoustic pressure  $0dB = 20\mu Pa$ .
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions (Power source and Ambient temperature, etc).
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model).
- 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.

Outdoor Units Function

Category	Functions	Value
Reliability	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Compressor Balanced Operation	○
Convenience	Test Function	○
	Night Low Noise Operation	○
	Peak Control	○
	Mode Lock	○
	SLC (Smart Load Control)	○
Special Functions	Linear Bypass Cycle	○
	Noise Target Control	○
	Weather Information Interlocking Control	○
	Comfort Cooling	○
	ODU Dry Contact Function	○
	High Static Pressure Compensation	○
	Continuous Cooling	○
	Continuous Heating (Partial Defrost)	○
	Convenient Energy Check	○
	Automatic Tuning Upgrade	○
Remote Software Upgrade	○	
AI Smart Care	○	
AI Indoor Space Care	○	
AI Energy Target Control	○	
AI Smart Diagnosis	○	

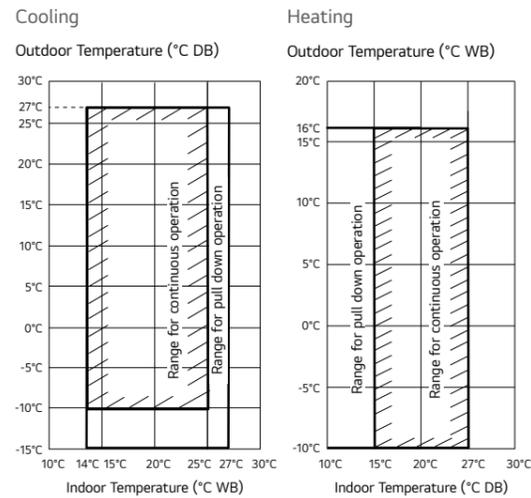
O : Applied, X : Not applied  
 - Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.  
 - Accessory line-ups varies by region, so check your local catalogue or local sales material

Cooling / Heating Operation



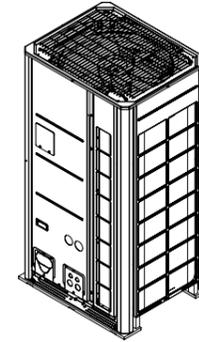
- Note
1. These figures assume the following operating conditions : Equivalent piping length is standard condition, and level difference is 0m.
  2. Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
  3. Warming up operation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

Simultaneous Cooling / Heating Operation



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

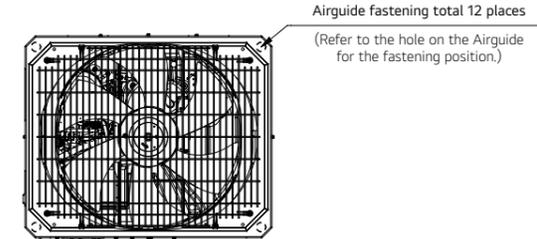
ARUM080LTE6 / ARUM100LTE6  
ARUM120LTE6



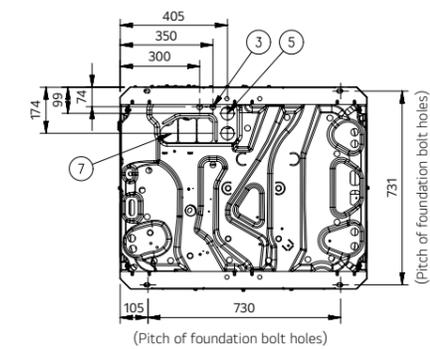
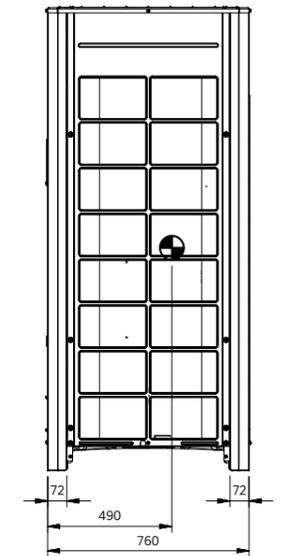
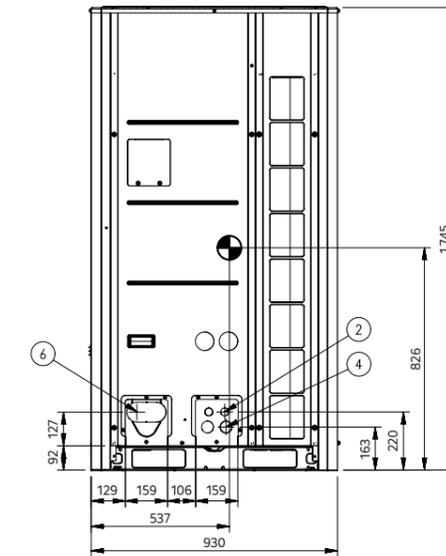
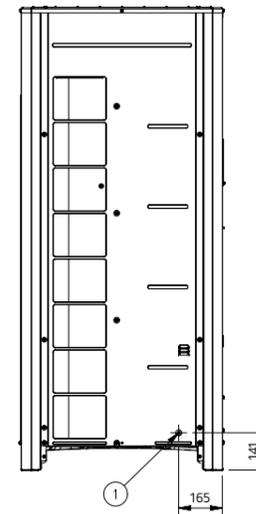
3D View

[Unit : mm]

No.	Part Name	Description
1	Leakage test hole (Side)	∅22.2
2	Wire routing hole (Front)	2-∅30
3	Wire routing hole (Bottom)	2-∅22.2
4	Power cord routing hole (Front)	2-∅45
5	Power cord routing hole (Bottom)	2-∅50
6	Pipe routing hole (Front)	-
7	Pipe routing hole (Bottom)	-



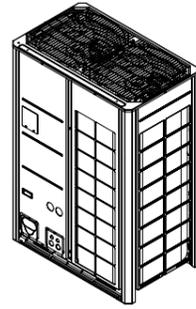
Airguide fastening total 12 places  
(Refer to the hole on the Airguide for the fastening position.)



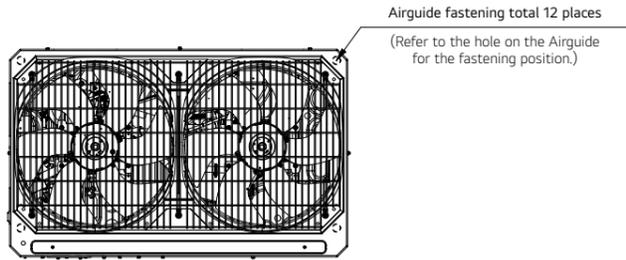
ARUM140LTE6 / ARUM160LTE6  
ARUM180LTE6 / ARUM200LTE6

[Unit : mm]

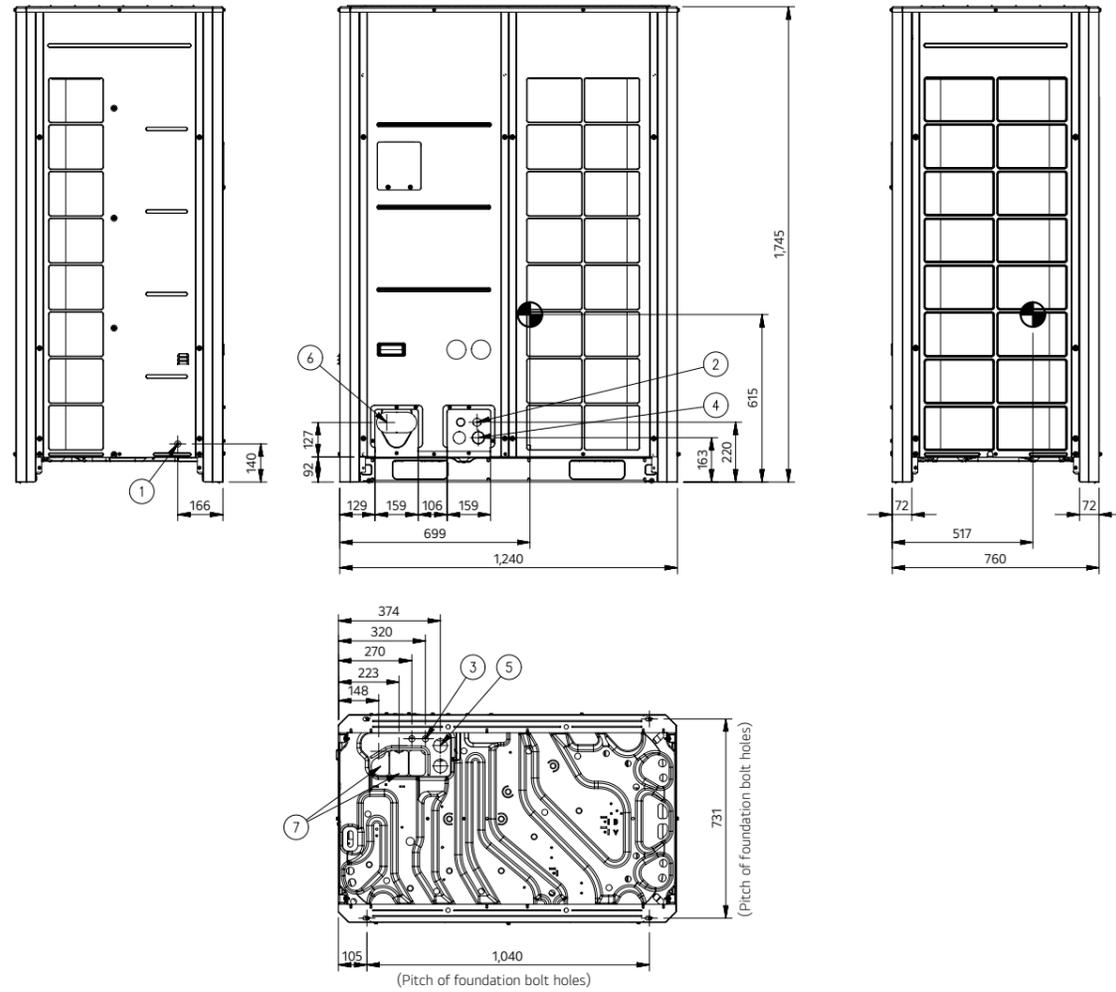
No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Front)	2-Ø30
3	Wire routing hole (Bottom)	2-Ø22.2
4	Power cord routing hole (Front)	2-Ø45
5	Power cord routing hole (Bottom)	2-Ø50
6	Pipe routing hole (Front)	-
7	Pipe routing hole (Bottom)	-



3D View



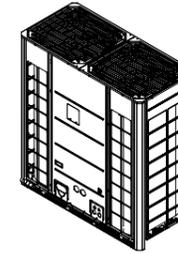
Airguide fastening total 12 places  
(Refer to the hole on the Airguide for the fastening position.)



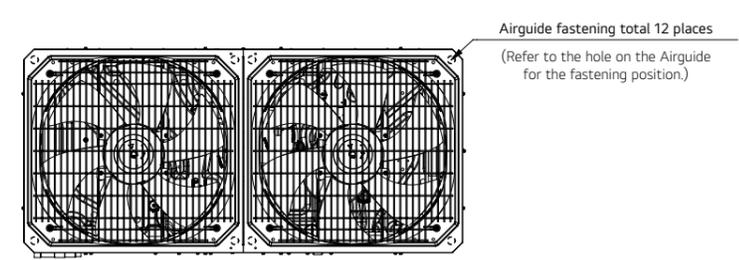
ARUM220LTE6 / ARUM240LTE6  
ARUM260LTE6

[Unit : mm]

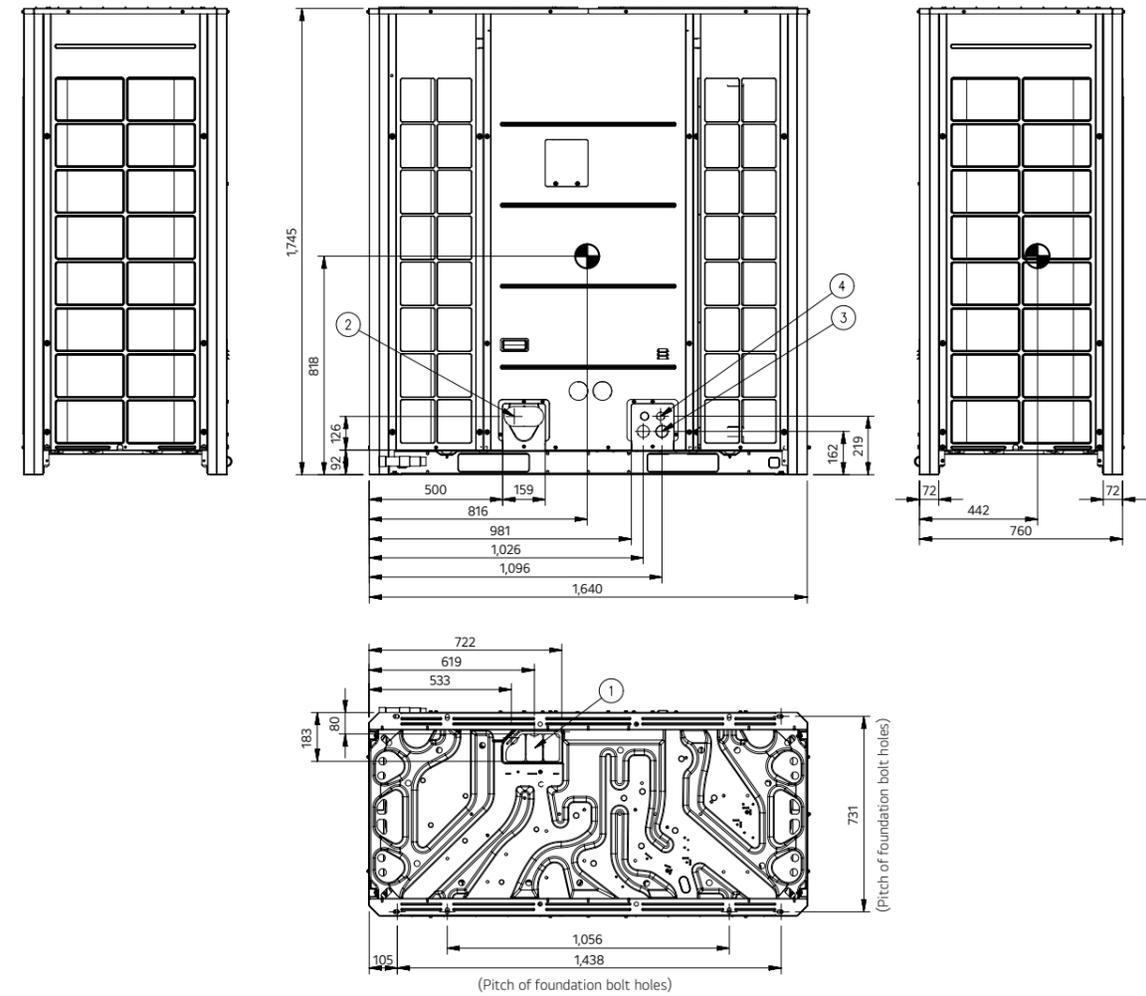
No.	Part Name	Description
1	Pipe routing hole (Bottom)	-
2	Pipe routing hole (Front)	-
3	Power cord routing hole (Front)	2-Ø30
4	Wire routing hole (Front)	2-Ø45



3D View



Airguide fastening total 12 places  
(Refer to the hole on the Airguide for the fastening position.)



ARUM080LTE6 / ARUM100LTE6  
ARUM120LTE6 / ARUM140LTE6

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

HP			8	10	12	14
Classification	Chassis		UXA	UXA	UXA	UXB
	Combination Unit		ARUM080LTE6	ARUM100LTE6	ARUM120LTE6	ARUM140LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	22.4	28.0	33.6	39.2
	Rated	kW	22.4	28.0	33.6	39.2
Heating Capacity	Max	kW	25.2	31.5	37.8	44.1
	Rated	kW	6.10	8.33	11.65	11.88
Power Input (Cooling)	Rated	kW	5.16	6.22	7.77	8.43
Efficiency	EER (Rated)	W/W	3.67	3.36	2.88	3.30
	COP (Rated)	W/W	4.34	4.50	4.32	4.65
	SEER	Wh/Wh	8.28	8.11	7.94	8.55
	SCOP	Wh/Wh	4.45	4.52	4.99	5.17
	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
Outdoor Fan	Air Flow Rate (High)	m <sup>3</sup> /min x No.	220 x 1	220 x 1	220 x 1	320 x 1
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct	Direct
	Output	W x No.	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1	62.1	62.1	62.1
	Number of Revolution	rev./min	3,600	3,600	3,600	3,600
	Motor Output	W x No.	5,300 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	930 x 1,745 x 760	930 x 1,745 x 760	930 x 1,745 x 760	1,240 x 1,745 x 760
Dimensions	Shipping (W x H x D)	mm	965 x 1,919 x 802	965 x 1,919 x 802	965 x 1,919 x 802	1,282 x 1,919 x 802
	Net	kg	215	215	215	255
Weight	Shipping	kg	225	225	225	265
	Type		R410A	R410A	R410A	R410A
Refrigerant	Precharged Amount	kg	8.5	9.5	9.5	13.0
	t-CO <sub>2</sub> eq.		17.744	19.831	19.831	27.138
	Control Type		EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.70 (1/2)	Ø12.70 (1/2)
	Gas	mm (inch)	Ø19.05 (3/4)	Ø22.20 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø22.20 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.20 (7/8)
	Cooling	dB (A)	57.0	57.5	59.0	60.0
Sound Pressure Level* (Outdoor Unit)	Heating	dB (A)	58.0	58.5	60.0	61.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	78.0	79.0	80.0	81.0
	Heating	dB (A)	78.0	79.0	82.0	81.0
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C			
Connectable Indoor Units Number	Max. (Conditional)	EA	13 (20)	16 (25)	20 (30)	23 (35)

ARUM160LTE6 / ARUM180LTE6  
ARUM200LTE6 / ARUM220LTE6

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

HP			16	18	20	22
Classification	Chassis		UXB	UXB	UXB	UXC
	Combination Unit		ARUM160LTE6	ARUM180LTE6	ARUM200LTE6	ARUM220LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	44.8	50.4	56.0	61.6
	Rated	kW	44.8	50.4	56.0	61.6
Heating Capacity	Max	kW	50.4	56.7	63.0	69.3
	Rated	kW	15.45	14.39	17.54	22.00
Power Input (Cooling)	Rated	kW	10.09	10.59	12.64	15.96
Efficiency	EER (Rated)	W/W	2.90	3.50	3.19	2.80
	COP (Rated)	W/W	4.44	4.76	4.43	3.86
	SEER	Wh/Wh	7.97	8.65	8.42	7.20
	SCOP	Wh/Wh	5.46	4.81	5.13	4.62
	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
Outdoor Fan	Air Flow Rate (High)	m <sup>3</sup> /min x No.	320 x 1	320 x 1	320 x 1	430 x 1
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct	Direct
	Output	W x No.	900 x 2	900 x 2	900 x 2	1,500 x 2
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1	62.1 x 2	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 1	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,640 x 1,745 x 760
Dimensions	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,675 x 1,919 x 802
	Net	kg	255	300	300	362
Weight	Shipping	kg	265	310	310	372
	Type		R410A	R410A	R410A	R410A
Refrigerant	Precharged Amount	kg	13.0	16.0	16.0	16.0
	t-CO <sub>2</sub> eq.		27.138	33.400	33.400	33.400
	Control Type		EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.70 (1/2)	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)	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)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø28.58 (1-1/8)
	Cooling	dB (A)	60.5	61.0	62.0	64.0
Sound Pressure Level* (Outdoor Unit)	Heating	dB (A)	61.5	62.0	63.5	66.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	85.0	85.0	86.0	84.0
	Heating	dB (A)	85.0	86.0	89.0	88.0
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C			
Connectable Indoor Units Number	Max. (Conditional)	EA	26 (40)	29 (45)	32 (50)	35 (56)

\*: Sound Pressure is not a value declared on Eurovent Program.

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

\*: Sound Pressure is not a value declared on Eurovent Program.

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

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

**ARUM240LTE6 / ARUM260LTE6**  
**ARUM280LTE6 / ARUM300LTE6**


HP			24	26	28	30
Classification	Chassis		UXC	UXC	UXB + UXA	UXB + UXA
	Combination Unit		ARUM240LTE6	ARUM260LTE6	ARUM160LTE6 ARUM120LTE6	ARUM180LTE6 ARUM120LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	67.2	72.8	78.4	84.0
	Max	kW	75.6	81.9	88.2	94.5
Heating Capacity	Rated	kW	67.2	72.8	78.4	84.0
	Max	kW	75.6	81.9	88.2	94.5
Power Input (Cooling)	Rated	kW	26.15	31.52	27.10	26.04
Power Input (Heating)	Rated	kW	18.61	21.60	17.86	18.36
Efficiency	EER (Rated)	W/W	2.57	2.31	2.89	3.23
	COP (Rated)	W/W	3.61	3.37	4.39	4.58
	SEER	Wh/Wh	6.91	6.62	7.96	8.30
	SCOP	Wh/Wh	4.31	4.11	5.22	4.90
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	430 x 1	430 x 1	(320 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct	Direct
	Output	W x No.	1,500 x 2	1,500 x 2	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 2	62.1 x 2	62.1 x 2	62.1 x 3
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2	3,600 x 2	3,600 x 3
	Motor Output	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 3
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	1,640 x 1,745 x 760	1,640 x 1,745 x 760	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)
Dimensions	Shipping (W x H x D)	mm	1,675 x 1,919 x 787	1,675 x 1,919 x 787	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)
	Weight	kg	362	362	(255 x 1) + (215 x 1)	(300 x 1) + (215 x 1)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Precharged Amount	kg	16.0	16.0	22.5	25.5
	t-CO <sub>2</sub> eq.		33.400	33.400	46.969	53.231
	Control Type		EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (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)	Ø28.58 (1-1/8)
	Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	65.0	65.0	62.8
Sound Power Level (Outdoor Unit)	Heating	dB (A)	66.0	66.5	63.8	64.1
	Cooling	dB (A)	85.0	89.0	86.2	86.2
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
	Connectable Indoor Units Number	Max. (Conditional)	EA	39 (61)	42 (64)	45 (56)

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

**ARUM320LTE6 / ARUM340LTE6**  
**ARUM360LTE6 / ARUM380LTE6**


HP			32	34	36	38
Classification	Chassis		UXB + UXA	UXB + UXB	UXB + UXB	UXB + UXB
	Combination Unit		ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM140LTE6	ARUM200LTE6 ARUM160LTE6	ARUM200LTE6 ARUM180LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	89.6	95.2	100.8	106.4
	Max	kW	100.8	107.1	113.4	119.7
Heating Capacity	Rated	kW	89.6	95.2	100.8	106.4
	Max	kW	100.8	107.1	113.4	119.7
Power Input (Cooling)	Rated	kW	29.19	29.42	32.99	31.93
Power Input (Heating)	Rated	kW	20.41	21.07	22.73	23.23
Efficiency	EER (Rated)	W/W	3.07	3.24	3.06	3.33
	COP (Rated)	W/W	4.39	4.52	4.43	4.58
	SEER	Wh/Wh	8.18	8.48	8.19	8.53
	SCOP	Wh/Wh	5.06	5.15	5.29	4.97
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 x 1) + (220 x 1)	(320 x 1) + (320 x 1)	(320 x 1) + (320 x 1)	(320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2)	(900 x 2) + (900 x 2)	(900 x 2) + (900 x 2)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 3	62.1 x 3	62.1 x 3	62.1 x 4
	Number of Revolution	rev./min	3,600 x 3	3,600 x 3	3,600 x 3	3,600 x 4
	Motor Output	W x No.	5,300 x 3	5,300 x 3	5,300 x 3	5,300 x 4
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 2
Dimensions	Shipping (W x H x D)	mm	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 2
	Weight	kg	(300 x 1) + (215 x 1)	(300 x 1) + (255 x 1)	(300 x 1) + (255 x 1)	(300 x 1) + (300 x 1)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Precharged Amount	kg	25.5	29.0	29.0	32.0
	t-CO <sub>2</sub> eq.		53.231	60.538	60.538	66.800
	Control Type		EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (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)	Ø34.90 (1-3/8)
	Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	63.8	64.1	64.3
Sound Power Level (Outdoor Unit)	Heating	dB (A)	65.1	65.4	65.6	65.8
	Cooling	dB (A)	87.0	87.2	88.5	88.5
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
	Connectable Indoor Units Number	Max. (Conditional)	EA	52 (64)	55 (64)	58 (64)

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

**ARUM400LTE6 / ARUM420LTE6  
ARUM440LTE6**


HP			40	42	44
Classification	Chassis		UXB + UXB	UXC + UXB	UXC + UXB
	Combination Unit		ARUM200LTE6 ARUM200LTE6	ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM200LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	112.0	117.6	123.2
	Max	kW	126.0	132.3	138.6
Heating Capacity	Rated	kW	112.0	117.6	123.2
	Max	kW	126.0	132.3	138.6
Power Input (Cooling)	Rated	kW	35.08	39.54	43.69
Power Input (Heating)	Rated	kW	25.28	28.60	31.25
Efficiency	EER (Rated)	W/W	3.19	2.97	2.82
	COP (Rated)	W/W	4.43	4.11	3.94
	SEER	Wh/Wh	8.42	7.81	7.66
	SCOP	Wh/Wh	5.13	4.87	4.72
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 × 1) + (320 × 1)	(430 × 1) + (320 × 1)	(430 × 1) + (320 × 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top	Top
	Drive		Direct	Direct	Direct
Compressor	Output	W x No.	(900 × 2) + (900 × 2)	(1,500 × 2) + (900 × 2)	(1,500 × 2) + (900 × 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 4	62.1 × 4	62.1 × 4
	Number of Revolution	rev./min	3,600 × 4	3,600 × 4	3,600 × 4
	Motor Output	W x No.	5,300 × 4	5,300 × 4	5,300 × 4
Heat Exchanger	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 × 1,745 × 760) × 2	((1,640 × 1,745 × 760) × 1) + ((1,240 × 1,745 × 760) × 1)	((1,640 × 1,745 × 760) × 1) + ((1,240 × 1,745 × 760) × 1)
	Shipping (W x H x D)	mm	(1,282 × 1,919 × 802) × 2	((1,675 × 1,919 × 802) × 1) + ((1,282 × 1,919 × 802) × 1)	((1,675 × 1,919 × 802) × 1) + ((1,282 × 1,919 × 802) × 1)
Weight	Net	kg	(300 × 1) + (300 × 1)	(362 × 1) + (300 × 1)	(362 × 1) + (300 × 1)
	Shipping	kg	(310 × 1) + (310 × 1)	(372 × 1) + (310 × 1)	(372 × 1) + (310 × 1)
Refrigerant	Type		R410A	R410A	R410A
	Precharged Amount	kg	32.0	32.0	32.0
	t-CO <sub>2</sub> eq.		66.800	66.800	66.800
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	65.0	66.1	66.8
	Heating	dB (A)	66.5	67.9	67.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	89.0	88.1	88.5
	Heating	dB (A)	92.0	91.5	91.5
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> × cores	0.75 - 1.5 × 2C	0.75 - 1.5 × 2C	0.75 - 1.5 × 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

**ARUM460LTE6 / ARUM480LTE6  
ARUM500LTE6**


HP			46	48	50
Classification	Chassis		UXC + UXC	UXC + UXC	UXB + UXB + UXA
	Combination Unit		ARUM240LTE6 ARUM220LTE6	ARUM240LTE6 ARUM240LTE6	ARUM200LTE6 ARUM180LTE6 ARUM120LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	128.8	134.4	140.0
	Max	kW	144.9	151.2	157.5
Heating Capacity	Rated	kW	128.8	134.4	140.0
	Max	kW	144.9	151.2	157.5
Power Input (Cooling)	Rated	kW	48.15	52.30	43.58
Power Input (Heating)	Rated	kW	34.57	37.22	31.00
Efficiency	EER (Rated)	W/W	2.67	2.57	3.21
	COP (Rated)	W/W	3.73	3.61	4.52
	SEER	Wh/Wh	7.06	6.91	8.34
	SCOP	Wh/Wh	4.47	4.31	4.97
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 × 1) + (430 × 1)	(430 × 1) + (430 × 1)	(320 × 1) + (320 × 1) + (220 × 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top	Top
	Drive		Direct	Direct	Direct
Compressor	Output	W x No.	(1,500 × 2) + (1,500 × 2)	(1,500 × 2) + (1,500 × 2)	(900 × 2) + (900 × 2) + (1,200 × 1)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 4	62.1 × 4	62.1 × 5
	Number of Revolution	rev./min	3,600 × 4	3,600 × 4	3,600 × 5
	Motor Output	W x No.	5,300 × 4	5,300 × 4	5,300 × 5
Heat Exchanger	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,640 × 1,745 × 760) × 2	(1,640 × 1,745 × 760) × 2	((1,240 × 1,745 × 760) × 2) + ((930 × 1,745 × 760) × 1)
	Shipping (W x H x D)	mm	(1,675 × 1,919 × 802) × 2	(1,675 × 1,919 × 802) × 2	((1,282 × 1,919 × 802) × 2) + ((965 × 1,919 × 802) × 1)
Weight	Net	kg	(362 × 1) + (362 × 1)	(362 × 1) + (362 × 1)	(300 × 1) + (300 × 1) + (215 × 1)
	Shipping	kg	(372 × 1) + (372 × 1)	(372 × 1) + (372 × 1)	(310 × 1) + (310 × 1) + (225 × 1)
Refrigerant	Type		R410A	R410A	R410A
	Precharged Amount	kg	32.0	32.0	41.5
	t-CO <sub>2</sub> eq.		66.800	66.800	86.631
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	67.5	68.0	65.6
	Heating	dB (A)	69.0	69.0	66.8
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	87.5	88.0	89.1
	Heating	dB (A)	91.0	91.0	91.3
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> × cores	0.75 - 1.5 × 2C	0.75 - 1.5 × 2C	0.75 - 1.5 × 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM520LTE6 / ARUM540LTE6  
ARUM560LTE6

HP			52	54	56
Classification	Chassis		UXB + UXB + UXA	UXB + UXB + UXB	UXB + UXB + UXB
	Combination Unit		ARUM200LTE6 ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM140LTE6	ARUM200LTE6 ARUM200LTE6 ARUM160LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	145.6	151.2	156.8
	Heating Capacity				
Heating Capacity	Rated	kW	145.6	151.2	156.8
	Max	kW	163.8	170.1	176.4
Power Input (Cooling)	Rated	kW	46.73	46.96	50.53
Power Input (Heating)	Rated	kW	33.05	33.71	35.37
Efficiency	EER (Rated)	W/W	3.12	3.22	3.10
	COP (Rated)	W/W	4.41	4.49	4.43
	SEER	Wh/Wh	8.26	8.46	8.27
	SCOP	Wh/Wh	5.08	5.14	5.24
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 × 1) + (320 × 1) + (220 × 1)	(320 × 1) + (320 × 1) + (320 × 1)	(320 × 1) + (320 × 1) + (320 × 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct
	Output	W x No.	(900 × 2) + (900 × 2) + (1,200 × 1)	(900 × 2) + (900 × 2) + (900 × 2)	(900 × 2) + (900 × 2) + (900 × 2)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 5	62.1 × 5	62.1 × 5
	Number of Revolution	rev./min	3,600 × 5	3,600 × 5	3,600 × 5
	Motor Output	W x No.	5,300 × 5	5,300 × 5	5,300 × 5
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	((1,240 × 1,745 × 760) × 2) + ((930 × 1,745 × 760) × 1)	(1,240 × 1,745 × 760) × 3	(1,240 × 1,745 × 760) × 3
Dimensions	Shipping (W x H x D)	mm	((1,282 × 1,919 × 802) × 2) + ((965 × 1,919 × 802) × 1)	(1,282 × 1,919 × 802) × 3	(1,282 × 1,919 × 802) × 3
	Weight				
Weight	Net	kg	(300 × 1) + (300 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (255 × 1)	(300 × 1) + (300 × 1) + (255 × 1)
	Shipping	kg	(310 × 1) + (310 × 1) + (225 × 1)	(310 × 1) + (310 × 1) + (265 × 1)	(310 × 1) + (310 × 1) + (265 × 1)
Refrigerant	Type		R410A	R410A	R410A
	Precharged Amount	kg	41.5	45.0	45.0
	t-CO <sub>2</sub> eq.		86.631	93.938	93.938
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	66.0	66.2	66.3
	Heating	dB (A)	67.4	67.6	67.7
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	89.5	89.6	90.5
	Heating	dB (A)	92.4	92.3	92.8
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> × cores	0.75 ~ 1.5 × 2C	0.75 ~ 1.5 × 2C	0.75 ~ 1.5 × 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM580LTE6 / ARUM600LTE6  
ARUM620LTE6

HP			58	60	62
Classification	Chassis		UXB + UXB + UXB	UXB + UXB + UXB	UXC + UXB + UXB
	Combination Unit		ARUM200LTE6 ARUM200LTE6 ARUM180LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6	ARUM220LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	162.4	168.0	173.6
	Heating Capacity				
Heating Capacity	Rated	kW	162.4	168.0	173.6
	Max	kW	182.7	189.0	195.3
Power Input (Cooling)	Rated	kW	49.47	52.62	57.08
Power Input (Heating)	Rated	kW	35.87	37.92	41.24
Efficiency	EER (Rated)	W/W	3.28	3.19	3.04
	COP (Rated)	W/W	4.53	4.43	4.21
	SEER	Wh/Wh	8.49	8.42	8.01
	SCOP	Wh/Wh	5.02	5.13	4.96
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 × 1) + (320 × 1) + (320 × 1)	(320 × 1) + (320 × 1) + (320 × 1)	(430 × 1) + (320 × 1) + (320 × 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct
	Output	W x No.	(900 × 2) + (900 × 2) + (900 × 2)	(900 × 2) + (900 × 2) + (900 × 2)	(1,500 × 2) + (900 × 2) + (900 × 2)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 6	62.1 × 6	62.1 × 6
	Number of Revolution	rev./min	3,600 × 6	3,600 × 6	3,600 × 6
	Motor Output	W x No.	5,300 × 6	5,300 × 6	5,300 × 6
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	(1,240 × 1,745 × 760) × 3	(1,240 × 1,745 × 760) × 3	((1,640 × 1,745 × 760) × 1) + ((1,240 × 1,745 × 760) × 2)
Dimensions	Shipping (W x H x D)	mm	(1,282 × 1,919 × 802) × 3	(1,282 × 1,919 × 802) × 3	((1,675 × 1,919 × 802) × 1) + ((1,282 × 1,919 × 802) × 2)
	Weight				
Weight	Net	kg	(300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (300 × 1)	(362 × 1) + (300 × 1) + (300 × 1)
	Shipping	kg	(310 × 1) + (310 × 1) + (310 × 1)	(310 × 1) + (310 × 1) + (310 × 1)	(372 × 1) + (310 × 1) + (310 × 1)
Refrigerant	Type		R410A	R410A	R410A
	Precharged Amount	kg	48.0	48.0	48.0
	t-CO <sub>2</sub> eq.		100.200	100.200	100.200
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	66.5	66.8	67.5
	Heating	dB (A)	67.8	68.3	69.3
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.5	90.8	90.2
	Heating	dB (A)	93.0	93.8	93.5
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> × cores	0.75 ~ 1.5 × 2C	0.75 ~ 1.5 × 2C	0.75 ~ 1.5 × 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM64OLTE6 / ARUM66OLTE6  
ARUM68OLTE6

HP			64	66	68
Classification	Chassis		UXC + UXB + UXB	UXC + UXC + UXB	UXC + UXC + UXB
	Combination Unit		ARUM240LTE6 ARUM200LTE6 ARUM200LTE6	ARUM240LTE6 ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	179.2	184.8	190.4
	Heating Capacity	Rated	kW	179.2	184.8
Power Input (Cooling)	Rated	kW	61.23	65.69	69.84
	Power Input (Heating)	Rated	kW	43.89	47.21
Efficiency	EER (Rated)	W/W	2.93	2.81	2.73
	COP (Rated)	W/W	4.08	3.91	3.82
	SEER	Wh/Wh	7.91	7.51	7.41
	SCOP	Wh/Wh	4.86	4.69	4.58
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top	Top
	Drive		Direct	Direct	Direct
Compressor	Output	W x No.	(1,500 x 2) + (900 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Heat Exchanger	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 6	62.1 x 6	62.1 x 6
	Number of Revolution	rev./min	3,600 x 6	3,600 x 6	3,600 x 6
	Motor Output	W x No.	5,300 x 6	5,300 x 6	5,300 x 6
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Dimensions	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 1)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 1)
Weight	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 1)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 1)
	Net	kg	(362 x 1) + (300 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1)
Refrigerant	Shipping	kg	(372 x 1) + (310 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1)
	Type		R410A	R410A	R410A
	Precharged Amount	kg	48.0	48.0	48.0
	t-CO <sub>2</sub> eq.		100.200	100.200	100.200
Connecting Pipe	Control Type		EEV	EEV	EEV
	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Sound Pressure Level (Outdoor Unit)	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Cooling	dB (A)	68.0	68.6	69.0
Sound Power Level (Outdoor Unit)	Heating	dB (A)	69.3	70.1	70.1
	Cooling	dB (A)	90.5	89.8	90.1
Connectable Indoor Units Number	Heating	dB (A)	93.5	93.1	93.1
	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM70OLTE6 / ARUM72OLTE6  
ARUM74OLTE6

HP			70	72	74
Classification	Chassis		UXB + UXB + UXB + UXA	UXB + UXB + UXB + UXA	UXB + UXB + UXB + UXB
	Combination Unit		ARUM200LTE6 ARUM200LTE6 ARUM180LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM140LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	196.0	201.6	207.2
	Heating Capacity	Rated	kW	196.0	201.6
Power Input (Cooling)	Rated	kW	61.12	64.27	64.50
	Power Input (Heating)	Rated	kW	43.64	45.69
Efficiency	EER (Rated)	W/W	3.21	3.14	3.21
	COP (Rated)	W/W	4.49	4.41	4.47
	SEER	Wh/Wh	8.36	8.30	8.45
	SCOP	Wh/Wh	5.01	5.09	5.14
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 x 1) + (320 x 1) + (320 x 1) + (220 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (220 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (220 x 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top	Top
	Drive		Direct	Direct	Direct
Compressor	Output	W x No.	(900 x 2) + (900 x 2) + (900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2) + (900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2) + (900 x 2) + (900 x 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Heat Exchanger	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 7	62.1 x 7	62.1 x 7
	Number of Revolution	rev./min	3,600 x 7	3,600 x 7	3,600 x 7
	Motor Output	W x No.	5,300 x 7	5,300 x 7	5,300 x 7
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Dimensions	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	((1,240 x 1,745 x 760) x 3) + ((930 x 1,745 x 760) x 1)	((1,240 x 1,745 x 760) x 3) + ((930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 4
Weight	Shipping (W x H x D)	mm	((1,282 x 1,919 x 802) x 3) + ((965 x 1,919 x 802) x 1)	((1,282 x 1,919 x 802) x 3) + ((965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 4
	Net	kg	(300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (255 x 1)
Refrigerant	Shipping	kg	(310 x 1) + (310 x 1) + (310 x 1) + (225 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (225 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (265 x 1)
	Type		R410A	R410A	R410A
	Precharged Amount	kg	57.5	57.5	61.0
	t-CO <sub>2</sub> eq.		120.031	120.031	127.338
Connecting Pipe	Control Type		EEV	EEV	EEV
	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Sound Pressure Level (Outdoor Unit)	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Cooling	dB (A)	67.2	67.4	67.6
Sound Power Level (Outdoor Unit)	Heating	dB (A)	68.5	68.9	69.0
	Cooling	dB (A)	90.8	91.1	91.2
Connectable Indoor Units Number	Heating	dB (A)	93.3	94.1	94.0
	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM760LTE6 / ARUM780LTE6  
ARUM800LTE6

HP			76	78	80
Classification	Chassis		UXB + UXB + UXB + UXB	UXB + UXB + UXB + UXB	UXB + UXB + UXB + UXB
	Combination Unit		ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM160LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM180LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	212.8	218.4	224.0
	Heating Capacity	Rated	kW	212.8	218.4
Heating Capacity	Max	kW	239.4	245.7	252.0
	Power Input (Cooling)	Rated	kW	68.07	67.01
Power Input (Heating)	Rated	kW	48.01	48.51	50.56
Efficiency	EER (Rated)	W/W	3.13	3.26	3.19
	COP (Rated)	W/W	4.43	4.50	4.43
	SEER	Wh/Wh	8.30	8.47	8.42
	SCOP	Wh/Wh	5.21	5.05	5.13
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 × 1) + (320 × 1) + (320 × 1) + (320 × 1)	(320 × 1) + (320 × 1) + (320 × 1) + (320 × 1)	(320 × 1) + (320 × 1) + (320 × 1) + (320 × 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top	Top
	Drive		Direct	Direct	Direct
Compressor	Output	W x No.	(900 × 2) + (900 × 2) + (900 × 2) + (900 × 2)	(900 × 2) + (900 × 2) + (900 × 2) + (900 × 2)	(900 × 2) + (900 × 2) + (900 × 2) + (900 × 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 7	62.1 × 8	62.1 × 8
	Number of Revolution	rev./min	3,600 × 7	3,600 × 8	3,600 × 8
	Motor Output	W x No.	5,300 × 7	5,300 × 8	5,300 × 8
Heat Exchanger	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 4	(1,240 x 1,745 x 760) x 4	(1,240 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 4	(1,282 x 1,919 x 802) x 4	(1,282 x 1,919 x 802) x 4
Weight	Net	kg	(300 × 1) + (300 × 1) + (300 × 1) + (255 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (300 × 1)
	Shipping	kg	(310 × 1) + (310 × 1) + (310 × 1) + (265 × 1)	(310 × 1) + (310 × 1) + (310 × 1) + (310 × 1)	(310 × 1) + (310 × 1) + (310 × 1) + (310 × 1)
Refrigerant	Type		R410A	R410A	R410A
	Precharged Amount	kg	61.0	64.0	64.0
	t-CO <sub>2</sub> eq.		127.338	133.600	133.600
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	67.7	67.8	68.0
	Heating	dB (A)	69.1	69.2	69.5
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.8	91.8	92.0
	Heating	dB (A)	94.3	94.4	95.0
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

## ARUM820LTE6 / ARUM840LTE6



HP			82	84
Classification	Chassis		UXC + UXC + UXB + UXB	UXC + UXC + UXB + UXB
	Combination Unit		ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM140LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM160LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	229.6	235.2
	Heating Capacity	Rated	kW	229.6
Heating Capacity	Max	kW	258.3	264.6
	Power Input (Cooling)	Rated	kW	81.72
Power Input (Heating)	Rated	kW	58.29	59.95
Efficiency	EER (Rated)	W/W	2.81	2.76
	COP (Rated)	W/W	3.94	3.92
	SEER	Wh/Wh	7.70	7.55
	SCOP	Wh/Wh	4.73	4.80
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 × 1) + (430 × 1) + (320 × 1) + (320 × 1)	(430 × 1) + (430 × 1) + (320 × 1) + (320 × 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top
	Drive		Direct	Direct
Compressor	Output	W x No.	(1,500 × 2) + (1,500 × 2) + (900 × 2) + (900 × 2)	(1,500 × 2) + (1,500 × 2) + (900 × 2) + (900 × 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 × 7	62.1 × 7
	Number of Revolution	rev./min	3,600 × 7	3,600 × 7
	Motor Output	W x No.	5,300 × 7	5,300 × 7
Heat Exchanger	Oil Type		FW68L (PVE)	FW68L (PVE)
	Fin Type		Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)
Weight	Net	kg	(362 × 1) + (362 × 1) + (300 × 1) + (255 × 1)	(362 × 1) + (362 × 1) + (300 × 1) + (255 × 1)
	Shipping	kg	(372 × 1) + (372 × 1) + (310 × 1) + (265 × 1)	(372 × 1) + (372 × 1) + (310 × 1) + (265 × 1)
Refrigerant	Type		R410A	R410A
	Precharged Amount	kg	61.0	61.0
	t-CO <sub>2</sub> eq.		127.338	127.338
	Control Type		EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	69.5	69.6
	Heating	dB (A)	70.6	70.6
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.6	91.3
	Heating	dB (A)	93.4	93.8
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

## ARUM860LTE6 / ARUM880LTE6



HP			86	88
Classification	Chassis		UXC + UXC + UXB + UXB	UXC + UXC + UXB + UXB
	Combination Unit		ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM180LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	240.8	246.4
	Max	kW	270.9	277.2
Heating Capacity	Rated	kW	240.8	246.4
	Max	kW	270.9	277.2
Power Input (Cooling)	Rated	kW	84.23	87.38
Power Input (Heating)	Rated	kW	60.45	62.50
Efficiency	EER (Rated)	W/W	2.86	2.82
	COP (Rated)	W/W	3.98	3.94
	SEER	Wh/Wh	7.72	7.66
	SCOP	Wh/Wh	4.64	4.72
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive		Direct	Direct
Compressor	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type		FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)
Weight	Net	kg	(362 x 1) + (362 x 1) + (300 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1) + (300 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (310 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1) + (310 x 1)
Refrigerant	Type		R410A	R410A
	Precharged Amount	kg	64.0	64.0
	t-CO <sub>2</sub> eq.		133.600	133.600
	Control Type		EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	69.6	69.8
	Heating	dB (A)	70.7	70.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.3	91.5
	Heating	dB (A)	93.9	94.5
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

## ARUM900LTE6 / ARUM920LTE6



HP			90	92
Classification	Chassis		UXC + UXC + UXC + UXB	UXC + UXC + UXC + UXC
	Combination Unit		ARUM240LTE6 ARUM240LTE6 ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM240LTE6 ARUM220LTE6 ARUM220LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	252.0	257.6
	Max	kW	283.5	289.8
Heating Capacity	Rated	kW	252.0	257.6
	Max	kW	283.5	289.8
Power Input (Cooling)	Rated	kW	91.84	96.30
Power Input (Heating)	Rated	kW	65.82	69.14
Efficiency	EER (Rated)	W/W	2.74	2.67
	COP (Rated)	W/W	3.83	3.73
	SEER	Wh/Wh	7.36	7.06
	SCOP	Wh/Wh	4.59	4.47
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 x 1) + (430 x 1) + (430 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive		Direct	Direct
Compressor	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type		FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 3) + ((1,240 x 1,745 x 760) x 1)	(1,640 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 3) + ((1,282 x 1,919 x 802) x 1)	(1,675 x 1,919 x 802) x 4
Weight	Net	kg	(362 x 1) + (362 x 1) + (362 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (372 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)
Refrigerant	Type		R410A	R410A
	Precharged Amount	kg	64.0	64.0
	t-CO <sub>2</sub> eq.		133.600	133.600
	Control Type		EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	70.2	70.5
	Heating	dB (A)	71.5	72.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.1	90.5
	Heating	dB (A)	94.3	94.0
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

## ARUM940LTE6 / ARUM960LTE6



HP			94	96
Classification	Chassis		UXC + UXC + UXC + UXC	UXC + UXC + UXC + UXC
	Combination Unit		ARUM240LTE6 ARUM240LTE6 ARUM240LTE6 ARUM220LTE6	ARUM240LTE6 ARUM240LTE6 ARUM240LTE6 ARUM240LTE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	263.2	268.8
	Max	kW	296.1	302.4
Heating Capacity	Rated	kW	263.2	268.8
	Max	kW	296.1	302.4
Power Input (Cooling)	Rated	kW	100.50	104.60
Power Input (Heating)	Rated	kW	71.79	74.44
Efficiency	EER (Rated)	W/W	2.62	2.57
	COP (Rated)	W/W	3.67	3.61
	SEER	Wh/Wh	6.98	6.91
	SCOP	Wh/Wh	4.39	4.31
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)
Outdoor Fan Motor	Discharge direction (Side / Top)		Top	Top
	Drive		Direct	Direct
Compressor	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type		FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	(1,640 x 1,745 x 760) x 4	(1,640 x 1,745 x 760) x 4
Dimensions	Shipping (W x H x D)	mm	(1,675 x 1,919 x 802) x 4	(1,675 x 1,919 x 802) x 4
	Net	kg	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)
Weight	Shipping	kg	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)
	Type		R410A	R410A
Refrigerant	Precharged Amount	kg	64.0	64.0
	t-CO <sub>2</sub> eq.		133.600	133.600
	Control Type		EEV	EEV
	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
Connecting Pipe	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Cooling	dB (A)	70.8	71.0
Sound Pressure Level (Outdoor Unit)	Heating	dB (A)	72.0	72.0
	Cooling	dB (A)	90.8	91.0
Sound Power Level (Outdoor Unit)	Heating	dB (A)	94.0	94.0
	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

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

2. Capacities are based on the following conditions :

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

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

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc.) Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static Pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model).

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.

5. Explanation of Terms

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

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

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

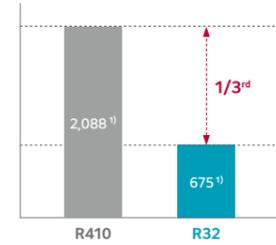
# MULTI V™ i R32



## Highlight of the R32 Refrigerant

### Low GWP

- More eco-friendly refrigerant compliant with regulation



### Single Component

- Easy to handle, reuse and recycle
- Affordable and readily available



### High Volumetric Energy

- Lower compressor displacement



### Less Refrigerant Charge

- Savings on cost of injecting & replacing refrigerant
- Savings on purchase of refrigerant



※ More precaution should be needed to use R32 refrigerant due to slightly higher toxicity level.  
 1) Source : Global Warming Potential Values (2007, AR4)  
 2) Based on MULTI V i specification. This ratio is general for helping understanding, it may differ depending on the each product.

## Less Charge, Less Carbon Emission System

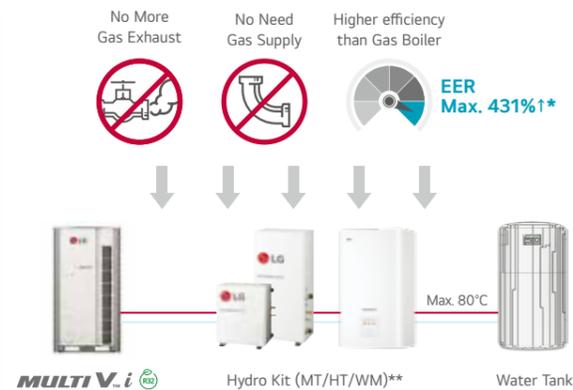
MULTI V i R32 can save Max. 14% of refrigerant amount compared to R410A system, which leads to reduced carbon dioxide emissions.



※ The information is based on Product Data Book.  
 (R410A system model: ARU\*\*\*LTE6, R32 system model: ZRUM\*\*\*LTE6)  
 ※ Results may vary depending on the environment.

## More Efficient Hot Water Supply Solution

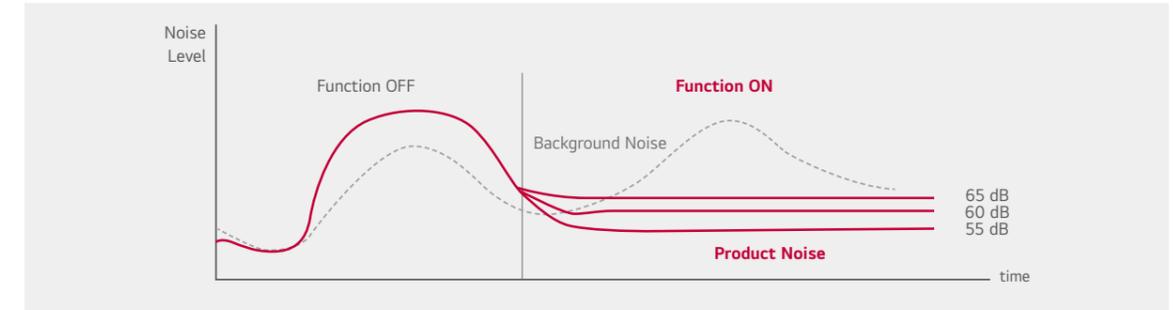
MULTI V i with Hydro kit provides floor heating and hot water supply without using gas. It is a more environmentally friendly system with higher energy efficiency and lower carbon emissions.



\* These are the company's experimental values and experimental conditions, and may differ from the actual usage environment. In addition, power consumption may increase as the outside temperature decreases. Gas Boiler: 0.87, Hydro Kit: 3.75 (Model: ARNH10GK2A4 / 100% combination / Outdoor 7°CDB, water inlet: 30°C, water outlet: 35°C)  
 \*\* MT: Mid Temperature, HT: High Temperature, WM: Wall Mounted  
 ※ Results may vary depending on the environment.

## Noise Target Control

The outdoor unit noise can be restricted by the set noise level in advance. The function helps you to enjoy the comfortable conditions, avoid noise damage to neighbors and follow the local noise regulations.



※ The target noise value can be set only with the wired remote controller which is set as the master wired remote controller for the outdoor unit function.

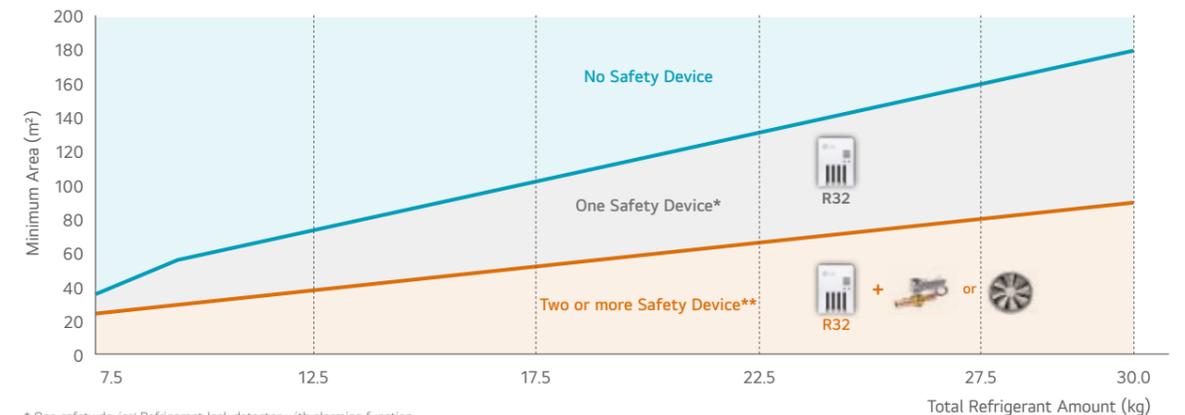
## R32 Indoor Unit Design Guide

A HVAC system using R32 refrigerant requires the minimum room area because of its flammability and it should be designed by LATS HVAC.

### Minimum Area Requirement

- Each room area should be equal or larger than the minimum required area.
- The minimum required area is limited by the total amount of refrigerant in the system, which depends on the installation height of indoor unit and the number of safety devices.

### Minimum Area Guideline (Installation height of IDU = 2.2 m)



\* One safety device: Refrigerant leak detector with alarming function  
 \*\* Two or more device: Refrigerant leak detector + ventilator or Refrigerant leak detector + shut-off valve

**ZRUM080LTE6 / ZRUM100LTE6  
ZRUM120LTE6**


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

MODEL		UNIT	ZRUM080LTE6	ZRUM100LTE6	ZRUM120LTE6
Classification	Chassis		UXA	UXA	UXA
	Combination Unit		ZRUM080LTE6	ZRUM100LTE6	ZRUM120LTE6
Power Supply	V / Ø / Hz		380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	22.4	28.0	33.6
	Rated	kW	22.4	28.0	33.6
Heating Capacity	Max	kW	25.2	31.5	37.8
	Rated	kW	6.10	8.33	11.65
Power Input (Cooling)	Rated	kW	6.10	8.33	11.65
Power Input (Heating)	Rated	kW	5.16	6.22	7.77
Efficiency	EER (Rated)	W/W	3.67	3.36	2.88
	COP (Rated)	W/W	4.34	4.50	4.32
	SEER	Wh/Wh	8.28	8.11	7.94
	SCOP	Wh/Wh	4.45	4.52	4.99
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	220 x 1	220 x 1	220 x 1
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct
	Output	W x No.	1,200 x 1	1,200 x 1	1,200 x 1
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1	62.1	62.1
	Number of Revolution	rev./min	3,600	3,600	3,600
	Motor Output	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	930 x 1,745 x 760	930 x 1,745 x 760	930 x 1,745 x 760
Dimensions	Shipping (W x H x D)	mm	965 x 1,919 x 802	965 x 1,919 x 802	965 x 1,919 x 802
	Net	kg	215	215	215
Weight	Shipping	kg	225	225	225
	Type		R32	R32	R32
Refrigerant	Precharged Amount	kg	7.5	8.5	8.5
	t-CO <sub>2</sub> eq.		5.063	5.738	5.738
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	57	57.5	59
	Heating	dB (A)	58	58.5	60
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	78	79	80
	Heating	dB (A)	78	79	82
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	13 (20)	16 (25)	20 (30)

\*: Sound Pressure is not a value declared on Eurovent Program.  
Note :  
1. Due to our policy of innovation some specifications may be changed without notification.

**ZRUM140LTE6 / ZRUM160LTE6  
ZRUM180LTE6**


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

MODEL		UNIT	ZRUM140LTE6	ZRUM160LTE6	ZRUM180LTE6
Classification	Chassis		UXB	UXB	UXB
	Combination Unit		ZRUM140LTE6	ZRUM160LTE6	ZRUM180LTE6
Power Supply	V / Ø / Hz		380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	39.2	44.8	50.4
	Rated	kW	39.2	44.8	50.4
Heating Capacity	Max	kW	44.1	50.4	56.7
	Rated	kW	11.88	15.45	14.39
Power Input (Cooling)	Rated	kW	11.88	15.45	14.39
Power Input (Heating)	Rated	kW	8.43	10.09	10.59
Efficiency	EER (Rated)	W/W	3.30	2.90	3.50
	COP (Rated)	W/W	4.65	4.44	4.76
	SEER	Wh/Wh	8.55	7.97	8.65
	SCOP	Wh/Wh	5.17	5.46	4.81
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	320 x 1	320 x 1	320 x 1
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct
	Output	W x No.	900 x 2	900 x 2	900 x 2
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1	62.1	62.1 x 2
	Number of Revolution	rev./min	3,600	3,600	3,600 x 2
	Motor Output	W x No.	5,300 x 1	5,300 x 1	5,300 x 2
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Net (W x H x D)	mm	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,240 x 1,745 x 760
Dimensions	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,282 x 1,919 x 802
	Net	kg	255	255	300
Weight	Shipping	kg	265	265	310
	Type		R32	R32	R32
Refrigerant	Precharged Amount	kg	11.4	11.4	14
	t-CO <sub>2</sub> eq.		7.695	7.695	9.450
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	60	60.5	61
	Heating	dB (A)	61	61.5	62
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	81	85	85
	Heating	dB (A)	81	85	86
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	23 (35)	26 (40)	29 (45)

\*: Sound Pressure is not a value declared on Eurovent Program.  
Note :  
1. Due to our policy of innovation some specifications may be changed without notification.

ZBUM200LLE6 / ZBUM220LLE6  
ZBUM240LLE6

<sup>1)</sup> LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : [www.eurovent-certification.com](http://www.eurovent-certification.com)

MODEL		UNIT	ZBUM200LLE6	ZBUM220LLE6	ZBUM240LLE6
Classification	Chassis		UXB	UXA + UXA	UXB + UXA
	Combination Unit		ZBUM200LLE6	ZBUM120LLE6 ZBUM100LLE6	ZBUM140LLE6 ZBUM100LLE6
Power Supply	V / Ø / Hz		380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	56.0	61.6	67.2
	Max	kW	63.0	69.3	75.6
Heating Capacity	Rated	kW	56.0	61.6	67.2
	Max	kW	63.0	69.3	75.6
Power Input (Cooling)	Rated	kW	17.54	19.98	20.21
Power Input (Heating)	Rated	kW	12.64	13.99	14.65
Efficiency	EER (Rated)	W/W	3.19	3.08	3.33
	COP (Rated)	W/W	4.43	4.40	4.59
	SEER	Wh/Wh	8.42	8.03	8.33
	SCOP	Wh/Wh	5.13	4.76	4.85
Outdoor Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	320 x 1	(220 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive		Direct	Direct	Direct
	Output	W x No.	900 x 2	(1,200 x 1) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 2	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type		FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	1,240 x 1,745 x 760	(930 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 1 + (930 x 1,745 x 760) x 1
	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	(965 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 1 + (965 x 1,919 x 802) x 1
Weight	Net	kg	300	215 x 2	(255 x 1) + (215 x 1)
	Shipping	kg	310	225 x 2	(265 x 1) + (225 x 1)
Refrigerant	Type		R32	R32	R32
	Precharged Amount	kg	14	17	19.9
	t-CO <sub>2</sub> eq.		9.450	11.475	13.433
	Control Type		EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery) High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	62	61.3	61.9
	Heating	dB (A)	63.5	62.3	62.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	86	82.5	83.1
	Heating	dB (A)	89	83.8	83.1
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	32 (50)	35 (56)	39 (61)

\* Sound Pressure is not a value declared on Eurovent Program  
<sup>1)</sup> Applying to 20HP outdoor units only.

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

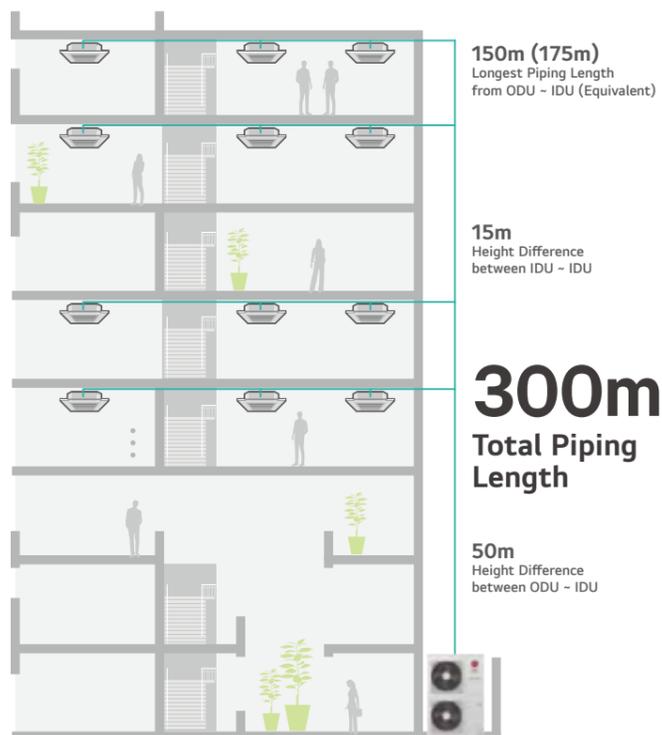
## ZBUM260LLE6 / ZBUM280LLE6



MODEL		UNIT	ZBUM260LLE6	ZBUM280LLE6
Classification	Chassis		UXB + UXA	UXB + UXA
	Combination Unit		ZBUM140LLE6 ZBUM120LLE6	ZBUM160LLE6 ZBUM120LLE6
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	72.8	78.4
	Max	kW	81.9	88.2
Heating Capacity	Rated	kW	72.8	78.4
	Max	kW	81.9	88.2
Power Input (Cooling)	Rated	kW	23.53	27.10
Power Input (Heating)	Rated	kW	16.20	17.86
Efficiency	EER (Rated)	W/W	3.09	2.89
	COP (Rated)	W/W	4.49	4.39
	SEER	Wh/Wh	8.25	7.96
	SCOP	Wh/Wh	5.08	5.23
Outdoor Fan	Type		Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	(320 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive		Direct	Direct
	Output	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 2	5,300 x 2
	Oil Type		FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type		Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 1 + (930 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1 + (930 x 1,745 x 760) x 1
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 1 + (965 x 1,919 x 802) x 1	(1,282 x 1,919 x 802) x 1 + (965 x 1,919 x 802) x 1
Weight	Net	kg	(255 x 1) + (215 x 1)	(255 x 1) + (215 x 1)
	Shipping	kg	(265 x 1) + (225 x 1)	(265 x 1) + (225 x 1)
Refrigerant	Type		R32	R32
	Precharged Amount	kg	19.9	19.9
	t-CO <sub>2</sub> eq.		13.433	13.433
	Control Type		EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery) High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	62.5	62.8
	Heating	dB (A)	63.5	63.8
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	83.5	86.2
	Heating	dB (A)	84.5	86.8
Connecting Cable	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	0.75 - 1.5 x 2C	0.75 - 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	42 (64)	45 (56)

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

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



## Highlights



Energy savings



Reliability

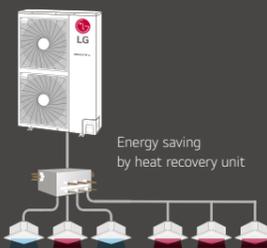


Convenience

- Air cooled VRF Heat pump & Heat Recovery
- 9.0 - 33.6kW (Cooling capacity based)
- Both 1Ø, 220 - 240V, 50Hz and 3Ø, 380 - 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge

## How does it work?

Available in Heat Pump and Heat Recovery Models



Combination of Cooling, Heating and Hot Water Solution



※ Heat Pump and Recovery are separated models.

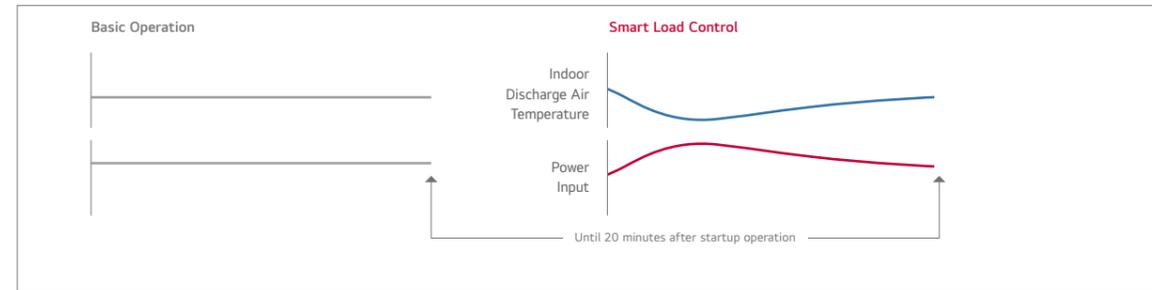
# Smart Load Control Applied

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

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



## Startup Operation

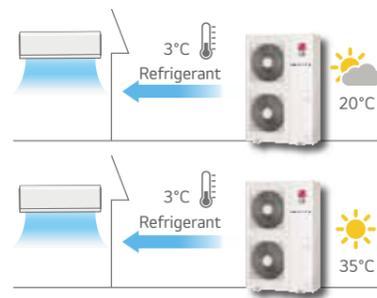


Max 10% Energy saving

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

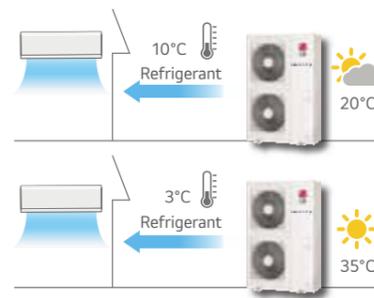
## Real Time Operation

Basic Operation



Fixed refrigerant temperature

Smart Load Control



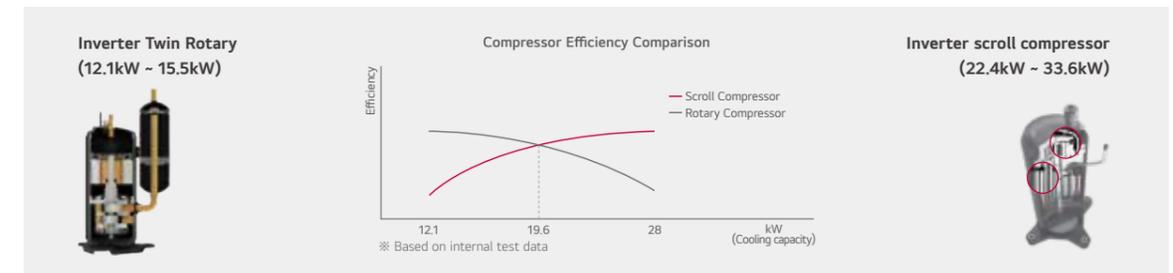
Fixed refrigerant temperature

Max 13% Energy saving

※ How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.  
 - Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35°C (DB) / 30°C (DB) / 25°C (DB) / 20°C (DB)  
 - Indoor temperature condition : 27°C (DB) / 19°C (WB)  
 ※ Dual sensing (Temperature & humidity) smart load control is possible with Remote controller  
 PTEMTB100 (White) / PREMTBB11 (Black)

# Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficiency compressor according to capacity



## Inverter Twin Rotary

### Concentrated Winding Motor

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



### Twin Rotary Rotor

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



### Surface Coating

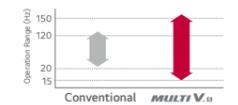
A surface coating with exceptional abrasion resistance properties is applied to the vane and crankshaft.



## Inverter scroll compressor

### Best-in-class Compressor Speed

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



### 6 Bypass Valve

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



### Direct Oil Injection

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

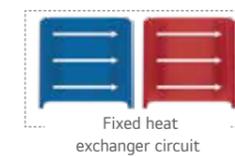
### Scroll Profile

- Enhanced reliability with regulated oil supply  
 - Efficiency is enhanced through a 96% expansion of the bypass area and a 17% improvement in volume ratio achieved by incorporating non-uniform scroll thickness

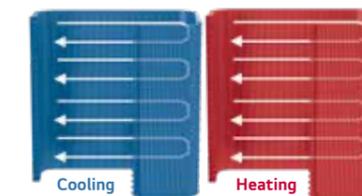
# Optimal Heat Exchanger

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

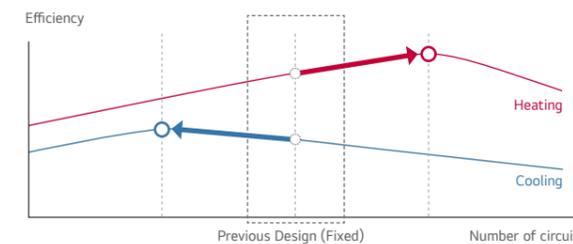
Variable Heat Exchanger Circuit intelligently selects the optimal path. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved.



Fixed heat exchanger circuit

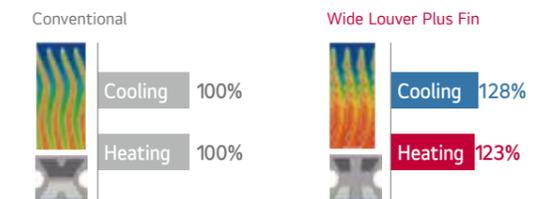


## Efficiency performance



## Efficiency up due to Fin shape

Up to 28% improved heat exchanger efficiency



# High Efficiency

The new MULTI V S has high SEER and SCOP values by applying the 5<sup>th</sup> generation inverter scroll compressor

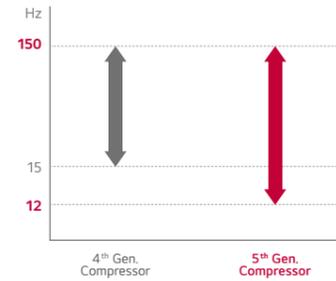
\* Only for 8, 10, 12HP



### Wider Frequency Range

The frequency range of the compressor is widened from 12 to 150 Hz.  
→ Partial load performance is improved.

### Comparison of Compressor Frequency



### Higher Performance

The partial load efficiency of the 5<sup>th</sup> Gen. Compressor is about 5% higher than that of the 4<sup>th</sup> Gen. Compressor.

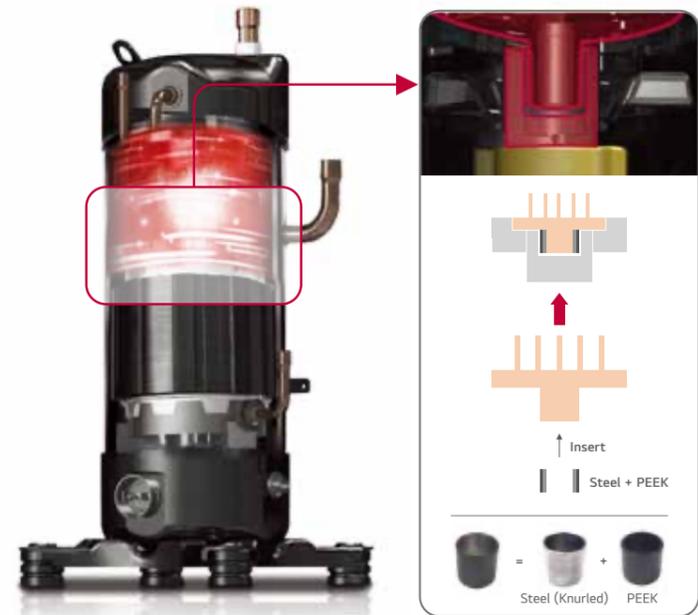
Inverter Scroll Compressor	4 <sup>th</sup> gen.	5 <sup>th</sup> gen.	
CHEER Conditions	30 Hz	100%	105%
	60 Hz	100%	105%
ARI Conditions	90 Hz	100%	104%
	120 Hz	100%	108%

※ The above compressor comparison is based on ARUN120LSS0 and ARUN120LSS5 compressors.  
 ※ CHEER : Copeland High EER (Condensation Temp. : 37.9°C / Evaporation Temp. : 7.2°C / Return Gas Temp. : 18.3°C / Liquid Temp. : 29.5°C / Ambient Temp. : 35.0°C)  
 ※ ARI : Air-conditioning & Refrigeration Institute (Condensation Temp. : 54.4°C / Evaporation Temp. : 7.2°C / Return Gas Temp. : 18.3°C / Liquid Temp. : 46.1°C / Ambient Temp. : 35.0°C)  
 ※ The efficiency data is taken from the Eurovent certified product directory.  
 → MULTI V S : ARUN\*\*LSS5 // D Com. : RXYSQ\*\*TY1 // ME Com. : FDC\*\*\*KXZME1(A)

# Reliable Inverter Compressor

The new MULTI V S is equipped with the 5<sup>th</sup> generation compressor which has an outer bearing structure for high reliability. And the outer bearing is composed of steel and PEEK.

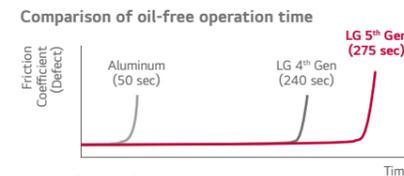
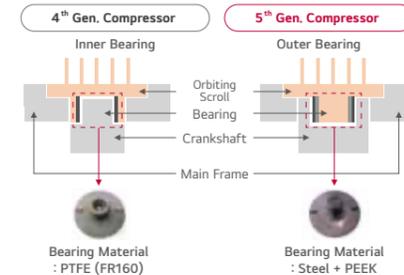
\* Only for 8, 10, 12HP



\* PEEK : Polyether Ether Ketone

### Enhanced Bearing Technology

- Reduced vibration and bearing loads  
: Outer bearing structure
- High heat tolerance & high stiffness material for bearing : Steel (Inside) + PEEK (Outside)
- Increased bearing performance in oil-free operation



※ Internal test result.  
 ※ Bearing oil blocking test (Oil blocking at 60 Hz)

※ The PEEK is a semi-crystalline thermoplastic with excellent mechanical and chemical resistance properties that are retained to high temperatures.  
 ※ The above images are for customer understanding, and may differ from the actual parts.

# Reliable Refrigerant Components

LG technology allows for superior performance and component durability

#### 1 Cyclonic oil separator

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

#### 2 Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (38% more volume compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction
- Maximized efficiency with optimal usage of refrigerant
- Protects compressor breakdown to increase product lifetime

#### 3 BLDC Fan Motor

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

#### 4 Double Sub-cool Interchanger

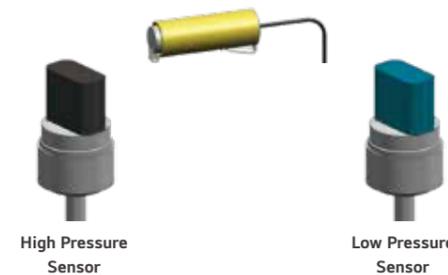
- Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size
- Long pipe is possible (up to\* 175m) and high elevation (up to\* 50m)
- Reduction of indoor refrigerant noise level

# Smart Control

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

### Temperature + Pressure Control

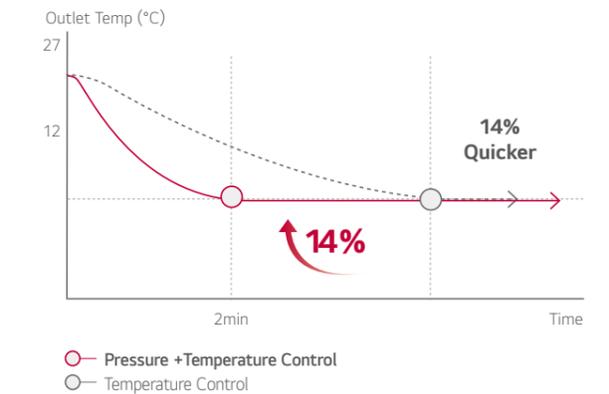
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



### Quick Operating Response

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

※ Specifications may vary for each model.



## Corrosion Resistant Black Fin

*Strong durability against high salinity and heavily polluted air*

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

### Corrosion Resistance Proven by Certified Tests

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

#### Certified protection



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

### Enhanced Coating Layers

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

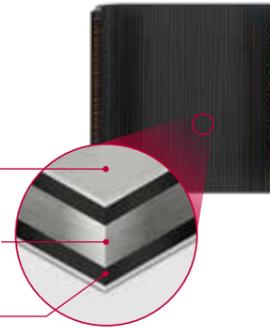
#### Hydrophilic Coating (Water flow)

The Hydrophilic coating minimizes moisture buildup on the fin.

#### Complex Resin (Corrosion resistant)

The Black coating provides strong protection from corrosion.

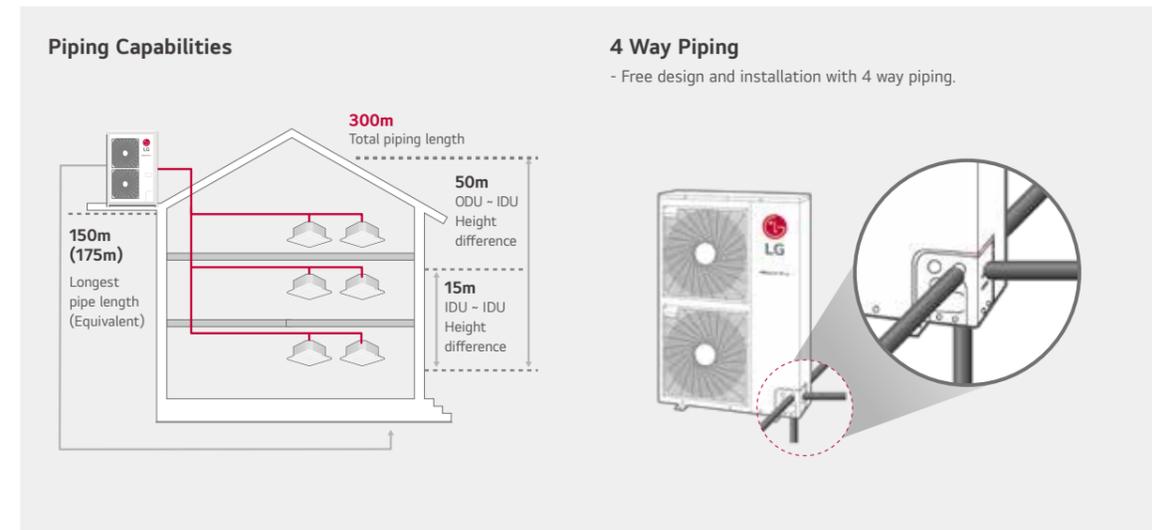
#### Aluminum fin



## Sufficient Piping Length

*Increased piping length allows for flexible design and installation*

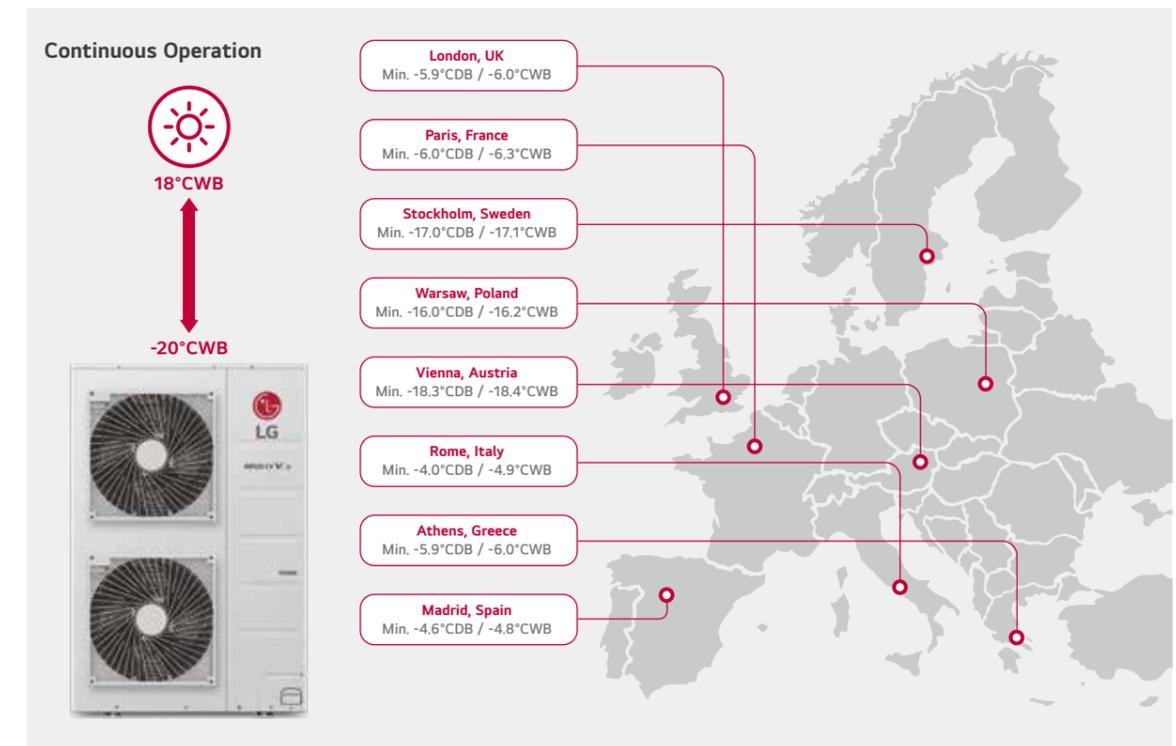
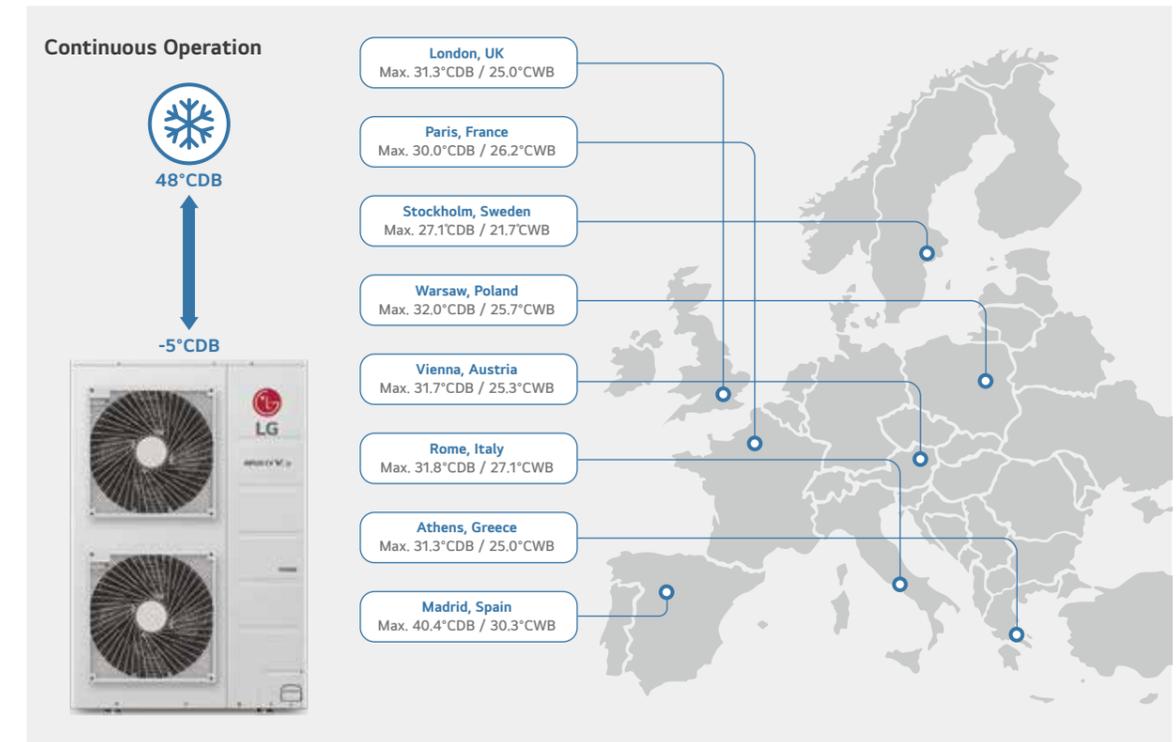
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and ensuring efficient designs.



## Wide Operation Ranges (Cooling & Heating)

*With wide operation ranges, MULTI V S can operate continuously in many European countries*

\* Only for 8, 10, 12HP

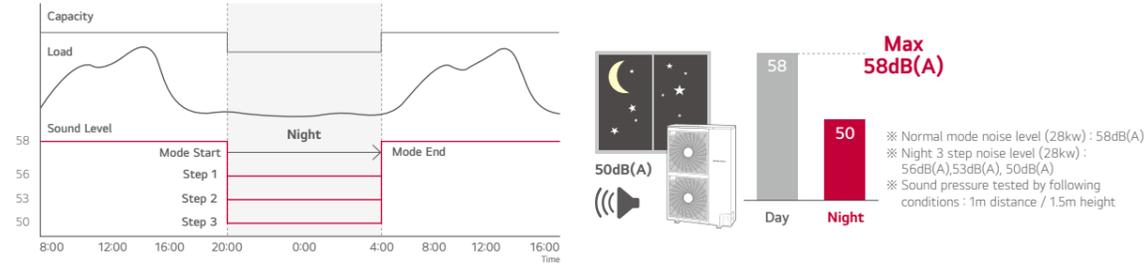


※ The source of weather data is TMY (Typical Meteorological Year) data. The TMY data contains one year of hourly data that best represents weather conditions over many years.

# Low Noise Operation

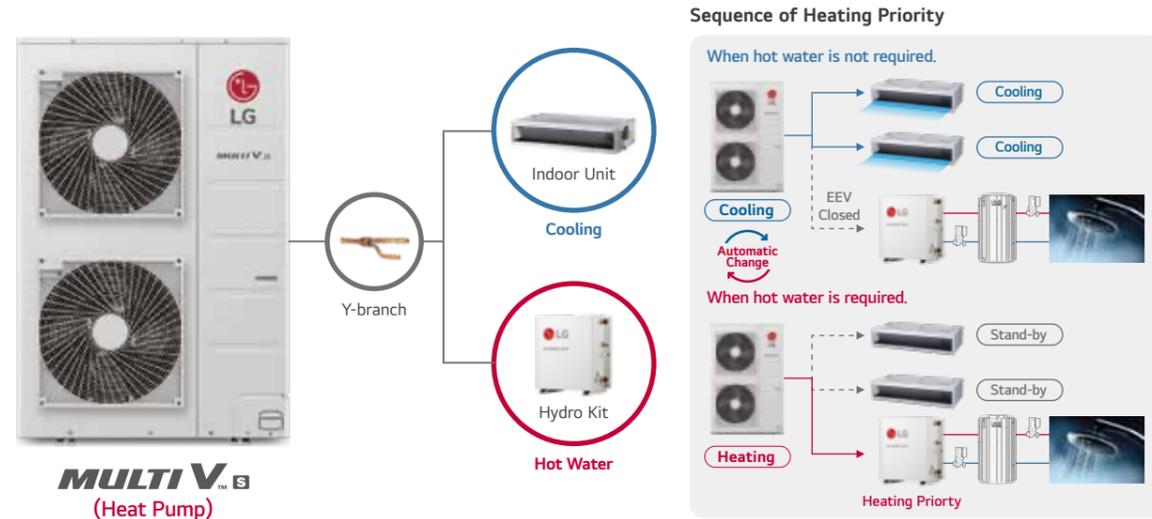
Decreased noise during operation with low noise functionality

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



# Heating Priority

MULTI V S provides hot water during the cooling season with a heating priority function which automatically changes operation modes when hot water is required.



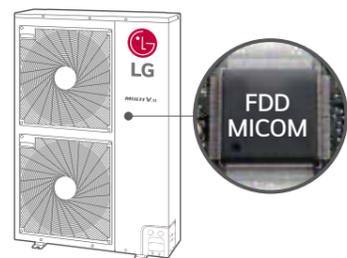
※ This function is available only when the dip switch of the outdoor unit and wired remote controller of the indoor unit & hydro kit are set.  
(ODU : Dip Switch No.5 On → Fn25 → Heat → On) // (IDU : Installer Setting → ODU Cycle Priority → Stand-by) // (Hydro Kit : Installer Setting → ODU Cycle Priority → Heat)  
※ The above images are for customer understanding.

# Upgraded Fault Detection and Diagnosis

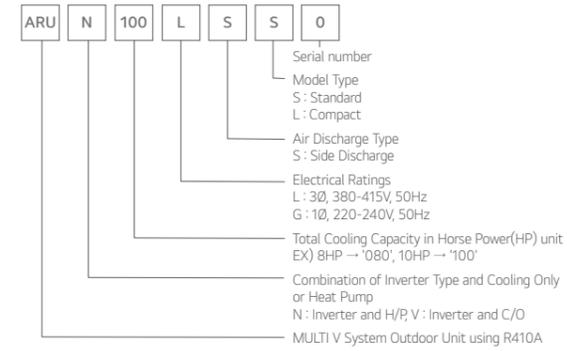
Easy and convenient maintenance with self-diagnosis

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

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



## Nomenclature

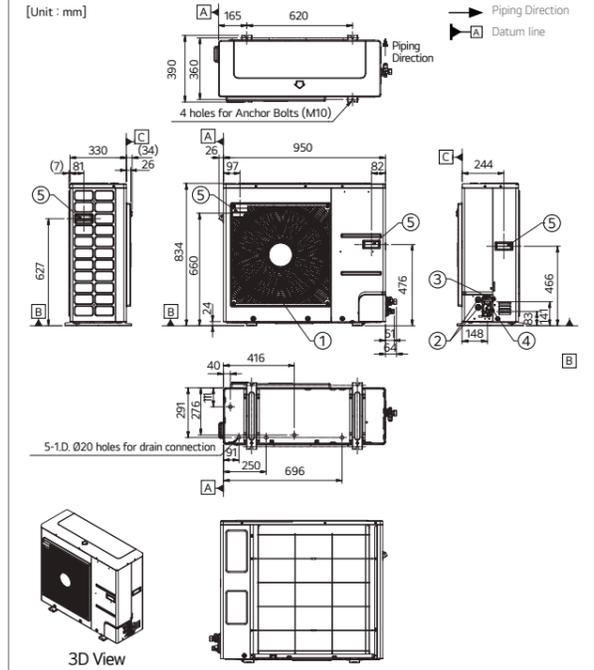


## Outdoor Units Function

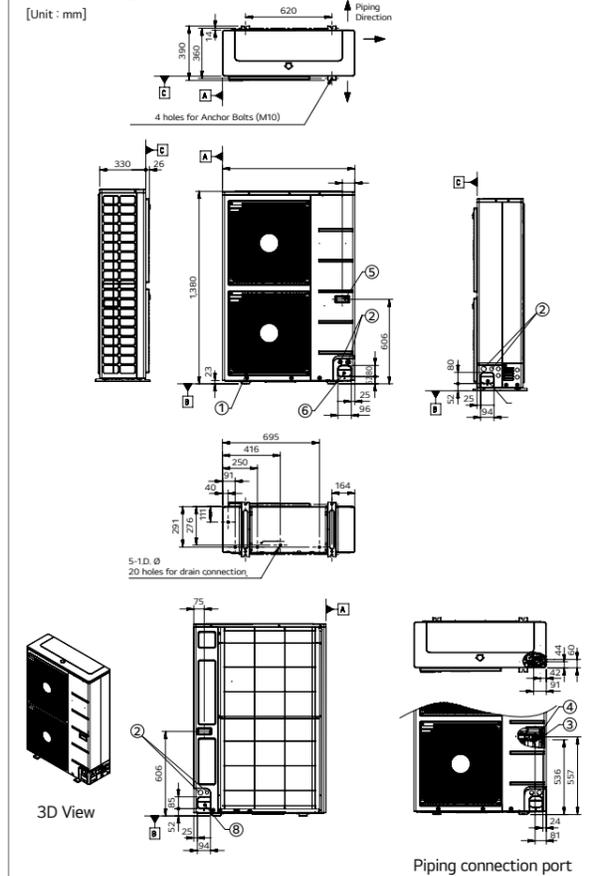
Category	Functions	MULTI V S
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	ARUB060GSS4 only
	Corrosion Resistance Black Fin	○
	Oil Sensor	-
Special Function	Dual Sensing	ARUB060GSS4 only
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	-
Basic Function	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	ARUB060GSS4 only
	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	-
Central Controller	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACSSA000
	ACP (Advanced Control Platform) IV	PACP4B000
BNU (Building Network Unit)	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACMSA000
IO Module (ODU Dry Contact)	ACP5 (w U60FT)	○
	ACP BACnet	PQNF17C0
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQNUD1S40
Cool / Heat Selector	Standard	PRDSBM
	Mobile LGMV	PRCTILO
Cycle Monitoring Device	Standard	PLGMVW100
	Refrigerant Charging Kit	(Logical operation) Not applied to ARUB060GSS4
Additional kit	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	-

※ ○ : Applied, - : Not Applied

## ARUN040GSS0



## ARUN080LSS5



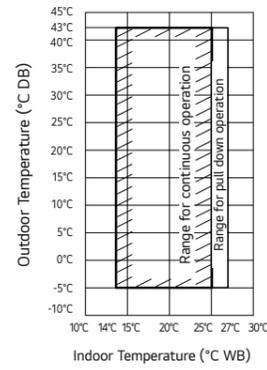
Note

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

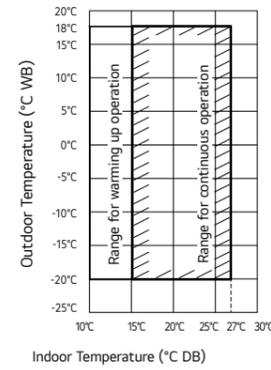
No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Welding joint
4	Liquid Pipe Connection	Welding joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

Heat Pump

Cooling

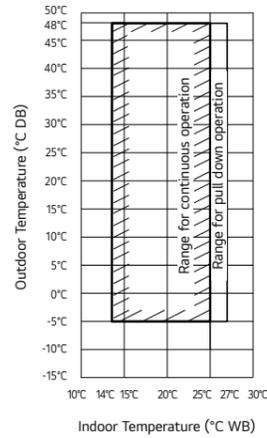


Heating

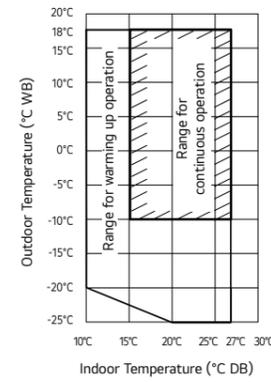


Heat Recovery

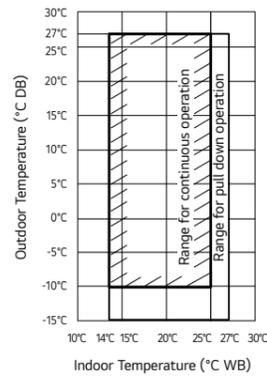
Cooling



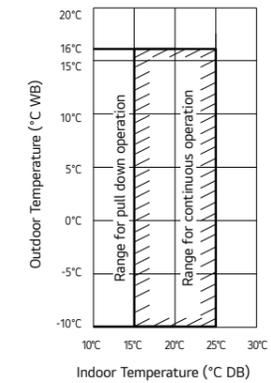
Heating



Simultaneous Cooling

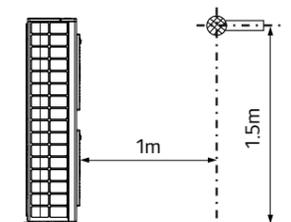


Simultaneous Heating



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

Position of Sound Level Measuring



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

ARUN040GSS0



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

HP			4
<b>Model Name</b>			ARUN040GSS0
<b>Capacity</b>	Cooling (Rated)	kW	12.1
	Heating (Rated)	kW	12.5
<b>Input</b>	Cooling (Rated)	kW	4.03
	Heating (Rated)	kW	3.10
<b>EER</b>			3.00
<b>SEER</b>			5.63
<b>COP</b> Rated Capacity			4.03
<b>SCOP</b>			3.97
<b>Exterior</b>	Color (General)		Warm Gray
	RAL Code (Classic)		RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus
	Type		BLDC Inverter Twin Rotary
<b>Compressor</b>	Combination x No.		(Inverter) x 1
	Motor Output x Number	W x No.	4,000 x 1
	Oil Type		FW60L (PVE)
<b>Fan</b>	Oil Charge	cc	1,300
	Type		Axial Flow Fan
<b>Pipe Connection</b>	Motor Output x Number	W x No.	124 x 1
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	60
	Drive		DC INVERTER
<b>Dimensions (W x H x D)</b>	Discharge	Side / Top	Side
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
<b>Dimensions (W x H x D) - Shipping</b>	Gas Pipe	mm (inch)	Ø15.88 (5/8)
			950 x 834 x 330
<b>Net Weight</b>			(1,065 x 918 x 461) x 1
<b>Shipping Weight</b>			70
<b>Sound Pressure Level*</b>	kg x No.		77 x 1
	Cooling	dB(A)	50
<b>Sound Power Level</b>	Heating	dB(A)	52
	Cooling	dB(A)	72
<b>Communication Cable</b>	Heating	dB(A)	75
		mm <sup>2</sup> x No. (VCTF-SB)	2C x 1.0 - 1.5
<b>Refrigerant</b>	Refrigerant Name		R410A
	Precharged Amount in factory		1.8
	t-CO <sub>2</sub> eq		3.758
	Control		Electronic Expansion Valve
<b>Power Supply</b>			220-240 , 1 , 50
			220, 1, 60
<b>Number of Maximum Connectable Indoor Units</b>			8

\*: Sound Pressure is not a value declared on Eurovent Program.  
 Note  
 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.  
 - Refer to EUROVENT certification regulation for more detail test conditions.  
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.  
 2. Performances are based on the following conditions :  
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB  
 3. The maximum combination ratio is 160%.  
 4. Wiring cable size must comply with the applicable local and national codes.  
 5. Due to our policy of innovation some specifications may be changed without notification.  
 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.  
 Therefore, these values can be increased owing to ambient conditions during operation.  
 7. Power factor could vary less than ±1% according to the operating conditions.  
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN050GSS0 / ARUN060GSS0



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

HP			5	6
<b>Model Name</b>			ARUN050GSS0	ARUN060GSS0
<b>Capacity</b>	Cooling (Rated)	kW	14.0	15.5
	Heating (Rated)	kW	16.0	18.0
<b>Input</b>	Cooling (Rated)	kW	4.59	5.17
	Heating (Rated)	kW	4.18	5.00
<b>EER</b>			3.05	3.00
<b>SEER</b>			7.40	7.53
<b>COP</b> Rated Capacity			3.83	3.60
<b>SCOP</b>			4.16	4.35
<b>Exterior</b>	Color (General)		Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus	Wide Louver Plus
	Type		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1	(Inverter) x 1
<b>Compressor</b>	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1
	Oil Type		FW60L (PVE)	FW60L (PVE)
	Oil Charge	cc	1,300	1,300
<b>Fan</b>	Type		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	110	110
	Drive		DC INVERTER	DC INVERTER
	Discharge		Side / Top	Side
<b>Pipe Connection</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
<b>Dimensions (W x H x D)</b>		mm x No.	950 x 1,380 x 330	950 x 1,380 x 330
<b>Dimensions (W x H x D) - Shipping</b>		mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
<b>Net Weight</b>		kg x No.	94	94
<b>Shipping Weight</b>		kg x No.	106	106
<b>Sound Pressure Level*</b>	Cooling	dB(A)	51	52
	Heating	dB(A)	53	54
<b>Sound Power Level</b>	Cooling	dB(A)	72	72
	Heating	dB(A)	76	77
<b>Communication Cable</b>		mm <sup>2</sup> x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A
	Precharged Amount in factory	kg	3.0	3.0
	t-CO <sub>2</sub> eq		6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>		V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
<b>Number of Maximum Connectable Indoor Units</b>			10	13

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

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

ARUN040LSS0 / ARUN050LSS0  
ARUN060LSS0



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HP			4	5	6
<b>Model Name</b>			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
<b>Capacity</b>	Cooling (Rated)	kW	12.1	14.0	15.5
	Heating (Rated)	kW	12.5	16.0	18.0
<b>Input</b>	Cooling (Rated)	kW	3.39	4.59	5.17
	Heating (Rated)	kW	2.75	4.18	5.00
<b>EER</b>			3.57	3.05	3.00
<b>SEER</b>			7.42	7.40	7.53
<b>COP</b> Rated Capacity			4.55	3.83	3.60
<b>SCOP</b>			4.30	4.16	4.35
<b>Exterior</b>	Color (General)		Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
<b>Compressor</b>	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Oil Type		FW60L (PVE)	FW60L (PVE)	FW60L (PVE)
	Oil Charge	cc	1,300	1,300	1,300
<b>Fan</b>	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2	124 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	110	110	110
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	Side	Side
<b>Pipe Connection</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.883(5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
<b>Dimensions (W x H x D)</b>		mm x No.	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
<b>Dimensions (W x H x D) - Shipping</b>		mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
<b>Net Weight</b>		kg x No.	96	96	96
<b>Shipping Weight</b>		kg x No.	108	108	108
<b>Sound Pressure Level*</b>	Cooling	dB(A)	50	51	52
	Heating	dB(A)	52	53	54
<b>Sound Power Level</b>	Cooling	dB(A)	72	72	72
	Heating	dB(A)	76	76	77
<b>Communication Cable</b>		mm <sup>2</sup> x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in factory	kg	3.0	3.0	3.0
	t-CO <sub>2</sub> eq		6.263	6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>		V, Ø, Hz	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60	380-415, 3, 50 380, 3, 60
<b>Number of Maximum Connectable Indoor Units</b>			8	10	13

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

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

ARUN080LSS5 / ARUN100LSS5  
ARUN120LSS5



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

HP			8	10	12
<b>Model Name</b>			ARUN080LSS5	ARUN100LSS5	ARUN120LSS5
<b>Capacity</b>	Cooling (Rated)*	kW	22.4	28.0	33.5
	Heating (Rated)*	kW	22.4	28.0	33.5
	Heating (Max)*	kW	24.5	30.6	36.7
<b>Input</b>	Cooling (Rated)*	kW	7.83	9.69	12.01
	Heating (Rated)*	kW	5.82	6.81	9.05
<b>EER</b>			2.86	2.89	2.79
<b>SEER</b>			7.49	6.59	6.83
<b>COP</b> Rated Capacity			3.85	4.11	3.70
<b>SCOP</b>			4.76	4.42	4.45
<b>Exterior</b>	Color (General)		Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW60L (PVE)	FW60L (PVE)	FW60L (PVE)
	Oil Charge	cc	1,200	1,200	1,200
	Type		Propeller Fan	Propeller Fan	Propeller Fan
<b>Fan</b>	Motor Output x Number	W x No.	124 x 2	250 x 2	250 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	140	210	210
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
<b>Pipe Connection</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
<b>Dimensions (W x H x D)</b>			950 x 1,380 x 330	1,090 x 1,625 x 380	1,090 x 1,625 x 380
<b>Dimensions (W x H x D) - Shipping</b>			(1,140 x 1,549 x 466) x 1	(1,215 x 1,795 x 500) x 1	(1,215 x 1,795 x 500) x 1
<b>Net Weight</b>			114	139	152
<b>Shipping Weight</b>			126	154	166
<b>Sound Pressure Level*</b>	Cooling	dB(A)	57	58	60
	Heating	dB(A)	57	58	60
<b>Sound Power Level</b>	Cooling	dB(A)	73	75	77
	Heating	dB(A)	77	81	82
<b>Communication Cable</b>			2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
<b>Refrigerant</b>	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in factory	kg	3.5	4.5	6.0
	t-CO <sub>2</sub> eq		7.306	9.394	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	V, Ø, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60
<b>Number of Maximum Connectable Indoor Units</b>			13	16	20

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- EUROVENT Test Condition :
  - Performance values on this PDB are based on Ceiling mounted cassette combination.
  - Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- The maximum combination ratio is 160%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP (Global warming potential) = 2,087.5)

ARUB060GSS4



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

HP			6
<b>Model Name</b>			ARUB060GSS4
<b>Capacity</b>	Cooling (Rated)	kW	15.5
	Heating (Rated)	kW	18.0
<b>Input</b>	Cooling (Rated)	kW	5.74
	Heating (Rated)	kW	5.14
<b>EER</b>			2.70
<b>SEER</b>			5.92
<b>COP</b> Rated Capacity			3.50
<b>SCOP</b>			3.79
<b>Exterior</b>	Color		Warm Gray
	RAL Code (Classic)		RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus
	Type		Hermetically Sealed Scroll
<b>Compressor</b>	Combination x No.		(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1
	Oil Type		FW60L (PVE)
	Oil Charge	cc	1,700
<b>Fan</b>	Type		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	110
	Drive		DC INVERTER
<b>Pipe Connection #1</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
<b>Dimensions (W x H x D)</b>			950 x 1,380 x 330
<b>Dimensions (W x H x D) - shipping</b>			(1,140 x 1,549 x 466) x 1
<b>Net Weight</b>			118
<b>Shipping Weight</b>			132
<b>Sound Pressure Level*</b>	Cooling	dB(A)	56
	Heating	dB(A)	58
<b>Sound Power Level</b>	Cooling	dB(A)	76
	Heating	dB(A)	78
<b>Communication Cable</b>			2C x 1.0 ~ 1.5
<b>Refrigerant</b>	Refrigerant Name		R410A
	Precharged Amount in factory	kg	3.5
	t-CO <sub>2</sub> eq		7.306
	Control		Electronic Expansion Valve
<b>Power Supply</b>			V, Ø, Hz
			220-230-240, 1, 50/60
<b>Number of Maximum Connectable Indoor Units</b>			13

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

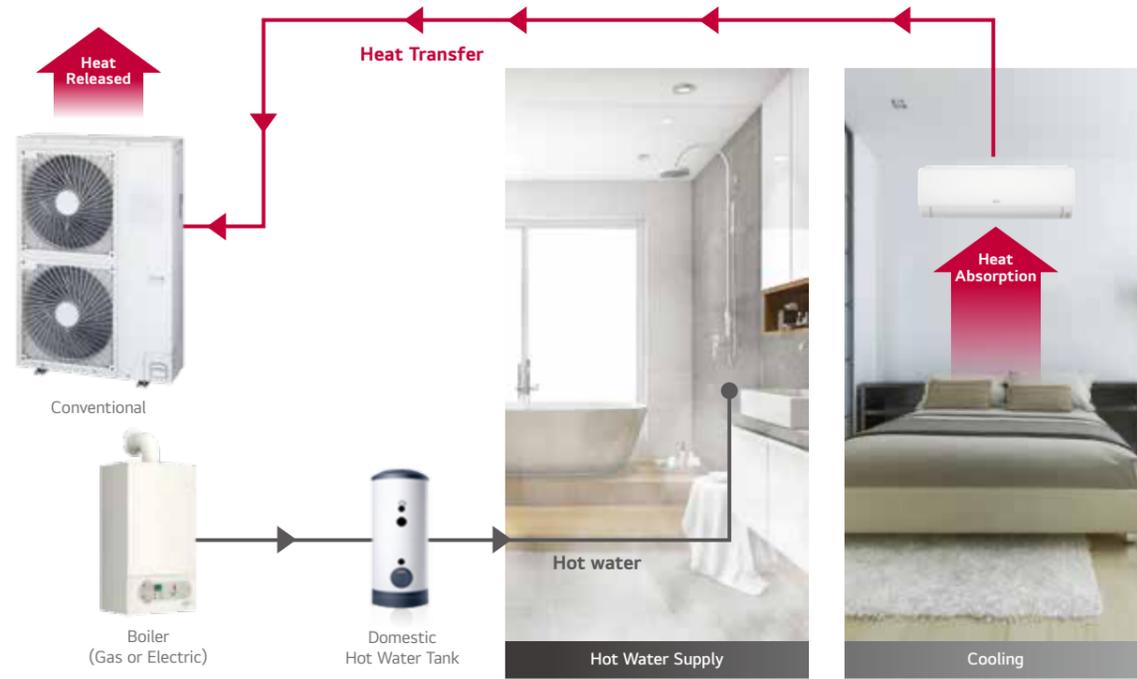
- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
  - Refer to EUROVENT certification regulation for more detail test conditions.
  - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
- Performances are based on the following conditions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

## Energy Savings

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

### Conventional

Absorbed heat is released to outdoor air.



## Energy Savings

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

### MULTI V S Heat Recovery with HYDRO KIT

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



# MULTI V™ S R32

- Air cooled VRF Heat pump
- 9.0 ~ 15.5kW (based on cooling capacity)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit



## Compact Size & Light Weight

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



## Less Refrigerant Charge

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



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

WHY R32 REFRIGERANT

## Lower Global Warming Potential (GWP)

### What is GWP?

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



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

HFC\* Phase Down 79% by 2030.



## Cost Savings with R32

### Higher Efficiency

Savings on cost of energy consumption.



### Reduced Equipment Sizes

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



### Less Refrigerant Charge

Savings on cost of injecting & replacing refrigerant.



### Reduced Refrigerant Volume

Savings on refrigerant purchase and recycling costs.



## Corrosion Resistant Black Fin

### Enhanced Coating Layers

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



- Hydrophilic Coating (Water flow)**  
The Hydrophilic coating minimizes moisture buildup on the fin.
- Complex Resin (Corrosion resistant)**  
The Black coating provides strong protection from corrosion.
- Aluminum fin**

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

WHY MULTI V S R32

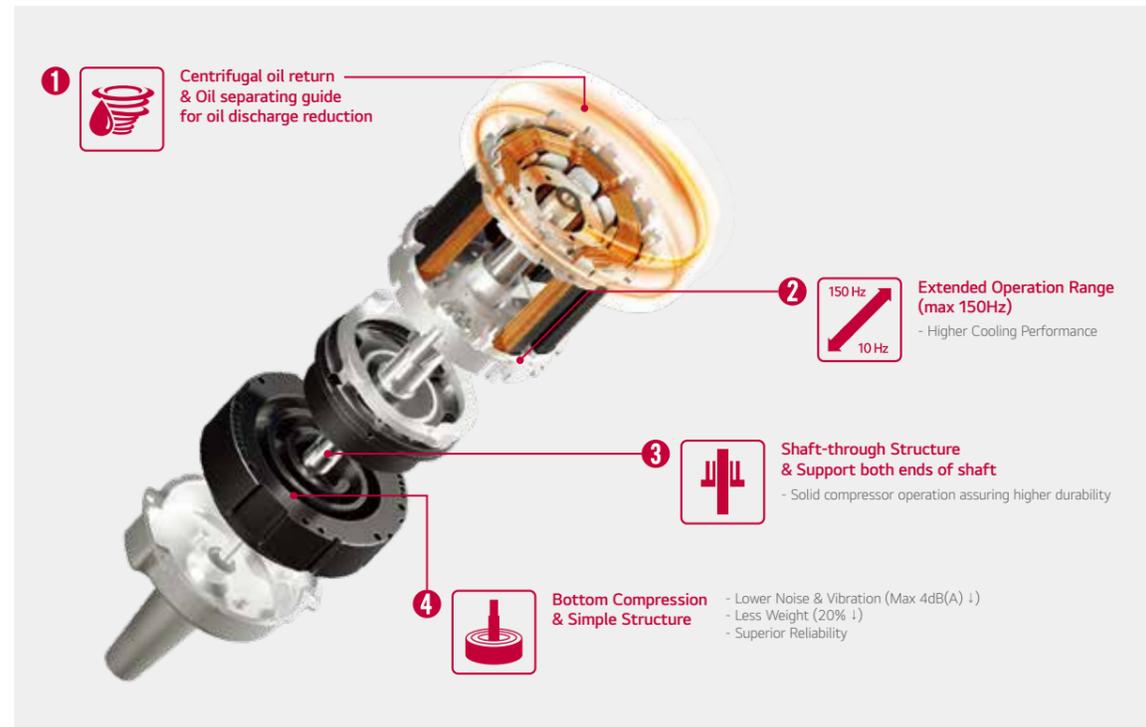
OUTDOOR UNITS

MULTI V S



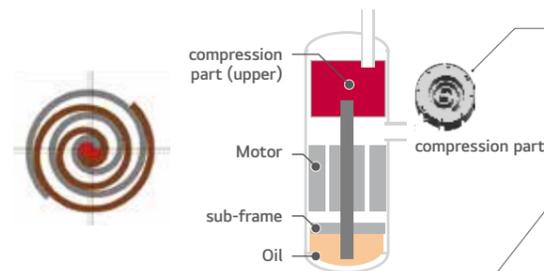
# R1 Compressor™

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

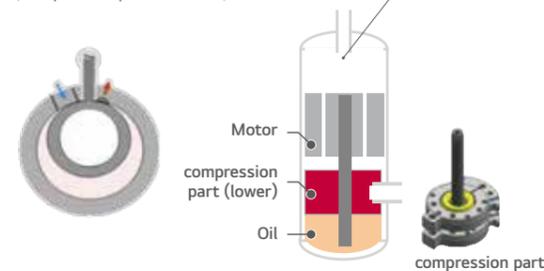


## Conventional Compressor

**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**



ZRUN030GSSO / ZRUN040GSSO  
ZRUN050GSSO / ZRUN060GSSO

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

HP			3	4	5	6
<b>Model Name</b>			ZRUN030GSSO	ZRUN040GSSO	ZRUN050GSSO	ZRUN060GSSO
<b>Capacity</b>	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
<b>Input</b>	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
	Heating (Rated)	kW	2.09	3.03	3.48	3.95
<b>EER (Rated)</b>			3.20	2.84	2.86	2.75
<b>SEER</b>			5.70	6.69	6.44	6.59
<b>COP (Rated)</b>			4.30	4.00	4.02	3.92
<b>SCOP</b>			3.90	4.00	3.81	4.07
<b>Exterior</b>	Color		Warm Gray	Warm Gray	Warm Gray	Warm Gray
	RAL Code		RAL 7044	RAL 7044	RAL 7044	RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
<b>Compressor</b>	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW60L (PVE)	FW60L (PVE)	FW60L (PVE)	FW60L (PVE)
	Oil Charge	cc	1,100	1,100	1,100	1,100
	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
<b>Fan</b>	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	60	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
<b>Pipe Connection</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
<b>Dimensions (W x H x D)</b>	mm x No.	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330	
<b>Dimensions (W x H x D) - Shipping</b>	mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461	
<b>Net Weight</b>	kg x No.	64.7	64.7	71.6	71.6	
<b>Shipping Weight</b>	kg x No.	73.7	73.7	79.6	79.6	
<b>Sound Pressure Level*</b>	Cooling	dB(A)	51	51	57	57
	Heating	dB(A)	55	55	60	60
<b>Sound Power Level</b>	Cooling	dB(A)	67	67	70	71
	Heating	dB(A)	70	71	74	75
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)		2C x 1.0 ~ 1.5			
<b>Refrigerant</b>	Refrigerant name		R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
	t-CO <sub>2</sub> eq		1.013	1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	V, Ø, Hz		220 - 230 - 240, 1, 50	220 - 230 - 240, 1, 50	220 - 230 - 240, 1, 50	220 - 230 - 240, 1, 50
<b>Number of maximum connectable indoor units</b>			6	8	10	13

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

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

4. Performances are based on the following conditions :

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

ZRUN030LSSO / ZRUN040LSSO  
ZRUN050LSSO / ZRUN060LSSO

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

HP			3	4	5	6
<b>Model Name</b>			ZRUN030LSSO	ZRUN040LSSO	ZRUN050LSSO	ZRUN060LSSO
<b>Capacity</b>	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
<b>Input</b>	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
	Heating (Rated)	kW	2.09	3.03	3.48	3.95
<b>EER (Rated)</b>			3.20	2.84	2.86	2.75
<b>SEER</b>			5.70	6.69	6.44	6.59
<b>COP (Rated)</b>			4.30	4.00	4.02	3.92
<b>SCOP</b>			3.90	4.00	3.81	4.07
<b>Exterior</b>	Color		Warm Gray	Warm Gray	Warm Gray	Warm Gray
	RAL Code		RAL 7044	RAL 7044	RAL 7044	RAL 7044
<b>Heat Exchanger</b>	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
<b>Compressor</b>	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW60L (PVE)	FW60L (PVE)	FW60L (PVE)	FW60L (PVE)
	Oil Charge	cc	1,100	1,100	1,100	1,100
	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
<b>Fan</b>	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m <sup>3</sup> /min x No.	60	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
<b>Pipe Connection</b>	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
<b>Dimensions (W x H x D)</b>	mm x No.	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330	
<b>Dimensions (W x H x D) - Shipping</b>	mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461	
<b>Net Weight</b>	kg x No.	64.7	64.7	71.6	71.6	
<b>Shipping Weight</b>	kg x No.	73.7	73.7	79.6	79.6	
<b>Sound Pressure Level*</b>	Cooling	dB(A)	51	51	57	57
	Heating	dB(A)	55	55	60	60
<b>Sound Power Level</b>	Cooling	dB(A)	67	67	70	71
	Heating	dB(A)	70	71	74	75
<b>Communication Cable</b>	mm <sup>2</sup> x No. (VCTF-SB)		2C x 1.0 ~ 1.5			
<b>Refrigerant</b>	Refrigerant name		R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
	t-CO <sub>2</sub> eq		1.013	1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
<b>Power Supply</b>	V, Ø, Hz		380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
<b>Number of maximum connectable indoor units</b>			6	8	10	13

\*: Sound Pressure is not a value declared on Eurovent Program.

Note

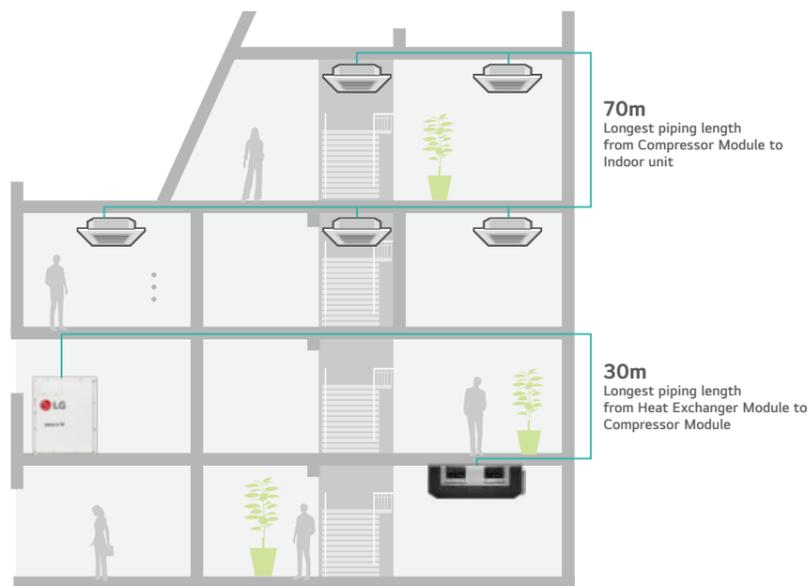
- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker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

4. Performances are based on the following conditions :

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

# MULTI V™ M

**140m**  
Total Piping Length



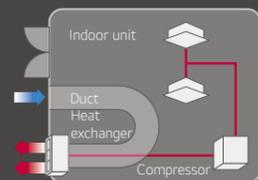
## Highlights

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

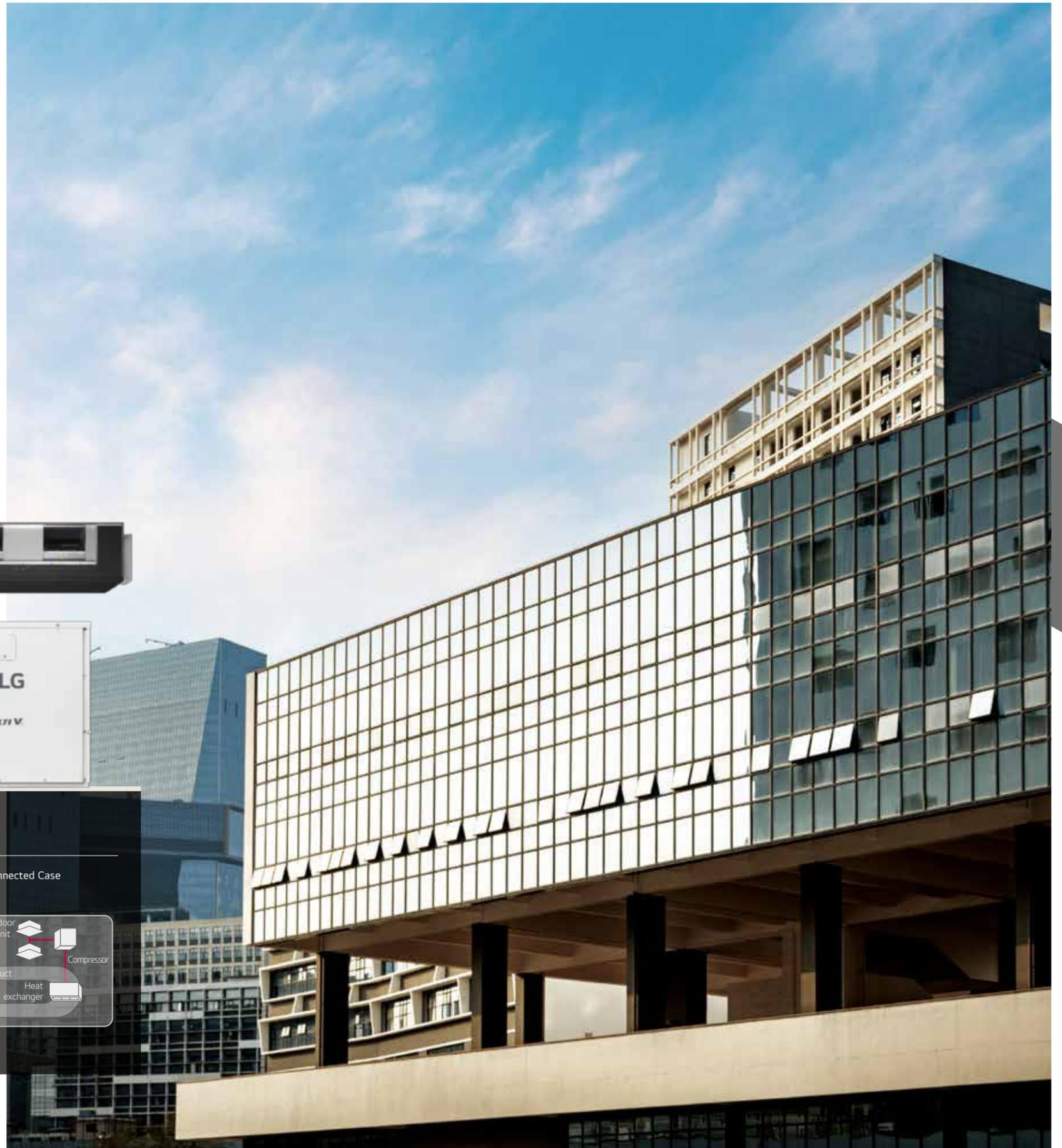
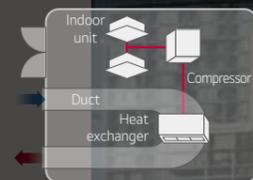
- Air Cooled VRF Heat Pump
- 14kW (based on cooling capacity)
- 3Ø, 380 - 415V, 50Hz (Compressor Module)
- 1Ø, 220 - 240V, 50Hz (Heat Exchanger Module)
- Outdoor unit is installed inside building

## How does it work?

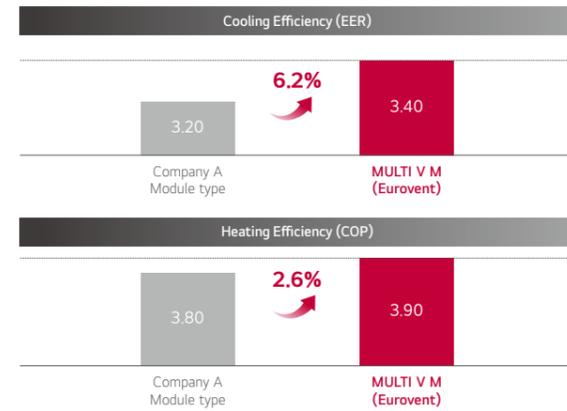
### Direct Inlet / Outlet Case



### Duct Connected Case

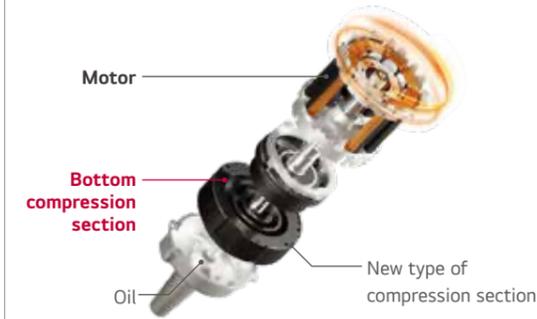


## Energy Efficiency



## R1 Compressor™

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



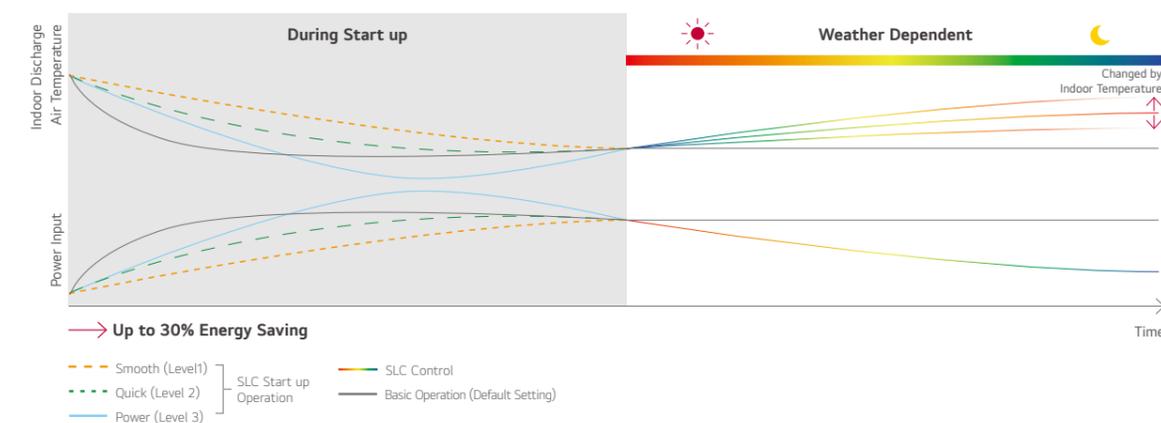
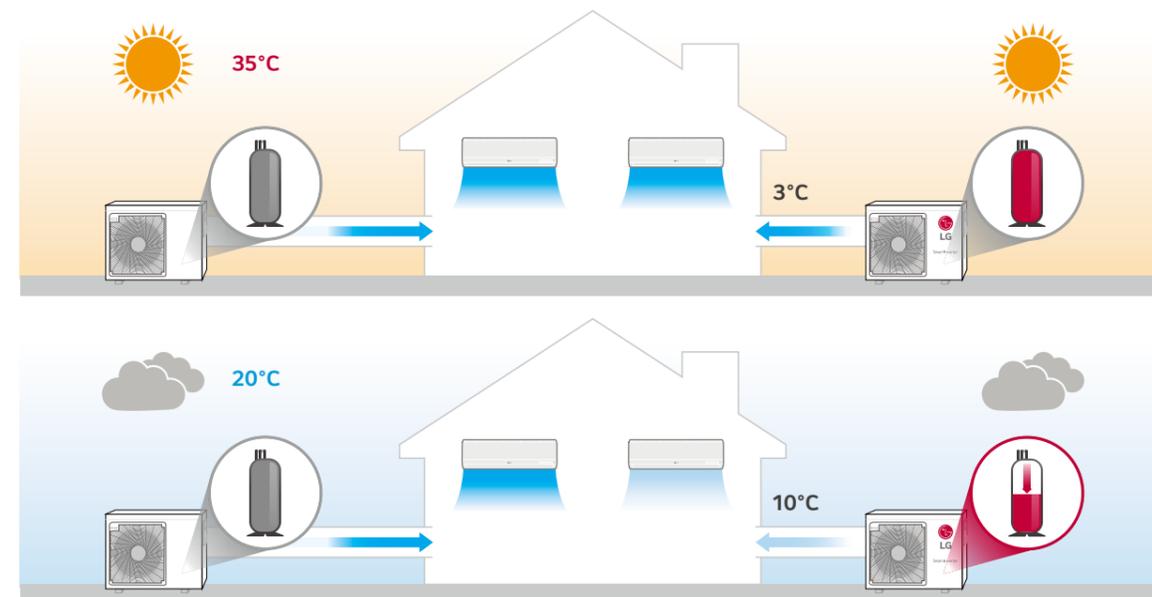
## Wide Louver Plus Fin + Corrosion Resistance

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



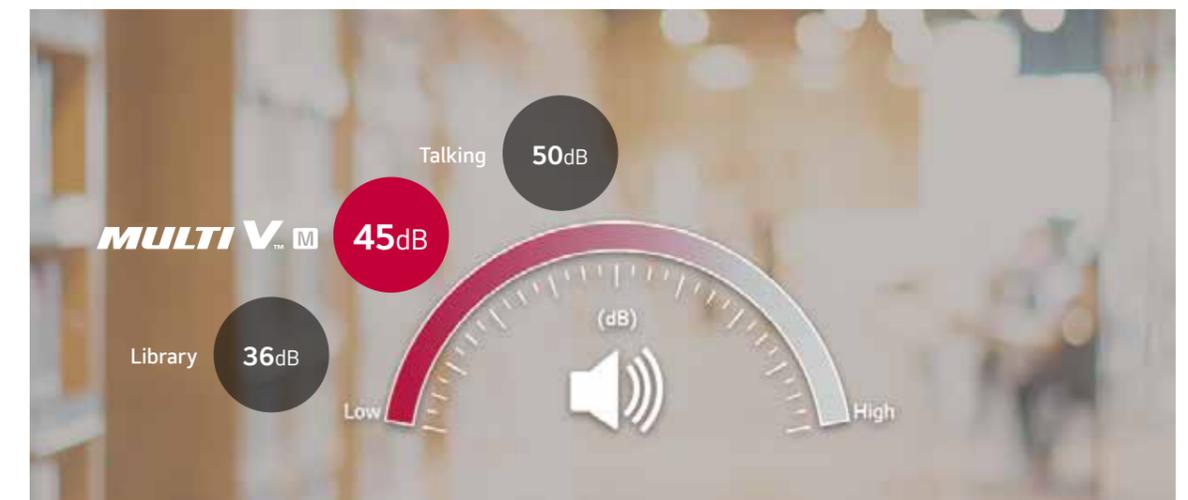
## Smart Load Control

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



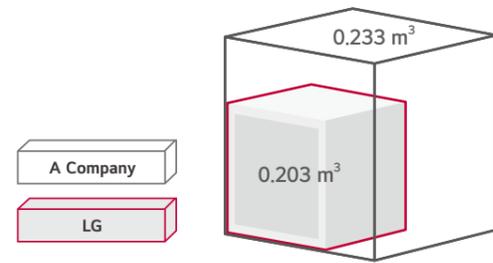
## Quiet Operation

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

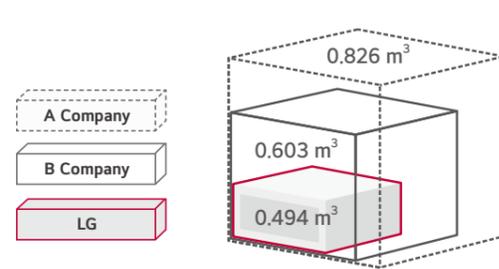


## Volume

### Compressor Module



### Heat Exchanger Module



## ESP Control

(External Static Pressure)

up to 30 Pa



Normal Mode

up to 157 Pa (max)

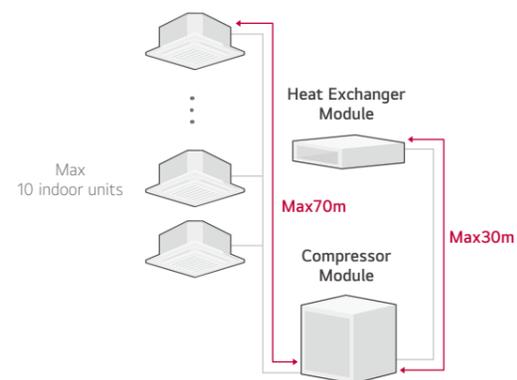


High Static Pressure Mode

## Module Type

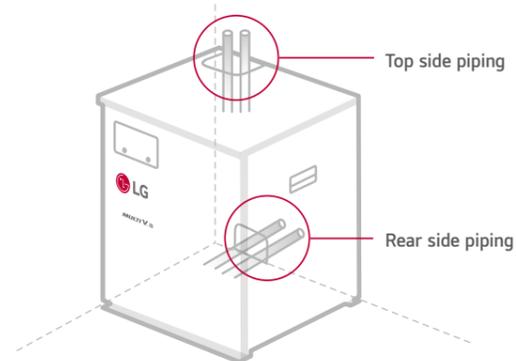
Increased design freedom

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



## Flexible Piping Location

Tidy & simple installation with flexible piping location.



## Increased Design Freedom

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



Conventional Outdoor Unit



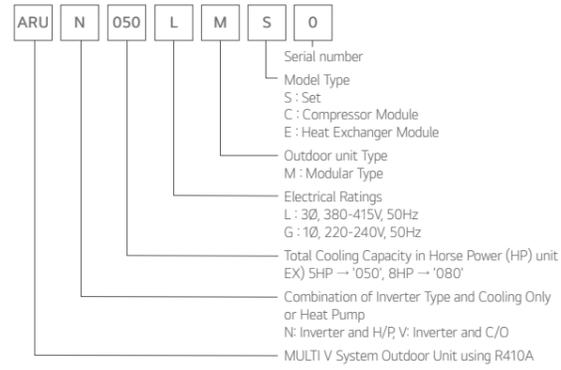
**MULTI V M**

Heat exchanger module can be installed in false ceiling spaces

Compressor module can be installed anywhere indoors



Nomenclature

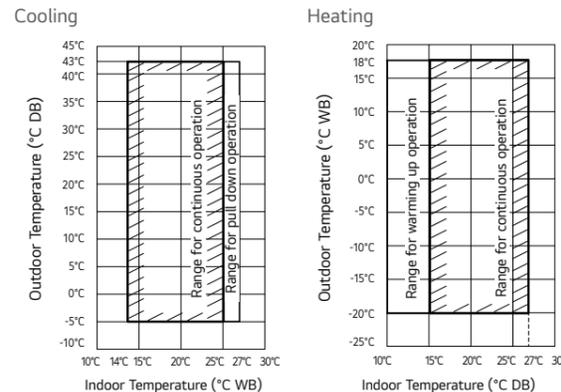


Outdoor Units Function

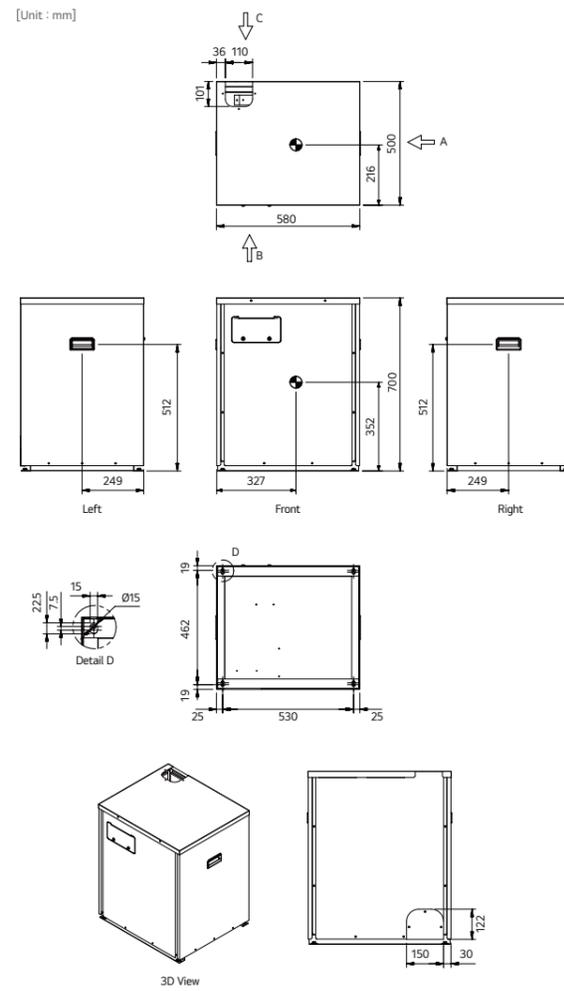
Category	Functions	Modular
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	-
	Corrosion Resistance Black Fin	○
Useful Function	Oil Sensor	-
	Dual Sensing	-
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	-
	Defrost / Deicing	○
Reliability	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
Central Controller	Soft Start	○
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ25050
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACSSA000
	ACP (Advanced Control Platform) IV	PACP4B000
ACP (Advanced Control Platform) 5	PACP5A000	
AC Manager 5	PACM5A000	
BNU (Building Network Unit)	ACP5 (w U60FT)	○
	ACP BACnet	PQNFB17C0
Installation	Refrigerant Charging Kit	-
	Variable Water Flow Valve Control Kit	-
PDI (Power Distribution Indicator)	Standard	-
	Premium	-
Cool / Heat Selector	PRDSBM	
Low Ambient Kit	-	
IO Module (ODU Dry Contact)	PVDSMN000	
Cycle Monitoring Device	LGMV	PRCTILO
	Mobile LGMV	PLGMVV100

※ ○ : Applied, - : Not Applied

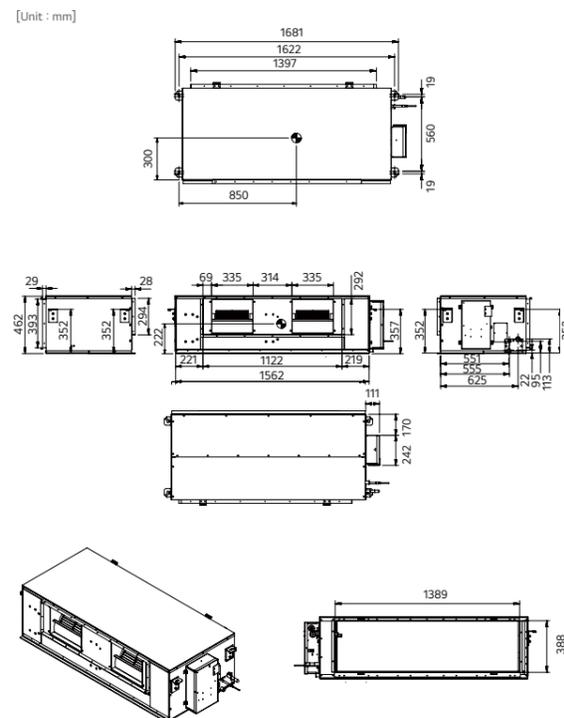
Heat Pump



Compressor Module

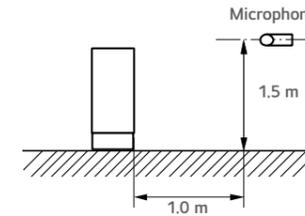


Heat Exchanger Module



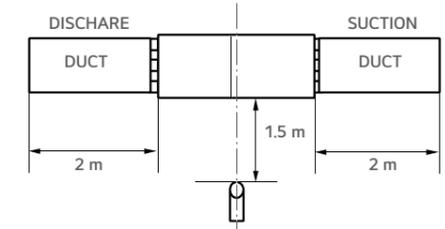
Position of Sound Pressure Level Measuring

Compressor Module



※ Measuring place : Anechoic chamber

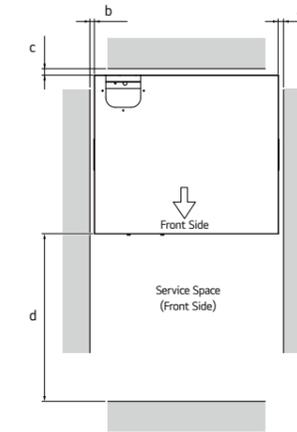
Heat Exchanger Module



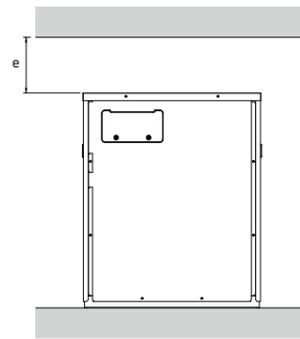
※ Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View



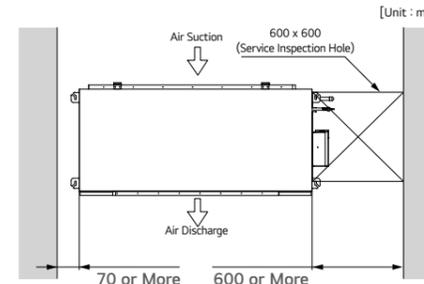
Front View



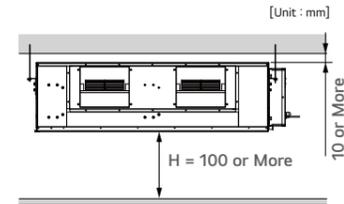
Category	Mark	Description	Installation Space (mm)
Compressor Module	a	Right	10 or More
	b	Left	10 or More
	c	Rear	10 or More
	d	Front	500 or More
	e	Top	200 or More

Installation Space for Compressor Module

Top View



Front View



ARUN050LMCO / ARUN050GME0



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

System

HP		5	
Model Name	Set	ARUN050LMS0	
	Compressor Module	ARUN050LMCO	
	Heat Exchanger Module	ARUN050GME0	
Capacity	Cooling (Rated) kW	14.0	
	Heating (Rated) kW	14.0	
	Heating (Max) kW	16.0	
Input	Cooling (Rated) kW	5.07	
	Heating (Rated) kW	3.71	
	Heating (Max) kW	4.32	
EER	Based on Rated Capacity	2.76	
SEER		5.26	
COP	Based on Rated Capacity	3.77	
	Based on Max Capacity	3.70	
SCOP		3.85	
Number of Maximum Connectable Indoor Units		10	

※ ○ : Applied, - : Not Applied

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB
  - Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
  - Interconnected Pipe Length and Difference of Elevation : - Heat Exchanger Module - Compressor Module = 5m
    - Compressor Module - Indoor Unit = 7.5m
    - Difference of Elevation (Heat Exchanger Module- Compressor Moduler - Indoor Unit) is Zero
- The maximum combination ratio is 130%.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

ARUN050LMCO / ARUN050GME0



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

Module

HP		5	
Model Name		Compressor Module	Heat Exchanger Module
		ARUN050LMCO	ARUN050GME0
Exterior	Color	Morning Gray	Galvanized Steel Plate
	RAL Code (Classic)	RAL 7030	-
Dimensions (W x H x D)	Net	mm x No.	580 × 700 × 500
	Shipping	mm x No.	618 × 833 × 564
Weight	Net	kg x No.	69.0
	Shipping	kg x No.	76.0
Compressor	Type	Hermetic Motor Compressor	
	Combination x No.	(Inverter) x 1	
	Motor Output	W x No.	3,200
	Oil Type		FW68D (PVE)
Heat Exchanger	Oil Charge	cc	1,300
	Type	-	Wide Louver Plus
Fan	Type	-	Sirocco Fan
	Motor Output x Number	W x No.	400 × 2
	Air Flow Rate (Rated)	m³/min x No.	60
External Static Pressure	Nominal (Rated, Factory Set)	mmAq (Pa)	3 (29)
	Max	mmAq (Pa)	16 (157)
Pipe Connection	Liquid	mm (inch)	Ø9.52 (3/8) to IDU
	Gas	mm (inch)	Ø15.88 (5/8) to IDU
	Drain	mm (inch)	Ø19.05 (3/4) to Comp. Module
Sound Pressure Level	Cooling (Rated)	dB(A)	45
	Heating (Rated)	dB(A)	45
Sound Power Level*		dB(A)	-
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5 to IDU
Refrigerant			2C × 1.0 ~ 1.5 to Comp. Module
	Refrigerant Name		R410A
	Precharged Amount	kg	2.0
	t-CO <sub>2</sub> eq		4.175
Power Supply			-
			Electronic Expansion Valve
	V, Ø, Hz		380-415, 3, 50
			220-240, 1, 50

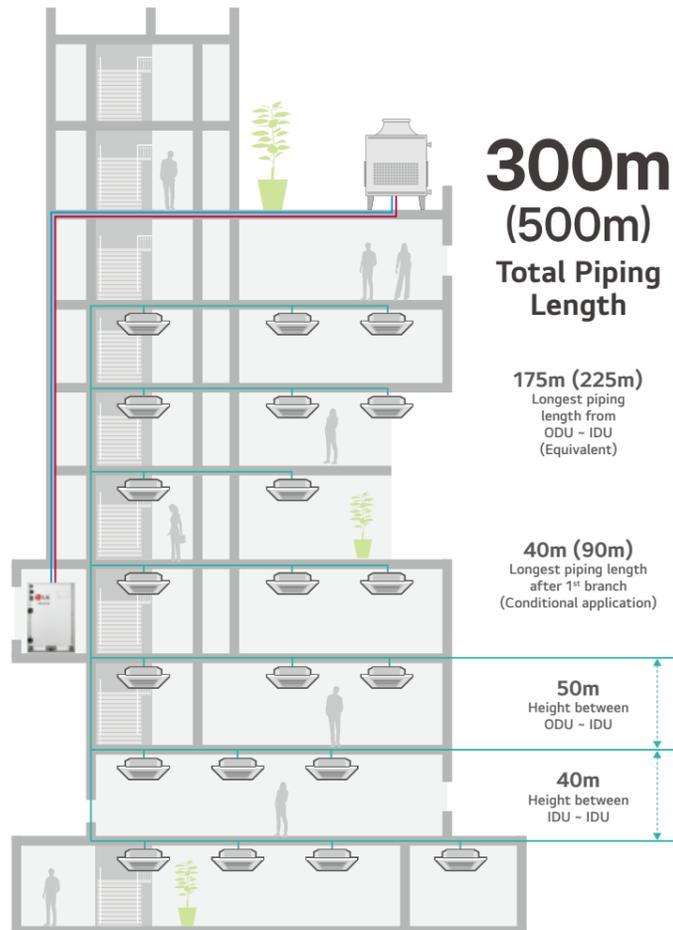
\*: Sound Pressure is not a value declared on Eurovent Program.

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# MULTI V™ WATER 5



## Highlights



Energy savings



Reliability

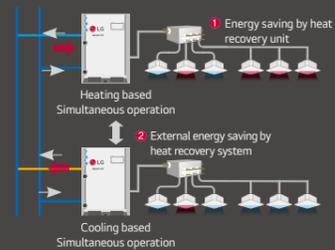


Convenience

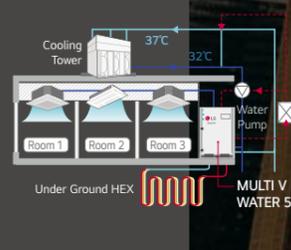
- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 - 168kW (Cooling capacity based)
- 3Ø, 380 - 415V, 50Hz
- Outdoor unit installed indoor

## How does it work?

Available in Heat Pump & Heat Recovery Configuration



Combination of Cooling, Heating and Hot Water Solution



Operation independent of weather conditions



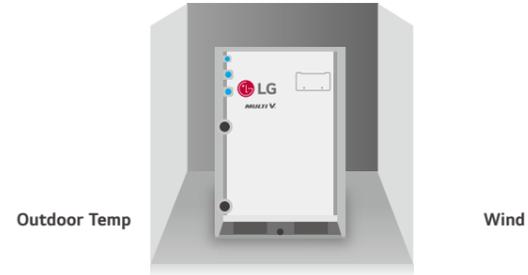
Outdoor Temp



Wind

## High Efficiency System Regardless of External Conditions

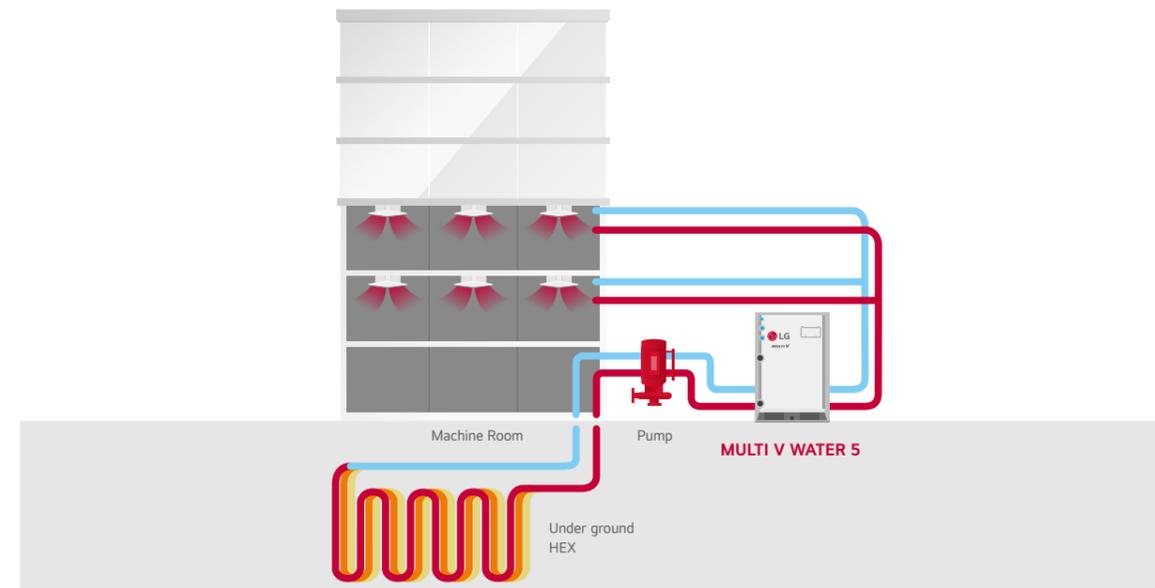
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER 5 is the optimal solution.



## MULTI V WATER 5 System for Geothermal Applications

MULTI V WATER 5 System 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 into the inverter compressor

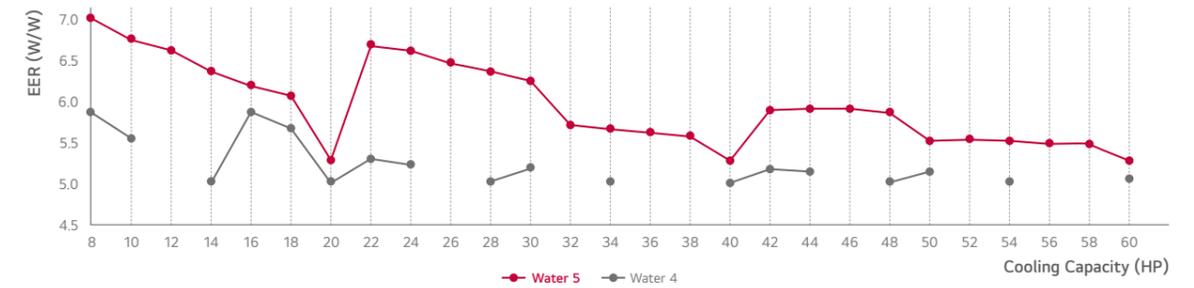
With 5<sup>th</sup> generation inverter compressor, the MULTI V WATER 5 boasts top-class energy efficiency.

- 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

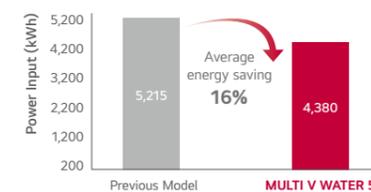
**Friction Coefficient (Defect) vs Time**

Material	Time (sec)	Friction Coefficient (Defect)
Aluminum	50	Low
LG 4 <sup>th</sup> Gen	240	Low
LG 5 <sup>th</sup> Gen	275	Low

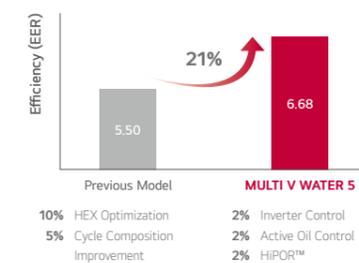
### EER Comparison



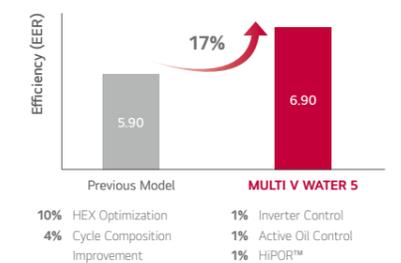
### Economical, Highly Efficient System



### Energy Efficiency Ratio (Cooling)

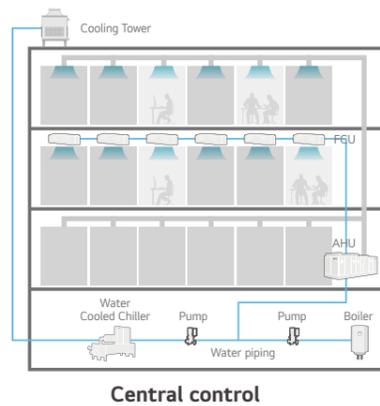


### Coefficient of Performance (Heating)

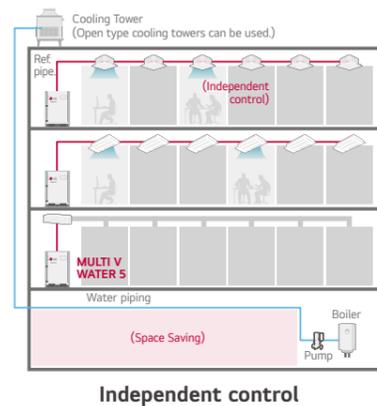


※ Comparison between 10HP (28kW)

### CHILLER - FCU

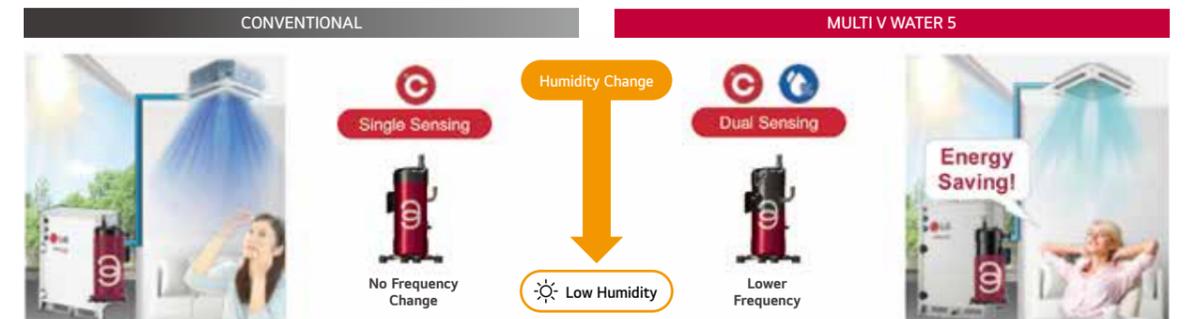


### MULTI V WATER 5



## Dual Sensing Control

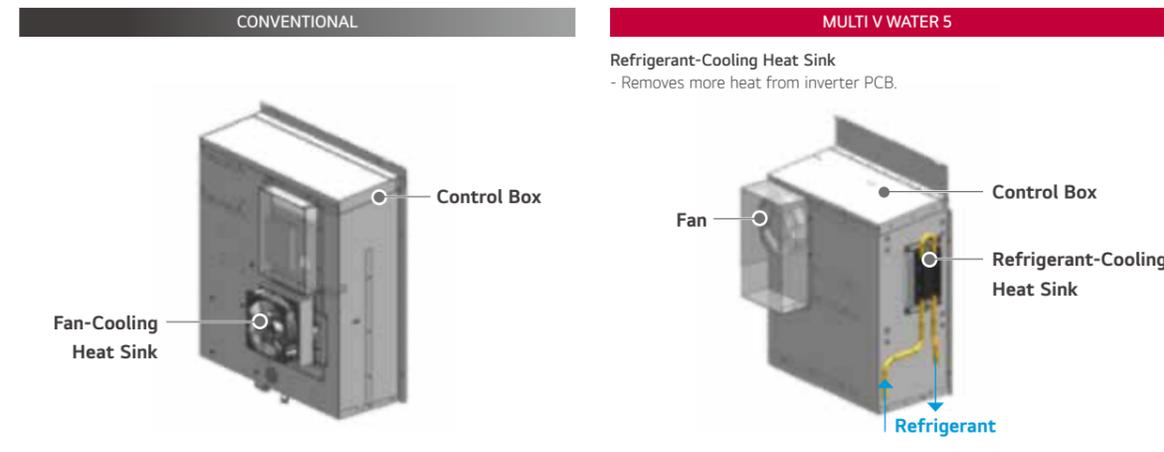
MULTI V WATER 5 can operate more appropriately in low humidity conditions by referring to the indoor temperature and humidity.



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

## 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

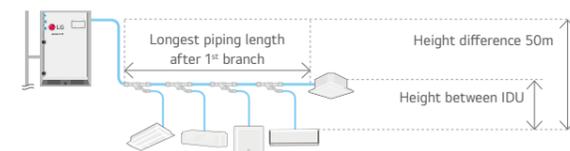
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 60HP (168kW) by combination.

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 pipe length limitation in design and installation for various buildings

Provides 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 the compact size of product, it provides more space for commercial or public use.

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

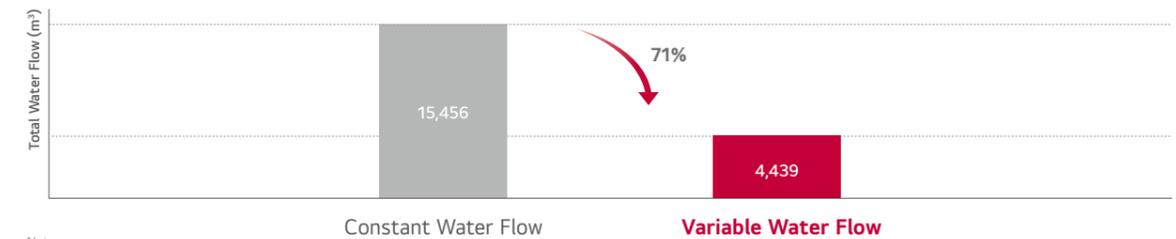
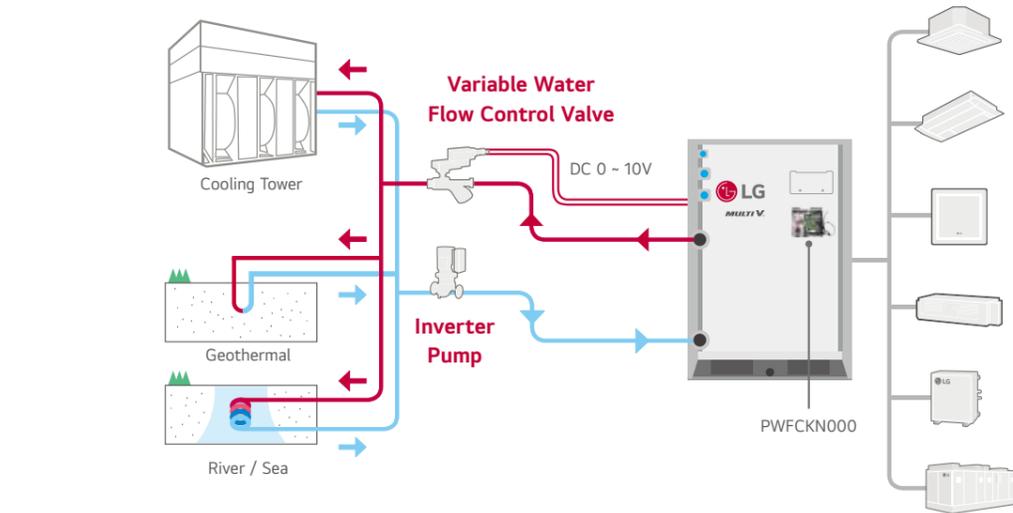


56kW x 2EA  
Per each  
772 \* 547 mm

## Variable Water Flow Control (OPTION)

Supporting green building initiatives

The world's first variable water flow control system for water cooled VRF systems. 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.

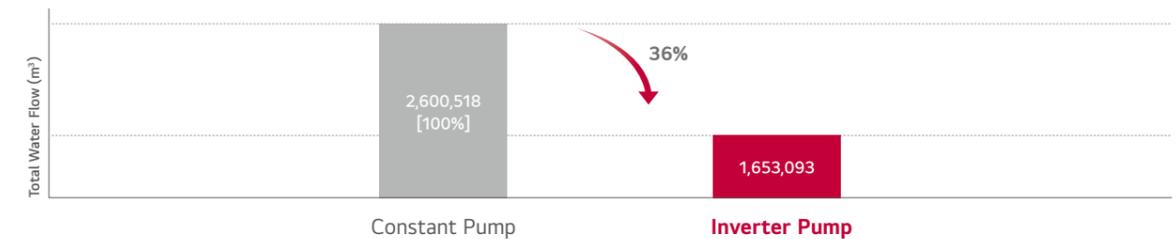


Note  
1. Location : Paris, France  
2. Office, 68,000m<sup>2</sup>  
3. Operation time : 1,344 hours (Cooling period)

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

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

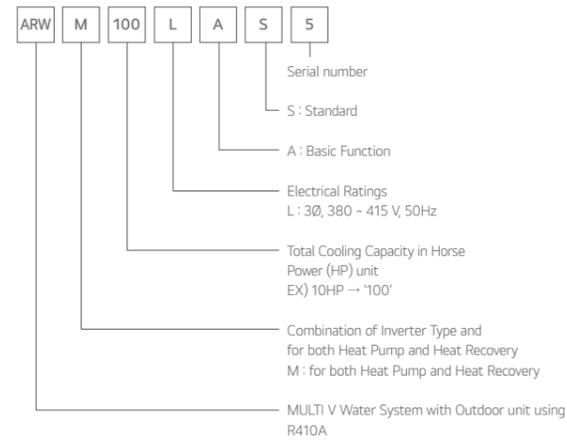
#### 10 years energy cost (\$)



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%

Nomenclature

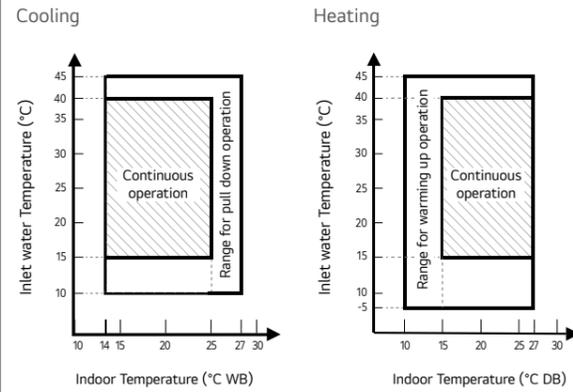


Outdoor Units Function

Category	Functions	MULTI V WATER 5
Key Refrigerant Components	HiPOR™ (High Pressure Oil Return)	○
	Oil Sensor	○
	High Pressure Switch	○
Reliability	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	AC Ez	PQCSZ250S0
Central Controller	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP IV	PACP4B000
	ACP 5	PACP5A000
	AC Manager IV	PACM4B000
	AC Manager 5	PACM5A000
Gateway	ACP BACnet	PQNF17C0
	ACP5 (w U60FT)	○
	Cloud Gateway	PWFMDB200
	Modbus RTU	PMBUSB00A
	IO Module	PVDSMN000
	Variable Water Flow Control Kit	PWFCKN000
	Cool / Heat Selector	PRDSMB
	AHU comm. Kit	PAHCMR000
	AHU Controller Module	PAHCMC000
	AHU Control Kit	PAHCNM000
Intergration Device		PRLK048A0
		PRLK096A0
		PRLK396A0
		PRLK594A0
	Water comm. Module	-
	PDI Standard	PPWRDB000
	PDI Premium	PQNUD1S40
ETC	DS (Data Saving) Module	PVADTN000

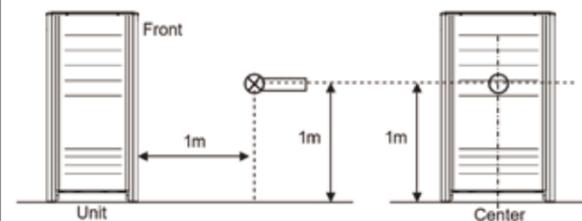
※ ○ : Applied, - : Not Applied

Operation Limits



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

Position of Sound Pressure Level Measuring



※ External Appearance of unit could be different by each model.

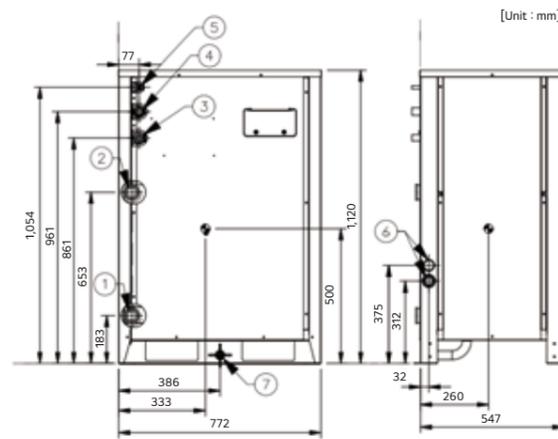
Note  
 1. Data is valid at diffuse field condition.  
 2. Data is valid at nominal operating condition.  
 3. Reference acoustic pressure 0 dB = 20µPa.  
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc)  
 5. Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)  
 6. 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.

Optional Accessories

No.	Name	Model	
1	Y branch pipe	for Heat Recovery	ARBLB01621
		ARBLB03321	
		ARBLB07121	
		ARBLB14521	
		ARBLN01621	
2	Header	for Heat Pump	ARBLN03321
		ARBLN07121	
		ARBLN14521	
		4 branch	ARBL054
		7 branch	ARBL057
3	Connection pipe of Outdoor Units	4 branch	ARBL104
		7 branch	ARBL107
		10 branch	ARBL1010
		10 branch	ARBL2010
		ARCNN21	
		ARCNN31	

Dimensions

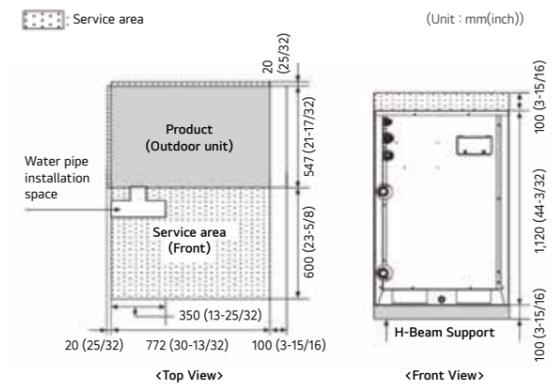
ARWM080LAS5 / ARWM100LAS5 / ARWM120LAS5 / ARWM140LAS5 / ARWM160LAS5 / ARWM180LAS5 / ARWM200LAS5



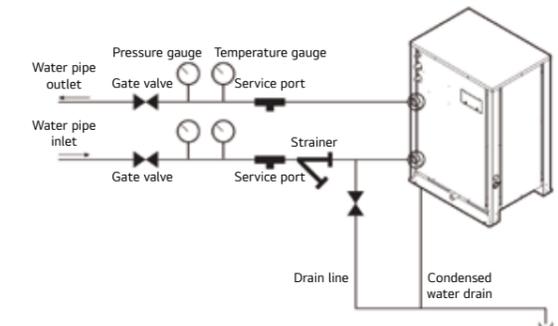
● = Center of Gravity

No.	Part Name	Description
1	Water inlet connection	PT 40 Female
2	Water outlet connection	PT 40 Female
3	High pressure pipe connection	-
4	Low pressure pipe connection	-
5	Liquid pipe connection	-
6	Power and comm. cable hole	-
7	Condensate drain pipe connection	PT 20 Male

Individual Installation



Water Piping Installation



Precaution of Installation

- Do not install the unit at the outdoors.  
- Otherwise it may cause fire, electric shock and trouble.
- Keep the water temperature between 10 ~ 45°C Other it may cause the breakdown.  
- Standard water supply temperature is 30°C for Cooling and 20°C for heating.
- Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- Be careful of the **Water Purity Control**. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control' in Installation manual.)
- The water pressure resistance of the water pipe system of this product is **1.98MPa**.
- Always install a **trap** so that the drained water does not back flush.
- Install a **pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
- Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
- Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- You must install the **flow switch** to the water collection pipe system connecting to the outdoor unit.  
(**Flow switch** acts as the 1st protection device when the heat water is not supplied. If a certain level of water does not flow after installing the **flow switch**, an error sign of CH 189 error will be displayed on the product and the product will stop operating.)
- When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is 50 %. Reference flow rate : 10 HP - 96 LPM, 20 HP - 192 LPM)
- To protect the water cooling type product, you must install a **strainer with 50 mesh** or more on the heat water supply pipe. (It is recommended to install both a magnetic filter and a strainer.) If not installed, it can result in damage of heat exchanger by the following situation.
  - Heat water supply within the plate type heat exchanger is composed of multiple small paths.
  - If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
  - When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of coolant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
  - And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
  - As a result of the damage of the heat exchanger from the freezing, the coolant side and the heat water source side will be mixed to make the product unusable.

## Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application.



### Site Information

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

### LG Solution

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

## 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
	Heating (Rated) kW	25.2	31.5	37.8
Input	Cooling (Rated) kW	3.25	4.19	5.14
	Heating (Rated) kW	3.50	4.57	5.56
EER	Rated	6.90	6.68	6.54
COP	Rated	7.20	6.90	6.80
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		
	Maximum Pressure Resistance	kgf/cm <sup>2</sup>	45	45
	Head Loss	kPa	10.6	15.9
	Rated Water Flow	LPM	77	96
Compressor	Type	Hermetically Sealed Scroll		
	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
	Oil Type		FVC68D (PVE)	FW68D (PVE)
Refrigerant	Oil Charge	cc	3,400	3,400
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.22 (7/8)
	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	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
Sound Power Level	Cooling / Heating	dB(A)	57.0 / 60.0	60.0 / 60.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A
	Precharged Amount in Factory	kg	3.5	3.5
	t-CO <sub>2</sub> eq	-	7.306	7.306
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	V / Ø / Hz		380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			13 (20)	16 (25)

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.)

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
	Heating (Rated) kW	44.1	50.4	56.7
Input	Cooling (Rated) kW	6.22	7.32	8.40
	Heating (Rated) kW	6.78	8.06	8.72
EER	Rated	6.30	6.12	6.00
COP	Rated	6.50	6.25	6.50
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
	Head Loss	kPa	29.6	37.7
	Rated Water Flow	LPM	135	154
	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
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø12.7 (1/2)
Gas Pipe		mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	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
Sound Power Level	Cooling / Heating	dB(A)	64.0 / 65.0	64.0 / 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
	Precharged Amount in Factory	kg	3.5	3.5
	t-CO <sub>2</sub> eq	-	7.306	7.306
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			23 (35)	26 (40)

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

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
	Heating (Rated) kW	63.0	69.3	75.6
Input	Cooling (Rated) kW	10.69	9.33	10.28
	Heating (Rated) kW	11.05	10.13	11.12
EER	Rated	5.24	6.60	6.54
COP	Rated	5.70	6.84	6.80
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
	Head Loss	kPa	29.9	22.1 + 15.9
	Rated Water Flow	LPM	192	115 + 96
	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
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø15.88 (5/8)
Gas Pipe		mm (inch)	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)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	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
Sound Power Level	Cooling / Heating	dB(A)	67.0 / 68.0	64.0 / 66.0
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A
	Precharged Amount in Factory	kg	4.5	3.5 + 3.5
	t-CO <sub>2</sub> eq	-	9.394	14.613
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			32 (50)	35 (44)

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

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	
	Heating (Rated) kW	81.9	88.2	94.5	
Input	Cooling (Rated) kW	11.36	12.46	13.54	
	Heating (Rated) kW	12.34	13.62	14.28	
EER	Rated	6.41	6.29	6.20	
COP	Rated	6.64	6.48	6.62	
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	
	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	
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	
	Inlet	mm	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)	
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	
Sound Power Level	Cooling / Heating	dB(A)	66.0 / 68.0	66.0 / 70.0	
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	
	Precharged Amount in Factory	kg	3.5 + 3.5	3.5 + 3.5	
	t-CO <sub>2</sub> eq	-	14.613	14.613	
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	
Number of Maximum Connectable Indoor Units			42 (52)	45 (56)	

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

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	
	Heating (Rated) kW	100.8	107.1	113.4	
Input	Cooling (Rated) kW	15.83	16.91	18.01	
	Heating (Rated) kW	16.61	17.83	19.11	
EER	Rated	5.66	5.63	5.60	
COP	Rated	6.07	6.01	5.93	
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	
	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	
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	
	Inlet	mm	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)	
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	
Sound Power Level	Cooling / Heating	dB(A)	69.0 / 70.0	70.0 / 71.0	
Communication Cable		mm <sup>2</sup> x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
Refrigerant	Refrigerant Name	-	R410A	R410A	
	Precharged Amount in Factory	kg	4.5 + 3.5	4.5 + 3.5	
	t-CO <sub>2</sub> eq	-	16.700	16.700	
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	
Number of Maximum Connectable Indoor Units			52 (64)	55 (64)	

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

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	
	Heating (Rated) kW	119.7	126.0	132.3	
Input	Cooling (Rated) kW	19.09	21.38	20.16	
	Heating (Rated) kW	19.77	22.10	21.33	
EER	Rated	5.57	5.24	5.83	
COP	Rated	6.05	5.70	6.20	
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	
	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 Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	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
Sound Power Level	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		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			61 (64)	64	64

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

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	
	Heating (Rated) kW	138.6	144.9	151.2	
Input	Cooling (Rated) kW	21.10	22.05	23.13	
	Heating (Rated) kW	22.40	23.39	24.61	
EER	Rated	5.84	5.84	5.81	
COP	Rated	6.19	6.19	6.14	
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	
	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 Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	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		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			64	64	64

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

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	
	Heating (Rated) kW	157.5	164	170.1	
Input	Cooling (Rated) kW	25.57	27	27.60	
	Heating (Rated) kW	26.67	27.66	28.88	
EER	Rated	5.48	5.49	5.48	
COP	Rated	5.91	5.92	5.89	
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	
	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	
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	
	Inlet	mm	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)	
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	
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 73.0	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	
Refrigerant	Refrigerant Name	-	R410A	R410A	
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5	
	t-CO <sub>2</sub> eq	-	26.094	26.094	
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	
Number of Maximum Connectable Indoor Units			64	64	

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

ARWM560LAS5 / ARWM580LAS5  
ARWM600LAS5



HP		56	58	60	
Model Name	Combination Unit	ARWM560LAS5	ARWM580LAS5	ARWM600LAS5	
	Independent Unit (1)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (2)	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5	
	Independent Unit (3)	ARWM160LAS5	ARWM180LAS5	ARWM200LAS5	
	Independent Unit (4)	-	-	-	
Capacity	Cooling (Rated) kW	156.8	162.4	168.0	
	Heating (Rated) kW	176.4	182.7	189.0	
Input	Cooling (Rated) kW	28.70	29.78	32.07	
	Heating (Rated) kW	30.16	30.82	33.15	
EER	Rated	5.46	5.45	5.24	
COP	Rated	5.85	5.93	5.70	
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	
	Head Loss	kPa	29.9 + 29.9 + 37.7	29.9 + 29.9 + 24.6	29.9 + 29.9 + 29.9
	Rated Water Flow	LPM	192 + 192 + 154	192 + 192 + 173	192 + 192 + 192
	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	
	Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	
	Inlet	mm	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)	
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 3	158 x 3	
Shipping Weight	kg	(166 x 2) + (157 x 1)	166 x 3	166 x 3	
Sound Pressure Level	Cooling / Heating	dB(A)	59.0 / 61.0	60.0 / 61.0	
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 75.0	74.0 / 75.0	
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	
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 4.5	
	t-CO <sub>2</sub> eq	-	26.094	28.181	
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	
Number of Maximum Connectable Indoor Units			64	64	

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

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# INDOOR UNITS

WALL MOUNTED

CEILING MOUNTED CASSETTE

CEILING MOUNTED ROUND CASSETTE

CEILING CONCEALED DUCT

FRESH AIR INTAKE

CEILING & FLOOR CONVERTIBLE CEILING SUSPENDED

CONSOLE & FLOOR STANDING

FLOOR STANDING (PAC)

COMPATIBILITY & FEATURE FUNCTIONS





**Features & Benefits**

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

**Key Applications**

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

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

※ ○: Applied, - : Not applied

**Wi-Fi Control**

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

**ThinQ**

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

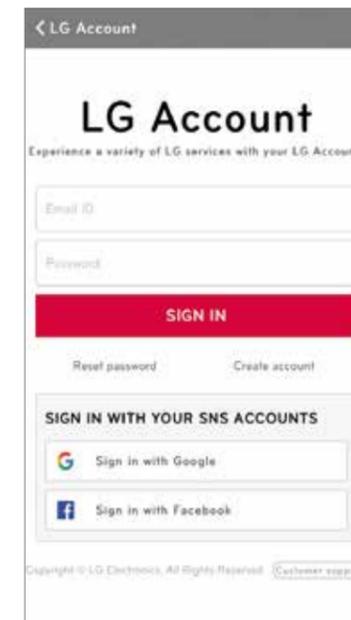
**Integrated Home Appliances Control**

Control / Monitor all your LG appliances from one place.



**Easy Registration and Log-in**

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



**Simple operation for various functions**



On / Off, Current Temp



Mode, Set Temp



Vane Control

**Straight forward Management**



Energy Monitoring



Smart Diagnosis



Filter Management



Reservation

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

# Wi-Fi Control

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

## ThinQ

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

### Access your air conditioner anytime and from anywhere

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



### Wi-Fi Connectivity

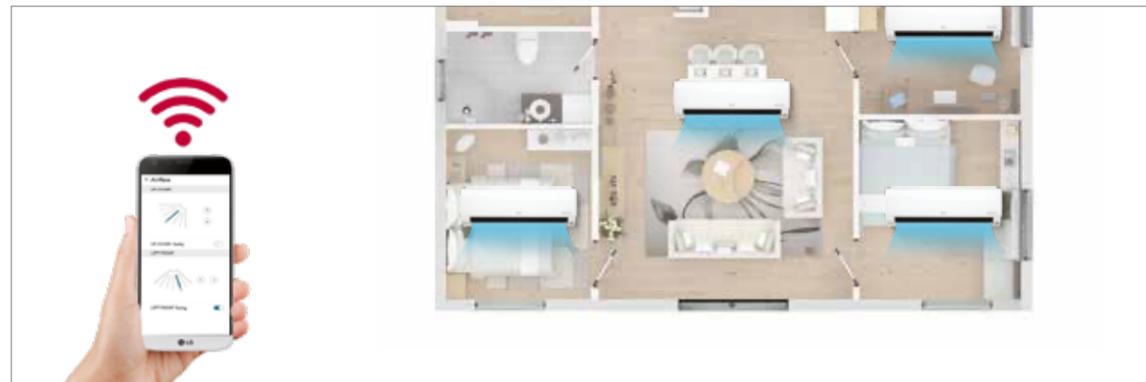
Each user can set and save temperature and fan speed preferences in the ThinQ app. If a household has more than one indoor unit, separate temperature settings can be set for each.

### Multiple Devices



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

### Multi-Control



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

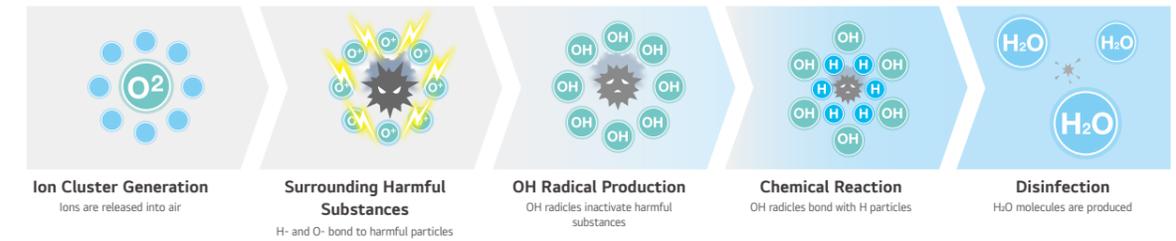
# Ionizer<sup>PLUS</sup>

The powerful Ionizer protects you from bad odors and Escherichia coli and Staphylococcus in the surface with over 8 million ions that ensure a safer, and cleaner environment.

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

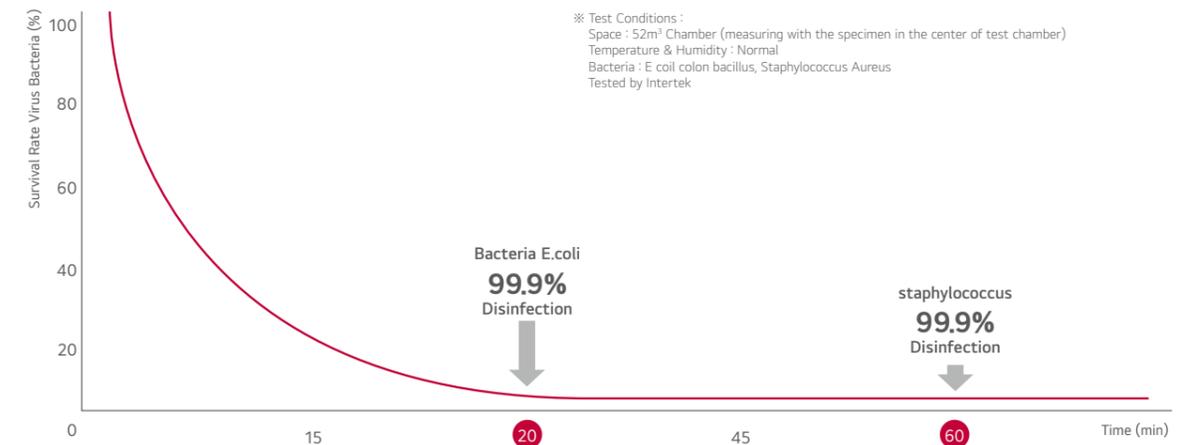
## Reduction and Deodorization (Utilizes Over 8 Million Ions)

Ionizer+ reduces E.coli and Staphylococcus in the surface with over 8 million ions.



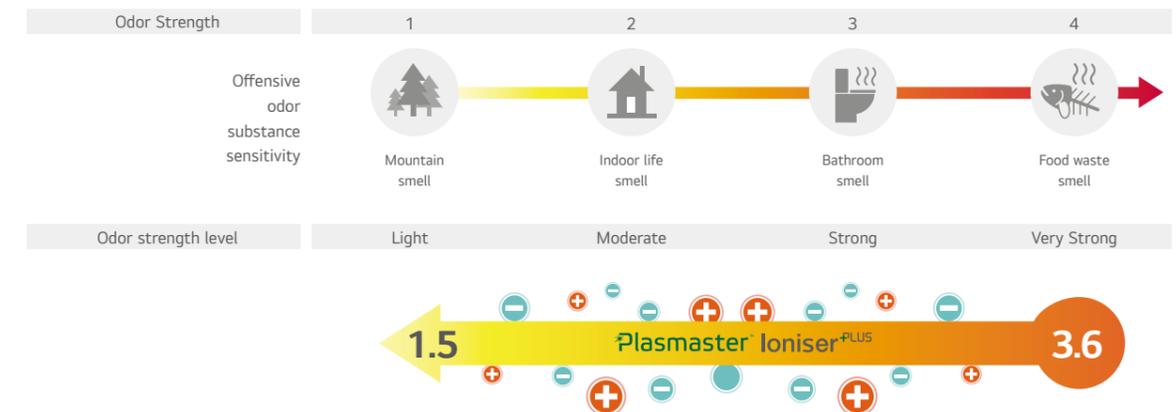
## Reduction Performance Evaluations

Reduce Bacteria E.coli by over 99.9% in 20 min, and staphylococcus by over 99.9% in 60min.



## 2.1 odor strength decrease in 60 minutes

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



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

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

## Auto Cleaning

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

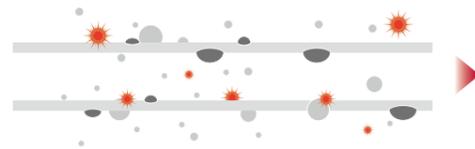
### Pain Point

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

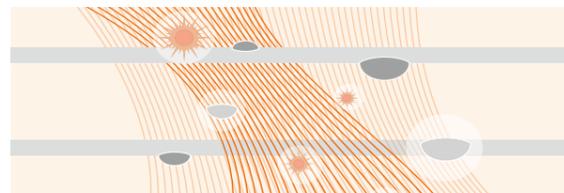


### Cleans Filter with Regular Airflow

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



By dehumidifying, (+ionizing with some models), the auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.



The indoor environment remains odorless with the advanced deodorizing function.



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

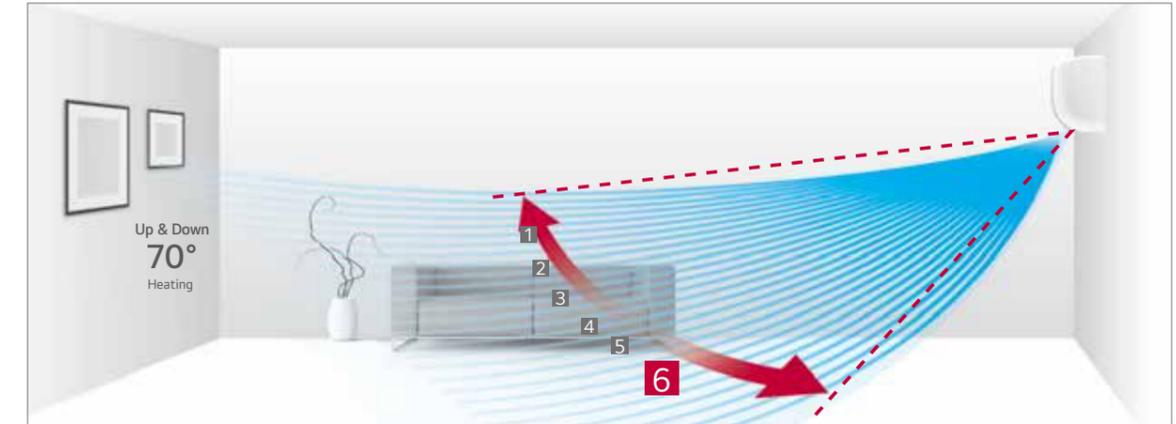
## Auto Swing

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

※ Specifications may vary for each model.

### 6-Step Vane Control up to 70°

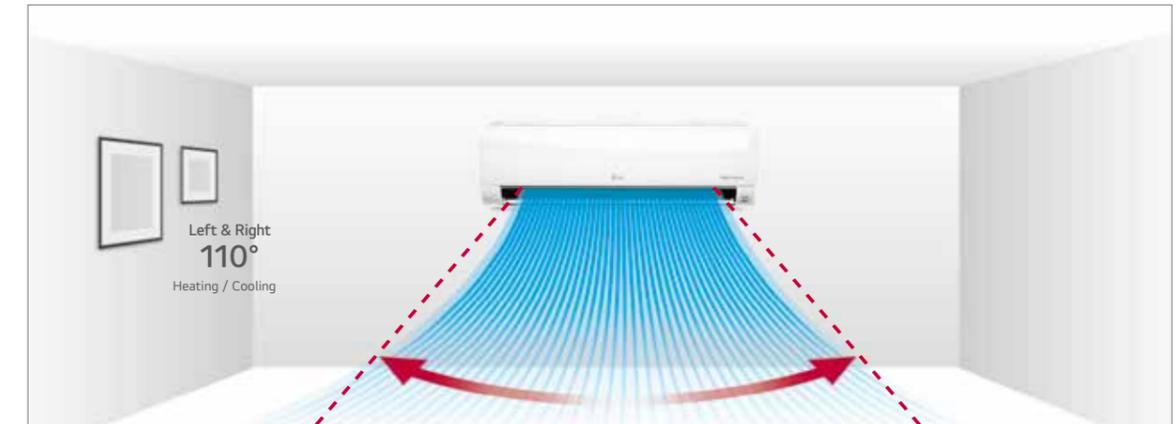
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

### Control up to 110°

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



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

### Easy and Simple Control

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

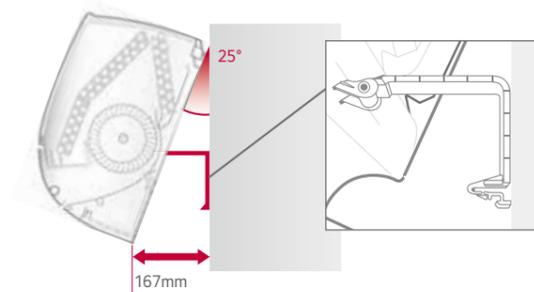
※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.



Up / Down Swing

## Installation Support Clip

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



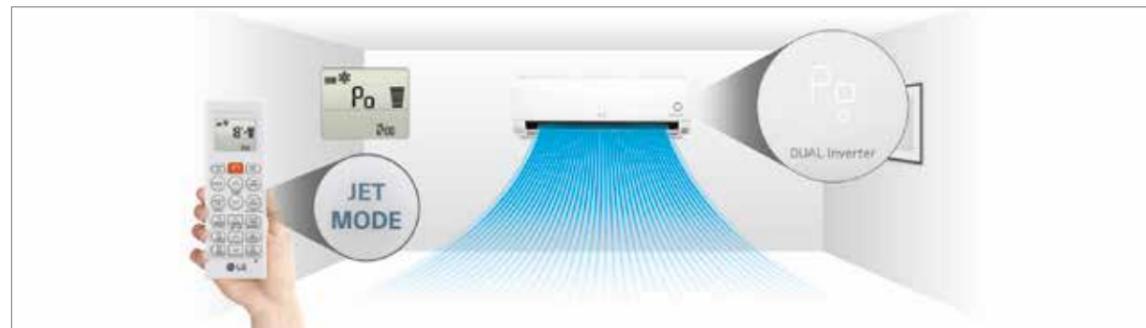
## Jet Cool

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

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

### One Click "Jet Mode"

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



### More Powerful Performance

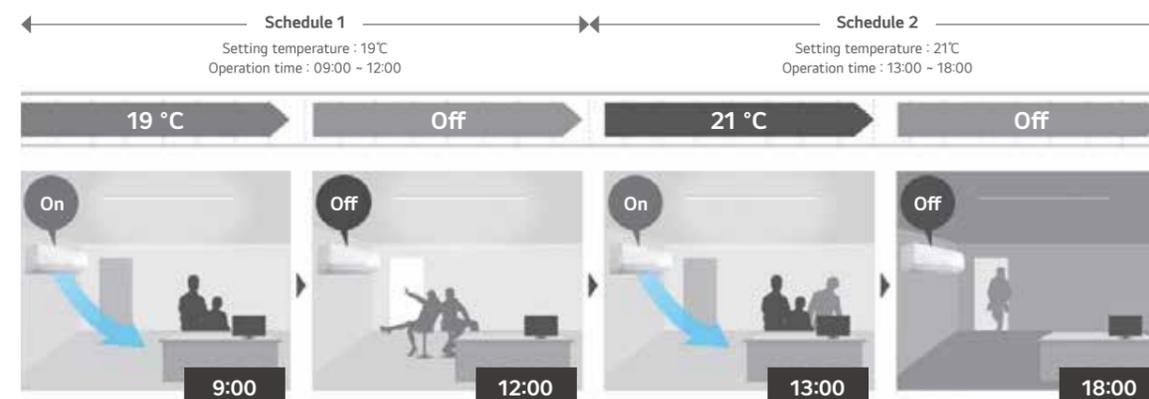
By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of air flow is increased to 13 CMM.



## Scheduled Operation

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

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



## Two Thermistors Control

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



## Group Control

The group control from the remote controller (PREMTB101 / PREMTBB11) has more functions than the previous model.



ARNU05GSJR4 / ARNU07GSJR4  
ARNU09GSJR4 / ARNU12GSJR4  
ARNU15GSJR4



MODEL		UNIT	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L) Nominal		W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Exterior Color			Mirror (Black)				
RAL Code			RAL 9005				
Dimensions (W x H x D)	Body	mm	837 x 308 x 192				
	Shipping	mm	892 x 381 x 249				
Fan							
Type			Cross Flow Fan				
Motor Output x Number		W x No.	30 x 1				
Air Flow Rate (H / M / L)		m <sup>3</sup> /min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
Motor Type			BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)				
	Gas Side	mm (inch)	Ø12.7 (1/2)				
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)				
Weight	Body	kg	9.2	9.2	9.2	9.2	9.2
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	46 / 45 / 42	48 / 46 / 42	51 / 48 / 45	55 / 52 / 44
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60
Transmission Cable		mm <sup>2</sup>	1.0 ~ 1.5 x 2C				

- Note :
- Performance tested under EN14511
  - 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
  - Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV15 (R32)			
EEV Kit		PRGK024A0			
Multi-tenant Power Module		PINPMB001			
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			○		
CO <sub>2</sub> Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)			○		
Wi-Fi			○		

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

## ARNU18GSKR4 / ARNU24GSKR4



MODEL		UNIT	ARNU18GSKR4	ARNU24GSKR4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.5
Power Input (H / M / L) Nominal		W	32 / 26 / 16	39 / 26 / 16
Exterior Color			Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005
Dimensions (W x H x D)	Body	mm	998 x 345 x 212	998 x 345 x 212
	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
Fan				
Type			Cross Flow Fan	Cross Flow Fan
Motor Output x Number		W x No.	58 x 1	58 x 1
Air Flow Rate (H / M / L)		m <sup>3</sup> /min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
Motor Type			BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	13.4	13.4
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	59 / 56 / 52	63 / 58 / 52
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60
Transmission Cable		mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

- Note :
- Performance tested under EN14511
  - 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
  - Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU18GSKR4	ARNU24GSKR4
Drain Pump		-
Cassette Cover		-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		○
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi		○

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

ARNU07GSF14 / ARNU09GSF14  
ARNU12GSF14

MODEL	UNIT	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14	
Cooling Capacity	kW	2.2	2.8	3.6	
Heating Capacity	kW	2.5	3.2	4.0	
Power Input (H / M / L)	Nominal	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12	
	W				
Dimensions (W x H x D)	Body	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146	
	Shipping	685 x 670 x 215	685 x 670 x 215	685 x 670 x 215	
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Motor Type		BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	
	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Pipe Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø12.2 (15/32)	Ø12.2 (15/32)	Ø12.2 (15/32)
	Weight	kg	15.4	15.4	15.4
Sound Pressure Levels (H / M / L)	dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32	
Sound Power Levels (H / M / L)	dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 48 / 42	
Power Supply	V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	
Transmission Cable	mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	

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

## Accessories

CHASSIS	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit		PRGK024A0	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO <sub>2</sub> Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200 <sup>1)</sup>	

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

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

MODEL	UNIT	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4	
Cooling Capacity	kW	1.6	2.2	2.8	3.6	4.5	
Heating Capacity	kW	1.8	2.5	3.2	4.0	5.0	
Power Input (H / M / L)	Nominal	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11	
	W						
Exterior Color		White	White	White	White	White	
RAL Code		RAL 9016					
Dimensions (W x H x D)	Body	mm	818 x 316 x 189				
	Shipping	mm	892 x 381 x 249				
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter					
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	
Weight	kg	8.4	8.4	8.4	8.4	8.4	
Sound Pressure Levels (H / M / L)	dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32	
Sound Power Levels (H / M / L)	dB(A)	45 / 43 / 42	46 / 45 / 42	48 / 46 / 42	51 / 48 / 45	55 / 52 / 45	
Power Supply	V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	
Transmission Cable	mm <sup>2</sup>	1.0 ~ 1.5 x 2C					

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

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

## Accessories

CHASSIS	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump		-			
Cassette Cover		-			
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV15 (R32)			
EEV Kit		PRGK024A0			
Multi-tenant Power Module		PINPMB001			
Robot Cleaner		-			
Pre Filter (Washable)		○			
Ion Generator		-			
CO <sub>2</sub> Sensor		-			
Ventilation Kit		-			
IR Receiver		-			
Zone Controller		-			
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)		○			
Wi-Fi		○			

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

## ARNU18GSK\*4 / ARNU24GSK\*4



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

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

Note :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

## Accessories

CHASSIS	ARNU18GSK*4	ARNU24GSK*4
Drain Pump		-
Cassette Cover		-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		○
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi		○

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

## ARNU30GSVA4 / ARNU36GSVA4



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

Note :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

## Accessories

CHASSIS	ARNU30GSVA4	ARNU36GSVA4
Drain Pump		-
Cassette Cover		-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit		-
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi	PWFMD200 <sup>1)</sup>	

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

1) External installation only

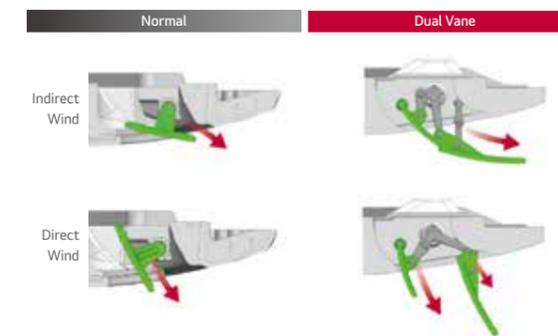


## 4 Way Air Flow with New Design

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



### \*New wind types

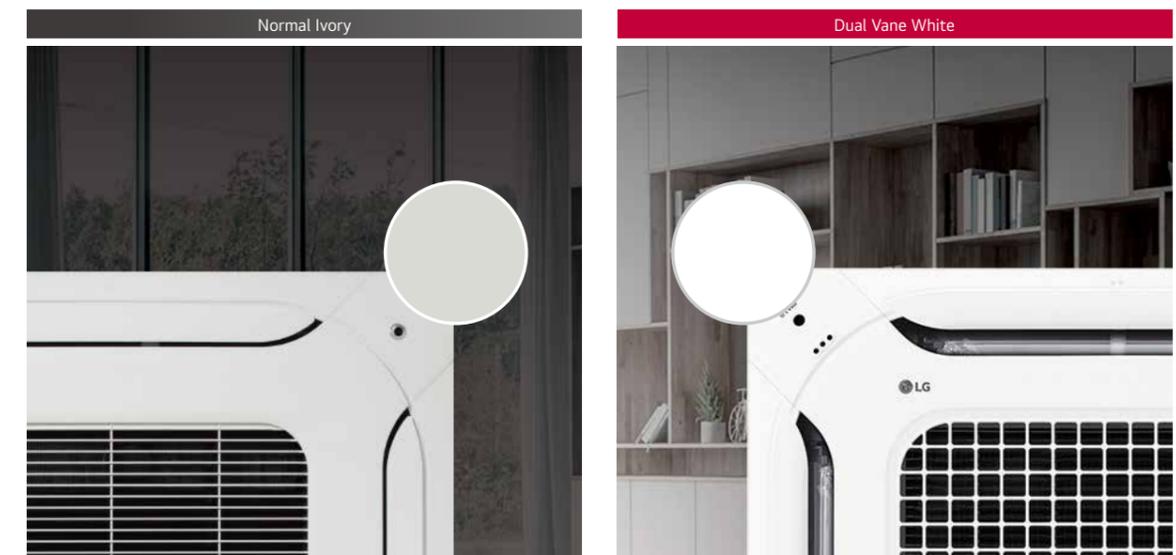


### \*6 Airflow mode



## Brighter Color

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



### Features & Benefits

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

### Key Applications

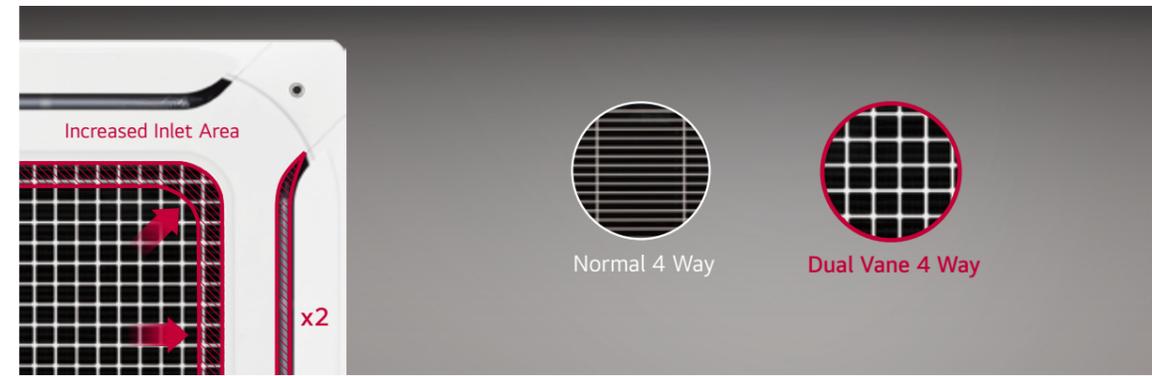
- Retail
- School
- Office
- Hotel
- Dormitory
- Restaurant

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

\* ○: Applied, - : Not applied

## Wide Design

Bigger inlet and outlet allows for faster cooling / heating airflow.



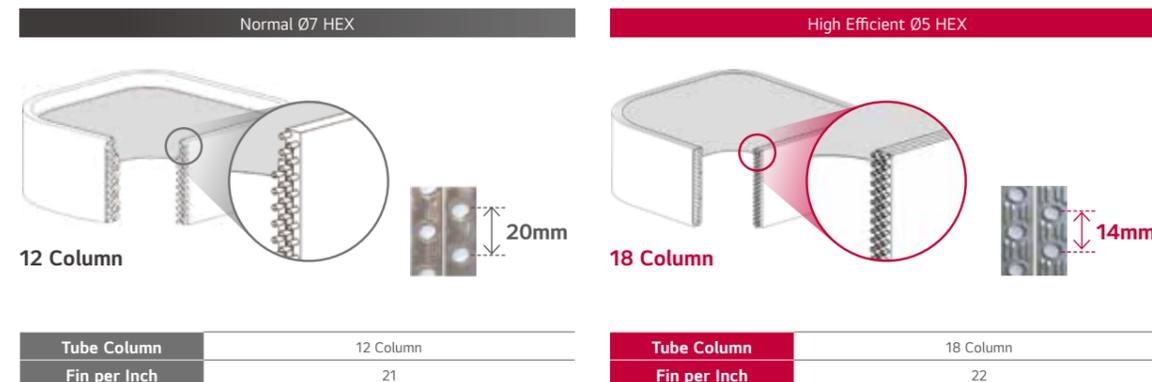
## Full 3D Turbo Fan

Full 3D Turbo fan decreases air resistance, creating high efficiency and reducing noise level.



## High Efficiency Heat Exchanger (HEX)

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



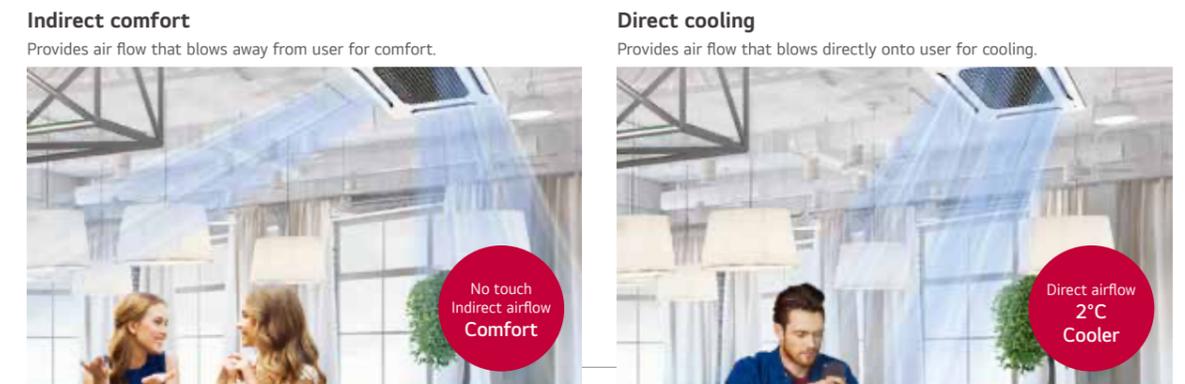
## Ceiling to Floor Temperature Sensing

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



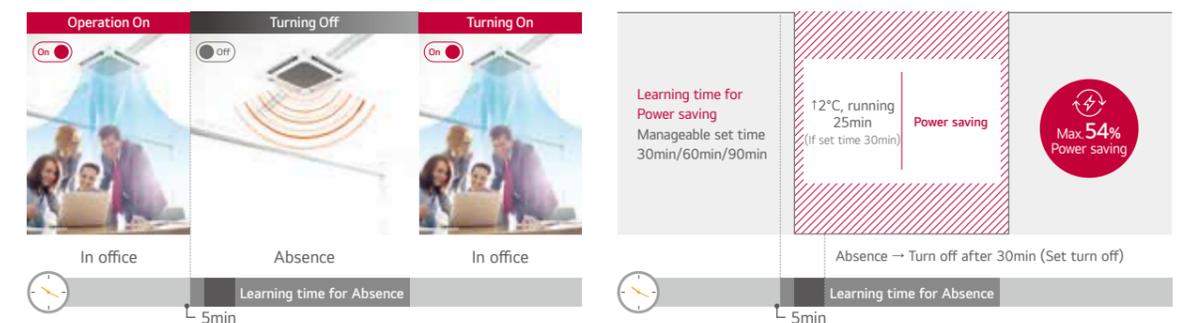
## Human Detection Air Flow

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



## Human Detection for Optimized Efficiency

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



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

## High-performance Air Cleaning

Air cleaning function provides fresh, filtered air.



## Convenient & Powerful 5-Step Air Purification

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

### Air Purification kit



### Cycle Management

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

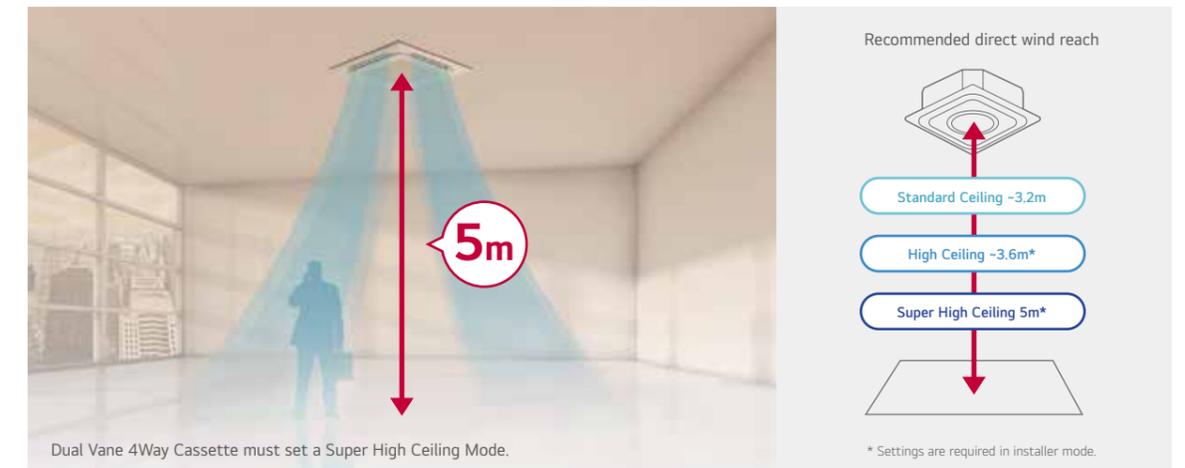
## Air Quality Level Display

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

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

## Direct Wind

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



## ThinQ Connectivity

Connect to IDU with LG ThinQ regardless time and place



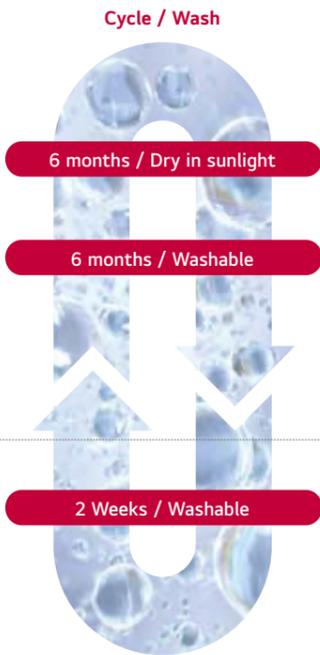
- ① Monitoring Air status : Easy to check indoor air status
  - Ultra Fine / Extra Fine / Fine Dust
  - Day / Week / Month / Yearly
- ② Mobile Remote Control : Remote control by using mobile phone
  - Control Mode / Temperature / Air flow etc.
- ③ Display Power Consumption : Check power consumption of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

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

## Easy Filter Cleaning for Air Purification

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

### Air Purification kit



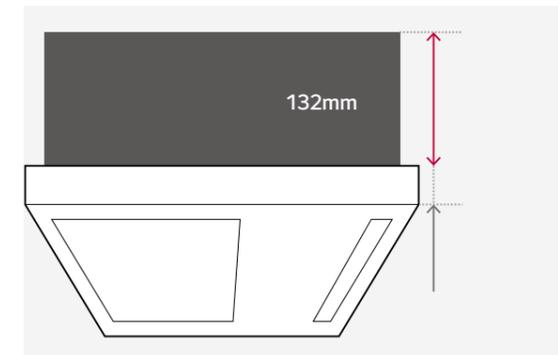
### Air Purification panel



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

## Minimized Height (1 Way)

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



### Size Comparison

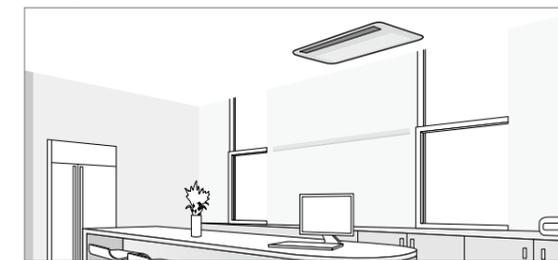
	A Company	B company	LG
1 Way Cassette	215	230	132

(Unit : mm)

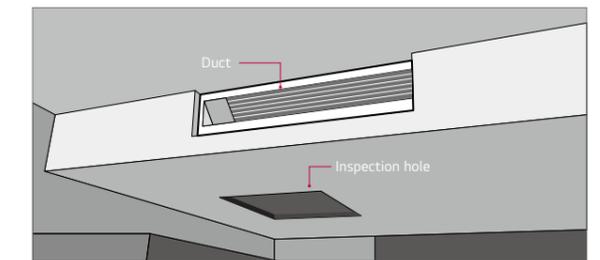
## Flexible Installation (1 Way)

1 Way cassette doesn't require the inspection access hole, enabling simple installation.

### 1 Way cassette



### Duct



## Direct & Indirect Wind

Provides users with direct or indirect air flow preferences.

### Comfort indirect wind

Without touching the skin directly. This ensures large spaces remain comfortable.



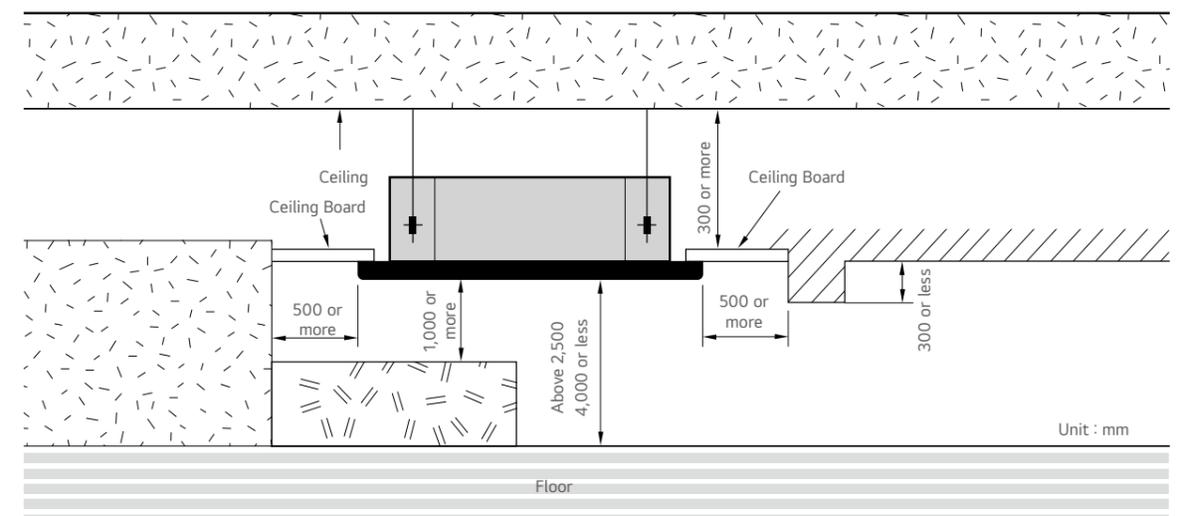
With indirect wind, Comfortable!

Cooler on a hot day.



With direct wind, Cooler!

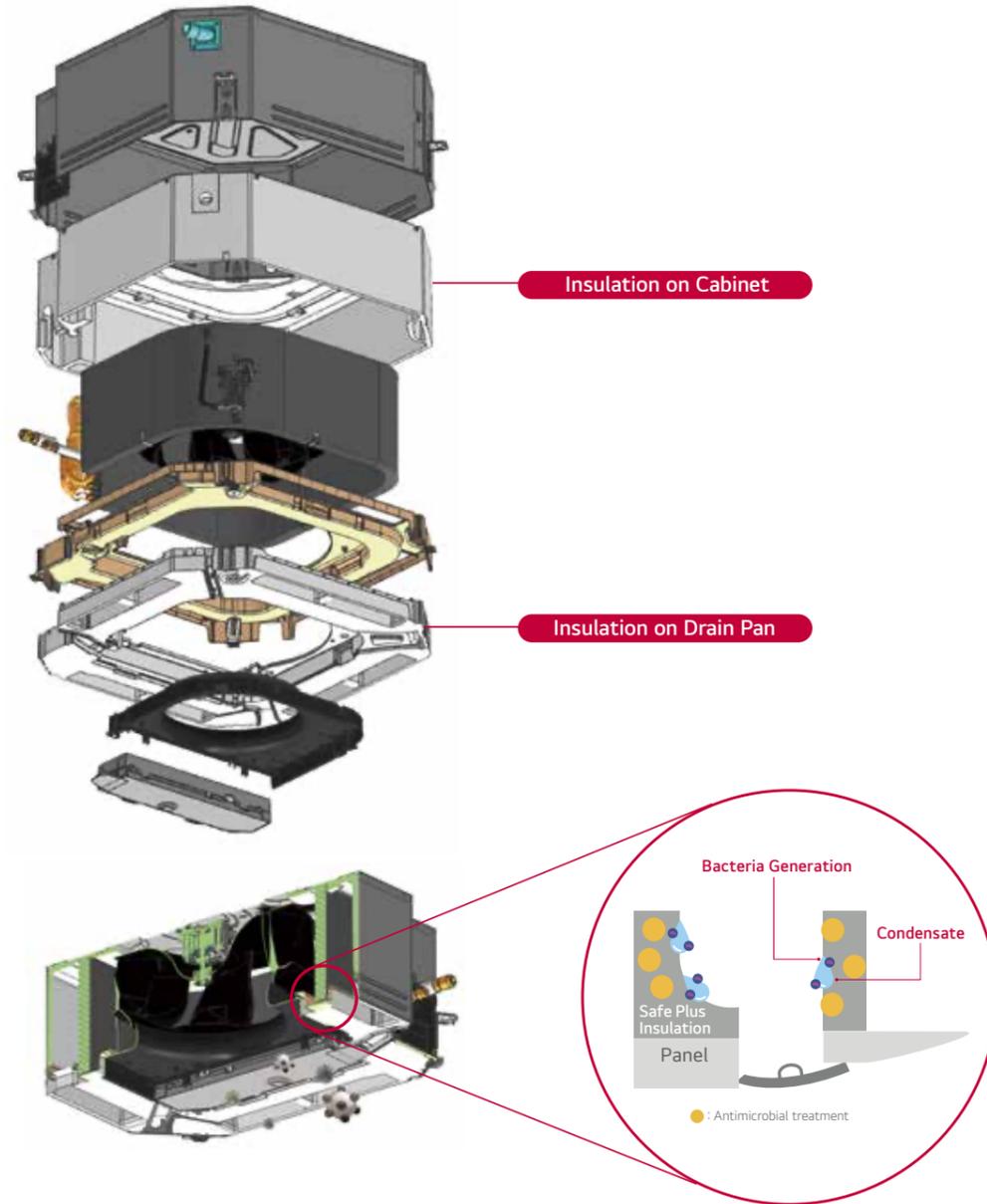
## Installation Standard (1 Way)



# Safe Plus Insulation

## Why LG Safe Plus Insulation?

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



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



Example of EPS Pollution case.

Today's air conditioners all generally provide fast cooling and energy saving features, as well as the ability to filter bacteria, dust and mold for purified air. However, how hygienic is the inside of the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

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

## EPS for Resistant to Bacterial Growth applied product



ARNU24GTBB4 / ARNU28GTBB4  
ARNU30GTBB4



MODEL		UNIT	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Cooling Capacity		kW	7.1	8.2	9.0
Heating Capacity		kW	8.0	9.2	10.0
Power Input (H / M / L)	Nominal	W	32 / 27 / 20	37 / 30 / 22	48 / 36 / 25
Dimensions (W x H x D)	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W	51 x 1	51 x 1	51 x 1
	Air Flow Rate (H / M / L)	m³/min	18 / 17 / 15	19 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	21	21	21
Sound Pressure Level (H / M / L)		dB(A)	39 / 37 / 35	40 / 38 / 35	43 / 40 / 36
Sound Power Level (H / M / L)		dB(A)	46 / 44 / 42	50 / 46 / 43	53 / 50 / 45
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
Decoration Panel (Accessory)	Exterior Color		White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		PAS-NATDR2	
CO <sub>2</sub> Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 Point)		○	
Wi-Fi		PWFMD200	
Human Detection Sensor		PTVSA00	
Floor Temperature Sensor		PTFSMA0	
Air Purification Kit		PTAHMP0 (PT-AFGW0 panel required)	
Elevation Grille		PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)	

ARNU36GTAB4 / ARNU42GTAB4  
ARNU48GTAB4



MODEL		UNIT	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Cooling Capacity		kW	10.6	12.3	14.1
Heating Capacity		kW	11.9	13.8	15.9
Power Input (H / M / L)	Nominal	W	69 / 49 / 37	97 / 69 / 49	110 / 76 / 61
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m³/min	29 / 26 / 22	33 / 29 / 26	34 / 30 / 28
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	26	26	26
Sound Pressure Level (H / M / L)		dB(A)	43 / 40 / 37	47 / 43 / 40	48 / 44 / 42
Sound Power Level (H / M / L)		dB(A)	54 / 51 / 47	56 / 53 / 49	58 / 54 / 53
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
Decoration Panel (Accessory)	Exterior Color		White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		PAS-NATDR2	
CO <sub>2</sub> Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 Point)		○	
Wi-Fi		PWFMD200	
Human Detection Sensor		PTVSA00	
Floor Temperature Sensor		PTFSMA0	
Air Purification Kit		PTAHMP0 (PT-AFGW0 panel required)	
Elevation Grille		PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)	

High sensible

ARNU05GTAA4 / ARNU07GTAA4 / ARNU09GTAA4  
ARNU12GTAA4 / ARNU15GTAA4 / ARNU18GTAA4



MODEL		UNIT	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5	5.6
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	W	20 / 15 / 11	23 / 16 / 11	25 / 18 / 11	26 / 19 / 13	29 / 20 / 15	31 / 23 / 16
Dimensions (W x H x D)	Body	mm	840 x 288 x 840					
	Shipping	mm	922 x 360 x 917					
Fan	Type		Full 3D Turbo Fan					
	Motor Output x Number	W	166 x 1					
	Running Current	A	0.21	0.23	0.25	0.25	0.27	0.28
	Air Flow Rate (H / M / L)	m³/min	18 / 15 / 13	19 / 16 / 13	19 / 16 / 13	20 / 17 / 15	20 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter					
	Liquid Side	mm (inch)	Ø9.52 (3/8)					
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)					
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)					
Weight	Body	kg	26	27	27	27	27	27
Sound Pressure Level (H / M / L)		dB(A)	32 / 29 / 26	32 / 30 / 26	33 / 30 / 26	34 / 31 / 27	34 / 32 / 29	35 / 32 / 30
Sound Power Level (H / M / L)		dB(A)	40 / 37 / 36	41 / 38 / 36	42 / 39 / 36	42 / 40 / 37	43 / 40 / 38	44 / 41 / 38
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 - 1.5 x 2	1.0-1.5 x 2	1.0 - 1.5 x 2			
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
	Exterior Color		White	White	White	White	White	White
	RAL Code		RAL 9003					
	Net Dimensions (W x H x D)	mm	950 x 35 x 950					
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Drain Pump			○			
Cassette Cover			PTDCA			
Refrigerant Leak Detector			PRLDNV50 (R410A), PLDRNV1S (R32)			
EEV Kit			-			
Multi-tenant Power Module			PINPMB001			
Robot Cleaner			-			
Pre Filter (Washable)			○			
Ion Generator			PAS-NATDR2			
CO <sub>2</sub> Sensor			-			
Ventilation Kit			-			
IR Receiver			-			
Zone Controller			-			
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 Point)			○			
Wi-Fi			PWFMD200			
Human Detection Sensor			PTVSA00			
Floor Temperature Sensor			PTFSMA0			
Air Purification Kit			PTAHMP0 (PT-AFGW0 panel required)			
Elevation Grille			-			

High sensible

ARNU24GTAA4 / ARNU28GTAA4 / ARNU36GTAA4  
ARNU42GTAA4 / ARNU48GTAA4



MODEL		UNIT	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Cooling Capacity		kW	7.1	8.2	10.6	12.3	14.1
Heating Capacity		kW	8.0	9.2	11.9	13.8	15.9
Power Input (H / M / L)	Nominal	W	40 / 31 / 25	46 / 35 / 26	65 / 43 / 31	86 / 65 / 43	100 / 67 / 53
Dimensions (W x H x D)	Body	mm	840 x 288 x 840				
	Shipping	mm	922 x 360 x 917				
Fan	Type		Full 3D Turbo Fan				
	Motor Output x Number	W	166 x 1				
	Running Current	A	0.38	0.46	0.60	0.80	0.88
	Air Flow Rate (H / M / L)	m³/min	23 / 21 / 19	24 / 22 / 20	28 / 24 / 21	31 / 28 / 24	33 / 28 / 26
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
	Liquid Side	mm (inch)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)				
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)				
Weight	Body	kg	27	27	27	27	27
Sound Pressure Level (H / M / L)		dB(A)	39 / 36 / 33	40 / 37 / 34	42 / 39 / 35	46 / 42 / 39	47 / 43 / 41
Sound Power Level (H / M / L)		dB(A)	47 / 45 / 42	48 / 46 / 42	51 / 48 / 44	54 / 51 / 48	56 / 52 / 50
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 - 1.5 x 2	1.0 - 1.5 x 2	1.0 - 1.5 x 2	1.0-1.5 x 2	1.0 - 1.5 x 2
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
	Exterior Color		White	White	White	White	White
	RAL Code		RAL 9003				
	Net Dimensions (W x H x D)	mm	950 x 35 x 950				
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Drain Pump			○		
Cassette Cover			PTDCA		
Refrigerant Leak Detector			PRLDNV50 (R410A), PLDRNV1S (R32)		
EEV Kit			-		
Multi-tenant Power Module			PINPMB001		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			PAS-NATDR2		
CO <sub>2</sub> Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)			○		
Wi-Fi			PWFMD200		
Human Detection Sensor			PTVSA00		
Floor Temperature Sensor			PTFSMA0		
Air Purification Kit			PTAHMP0 (PT-AFGW0 panel required)		
Elevation Grille			PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)		

ARNU05GTRB4 / ARNU07GTRB4  
ARNU09GTRB4 / ARNU12GTRB4



MODEL	UNIT	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capacity	kW	1.6	2.2	2.8	3.6
Heating Capacity	kW	1.8	2.5	3.2	4.0
Power Input (H / M / L)	Nominal W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13
Dimensions (W x H x D)	Body mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
	Shipping mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W 43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min 7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0
	Motor Type	BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch) Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch) Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch) Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	kg	12.6	12.6	13.7	13.7
Sound Pressure Levels (H / M / L)	dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27
Sound Power Levels (H / M / L)	dB(A)	47 / 46 / 45	47 / 46 / 45	48 / 46 / 45	51 / 48 / 45
Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm <sup>2</sup> 1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Model Name	PT-QAGW0	PT-QAGW0	PT-QAGW0	PT-QAGW0
Decoration Panel (Accessory)	Exterior Color	White	White	White	White
	RAL Code	RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm 620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620
	Net Weight	kg 3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9

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

Accessories

CHASSIS	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump			○	
Cassette Cover			-	
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV1S (R32)		
EEV Kit		PRGK024A0 (~4.5kW)		
Multi-tenant Power Module		PINPMB001		
Robot Cleaner			-	
Pre Filter (Washable)			○	
Ion Generator		PAS-NATDR2		
CO <sub>2</sub> Sensor			-	
Ventilation Kit			PTVK430	
IR Receiver			-	
Zone Controller			-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)			○	
Wi-Fi		PWFMD200		

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

ARNU15GTQB4 / ARNU18GTQB4  
ARNU21GTQB4



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

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

Accessories

CHASSIS	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump			○
Cassette Cover			-
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV1S (R32)	
EEV Kit		PRGK024A0 (~4.5kW)	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner			-
Pre Filter (Washable)			○
Ion Generator		PAS-NATDR2	
CO <sub>2</sub> Sensor			-
Ventilation Kit			PTVK430
IR Receiver			-
Zone Controller			-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)			○
Wi-Fi		PWFMD200	

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

## ARNU09GTSC4 / ARNU12GTSC4



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

Note :

- Performance tested under EN14511
- 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
- Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU09GTSC4	ARNU12GTSC4
Drain Pump		○
Cassette Cover		-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit	PRGK024A0 (-5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi	PWFMD200	

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

## ARNU18GTSC4 / ARNU24GTSC4



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

Note :

- Performance tested under EN14511
- 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
- Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU18GTSC4	ARNU24GTSC4
Drain Pump		○
Cassette Cover		-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV15 (R32)	
EEV Kit	PRGK024A0 (-5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi	PWFMD200	

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

ARNU07GTUB4 / ARNU09GTUB4  
ARNU12GTUB4

MODEL		UNIT	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	
Cooling Capacity		kW	2.2	2.8	3.6	
Heating Capacity		kW	2.5	3.2	4.0	
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	
	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	
Dimensions (W x H x D)	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	
	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	
	Motor Type		BLDC	BLDC	BLDC	
Air Filter			Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	
Weight	Body	kg	12.2	12.2	12.2	
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	
Sound Power Levels (H / M / L)		dB(A)	47 / 44 / 41	51 / 49 / 47	52 / 51 / 47	
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
Transmission Cable		mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
Decoration Panel (Accessory)	Model Name		PT-UAHGO, PT-UAHW0, PT-UPHG0	PT-UAHGO, PT-UAHW0, PT-UPHG0	PT-UAHGO, PT-UAHW0, PT-UPHG0	
	Exterior Color		Noble White	Noble White	Noble White	
	RAL Code		RAL 9003	RAL 9003	RAL 9003	
	Net Dimensions (W x H x D)		mm	1,160 x 34 x 500	1,160 x 34 x 500	1,160 x 34 x 500
			mm	1,100 x 34 x 500	1,100 x 34 x 500	1,100 x 34 x 500
	Net Weight		kg	3.9 / 3.3 / 4.1	3.9 / 3.3 / 4.1	3.9 / 3.3 / 4.1

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

## Accessories

CHASSIS	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit		PRGK024A0	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO <sub>2</sub> Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Air Purification Kit		PTAHTPO	
Wi-Fi		PWFMD200	

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

## ARNU18GTTB4 / ARNU24GTTB4



MODEL		UNIT	ARNU18GTTB4	ARNU24GTTB4	
Cooling Capacity		kW	5.6	7.1	
Heating Capacity		kW	6.3	7.1	
Power Input (H / M / L)	Nominal	W	38 / 28 / 24	51 / 33 / 26	
	Body	mm	1,180 x 132 x 450	1,180 x 132 x 450	
Dimensions (W x H x D)	Shipping	mm	1,499 x 259 x 538	1,499 x 259 x 538	
	Type		Cross Flow Fan	Cross Flow Fan	
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5	
	Motor Type		BLDC	BLDC	
Air Filter			Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	
Weight	Body	kg	15.3	15.3	
Sound Pressure Levels (H / M / L)		dB(A)	40 / 37 / 35	43 / 40 / 36	
Sound Power Levels (H / M / L)		dB(A)	55 / 51 / 47	58 / 53 / 49	
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	
Transmission Cable		mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
Decoration Panel (Accessory)	Model Name		PT-TAHGO, PT-TAHWO, PT-TPHGO	PT-TAHGO, PT-TAHWO, PT-TPHGO	
	Exterior Color		Noble White	Noble White	
	RAL Code		RAL 9003	RAL 9003	
	Net Dimensions (W x H x D)		mm	1,480 x 34 x 500	1,480 x 34 x 500
			mm	1,420 x 34 x 500	1,420 x 34 x 500
	Net Weight		kg	4.8 / 4.5 / 4.9	4.8 / 4.5 / 4.9

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

## Accessories

CHASSIS	ARNU18GTTB4	ARNU24GTTB4
Drain Pump		○
Cassette Cover		-
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)
EEV Kit		-
Multi-tenant Power Module		PINPMB001
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Air Purification Kit		PTAHTPO
Wi-Fi		PWFMD200

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



**Features & Benefits**

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

**Key Applications**

- Retail
- Office
- Restaurant
- Hotel

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

※ ○: Applied, -: Not applied

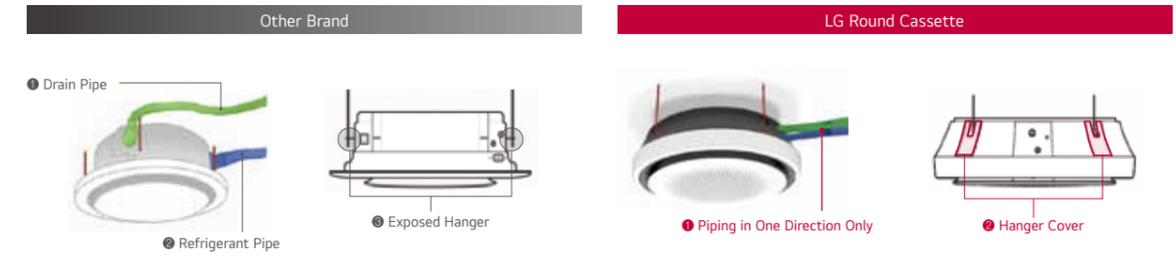
**Slim and Compact Design**

The height of the body has been reduced by 15%, saving space and maximizing the openness of the interior space.



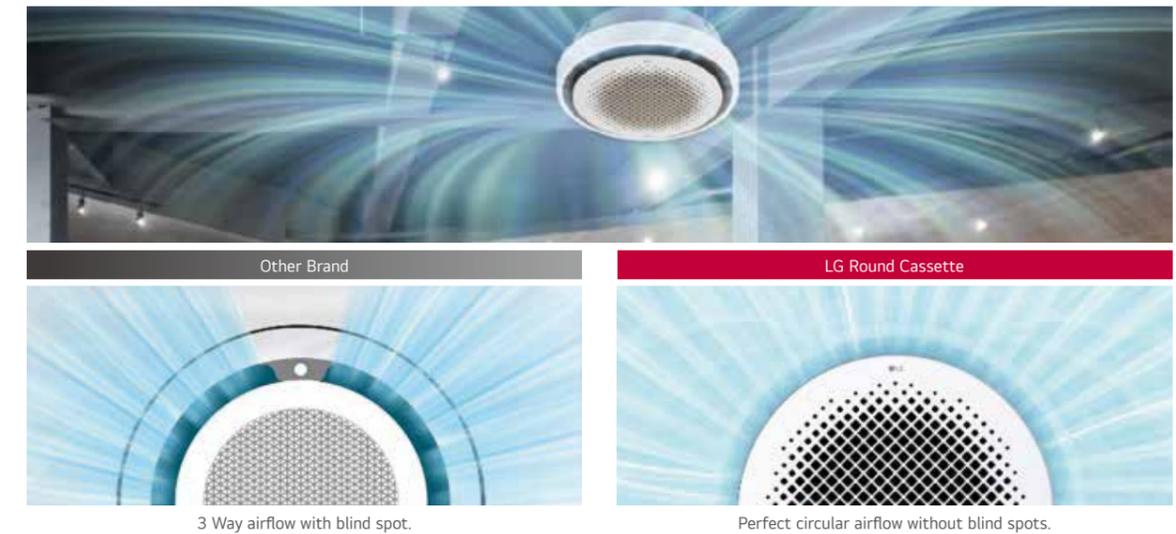
**Minimal Exposure Design**

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



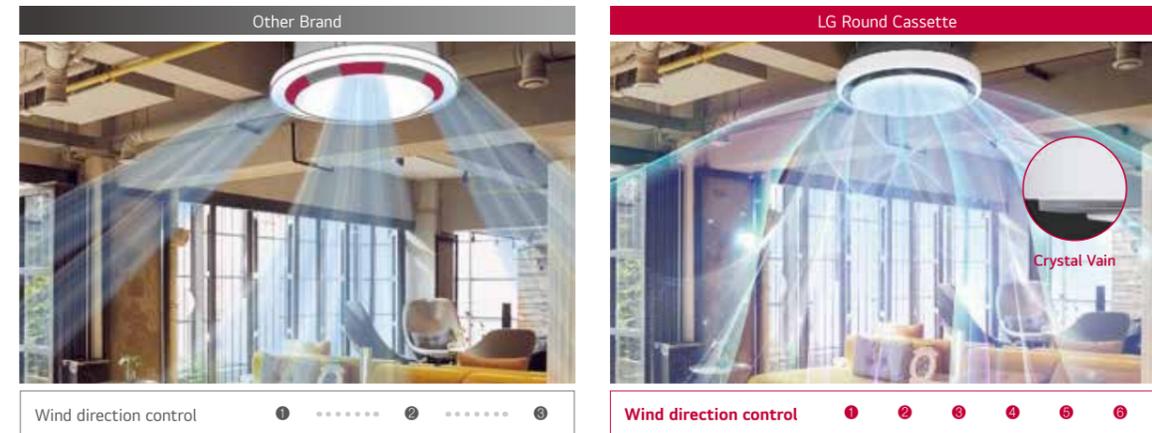
**Perfect Round Air Flow**

Perfect round flow without blind spots.



## Visible Air Flow

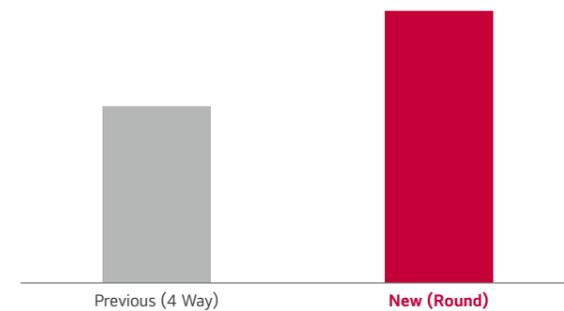
With crystal vein for 6-step precision control, you can send cool / heated air wherever you want.



## Powerful and Quiet Air Flow

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

Full 3D Fan, Air flow rate 5% ↑



Full 3D Fan, Low noise



## 30% Faster in Cooling

With a larger airflow rate, cooling rate is faster than 30%.



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

## ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



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

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

## Accessories

CHASSIS	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV1S (R32)	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO <sub>2</sub> Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 Point)		○	
Wi-Fi		PWFMD200	
Human Detection Sensor		-	
Floor Temperature Sensor		-	
Air Purification Kit		PTAHYPO	
Elevation Grille		-	

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



**Features & Benefits**

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

**Key Applications**

- Office
- Retail
- Hotel
- Residential building

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

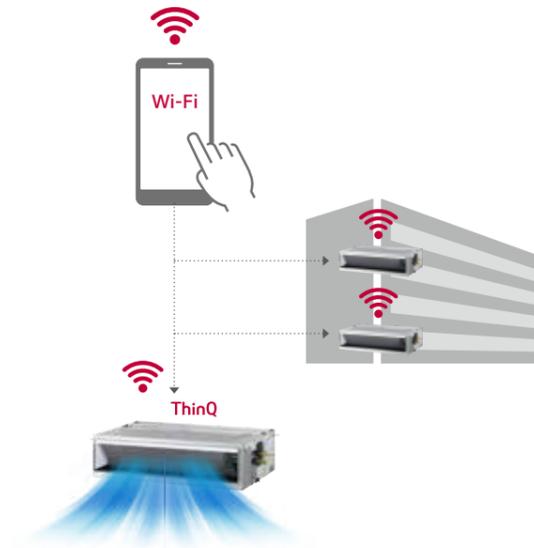
※ ○: Applied, -: Not applied

**Wi-Fi Control**

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

**ThinQ**

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



**Easy Registration and Log-in**

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



**Simple operation for various functions**



On / Off, Current Temp



Mode, Set Temp

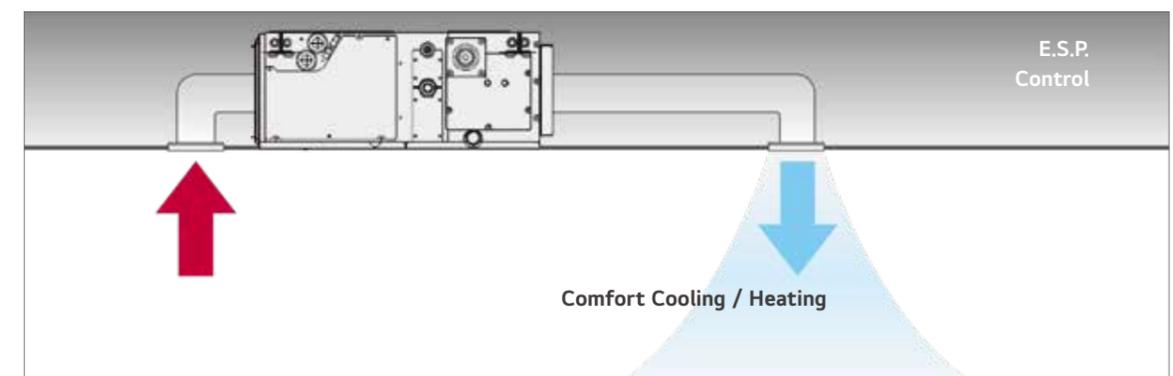
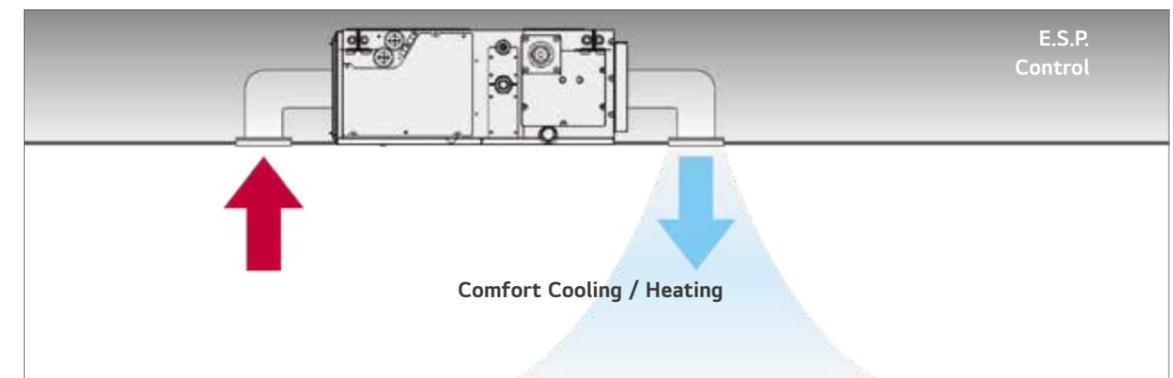


Zone Control

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

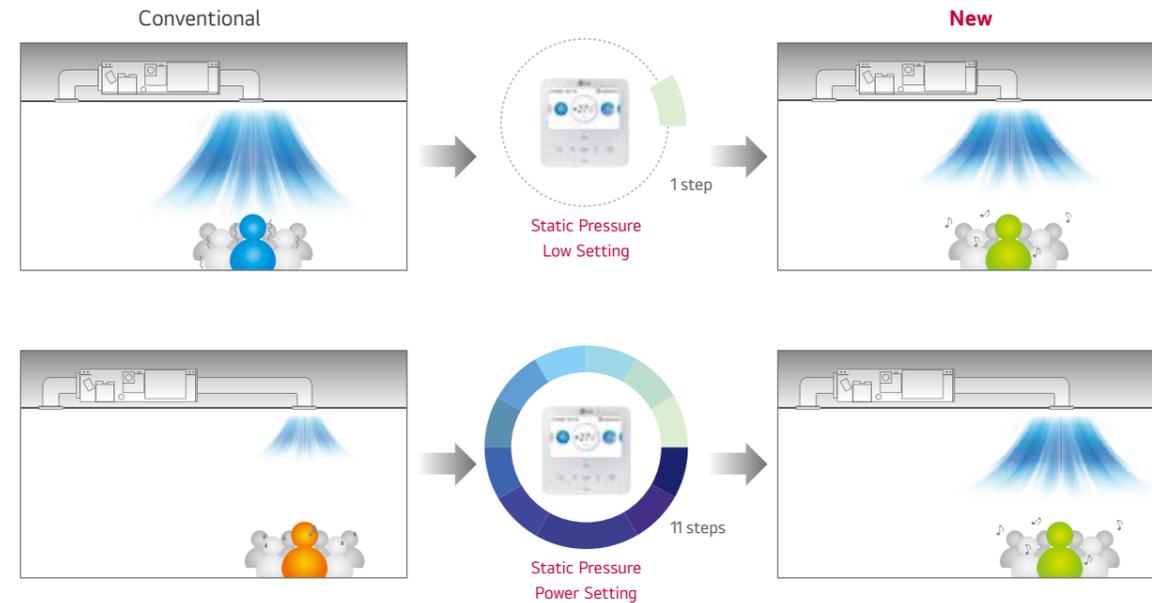
**External Static Pressure (ESP) Control**

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



## Static Pressure 11-Step Control

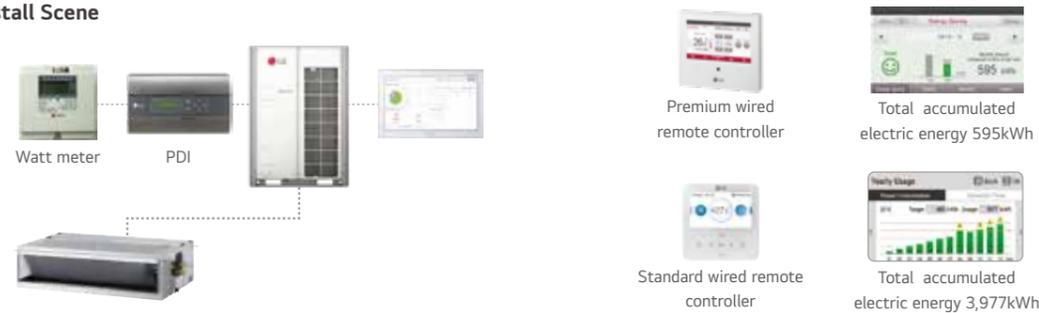
Depending on the installation environment, LG's ceiling concealed duct controls the static pressure with 11 steps to provide maximized comfort to any environment.



## Energy Monitoring

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

### Install Scene



### Multistory building application

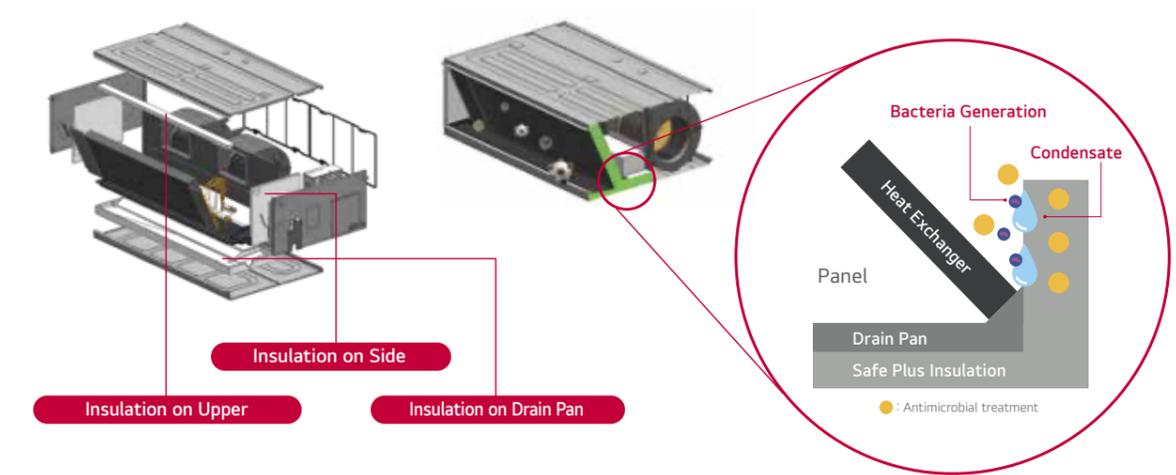


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

## Safe Plus Insulation

### Why LG Safe Plus Insulation?

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



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

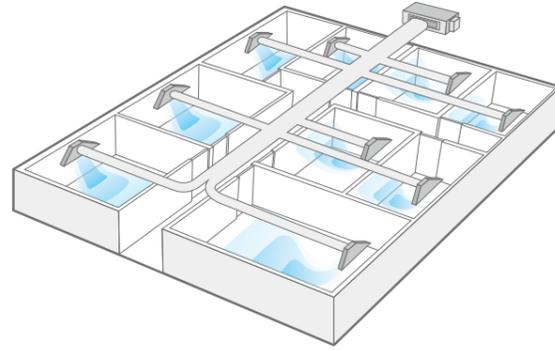


Today's air conditioners all generally provide fast cooling and energy saving features, as well as the ability to filter bacteria, dust and mold for purified air. However, how hygienic is the inside of the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

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

## Multiple Room Operation

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



## Filter Alert

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

### Remain Time for Indoor Filter Cleaning + Alarm



Remain time for indoor filter cleaning 2,400hr.

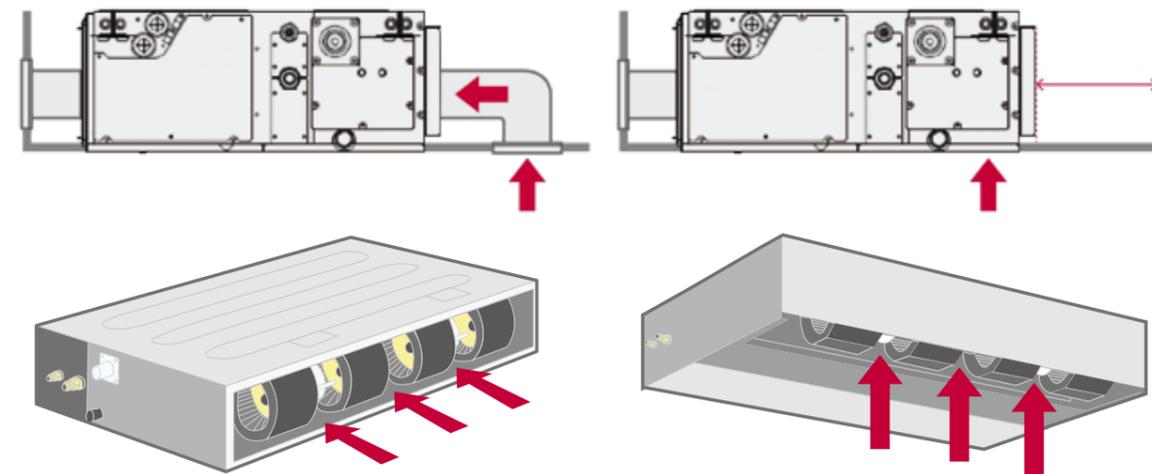


Remain time for indoor filter cleaning 1,729hr.

## Flexible Installation (Low Static Duct Slim Only)

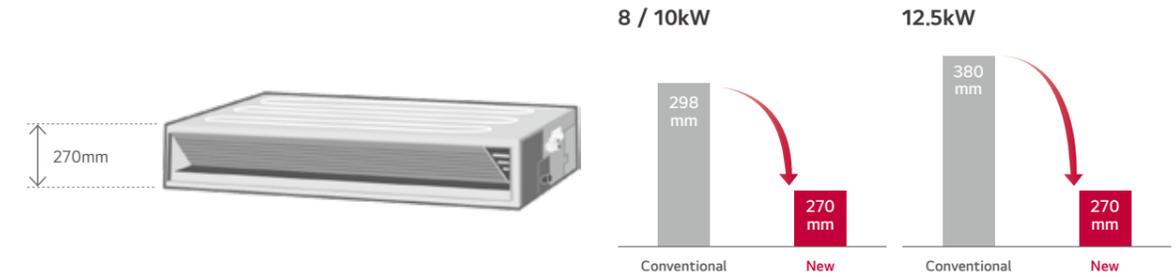
The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.

### Air intake at the rear or bottom



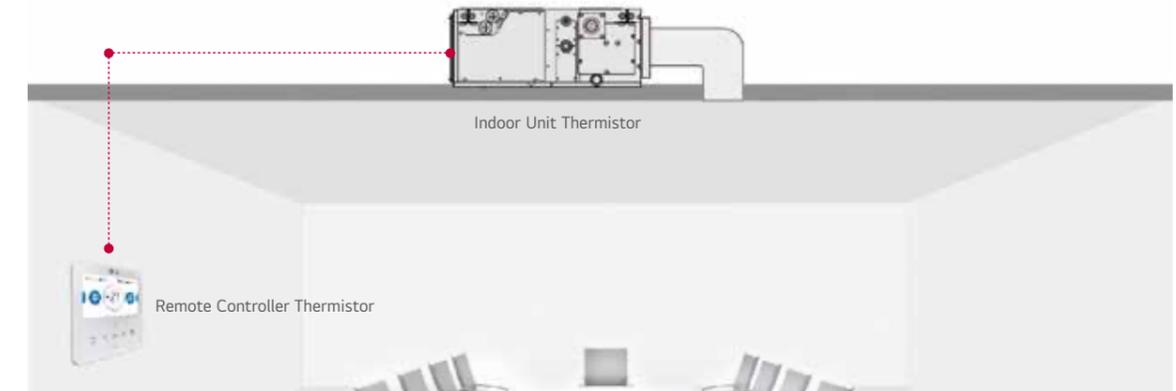
## Minimized Height (For Mid Static Duct)

Mid Static Ducts provide the ideal solution for installations in limited spaces.



## Two Thermistors Control

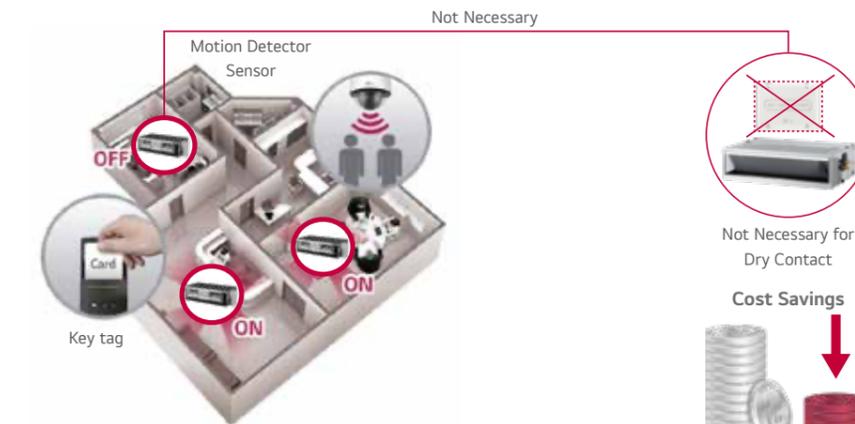
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



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

The indoor unit can be controlled by external devices without dry contact, saving customers on the cost of installation.

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



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

ARNU07GM1A4 / ARNU09GM1A4  
ARNU12GM1A4 / ARNU15GM1A4  
ARNU18GM1A4 / ARNU24GM1A4



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

Note :

- Performance tested under EN14511
- 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
- Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump					○	
Cassette Cover					-	
Refrigerant Leak Detector			PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit			PRGK024A0 (-5.6kW)			
Multi-tenant Power Module			PINPMB001			
Robot Cleaner					-	
Pre Filter (Washable)					○	
Ion Generator					-	
CO <sub>2</sub> Sensor					-	
Ventilation Kit					-	
IR Receiver				PWLRVN000		
Zone Controller				ABZCA		
Dry Contact (with additional accessory)				PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)					○	
Wi-Fi				PWFMD200		

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

ARNU28GM2A4 / ARNU36GM2A4  
ARNU42GM2A4 / ARNU48GM3A4  
ARNU54GM3A4



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

Note :

- Performance tested under EN14511
- 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
- Due to our policy of innovation, some specifications may be changed without notification

## Accessories

CHASSIS	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump					○
Cassette Cover					-
Refrigerant Leak Detector			PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit					-
Multi-tenant Power Module					PINPMB001
Robot Cleaner					-
Pre Filter (Washable)					○
Ion Generator					-
CO <sub>2</sub> Sensor					-
Ventilation Kit					-
IR Receiver				PWLRVN000	
Zone Controller				ABZCA	
Dry Contact (with additional accessory)				PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)					○
Wi-Fi				PWFMD200	

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

## ARNU76GB8A4 / ARNU96GB8A4



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

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

## Accessories

CHASSIS	ARNU76GB8A4	ARNU96GB8A4
Drain Pump		○
Cassette Cover		-
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit		○
Multi-tenant Power Module	PINPMB001	
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver	PWLRVN000	
Zone Controller	ABZCA	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○
Wi-Fi	PWFMD200	

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

ARNU05GL4G4 / ARNU07GL4G4  
ARNU09GL4G4 / ARNU12GL5G4

MODEL	UNIT	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Cooling Capacity	kW	1.8	2.2	2.8	3.6
Heating Capacity	kW	2.2	2.5	3.2	4
Power Input (H / M / L)	Nominal W	15 / 13 / 11	28 / 24 / 21	28 / 24 / 21	43 / 38 / 35
Dimensions (W x H x D)	Body	700 x 190 x 460	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460
	Shipping	925 x 255 x 561	925 x 255 x 561	925 x 255 x 561	1,125 x 255 x 561
Fan	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m <sup>3</sup> /min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m <sup>3</sup> /min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25.4 (1)	Ø25.4 (1)	Ø25.4 (1)
Weight	Body kg	14.6	14.6	14.6	20
Sound Pressure Levels (H / M / L)	dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22	29 / 27 / 25
Sound Power Levels (H / M / L)	dB(A)	32.5 / 31.4 / 29.6	34 / 31.4 / 29.6	36.1 / 32.5 / 29.6	35.1 / 32.7 / 30.7
Power Supply	V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60
Transmission Cable	mm <sup>2</sup>	1.0 ~ 1.5 x 2C			

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

## Accessories

CHASSIS	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Drain Pump				○
Cassette Cover				-
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit				PRGK024A0 (ARNU**GL4G4 Only)
Multi-tenant Power Module	PINPMB001			
Robot Cleaner				-
Pre Filter (Washable)				○
Ion Generator				-
CO <sub>2</sub> Sensor				-
Ventilation Kit				-
IR Receiver	PWLRVN000			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)				○
Wi-Fi	PWFMD200			

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

ARNU15GL5G4 / ARNU18GL5G4  
ARNU21GL6G4 / ARNU24GL6G4



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

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

Accessories

CHASSIS	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Drain Pump			○	
Cassette Cover			-	
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV1S (R32)		
EEV Kit			-	
Multi-tenant Power Module		PINPMB001		
Robot Cleaner			-	
Pre Filter (Washable)			○	
Ion Generator			-	
CO <sub>2</sub> Sensor			-	
Ventilation Kit			-	
IR Receiver		PWLRVN000		
Zone Controller			-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)			○	
Wi-Fi		PWFMD200		

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

ARNU07GM2A4 / ARNU09GM2A4  
ARNU12GM2A4 / ARNU15GM2A4  
ARNU18GM3A4



MODEL	UNIT	ARNU07GM2A4	ARNU09GM2A4	ARNU12GM2A4	ARNU15GM2A4	ARNU18GM3A4	
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	
Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	
Power Input (H / M / L)	W	32 / 29 / 27	32 / 29 / 27	33 / 30 / 28	33 / 30 / 28	97 / 70 / 51	
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
Fan	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	500 x 1	
	Air Flow Rate (H / M / L) (High static Mode - factory set)	m <sup>3</sup> /min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m <sup>3</sup> /min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	-	-	-	-	
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	
Net Weight	kg	36	36	36	36	42.2	
Sound Pressure Levels (H / M / L)	dB(A)	33 / 33 / 32	33 / 33 / 32	34 / 33 / 32	34 / 33 / 32	38 / 36 / 34	
Sound Power Levels (H / M / L)	dB(A)	52 / 52 / 52	52 / 52 / 52	53 / 52 / 52	53 / 52 / 52	52 / 51 / 50	
Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
Transmission Cable	mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	

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

Accessories

CHASSIS	ARNU07GM2A4	ARNU09GM2A4	ARNU12GM2A4	ARNU15GM2A4	ARNU18GM3A4
Drain Pump					○
Cassette Cover					-
Refrigerant Leak Detector		PRLDNV50 (R410A), PLDRNV1S (R32)			
EEV Kit					-
Multi-tenant Power Module			PINPMB001		
Robot Cleaner					-
Pre Filter (Washable)					○
Ion Generator					-
CO <sub>2</sub> Sensor					-
Ventilation Kit					-
IR Receiver		PWLRVN000			
Zone Controller			ABZCA		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)					○
Wi-Fi			PWFMD200		

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

ARNU24GM3A4 / ARNU28GM3A4  
 ARNU36GB8A4 / ARNU42GB8A4  
 ARNU48GB8A4



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

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

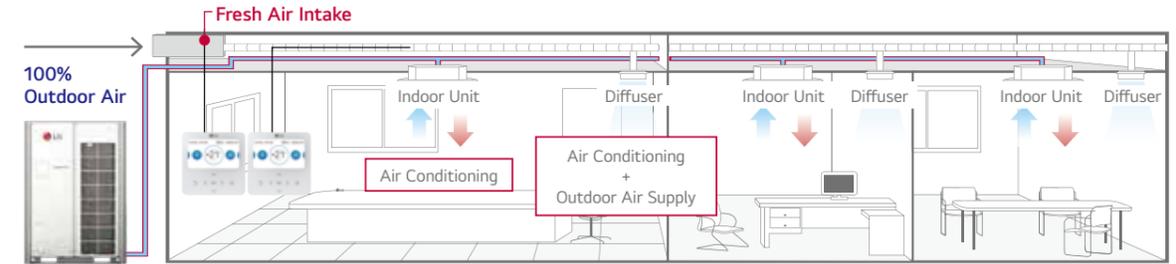
Accessories

CHASSIS	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Drain Pump			○		
Cassette Cover			-		
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit			-		
Multi-tenant Power Module			PINPMB001		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			-		
CO <sub>2</sub> Sensor			-		
Ventilation Kit			-		
IR Receiver			PWLRVN000		
Zone Controller			ABZCA		
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			PWFMD200		

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

Fresh Outdoor Air Supply

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

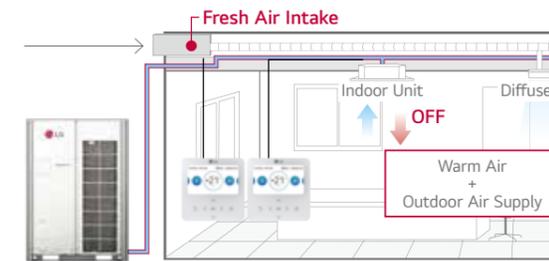


MULTI V i Outdoor unit

Economic Operation

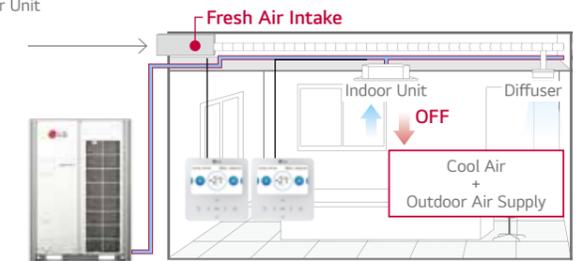
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



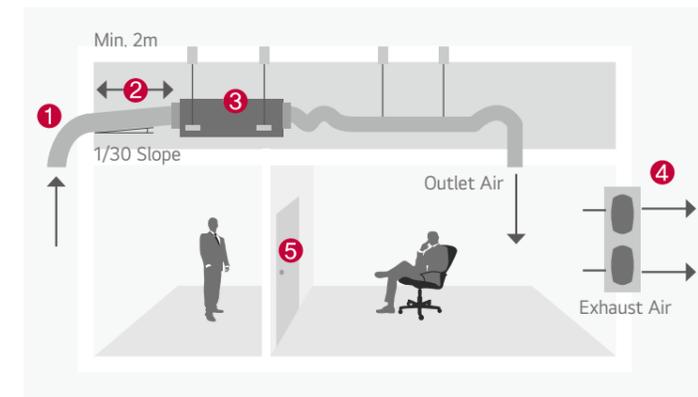
MULTI V i Outdoor unit

Autumn Season



MULTI V i Outdoor unit

Installation Scene



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

ARNU76GB8Z4 / ARNU96GB8Z4



MODEL	UNIT	ARNU76GB8Z4	ARNU96GB8Z4
<b>Cooling Capacity</b>	kW	22.4	28.0
<b>Heating Capacity</b>	kW	21.4	26.7
<b>Power Input (H / M / L)</b>	Nominal W	230 / 200 / 200	360 / 230 / 230
<b>Dimensions (W x H x D)</b>	Body mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping mm	1,806 x 537 x 825	1,806 x 537 x 825
<b>Fan</b>	Type	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m <sup>3</sup> /min	23.7 / 13.2 / 13.2
	External Static Pressure	mmAq (Pa)	22 (216)
	Motor Type		BLDC
<b>Air Filter</b>		Long Life Filter	Long Life Filter
<b>Pipe Connections</b>	Liquid Side	mm (inch)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)
<b>Weight</b>	Body kg	73.0	73.0
<b>Sound Pressure Levels (H / M / L)</b>	dB(A)	45 / 43 / 43	47 / 45 / 45
<b>Sound Power Levels (H / M / L)</b>	dB(A)	70 / 67 / 67	72 / 70 / 70
<b>Power Supply</b>	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
<b>Transmission Cable</b>	mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

**CAUTION**

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

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

**Accessories**

CHASSIS	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump		○
Cassette Cover		-
Refrigerant Leak Detector		PRLDNVS0 (R410A), PLDRNV1S (R32)
EEV Kit		-
Multi-tenant Power Module		PINPMB001
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO <sub>2</sub> Sensor		-
Ventilation Kit		-
IR Receiver		PWLRVN000
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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



**Features & Benefits**

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

**Key Applications**

- Retail
- Restaurant
- Shop

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

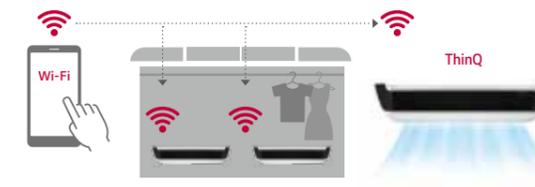
※ ○: Applied, - : Not applied

**Wi-Fi Control**

Access your air conditioner anytime and from anywhere.

**ThinQ**

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



**Easy Registration and Log-in**

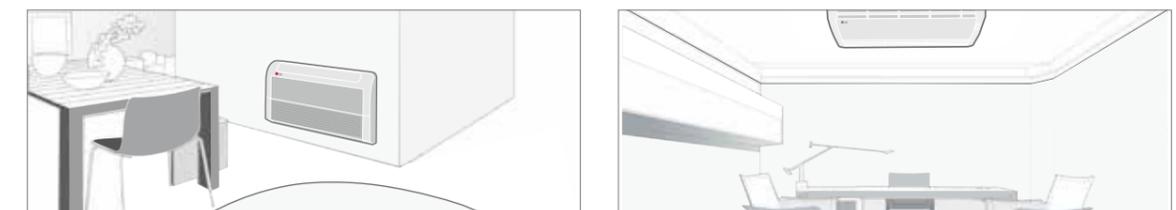
Follow the easy set-up steps that will activate ThinQ's impressive feature.



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

**Flexible**

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



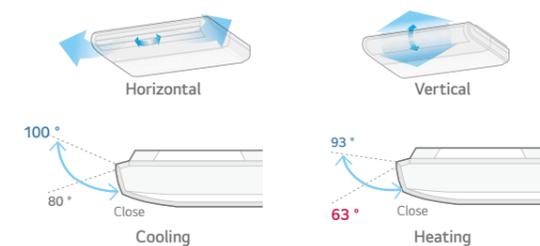
**Filter Change Alarm**

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



**Air Flow Direction Control**

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



## Differentiated Design

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



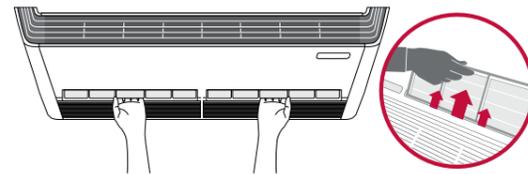
## Powerful Cooling & Heating

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



## One Touch & 2 Piece Filter

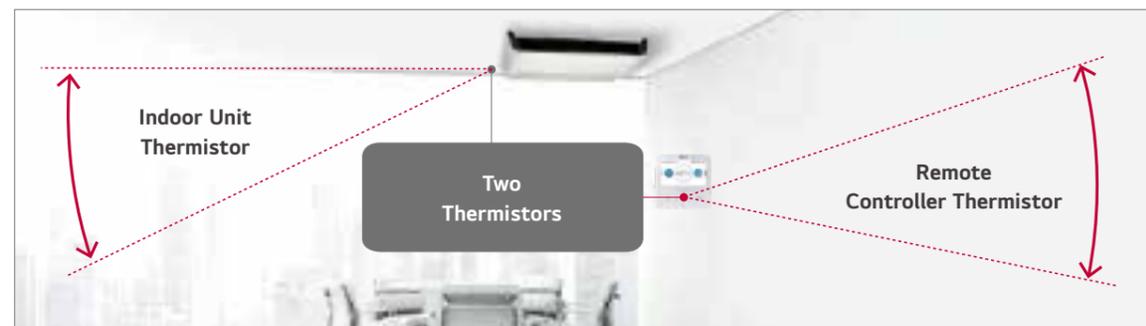
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

## Two Thermistors Control

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



ARNU09GVEA4 / ARNU12GVEA4



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

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

Accessories

CHASSIS	ARNU09GVEA4	ARNU12GVEA4
Drain Pump	-	-
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Plasma Kit	-	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO <sub>2</sub> Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200 <sup>1)</sup>	

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

ARNU18GV1A4 / ARNU24GV1A4  
 ARNU36GV2A4 / ARNU48GV2A4



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

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

Accessories

CHASSIS	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Drain Pump	-			
Cassette Cover	-			
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit	-			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO <sub>2</sub> Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMD200			

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



**Features & Benefits**

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

**Key Applications**

- Residential building
- Historical building
- Hotel

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

※ ○: Applied, -: Not applied

**Wi-Fi Control**

Access your air conditioner anytime and from anywhere.

**ThinQ**

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

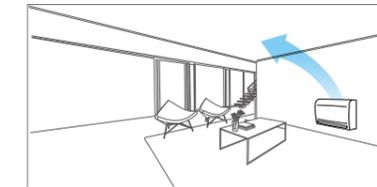


※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

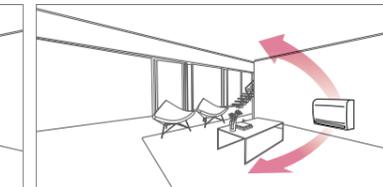
**Air Flow Direction Change**

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

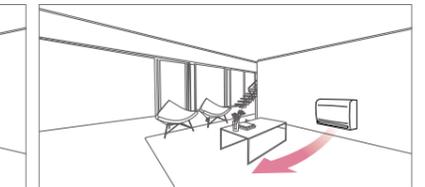
**Cooling**



**Heating (Normal)**



**Heating (Option)**



**Cold Draft Protection**

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

**Without Console**

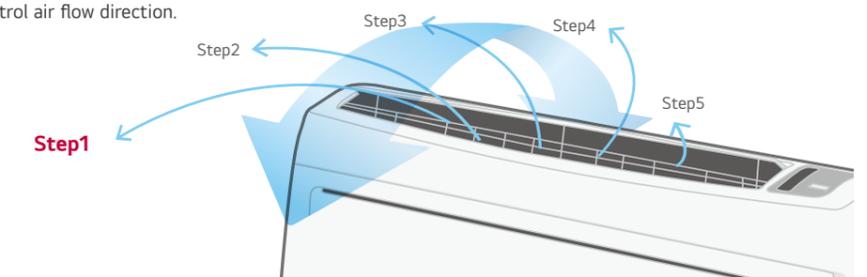


**With Console**



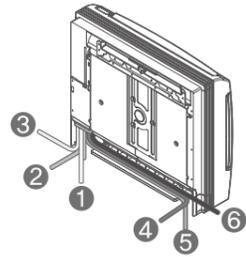
**5-Step Vane Control**

There are 5 different stages to control air flow direction.



## 6 Way Flexible Piping

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



## ARNU07GQAA4 / ARNU09GQAA4



MODEL	UNIT	ARNU07GQAA4	ARNU09GQAA4
Cooling Capacity	kW	2.2	2.8
Heating Capacity	kW	2.5	3.2
Power Input (H / M / L)	Nominal W	15 / 12 / 10	15 / 12 / 10
Exterior Color		Morning Fog	Morning Fog
RAL Code		RAL 9001	RAL 9001
Dimensions (W x H x D)	Body mm	700 x 600 x 210	700 x 600 x 210
	Shipping mm	775 x 662 x 284	775 x 662 x 284
Fan	Type	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	48 x 1
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	6.7 / 5.9 / 4.8
	Motor Type		BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.) mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	kg	14.0	14.0
Sound Pressure Levels (H / M / L)	dB(A)	37 / 34 / 28	37 / 34 / 28
Sound Power Levels (H / M / L)	dB(A)	53 / 50 / 44	53 / 50 / 44
Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable	mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

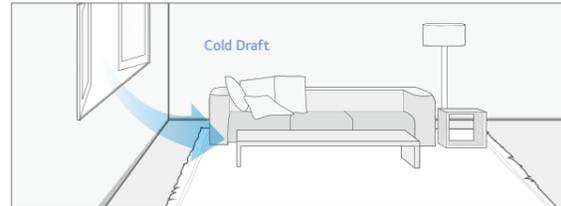
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

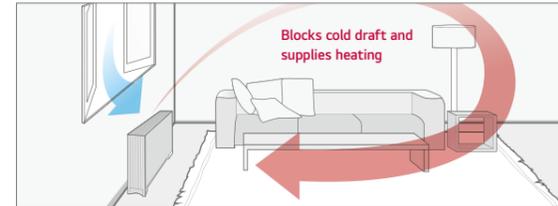
## Protect Cold Draft

The floor standing unit protects cold draft from coming from the window, preventing condensation.

### Without Floor Standing

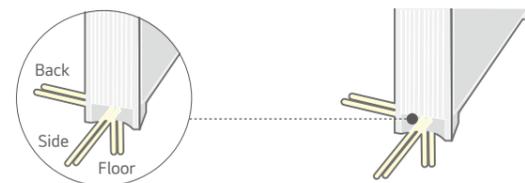


### With Floor Standing



## 3 Way Flexible Piping

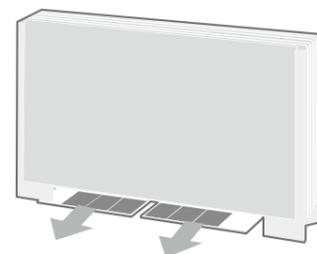
It is possible to install and connect the outdoor unit in 3 different ways. (Side, Back, Floor)



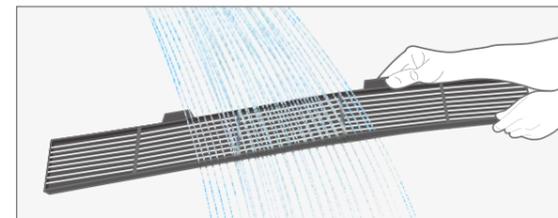
## Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.

Sliding type



Easy cleaning



## Accessories

CHASSIS	ARNU07GQAA4	ARNU09GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	-
Pre Filter (Washable)	○	○
Ion Generator	○	○
CO <sub>2</sub> Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	○
Wi-Fi	PWFMD200	

※ ○ : Applied, - : Not Applied

Option: Refer to model name in table

ARNU12GQAA4 / ARNU15GQAA4



MODEL		UNIT	ARNU12GQAA4	ARNU15GQAA4
Cooling Capacity		kW	3.6	4.5
Heating Capacity		kW	4.0	5.0
Power Input (H / M / L) Nominal		W	18 / 15 / 13	24 / 19 / 17
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	700 x 600 x 210	700 x 600 x 210
	Shipping	mm	775 x 662 x 284	775 x 662 x 284
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	48 x 1	48 x 1
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	14.0	14.0
Sound Pressure Levels (H / M / L)		dB(A)	39 / 34 / 28	42 / 37 / 31
Sound Power Levels (H / M / L)		dB(A)	56 / 50 / 44	58 / 53 / 50
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm <sup>2</sup>	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU12GQAA4	ARNU15GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	-
Pre Filter (Washable)	○	○
Ion Generator	○	○
CO <sub>2</sub> Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200	

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

ARNU07GCEA4 / ARNU09GCEA4  
 ARNU12GCEA4 / ARNU15GCEA4  
 ARNU18GCEA4 / ARNU24GCEA4



※ A : Floor Standing with case

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

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

Accessories

CHASSIS	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCEA4	ARNU24GCEA4
Drain Pump	-	-	-	-	-	-
Cassette Cover	-	-	-	-	-	-
Refrigerant Leak Detector	PRLDNV50 (R410A), PLDRNV1S (R32)		PRLDNV50 (R410A), PLDRNV1S (R32)		PRLDNV50 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0		PRGK024A0		PRGK024A0	
Multi-tenant Power Module	PINPMB001		PINPMB001		PINPMB001	
Robot Cleaner	-	-	-	-	-	-
Pre Filter (Washable)	-	○	-	-	-	○
Ion Generator	-	-	-	-	-	-
CO <sub>2</sub> Sensor	-	-	-	-	-	-
Ventilation Kit	-	-	-	-	-	-
IR Receiver	-	PWLVRN000		-	PWLVRN000	
Zone Controller	-	-	-	-	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○		○		○	
Wi-Fi	PWFMD200		PWFMD200		PWFMD200	

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

ARNU07GCEU4 / ARNU09GCEU4  
 ARNU12GCEU4 / ARNU15GCEU4  
 ARNU18GCFU4 / ARNU24GCFU4



※ U : Floor Standing without case

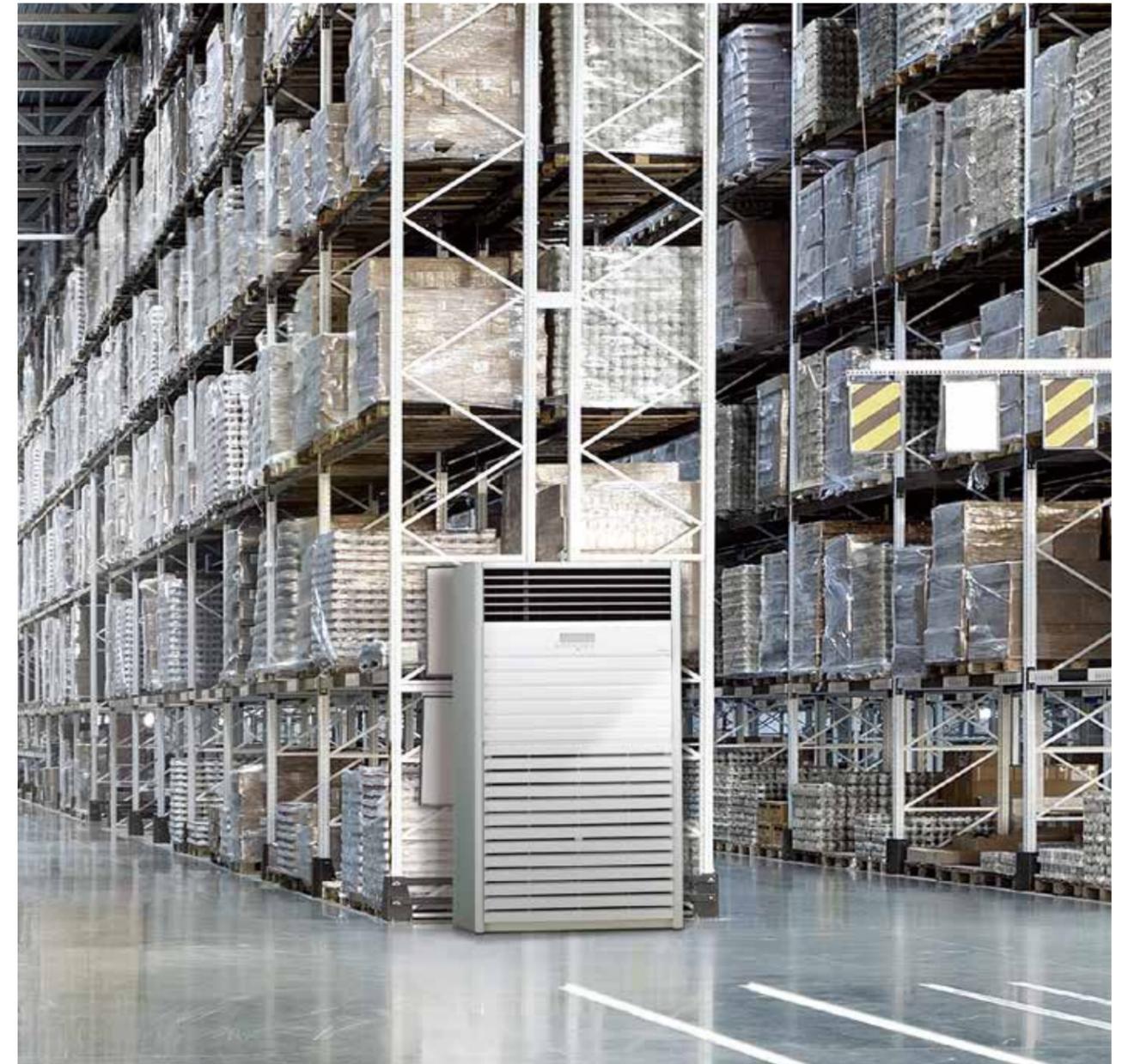
MODEL	UNIT	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29
Dimensions (W x H x D)	Body	mm	978 x 639 x 190	978 x 639 x 190	978 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190
	Shipping	mm	1,055 x 702 x 260	1,055 x 702 x 260	1,055 x 702 x 260	1,333 x 702 x 260	1,333 x 702 x 260
Fan	Type		Sirocco Fan				
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 2			
	Air Flow Rate (H / M / L)	m <sup>3</sup> /min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)				
Weight	Body	kg	21.0	21.0	21.0	25.0	25.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	59 / 57 / 53
Power Supply	V / Ø / Hz		220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable	mm <sup>2</sup>		1.0 ~ 1.5 x 2C				

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

Accessories

CHASSIS	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Drain Pump		-	-	-	-	-
Cassette Cover		-	-	-	-	-
Refrigerant Leak Detector		PRLDNVSO (R410A), PLDRNV1S (R32)			PRLDNVSO (R410A), PLDRNV1S (R32)	
EEV Kit		PRGK024A0				
Multi-tenant Power Module		PINPMB001			PINPMB001	
Robot Cleaner		-	-	-	-	-
Pre Filter (Washable)		○			○	
Ion Generator		-	-	-	-	-
CO <sub>2</sub> Sensor		-	-	-	-	-
Ventilation Kit		-	-	-	-	-
IR Receiver		PWLRVN000			PWLRVN000	
Zone Controller		-	-	-	-	-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)		○			○	
Wi-Fi		PWFMD200			PWFMD200	

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



Features & Benefits

- Powerful air speed and volume means the air flow can reach up to 30m away from the air conditioner

Key Applications

- Factory
- Retail
- Shop
- Office
- Restaurant

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

※ ○: Applied, - : Not applied  
 \* Extra module is necessary for Wi-Fi (module: PWFMD200)

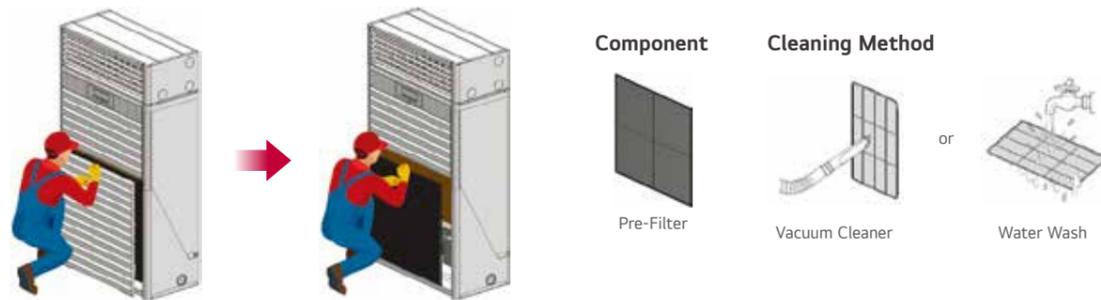
## Airflow to Distant Spaces

The new Floor Standing Unit can blow both cooled and heated air into a space as far as 30m away.



## Easy Filter Cleaning

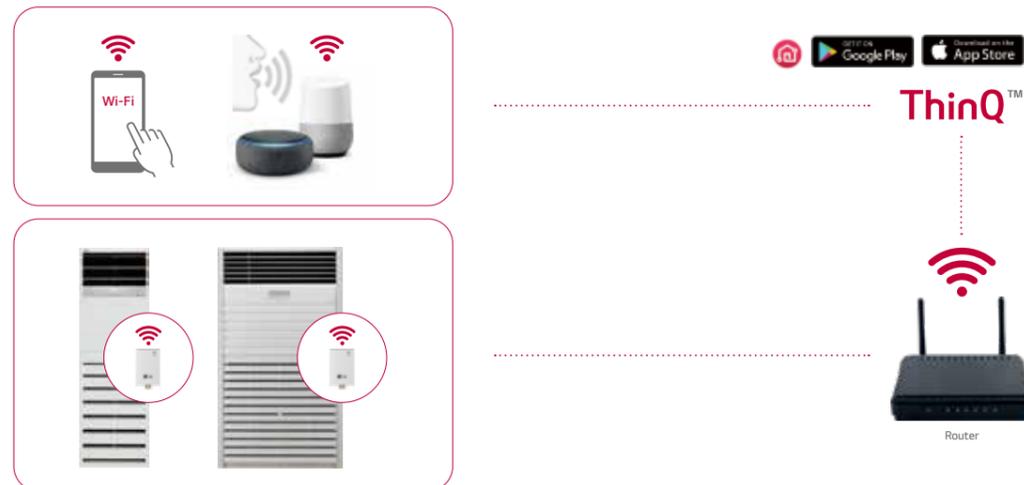
Standing on the floor, customers can easily separate the filter from the indoor unit. They can also easily clean the filter with a vacuum cleaner or water.



\* You may need professional help to clean the filter.

## Wi-Fi Control with LG ThinQ

Customers can monitor and control the new Floor Standing Unit anytime, anywhere through LG ThinQ.



\* The Wi-Fi modem is separately purchased as an accessory.  
\* The router and smart speakers are purchased separately.  
\* The Functions may vary depending on the indoor unit and region.

## ARNU48GPTA4 / ARNU96GPFA4



MODEL	UNIT	ARNU48GPTA4	ARNU96GPFA4	
Cooling Capacity	kW	14.1	28.0	
Heating Capacity	kW	15.9	31.5	
Power Input	Cooling (SH / H / M / L)	260 / 190 / 140 / 110	400 / 280 / - / 180	
	Heating (SH / H / M / L)	260 / 190 / 140 / 110	400 / 280 / - / 180	
FLA (Full Load Ampere)	A	1.3	2.3	
Casing		Galvanized Steel Plate		
Dimensions (W×H×D)	Body	mm	590 × 1,840 × 440	1,050 × 1,880 × 495
	Rows × Columns ×FPI		3 ×38 ×19	3 ×40 ×19
Coil	Face Area	m <sup>2</sup>	0.39	0.77
	Type		Blower Fan	Blower Fan
Fan	Motor Output x Number	W	224 × 1	700 × 1
	Air Flow Rate (SH / H / M / L) (Standard Mode)	m <sup>3</sup> / min	37 / 33 / 28 / 24	68 / 61 / - / 50
	Drive		Direct	
	Motor Type		BLDC	
Temperature Control		Microprocessor, Thermostat for cooling and heating		
Sound Absorbing Thermal Insulation Material		Foamed Polystyrene		
Air Filter		-		
Safety Device		Fuse		
Pipe Connections	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	15.88 (5/8)	22.2 (7/8)
	Drain(D)	mm	19	22
Net Weight	kg (lbs)	48 (105.8)	103 (227.0)	
Sound Pressure Level (SH / H / M / L)	dB (A)	54 / 51 / 49 / 45	60 / 57 / - / 53	
	V / Ø / Hz	220 / 1 / 60	220 / 1 / 60	
Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	
			EEV	
Refrigerant Control		EEV		
Communication Cable	mm <sup>2</sup> (VCTF-SB)	1.0 - 1.5 × 2C	1.0 - 1.5 × 2C	

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 * Combined with Multi V Water S outdoor unit, this function is not available.
		Monitoring accumulated power consumption by Central Control Device / PDI	-	○	* Necessary to install the PDI (Power Distribution Indicator) * 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 * Combined with Multi V Water S outdoor unit, this function is not available.
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronization according to occupied / unoccupied by Indoor and Central control 2) Synchronization icon with remote controller (Synchronization Monitoring)	○	○	* Centralized control is able to when you combine only 4th generation indoor units (Use together with 2nd generation and 4th generation indoors, only wired remote controller is able to set this function as existing way) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.) * Combined with Multi V Water S outdoor unit, this function is not available.
4	Group Control	Group Control can use Additional function	○	○	* Check more details in PDB (Product Data Book) * 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) * Combined with Multi V Water S outdoor unit, this function is not available. * 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 Step)	○	-	* Thermo On / Off temperature setting (4 step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	○	-	* Only applied in Ceiling Concealed Duct
12	1 point External Input (On / Off control)	Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th generation indoors)	○	-	* Simple On/Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit / Console / FAU / Floor Standing (with case / without case) : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen. After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off	○	○	* The alarm activates on the central controller, but the remaining time is not displayed.
14	Auto restart function Disable / Enable	Monitoring indoor humidity Wired Remote Controller	○	-	
15	Indoor Humidity display	set the outdoor unit comfort cooling operation value	○	○	* Available only with MULTI V <i>i</i>
16	Comfort Cooling setting	Change the outdoor unit's Smart Load Control stage value.	○	○	* Available only with MULTI V <i>i</i>
17	Smart Load Control setting	set the outdoor unit's refrigerant noise reduction function	○	○	* Available only with MULTI V <i>i</i>
18	ODU Refrigerant Noise Reduction setting	set the start and end time of the outdoor unit's low noise mode operation	○	○	* Available only with MULTI V <i>i</i>
19	Low noise mode time setting				

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

WIRED REMOTE CONTROLLER						CENTRALIZED CONTROLLER				
NEW DELUXE (PREMTA201)	PREMIUM (PREMTA000 PREMTA000A PREMTA000B)	STANDARD III (PREMTB101) (PREMTBB1)	STANDARD II (PREMTB01) (PREMTB001)	SIMPLE		AC EZ (PQCSZ250S0)	AC EZ TOUCH (PACEZA000)	AC SMART 5 (PAC55A000)	ACP 5 (PACPSA000)	AC MANAGER 5 (PACM5A000)
				SIMPLE FOR HOTEL (PQRCHCA0Q / QW)	SIMPLE (PQRCVCL0Q / QW)					
○	○	○	○	-	-	-	○	○	○	○
-	-	-	-	-	-	-	○	○	○	○
○	○	○	-	-	-	-	○	○	○	○
○	○	○	○	-	-	-	-	○	○	○
○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	-	-	-	-	○	○	-
○	○	○	○	-	-	-	-	-	-	-
○ (4 step)	○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	○ (3 step)	-	-	-	-	-
○	○	○	○	○	○	-	-	-	-	-
○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	-	-	○	○	○	○	○
○	○	○	○	-	-	-	-	-	-	-
○	○	○	-	-	-	-	-	○	○	-
○	○	○	-	-	-	-	○	○	○	-

※ ○ : Applied, - : Not applied



Controller Name	Wired Remote Controller						Wireless Remote Controller	
	Deluxe	Premium	Standard III	Standard II	Simple	Simple (Hotel)		
Model Name								
	PREMTA201	PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P)	
Basic	On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Fan Speed Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Temperature Setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Mode Change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	
	Auto Swing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Vane Control (Louver Angle)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	E.SP (External Static Pressure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Electric Failure Compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Indoor Temperature Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	ALL Button Lock (Child Lock)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Advanced	Schedule / Timer	Pre-set Schedule Mode <sup>2)</sup> / Weekly-Yearly	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off
	Additional Mode Setting <sup>1)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Time Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	<input type="radio"/>
	Humid. Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Advanced Lock	-	-	-	-
	Filter Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Energy Management <sup>3)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Dual Set Point	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
	Human Detection	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-
	Temp, Humidity Compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
ETC	Wi-Fi AP mode setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Proximity Sensor	<input type="radio"/>	-	-	-	-	-	-
	Operation Status LED	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Wireless Remote Controller Receiver	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	-	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	-
	Display	4.3 inch Color	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	110 x 110 x 15	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26
Black Control for Screen Saver	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-	

※ ○: Applied, - : Not Applied

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

2) Only for Residential GUI (Based on the housing usage patterns in the United States, please assess whether it is applicable for your usage conditions before using it.)

3) Centralized control (PACEZA000 / PAC55A000 / PACP5A000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function

4) 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 > DocLibrary > Manual)

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# HOT WATER SOLUTION

HYDRO KIT



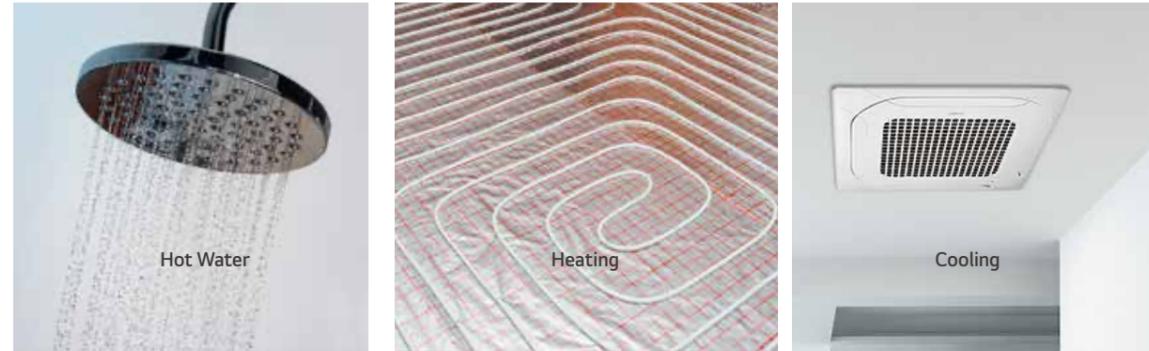
# HYDRO KIT

## Features & Benefits

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

## Key Applications

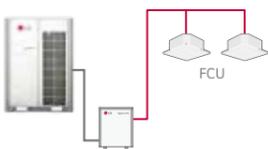
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiators. Or where cold water is needed, such as a fan coil unit and chilled beam.



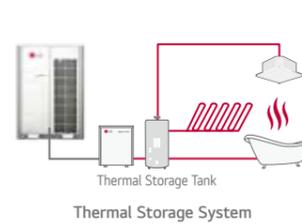
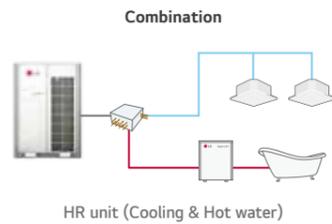
Radiant Heating / Cooling



Fan Coil Unit Heating / Cooling

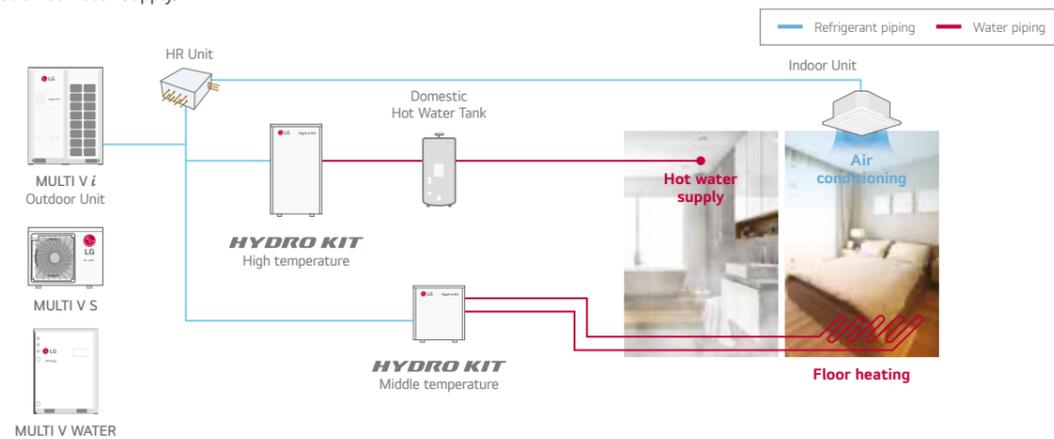


Hot Water / Cold Water



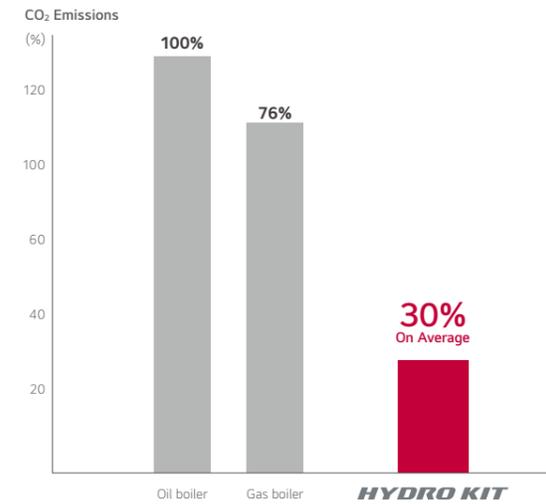
## Total Solution

A total solution is provided with a heat pump, air conditioning (cooling by refrigerant and cold water / heating by refrigerant hot water) and domestic hot water supply.



## Eco-conscious Solution

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



## Space Saving

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



### Compatible with compact R32 MULTI V S

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



# Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

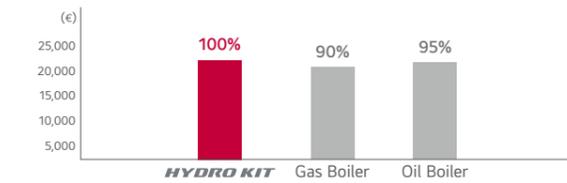
## 1st Proposal MULTI V i HYDRO KIT

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

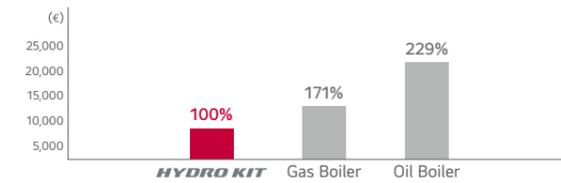
## Analysis Conditions

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

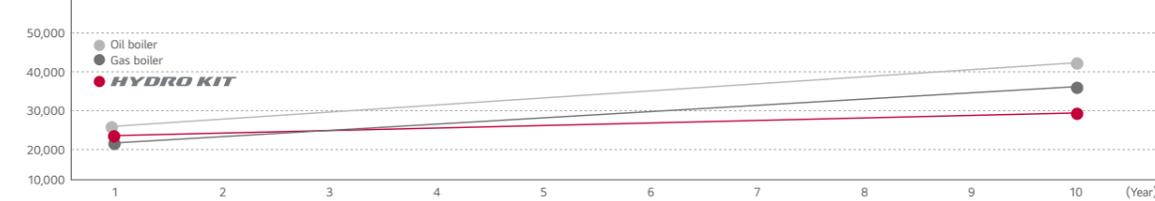
### Initial Costs



### Annual Operating Costs



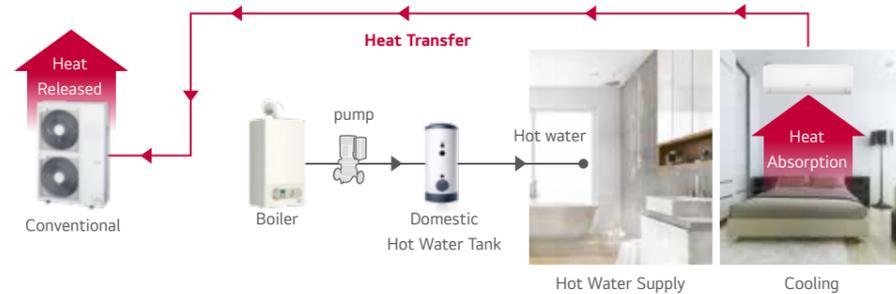
### LCC



# Energy Savings through Heat Recovery

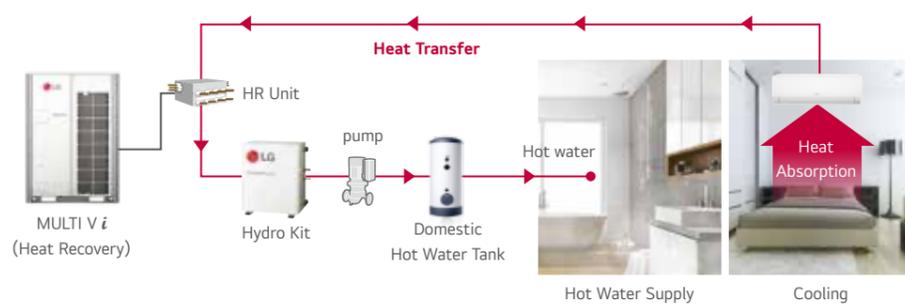
## Conventional

Absorbed heat is released to outdoor air.



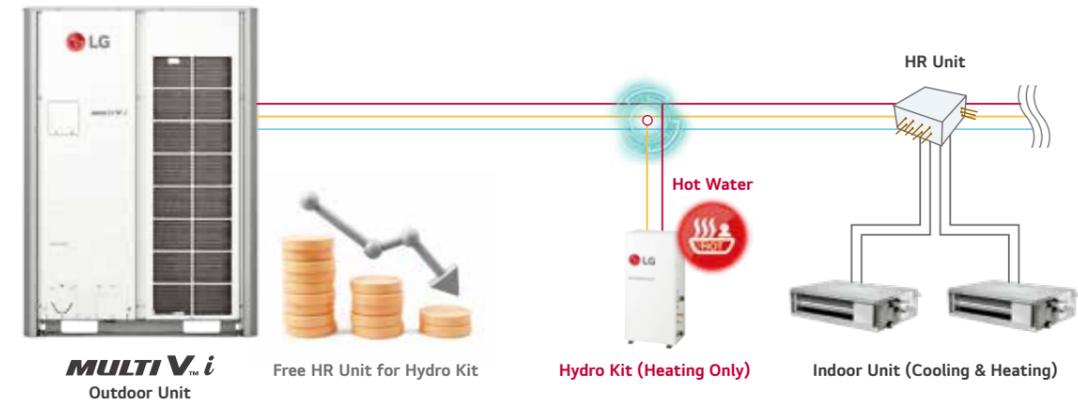
## HYDRO KIT

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



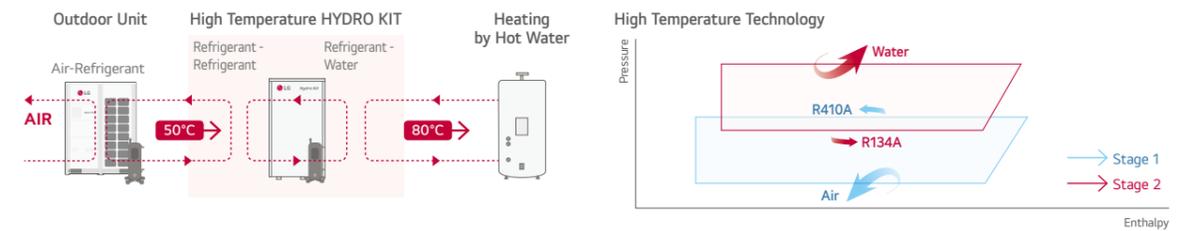
# Free HR Unit for Hydro Kit

With MULTI V i, HR Units are not required for Hydro Kit which operates in only heating to supply hot water. As such, it can reduce the initial investment cost for the HVAC system.



- ※ The Free HR Unit function will be available in November, 2023 by applying MULTI V i. However, the schedule for this function may change.
- ※ When applying the Hydro Kit for heating only, the Hydro Kit can be connected to the outdoor unit without the HR Unit.
- ※ There are some restrictions on the installation of the Free HR Unit, such as the combination ratio and the height difference between the outdoor unit and the Hydro Kit. Therefore, you must check the restrictions in advance by contacting the LG sales engineer who is responsible for your country.

# High Temperature HYDRO KIT Cycle Diagram



# Various Applications

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



ARNH18GK1A4 / ARNH24GK1A4  
ARNH30GK1A4

MODEL		UNIT	ARNH18GK1A4	ARNH24GK1A4	ARNH30GK1A4		
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60		
Capacity (Rated)		kW	5.6	7.1	9.0		
		Cooling	kcal/h	4,800	6,100	7,700	
			Btu/h	19,100	24,200	30,700	
		Heating	kW	5.6	7.1	9.0	
			kcal/h	4,800	6,100	7,700	
		Btu/h	19,100	24,200	30,700		
Input (Rated)		Cooling	W	75	75		
		Heating	W	75	75	75	
Running Current (220 - 230 - 240V)		Cooling / Heating	A	0.70 - 0.67 - 0.64	0.70 - 0.67 - 0.64	0.70 - 0.67 - 0.64	
Casing		Material	-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate	
		RAL (Classic)	-	RAL 9003	RAL 9003	RAL 9003	
Dimensions		Net(W x H x D)	mm	490 x 850 x 315	490 x 850 x 315	490 x 850 x 315	
		Shipping(W x H x D)	mm	1,082 x 563 x 375	1,082 x 563 x 375	1,082 x 563 x 375	
Weight		Net	kg	42.0	42.0	42.0	
		Shipping	kg	47.0	42.0	42.0	
Heat Exchanger		Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	
		Refrigerant to Water	Quantity	EA	1	1	1
			Number of Plate	EA	54	54	54
			Water Volume	ℓ	0.7	0.7	0.7
			Rated Water Flow	ℓ/min	15.8	20.1	25.9
Head Loss			m	0.22	0.30	0.40	
Water Pump		Type	-	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation	Canned Type for Hot Water Circulation	
		Model	-	GRUNDFOS UPM3K 20-75 CHBL	GRUNDFOS UPM3K 20-75 CHBL	GRUNDFOS UPM3K 20-75 CHBL	
		Motor Type	-	AC Motor	AC Motor	AC Motor	
		Steps of Pump Performance	-	Variable Capacity 10% to 100%	Variable Capacity 10% to 100%	Variable Capacity 10% to 100%	
		Power input	Min. - Max.	W	3 - 60	3 - 60	3 - 60
Expansion Vessel		Volume	Max.	ℓ	8.0	8.0	8.0
		Water pressure	Max.	bar	3.0	3.0	3.0
		Water pressure	Pre-charged	bar	1.0	1.0	1.0
Strainer		Mesh size	-	28 mesh	28 mesh	28 mesh	
		Material	-	Stainless Steel	Stainless Steel	Stainless Steel	
Relief valve		Pressure Limit	Upper Limit	bar	3.0	3.0	3.0



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

## Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Performances are based on the following conditions :
  - Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
  - Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
  - Interconnected Pipe Length is standard length and difference of Elevation (Outdoor - Indoor Unit) is 0m.
- This product contains Fluorinated greenhouse gases.
- 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.

ARNH18GK5A4 / ARNH24GK5A4  
ARNH30GK5A4

MODEL		UNIT	ARNH18GK5A4	ARNH24GK5A4	ARNH30GK5A4
Power Supply	Case 1	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Capacity (Rated)	Cooling	kW	5.6	7.1	9.0
		kcal/h	4,800	6,100	7,700
		Btu/h	19,100	24,200	30,700
	Heating	kW	5.6	7.1	9.0
		kcal/h	4,800	6,100	7,700
		Btu/h	19,100	24,200	30,700
Input (Rated)	Cooling	W	75.0	75.0	75.0
	Heating	W	75.0	75.0	75.0
Water Pump	Type	-	Canned Type for Hot Water Circulation GRUNDFOS (UPM3K 20-75 CHBL)	Canned Type for Hot Water Circulation GRUNDFOS (UPM3K 20-75 CHBL)	Canned Type for Hot Water Circulation GRUNDFOS (UPM3K 20-75 CHBL)
	Model (Maker, Name)	-			
	Motor Type	-	BLDC	BLDC	BLDC
	Steps of Pumping Performance	-	10 ~ 100% (19 Steps)	10 ~ 100% (19 Steps)	10 ~ 100% (19 Steps)
	Power input Min. ~ Max.	W	3 ~ 60	3 ~ 60	3 ~ 60
Expansion Tank	Volume Max.	ℓ	8	8	8
	Water pressure Max.	bar	3	3	3
	Water pressure Pre-charged	bar	1	1	1
Strainer	Mesh size	mesh	30	30	30
	Material	-	STS304	STS304	STS304
Safety Valve (Water cycle)	Pressure Limit (Upper Limit)	bar	3	3	3
Safety Valve (DHW)	Pressure Limit (Upper Limit)	bar	10	10	10
Flow Sensor	Type	-	Vortex	Vortex	Vortex
	Model (Marker, Name)	-	SIKA VVX20	SIKA VVX20	SIKA VVX20
	Measuring Range (Min ~ Max)	ℓ/min	5 ~ 80	5 ~ 80	5 ~ 80



MODEL		UNIT	ARNH18GK5A4	ARNH24GK5A4	ARNH30GK5A4
Electric Backup Heater	Type	-	Sheath	Sheath	Sheath
	Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
	Number of Heating Coil	EA	2	2	2
	Capacity Comination	kW	3	3	3
Heat Exchanger (Refrigerant to Water)	Power Supply Cable (H07RN-F)	■ x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
	Quantity	EA	1	1	1
Refrigerant Piping Connection	Number of Plate	Sheet	52	52	52
	Liquid	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Sound Power Level	Gas	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Heating (Rated)	dB (A)	42	42	42
Dimensions	Net (W x H x D)	mm	600 x 1,750 x 660	600 x 1,750 x 660	600 x 1,750 x 660
	Shipping (W x H x D)	mm	660 x 2,009 x 750	660 x 2,009 x 750	660 x 2,009 x 750
Weight	Net	kg	118	118	118
	Shipping	kg	137	137	137
Connecting Cable	Power Supply Cable (H07RN-F)	mm <sup>2</sup> x cores	1.5 x 3C	1.5 x 3C	1.5 x 3C
	Communication Cable (VCTF-SB)	mm <sup>2</sup> x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

## Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Performances are based on the following conditions :
  - Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
  - Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
  - Interconnected Pipe Length is standard length and difference of Elevation (Outdoor - Indoor Unit) is 0m.
- This product contains Fluorinated greenhouse gases.
- 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.

## ARNH04GK2A4 / ARNH10GK2A4



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

1) Nominal : Performance tested under EN14511

Note :

1. Capacities are based on the following conditions :

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

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

2. Piping Length : Interconnected Pipe Length = 7.5m

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

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

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

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

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

## Accessories

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

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

ARNH04GK3A4 / ARNH08GK3A4  
ARNH04LK3A4 / ARNH08LK3A4

MODEL	UNIT	ARNH04GK3A4	ARNH08GK3A4	ARNH04LK3A4	ARNH08LK3A4
Heating Capacity	kW	13.8	25.2	13.8	25.2
Power Input Nominal <sup>1)</sup>	W	2,300	5,000	2,300	5,000
Exterior Color		Morning Gray	Morning Gray	Morning Gray	Morning Gray
RAL Code		RAL 7030	RAL 7030	RAL 7030	RAL 7030
Dimensions (W x H x D)	Body	520 x 1,074 x 330	520 x 1,080 x 330	520 x 1,074 x 330	520 x 1,074 x 330
	Shipping	682 x 1,168 x 423	682 x 1,168 x 423	682 x 1,168 x 423	682 x 1,168 x 423
Pipe Connections	Liquid Side	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	A (inch)	25A (Male PT 1)	25A (Male PT 1)	25A (Male PT 1)
Water Pipe Connections	Inlet	A (inch)	25A (Male PT 1)	Male PT1	Male PT 1
	Outlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)	Male PT1
Weight	kg	86.0	91.0	84.0 (185.2)	90.0 (198.4)
Sound Pressure Levels (H / M / L)	dB(A)	43	46	44	46
Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-400-415 / 3 / 50-60	380-400-415 / 3 / 50-60
Communication Cable	mm <sup>2</sup> x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

1) Nominal : Performance tested under EN14511

Note :

1. Capacities are based on the following conditions :

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

2. Piping Length : Interconnected Pipe Length = 7.5m

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

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

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

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

## Accessories

CHASSIS	ARNH04GK3A4	ARNH08GK3A4	ARNH04LK3A4	ARNH08LK3A4
Drain Pump	-	-	-	-
Cassette Cover	-	-	-	-
Refrigerant Leak Detector			PRLDNVSO	
EEV Kit	-	-	-	-
Multi-tenant Power Module			○	
Robot Cleaner	-	-	-	-
Pre Filter (Washable)	-	-	-	-
Ion Generator	-	-	-	-
CO <sub>2</sub> Sensor	-	-	-	-
Ventilation Kit	-	-	-	-
IR Receiver	-	-	-	-
Zone Controller	-	-	-	-
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact), PDRYCB320	
External Input (1 point)			○	
Wi-Fi			PWFMD200	

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

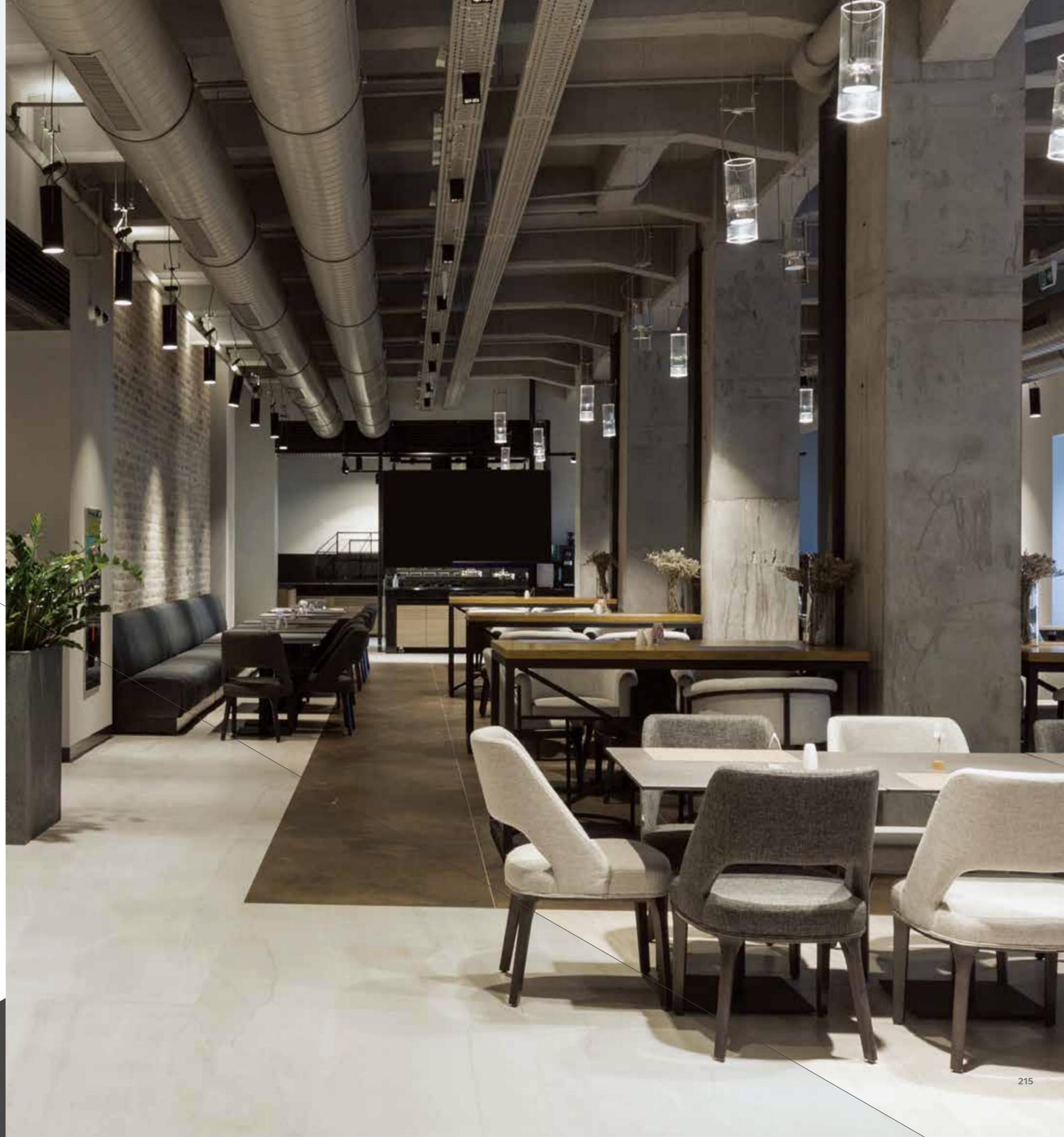
214 ~ 231

# VENTILATION SOLUTIONS

ERV

ERV WITH DX COIL

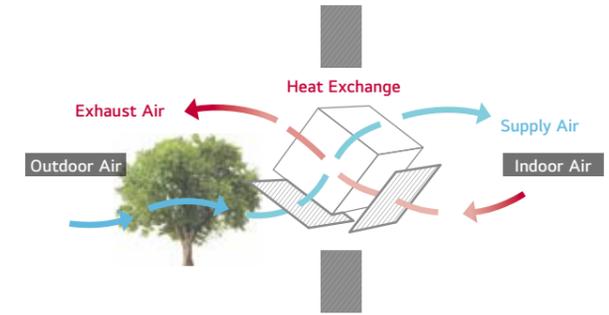
RESIDENTIAL ERV





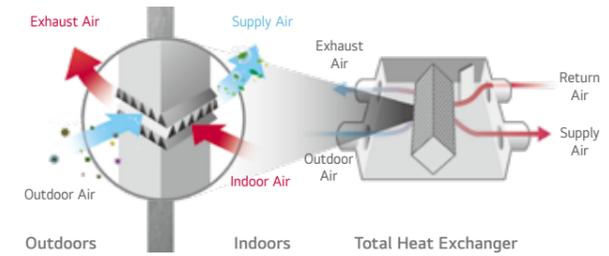
## High Efficiency Heat Exchanger

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



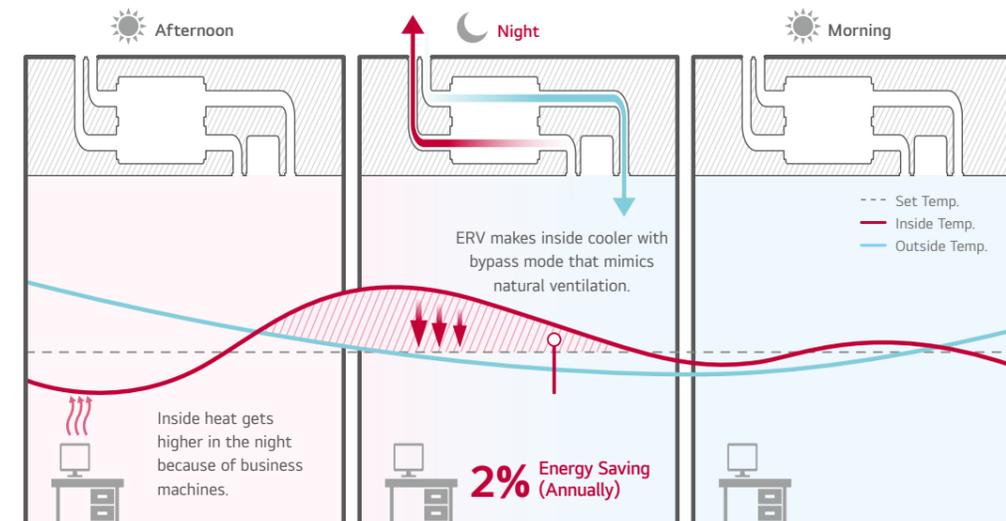
## Cross Flow System

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



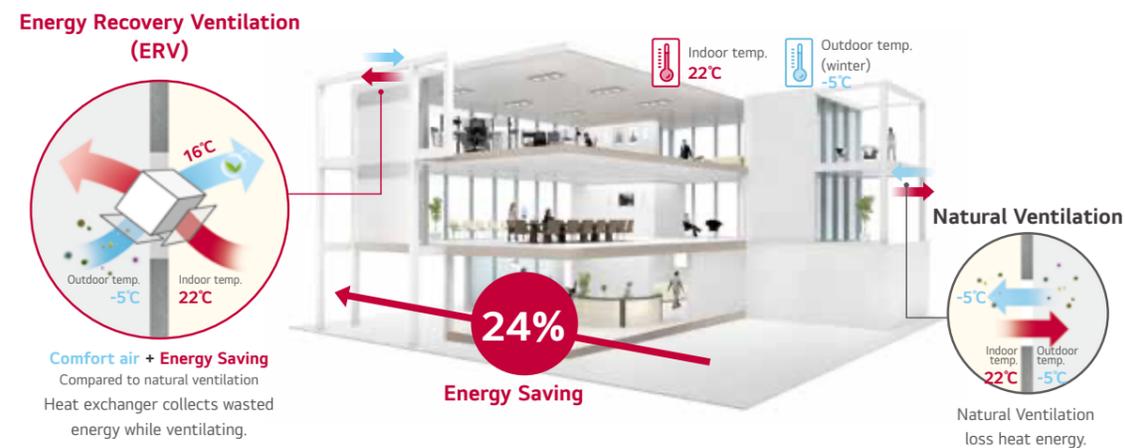
## Night Time Free Cooling

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



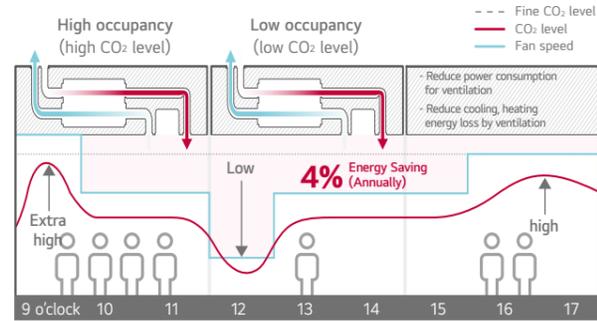
※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)  
 ※ Energy saving ratio can be differed by weather condition.  
 ※ Test Condition  
 - Office (49,000ft<sup>2</sup>) / Occupancy : 30 / Area : London, UK  
 - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination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

## Necessity of ERV



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

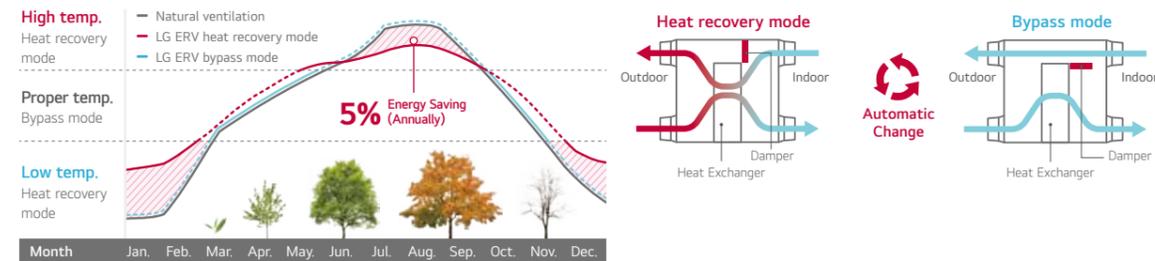
LG ERV reduces energy loss with auto fan speed control following CO<sub>2</sub> level.



※ 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

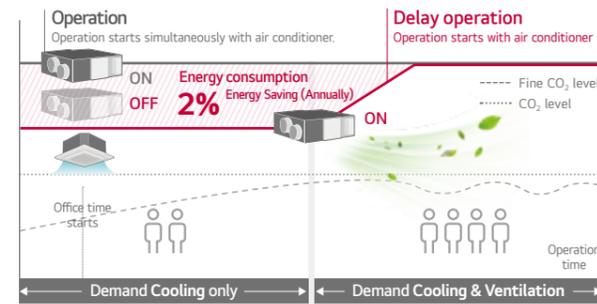
LG ERV senses outdoor temperature and operates automatically following weather conditions.



※ 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, delayed 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 a new wired remote controller.



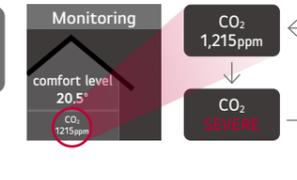
### Main display

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



### Further information

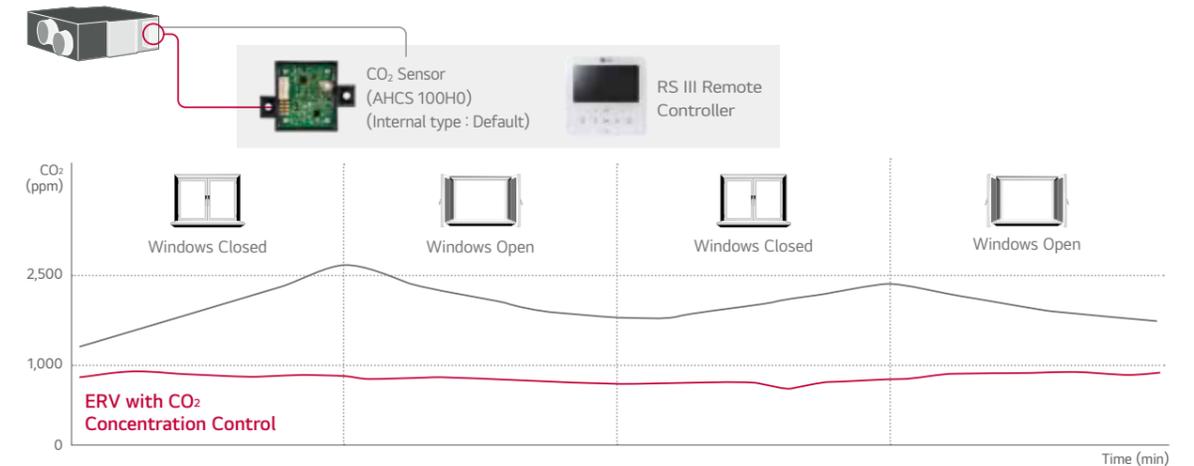
CO<sub>2</sub> level and room condition are displayed continuously.



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

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

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



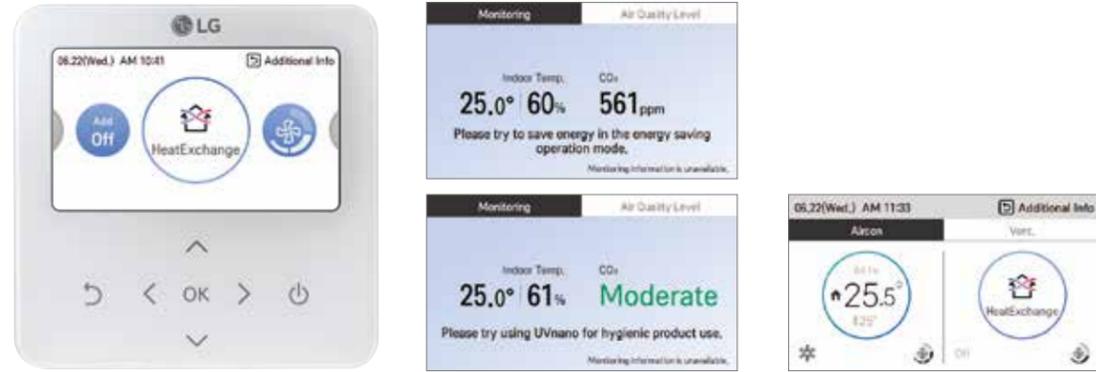
## High Durability

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



## Easy Control

The wired remote controller is easy to use.



### Easy

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

### Display

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

### Convenient

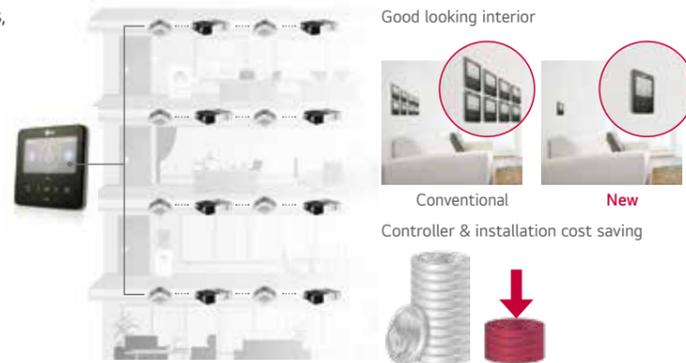
- Flexible display
- Dual display with air conditioner
- Zoom selected directory to increase legibility

## Group Control

1 wired remote controller can work with up to 16 ERVs, including air conditioners. It is convenient for large common spaces such as lobbies.

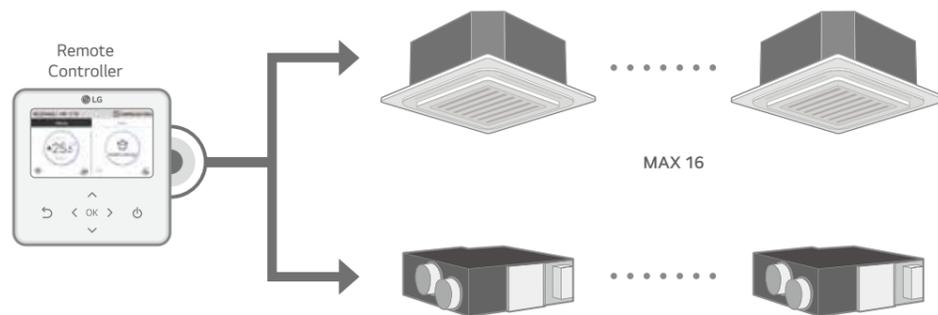
### Combine several units

16 units group control is available with 1 remote controller.



## Interlocking with Air Conditioning System

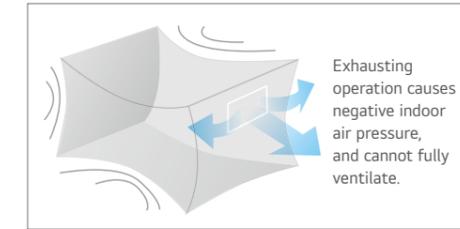
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



## Fast Ventilation Mode

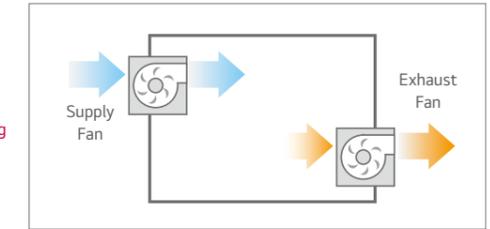
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

### Only Exhausting



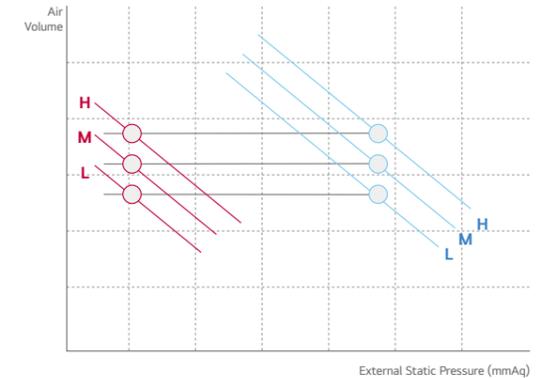
Exhausting and Supplying Simultaneously

### Fast Ventilation Mode



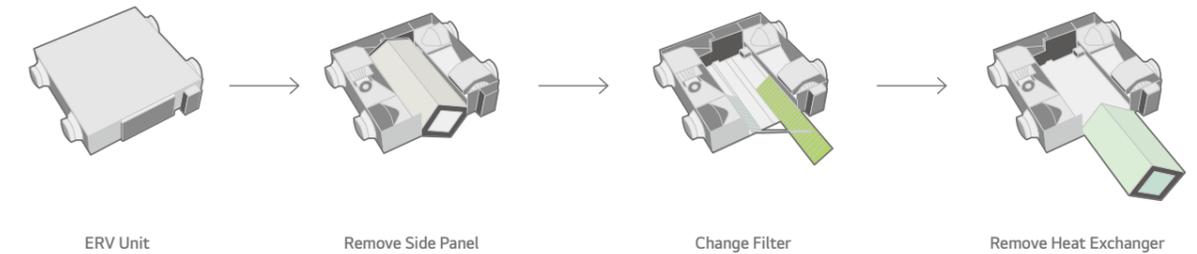
## External Static Pressure Control

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



## Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.



**LZ-H025GBA4 / LZ-H035GBA5**  
**LZ-H050GBA5**


MODEL		UNIT	LZ-H025GBA4	LZ-H035GBA5	LZ-H050GBA5	
Dimensions (W x H x D)	Body	mm	988 x 273 x 1,014			
	Weight	kg	44			
Power Supply		V / Ø / Hz	220-240 / 1 / 50			
Normal Air flow		m <sup>3</sup> /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	m <sup>3</sup> /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	m <sup>3</sup> /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 Leak Detector		-	-
EEV Kit		-	-
Multi-tenant Power Module		-	-
Robot Cleaner		-	-
Pre Filter (Washable)		-	-
Ion Generator		-	-
CO <sub>2</sub> Sensor		○	-
Ventilation Kit		-	-
IR Receiver		-	-
Zone Controller		-	-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	-
External Input (1 point)		-	-
Wi-Fi		-	-

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

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


MODEL		UNIT	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5	
Dimensions (W x H x D)	Body	mm	1,101 x 405 x 1,230		1,353 x 815 x 1,230		
	Weight	kg	63		130		
Power Supply		V / Ø / Hz	220-240 / 1 / 50		220-240 / 1 / 50		
Normal Air flow		m <sup>3</sup> /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	m <sup>3</sup> /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	m <sup>3</sup> /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 Leak 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

**ZE050GUCCA0 / ZE080GUCCA0  
ZE100GUCCA0**



※ 2Q Launching

- Ventilation with sensible and latent heat recovery
- Air flow coverage from 500 to 1,000 m<sup>3</sup>/h
- Compact size from 273 mm height
- Various filters can be used to improve indoor air quality (IAQ)
  - Filters grades : ePM10 50% (M5), ePM1 70% (F7), ePM1 80% (F9)
  - A second filter can be installed on the supply air side
- Built-in CO<sub>2</sub> concentration sensor
  - CO<sub>2</sub> Auto Operation based on CO<sub>2</sub> level
- Wi-Fi connection (optional)
- Hygienic material with Safe plus insulation
- Group control available up to 16 units with one wired controller

MODEL		UNIT	ZE050GUCCA0	ZE080GUCCA0	ZE100GUCCA0	
Dimensions (W x H x D)	Body	mm	1,014 × 273 × 988	1,062 × 365 × 1,240		
	Weight	kg	41.7	54.4	54.4	
Power Supply		V / Ø / Hz	220-240 / 1 / 50-60			
Normal Airflow Rate		m <sup>3</sup> /h	500	800	1,000	
ERV Mode	Operating Step		High / Mid / Low			
	Current	SH / H / L	A	1.7 / 1.2 / 0.8	2.2 / 1.4 / 0.8	3.0 / 1.9 / 1.0
	Power Input	SH / H / L	W	250 / 160 / 105	330 / 200 / 100	475 / 280 / 140
	Airflow Rate	SH / H / L	m <sup>3</sup> /h	500 / 400 / 300	800 / 640 / 480	1,000 / 800 / 600
	External Static Pressure	SH / H / L	Pa	150 / 96 / 54	160 / 102 / 57	160 / 102 / 57
	Temperature Exchange Efficiency	SH / H / L	%	78	75	73
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	75 / 75 / 78	73 / 76 / 79	72 / 73 / 74
		Cooling (SH / H / L)	%	68 / 68 / 75	68 / 70 / 73	63 / 67 / 71
	Sound Pressure Level	SH / H / L	dB(A)	39 / 34 / 29	39 / 34 / 28	40 / 36 / 29
	Sound Power Level	SH / H / L	dB(A)	TBD	TBD	TBD
Bypass Mode			○			
Duct Work	Qty	EA	4			
	Size (Ø)	mm	200	250	250	
Supply Air Fan	Qty	EA	1			
	Type		Direct-Drive Sirocco			
Exhaust Air Fan	Qty	EA	1			
	Type		Direct-Drive Sirocco			
Filters	Default	Grade (Qty)	OA: F7 RA: M5			
	Option	Grade	OA: M5, F7, F9 SA: M5, F7, F9			

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

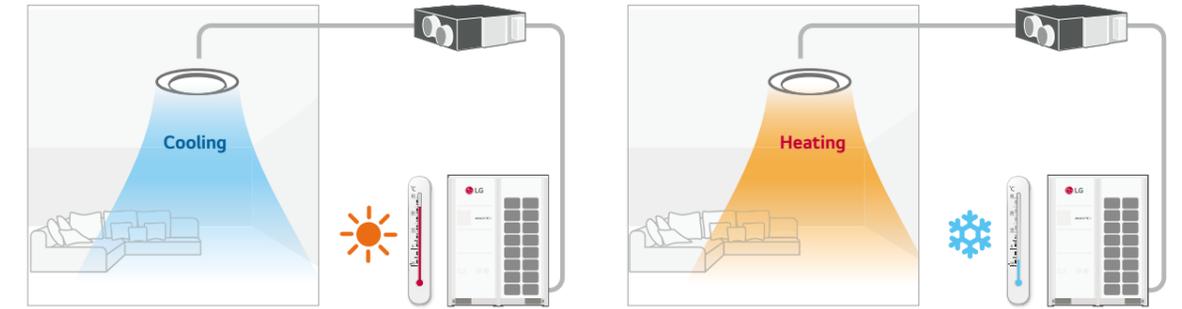
**Accessories**

CHASSIS	ZE050GUCCA0	ZE080GUCCA0	ZE100GUCCA0
Filter		M5, F7, F9	
CO <sub>2</sub> Sensor		Embedded	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	
Wi-Fi		PWFMD200	

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

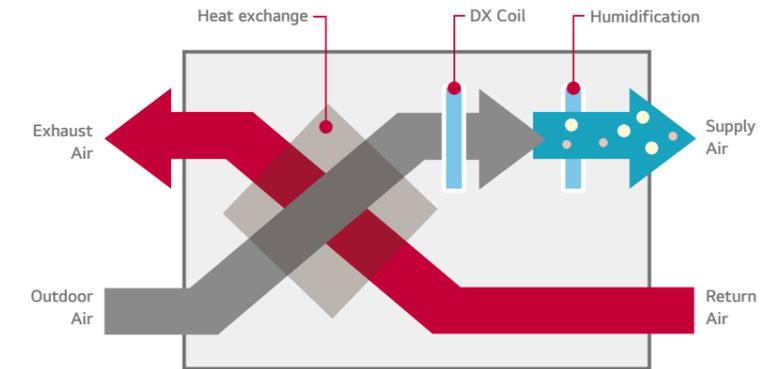
**Providing Cool & Warm Fresh Air**

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



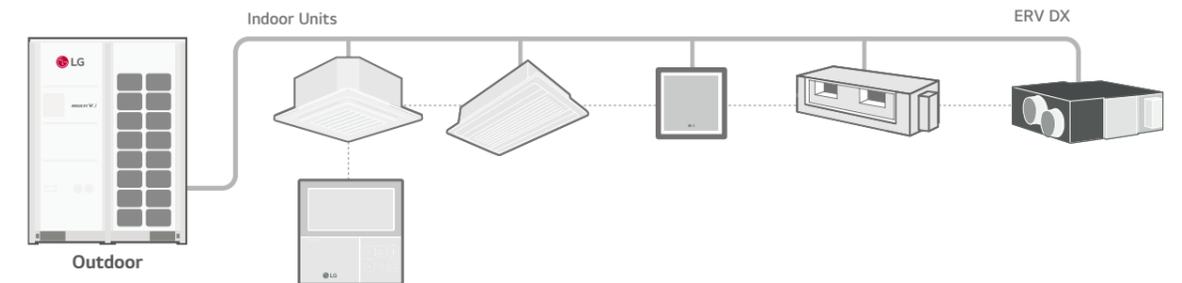
**Total Air Conditioning Solution**

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



**Interlocking with MULTI V**

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



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



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

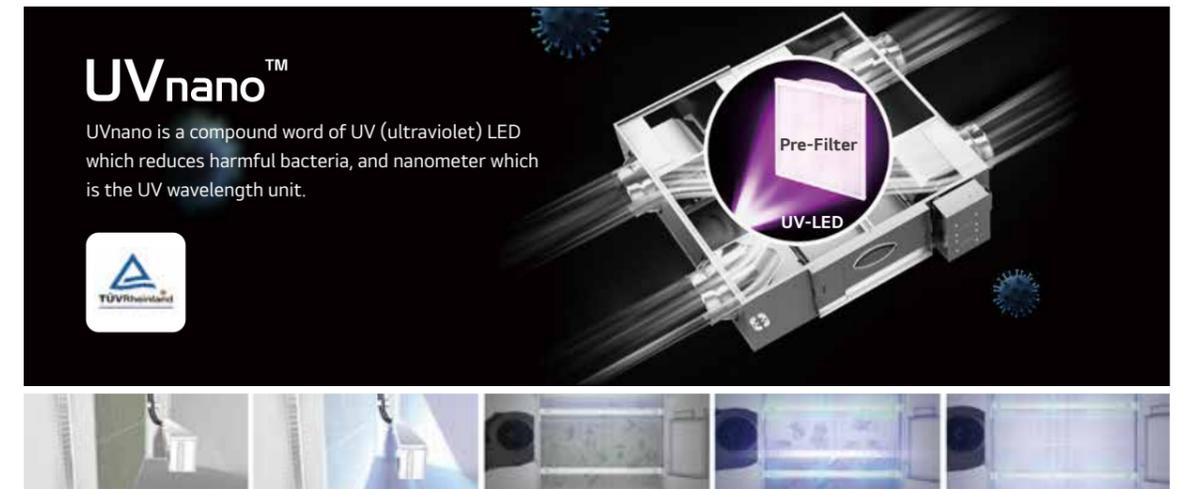
**Accessories**

CHASSIS	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump				-		
Cassette Cover				-		
Refrigerant Leak Detector				PRLDNVS0		
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

**Clean Air Supply**

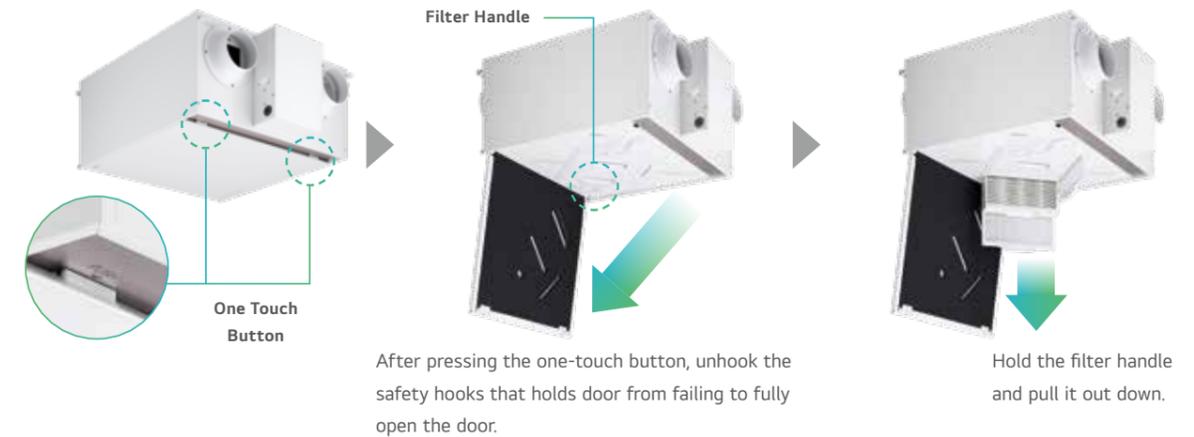
Remove Up to 99.99% of Harmful Particles on Pre-Filter with UVnano



UVnano 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 for any additional tools.



# Smart Control

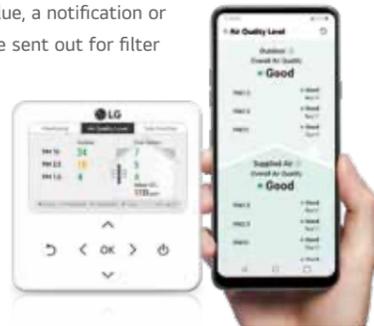
## ① Dual Laser Fine Dust Sensor

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.



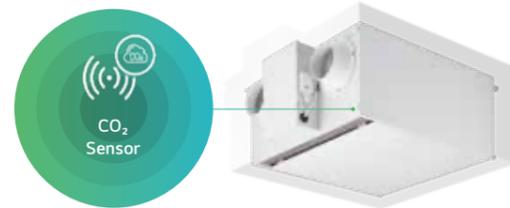
When the measured dust concentration in the air supplied to the room is higher than the pre-set value, a notification or text message will be sent out for filter replacement.

\* Wi-Fi Modem is Optional.



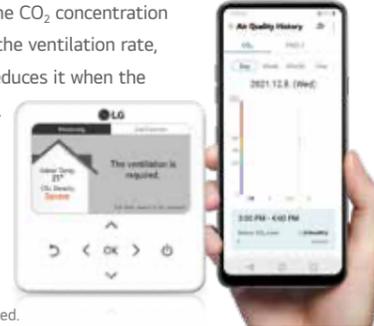
## ② CO<sub>2</sub> Monitoring

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



The system monitors the CO<sub>2</sub> concentration in the room and adjusts the ventilation rate accordingly. When the CO<sub>2</sub> concentration is high, it increases the ventilation rate, and automatically reduces it when the concentration 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>	<p>Check and control the Indoor air conditioner anytime, anywhere</p>	<p>With the dry contact connected, Modbus protocol is available.</p>

\* 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.



## LZ-H015GBA6 / LZ-H020GBA6



MODEL		UNIT	LZ-H015GBA6	LZ-H020GBA6	
Dimensions (W x H x D)	Body	mm	640 x 320 x 640	640 x 320 x 640	
Weight	Body	kg	23	23	
Power Supply		V / Ø / Hz	230 / 1 / 50	230 / 1 / 50	
ERV Mode	Operating Step		SH / H / L	SH / H / L	
	Current	SH / H / L	A	0.43 / 0.38 / 0.23	0.59 / 0.51 / 0.26
	Power Input	SH / H / L	W	56 / 49 / 26	79 / 71 / 30
	Air Flow	SH / H / L	CMH	150 / 150 / 80	200 / 200 / 100
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	100 / 70 / 50
	Temperature Exchange Efficiency	Heating (SH / H / L) (ErP)	%	85	82
		Heating (SH / H / L) (JIS)	%	80 / 80 / 84	78 / 78 / 82
	Enthalpy Exchange Efficiency	Heating (SH / H / L) (JIS)	%	74 / 74 / 83	70 / 70 / 81
		Cooling (SH / H / L) (JIS)	%	79 / 79 / 83	75 / 75 / 81
	Energy Label	Heating (SH / H / L) (JIS)	%	74 / 74 / 80	68 / 68 / 76
Cooling (SH / H / L) (JIS)		%			
Energy Label	A+ to G Scale		A	A	
Sound Power Level	SH / H / L	dB(A)	53 / 51 / 45	55 / 53 / 46	
Sound Pressure Level	SH / H / L	dB(A)	28 / 26 / 21	30 / 28 / 22	
Bypass Mode	Current	SH / H / L	A	0.45 / 0.40 / 0.26	0.60 / 0.52 / 0.29
	Power Input	SH / H / L	W	63 / 53 / 31	84 / 73 / 35
	Air Flow	SH / H / L	CMH	150 / 150 / 80	200 / 200 / 100
External Static Pressure	SH / H / L	Pa	100 / 70 / 50	100 / 70 / 50	
Operation Range	Outdoor Air Temperature / Relative Humidity	°C / %	-10 ~ 40 / 20 ~ 80	-10 ~ 40 / 20 ~ 80	
Duct Work	Qty	EA	4	4	
	Size (Ø)	mm	125	125	
Fan Motor	Supply Air Fan	RPM	1,850 / 1,710 / 1,300	2,050 / 1,910 / 1,400	
	Exhaust Air Fan	RPM	1,750 / 1,600 / 1,250	1,910 / 1,770 / 1,320	
	Max.	RPM	2,100	2,100	
	Min.	RPM	1,000	1,000	
Filters	Grade <sup>(1)</sup>	-	ePM <sub>1</sub> 95%	ePM <sub>1</sub> 95%	
	Size (W x H x D)	mm	278 x 276 x 50	278 x 276 x 50	

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.



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# AHU SOLUTION



# LG AHU Solution

LG AHU solution can satisfy customer's needs by providing energy savings and high product reliability with various high technology products and optimized solutions.



**Energy savings**

- High efficiency inverter system
- Smart refrigerant control

EEV kit

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**Optimized application**

- Various cooling capacities and air volume
- Return, Supply air control
- Various components combination

EC motor, Bag filter, DX coil, Counter flow heat exchanger

**Model selection tool**

- Web base program
- Quick respond to customer's requirement

**Visualized controller**

- Smart wired remote controller
- Central and BMS control

Remote controller (RS3), AC smart 5, Mobile

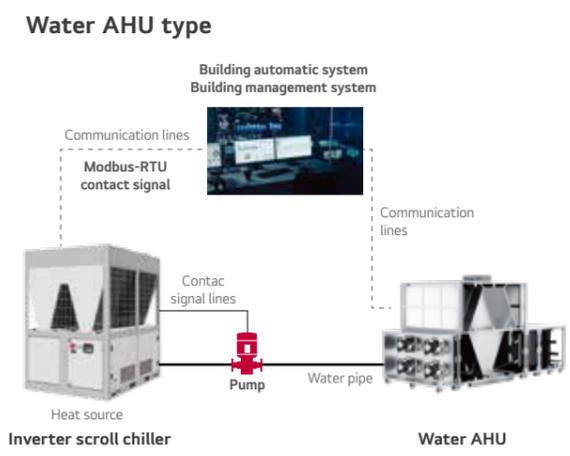
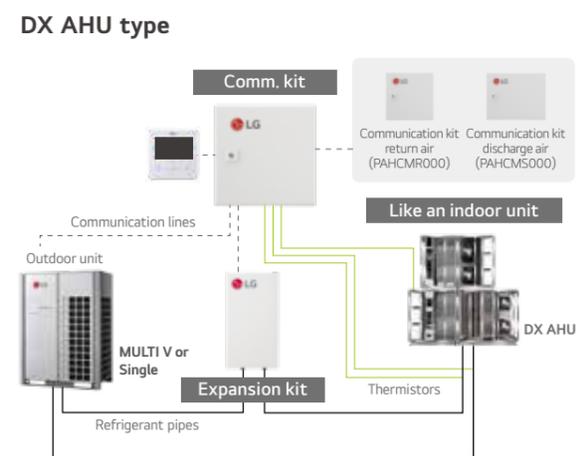
※ The LG controllers can only monitor operations such as on/off, operation mode, and temperature.

**High reliability**

- High efficiency inverter compressor
- Corrosion resistant black fin
- System check using mobile

MULTI V inverter compressor, MULTI V corrosion resistant H/X (Black fin)

## Application scene



# LG selection tool

LG AHU is highly customizable to meet the exact needs of the site at which it is installed. Various types of components can be designed using model selection program so we can quickly respond customer's conditions including technical reports and design files.



※ LG selection tool link : [www.lgahuselection.com](http://www.lgahuselection.com)

## Components

**EC motor**

- Available Energy classes: IE4.
- Rated voltage: EC motors of nominal capacity exceeding 0,75 kW - 3x400 V AC.
- Rated voltage: EC motors of nominal capacity equal or less 0,75 kW - 1x230 V AC.
- Motor winding insulation class: F.
- Protection degree: IP54.
- Maximum working ambient temperature: 55°C.

**Rotary heat wheel**

- Up to 86% energy recovery, depending on airflow rate and its velocity in the heat wheel window.
- Rotor made of aluminum with shaft suspended on bearings, installed in steel housing.
- Rotor filling – two layers of alternately winded aluminium foil – one flat, the other - corrugated – making small ducts for the air.
- The rotor drive system enables smooth control of revolutions, maximizing recovery efficiency and allowing for adjustable performance.

- Max permissible ambient temperature around heating elements: 65°C.
- The heater is available in a version built in the air handling unit and in a duct heater version (without thermal insulation).

# Highlight of LG AHU Solution

## Modular type

**Structure and tightness**

- Improved longitudinal rigidity of the structure
- Aluminum structural post with additional sealing blade and thermal break
- Steel skin coated with Aluzinc AZ 150

**Corrosion Resistance**

Resistance of new coating applied to OneAir

Number of hours	162	2,412
Zinc coating	20 Mu Z275	Aluzinc coating 20 Mu AZ150

Salt spray test in accordance to ASTM B-117 standard

**Direct drive plug fan set**

- Fan: Low and medium pressure ventilation systems with fan static pressure not exceeding 2,000 Pascals.
- EC Motor: Available energy class of IE4.
- AC Motor: Available energy classes of IE2 and IE3.

**DX coil**

- Block of copper pipes integrated with another block of aluminum fins, creating expanded heat exchange surface.

**Rotary heat wheel**

- Rotor made of aluminum with shaft suspended on bearings, installed in steel housing.
- Up to 86% energy recovery

**Panel filter**

- ISO Coarse 75% (G4)

**Bag filter**

- ISO ePM<sub>10</sub> 50% (M5) / ePM<sub>2.5</sub> 65% (F7) / ePM: 70% (F9\*)
- \* F9 is available as secondary filter

## Compact type (Floor mounted with vertical duct connection)

**Casing**

- Panels filled with mineral wool, enclosed with steel sheet on both sides
- Casing parameters according to EN 1886: T2, TB3, L1, D1, F9

**Mini-pleat or bag filters**

- Air filters with extended high efficiency filtration surface
- ISO ePM<sub>10</sub> 50% (M5) / ePM<sub>2.5</sub> 65% (F7) / ePM: 70% (F9\*)
- \* F9 is available as secondary filter

**Dimension**

- Unit width 880 mm
- Can be transported through the opening of 90 cm without disassembling the device

**Control**

- Multifunctional controls, integrated with the unit
- Fully pre-configured and ready to run

**Counter flow heat exchanger**

- Highly efficient counter flow hex recovery with by-pass
- Recovery efficiency reaching 90%

## Compact type (Floor mounted)

**Casing**

- Panels filled with mineral wool, enclosed with steel sheet on both sides
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- \* F9 is available as secondary filter

**Counter flow heat exchanger**

- Highly efficient counter flow hex recovery with by-pass
- Recovery efficiency reaching 90%

**Rotary heat wheel**

- Up to 86% of energy recovery

**EC motor**

- Efficient, silent and low vibration fan with electronically commutated motor in a IE4 class.
- up to **93%** drive efficiency

## Compact type (Ceiling suspended)

**Casing**

- Panels filled with mineral wool, enclosed with steel sheet on both sides
- Casing parameters according to EN 1886: T2, TB3, L1, D1, F9

**Mini-pleat filters**

- Air filters with extended high efficiency filtration surface
- ISO ePM<sub>10</sub> 50% (M5) / ePM<sub>2.5</sub> 65% (F7) / ePM: 70% (F9\*)
- \* F9 is available as secondary filter

**Control**

- Multifunctional controls, integrated with the unit
- Fully pre-configured and ready to run

**Recuperator by-pass**

- Stepless adjustment of heat recovery capacity
- Passive cooling function.
- Recuperator frost protection.

**Counter flow heat exchanger**

- Highly efficient counter flow hex recovery with by-pass
- Recovery efficiency reaching 90%

## Modular type



### Key Features



**Airflow**  
from 800 m<sup>3</sup>/h  
to 70,850 m<sup>3</sup>/h



Up to **92%**  
of energy recovery efficiency



**14 sizes**



Durable and tight structure



Reliable components



Highly efficient rotary and hex counter flow heat exchanger



User safety

Recommended Air Flow Rate (rotary heat wheel)

(Unit: m <sup>3</sup> /h)	3,000	6,000	9,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	...	45,000	60,000	72,000
E-AVG021M	806	2,415													
E-AVG030M	1,180	3,450													
E-AVG040M	1,958	4,600													
E-AVG055M	2,878	6,325													
E-AVG075M	3,805	8,625													
E-AVG100M	4,863	11,500													
E-AVG120M	5,815	13,800													
E-AVG150M	7,167	16,350													
E-AVG180M	8,640	19,620													
E-AVG230M	10,398	25,070													
E-AVG300M	13,491	32,700													
E-AVG400M	18,704	43,600													
E-AVG500M	21,817	59,950													
E-AVG650M	28,725	70,850													

\* For more information, please refer to LG selection tool and / or contact LG B2B sales department (LG selection tool link : [www.lgahuselection.com](http://www.lgahuselection.com))

## Compact type (Floor mounted)



### Key Features



Up to **90%**  
of energy recovery efficiency



Energy saving and silent fans with ec motors



Plug & play product



Highly efficient rotary and hex counter flow heat exchanger

### Base unit overall data

Unit Size	Nominal Airflow (m <sup>3</sup> /h)	Airflow Range (m <sup>3</sup> /h)	Height (mm)	Width (mm)	Duct Connection Height (mm)	Duct Connection Width (mm)
E-AVG021C	2,100	840 - 2,310	991	967	345	860
E-AVG030C	3,000	900 - 3,300	1,255	967	480	860
E-AVG040C	4,000	1,200 - 4,400	1,255	1,174	480	1,065
E-AVG055C	5,500	1,650 - 6,050	1,525	1,345	615	1,235
E-AVG075C	7,500	2,250 - 8,250	1,765	1,486	735	1,380
E-AVG100C	10,000	3,000 - 11,000	1,965	1,666	835	1,560
E-AVG120C	12,000	3,600 - 13,200	2,039	1,897	870	1,790
E-AVG150C	15,000	4,500 - 16,500	2,241	2,091	970	1,985

### Base unit lengths

Unit Size (mm)	Diagram 1	Diagram 2	Diagram 3	Diagram 4	Diagram 5	Diagram 6
E-AVG021C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVG030C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVG040C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVG055C	1,240	1,080	1,080	2,290	2,290	2,560
E-AVG075C	1,240	1,080	1,080	2,530	2,530	2,800
E-AVG100C	1,300	1,300	1,080	2,570	2,570	2,800
E-AVG120C	1,300	1,300	1,080	2,670	2,670	2,900
E-AVG150C	1,300	1,300	1,080	2,730	2,730	2,940

## Compact type (Vertical floor mounted)



### Key Features

 Up to **90%** of energy recovery efficiency



Mineral wool insulation



Highly efficient hex counter flow heat recovery



Plug & play product

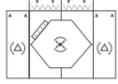
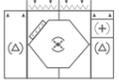


Energy saving and silent fans with ec motors

### Base unit overall data

Unit Size	Nominal Airflow (m <sup>3</sup> /h)	Airflow Range (m <sup>3</sup> /h)	Height (mm)	Width (mm)	Duct Connection (mm)
E-AVG023T	2,100	1,250 - 2,100	1,176	880	700 x 445
E-AVG033T	3,000	1,800 - 3,000	1,447	880	700 x 513
E-AVG043T	4,000	2,400 - 4,000	1,737	880	700 x 613

### Base unit lengths

Unit Size (mm)		
E-AVG023T	2,100	2,100
E-AVG033T	2,460	2,460
E-AVG043T	2,860	2,860

## Compact type (Ceiling suspended)



### Key Features

 Up to **90%** of energy recovery efficiency



Energy saving and silent fans with ec motors



Plug & play product



Integrated multifunctional controls



Mineral wool insulation



Highly efficient hex counter flow heat recovery

### Base unit overall data

Unit Size	Nominal Airflow (m <sup>3</sup> /h)	Airflow Range (m <sup>3</sup> /h)	Height (mm)	Width (mm)	Duct Connection Height (mm)	Duct Connection Width (mm)
E-AVG005S	500	150 - 650	400	790	318	335
E-AVG010S	1,000	300 - 1,100	400	1,150	318	515
E-AVG015S	1,500	450 - 1,650	400	1,550	318	715
E-AVG020S	2,000	600 - 2,200	490	1,610	408	743
E-AVG030S	3,000	900 - 3,300	490	2,160	408	1,018

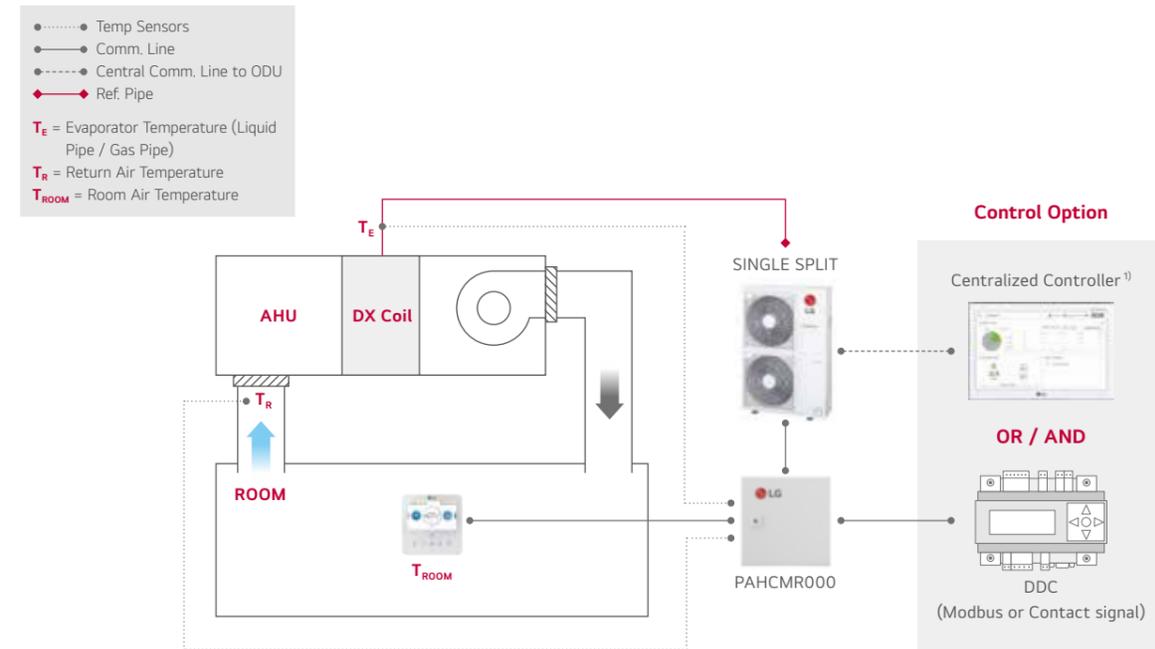
### Section length

Unit Size (mm)	
E-AVG005S	1,230
E-AVG010S	1,500
E-AVG015S	1,500
E-AVG020S	1,828
E-AVG030S	1,828

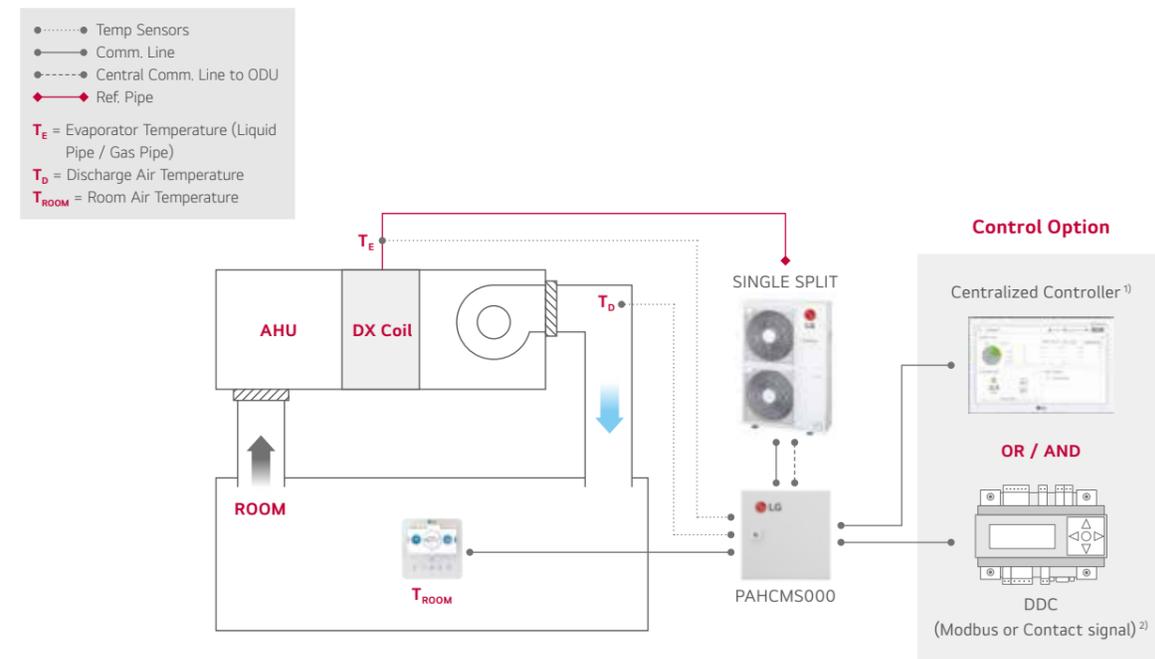
# Air Handling Applications

Economically feasible solution for paired application with air handling units.

## Return/Room Air Temperature Control



## Discharge Air Temperature Control



1) PI485(PMNF14A1) is required for using centralized controller.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 3) For more detail, please refer to the PDB of AHU Communication Kit.

# Communication Kit



## PAHCMR000 / PAHCMS000

### Specification

Model	Combination		Description	Dimensions (mm)		
	Outdoor Unit	Centralized Controller		W	H	D
PAHCMR000	Single Split	.	Return / Room air temperature control by DDC or LG individual / centralized controller	300	300	155
PAHCMS000	Single Split	.	Discharge air temperature control by DDC or LG individual / centralized controller	380	300	155

### Function list for Communication kit

Function List*	PAHCMR000	PAHCMS000	Note
Comm. Kit Operation	On / Off	On / Off	
Operation Mode <sup>1)</sup>	Cooling / Heating	Cooling / Heating	
Return (room) Air Temperature	16~30°C	-	
Control Discharge Air Temperature <sup>2)</sup>	-	16~30°C	Available in case of using DDC with Modbus or LG Control system
Fan Speed <sup>3)</sup>	Low / Middle / High	Low / Middle / High	It may not be possible depending on the particular condition
Forced Thermal On / Off	On / Off	-	Available in case of using DDC with contact signal
Capacity Control	-	.	Available in case of using DDC with Modbus or contact signal
Comm. Kit Operation	On / Off	On / Off	
Operation Mode <sup>1)</sup>	Cooling / Heating	Cooling / Heating	Available in case of using DDC with Modbus or LG Control system
Fan Speed	Low / Middle / High	Low / Middle / High	
Error Alarm	.	.	
Compressor On / Off	On / Off	On / Off	Available in case of using DDC with Modbus or LG individual controller PAHCMR000 doesn't provide this in case of using DDC with contact signal

1) Available operation mode can be varied depending on the setting of AHU Communication Kit.  
 2) This range may differ depending on the type of controller.  
 3) To control and monitor the fan speed, DO ports for the fan speed status have to be connected with the fan unit.  
 \* Some of functions may not be possible depending on the setting of AHU Communication Kit. For more details of condition, please refer to the product data book.

### Combination Table

Model Name	R32				R410A	
	UUA1 U10	UUB1 U20	UUC1 U40	UUD1 U30 UUD3 U30	UU70W U34	UU85W U74
Capacity Index Range						
kBtu/h	9 ~ 18	18 ~ 30	24 ~ 36	36 ~ 60	70	85
kW	2.5 ~ 5.0	5.0 ~ 8.0	6.8 ~ 10.0	10.0 ~ 14.6	20.0	25.0
PAHCMR000	X	0	0	0	0	0
PAHCMS000	X	0	0	0	0	0

244 ~ 329

# CONTROL SOLUTIONS

INDIVIDUAL CONTROL

CENTRALIZED CONTROL

INTEGRATION DEVICE

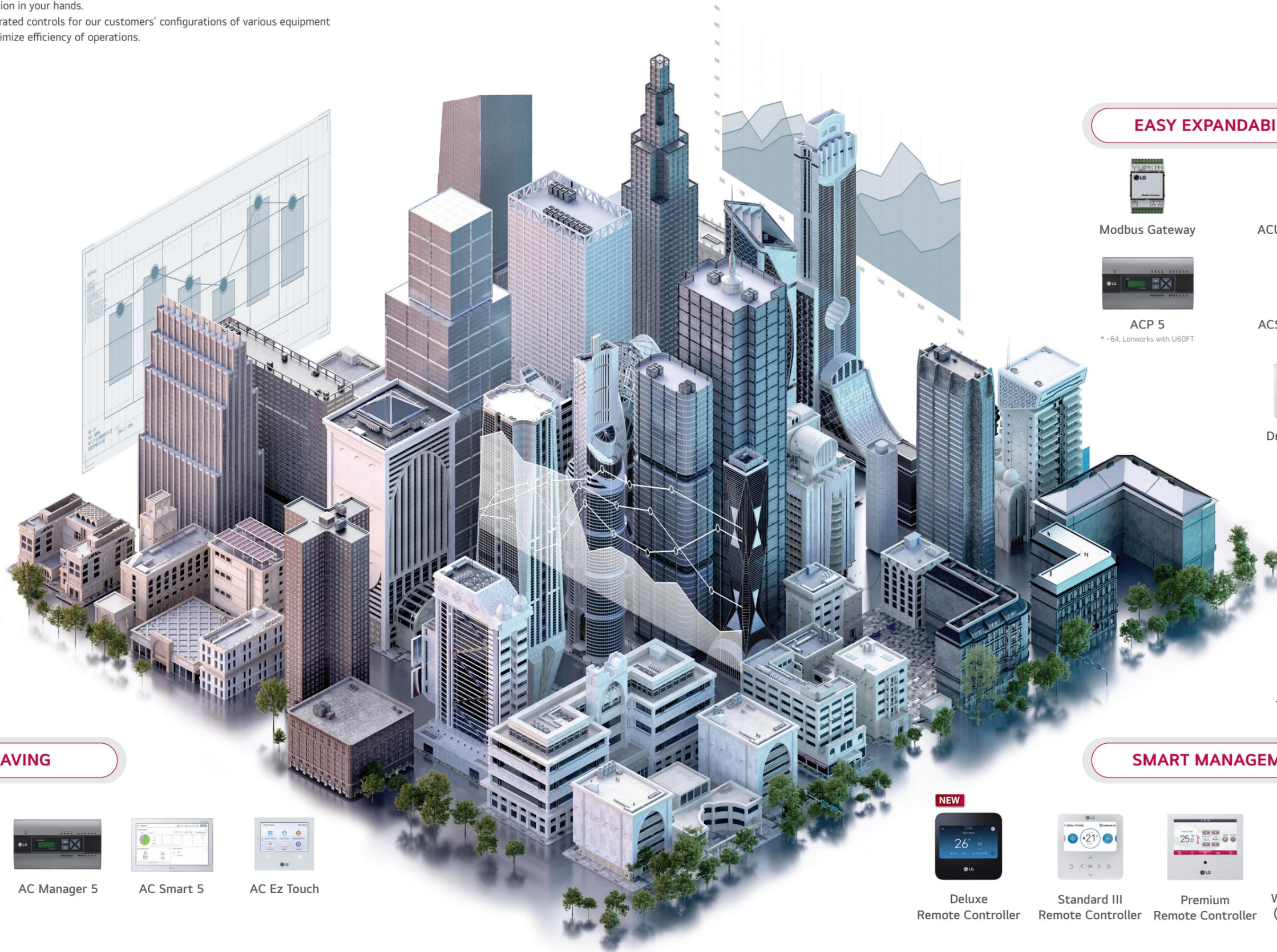


The Perfect Choice for Innovative Building Management

# LG BECON HVAC SOLUTION

Innovative building management solution in your hands.

Our optimized solutions provide integrated controls for our customers' configurations of various equipment in buildings. Intuitive interface to maximize efficiency of operations.



## EASY EXPANDABILITY



Modbus Gateway



ACU IO Module



ACP 5  
\* -64, Lonworks with U60FT



ACS IO Module



Dry Contact



## ENERGY SAVING



PDI



AC Manager 5



AC Smart 5



AC Ez Touch



## SMART MANAGEMENT

NEW



Deluxe Remote Controller



Standard III Remote Controller



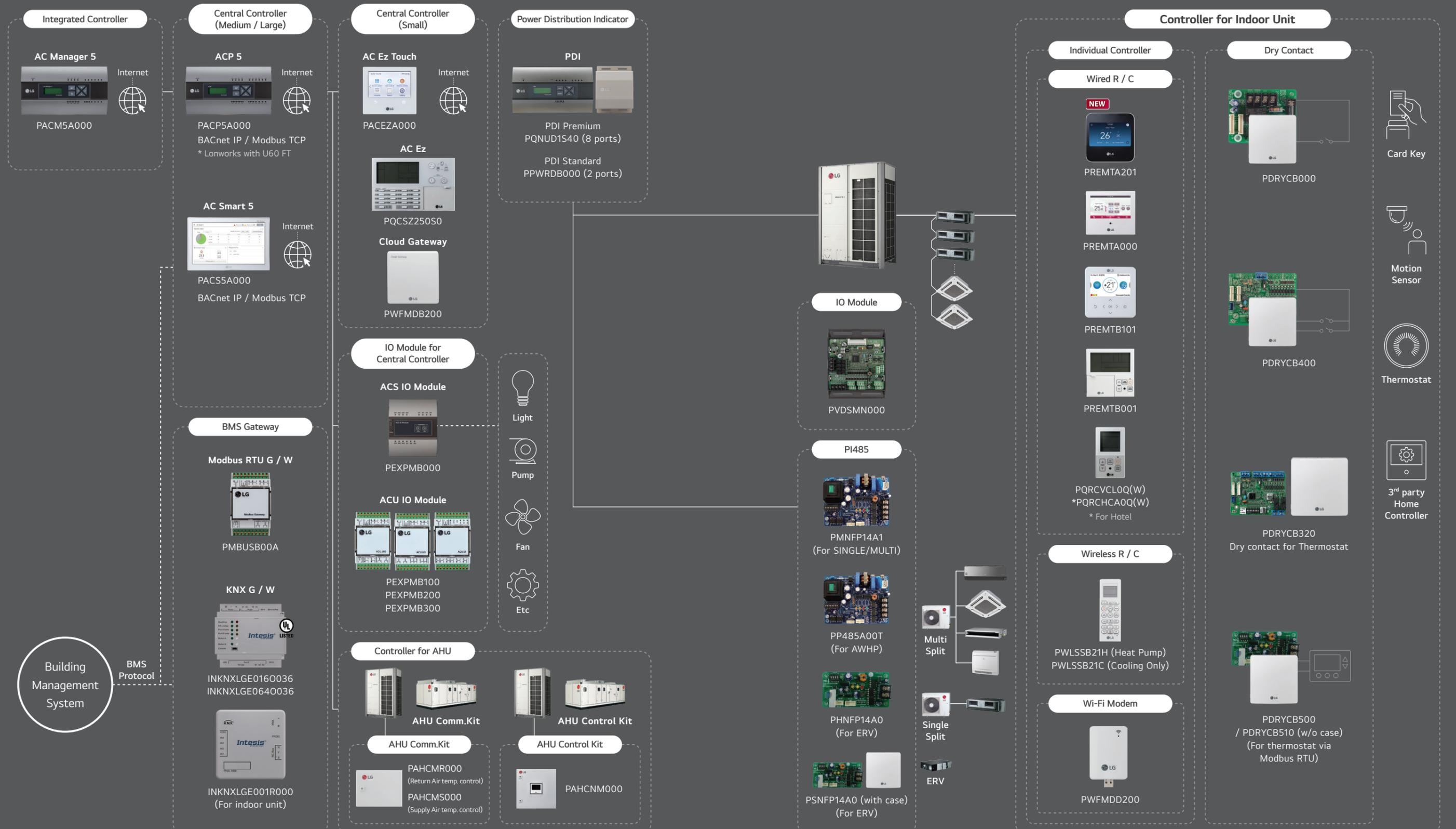
Premium Remote Controller



Wi-Fi Modem (with ThinQ)

# CONTROL SYSTEM ARCHITECTURE

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





## Feature Functions

Controller Name	Wired Remote Controller						Wireless Remote Controller	
	Deluxe	Premium	Standard III	Standard II	Simple	Simple (Hotel)		
Model Name	 NEW PREMTA201	 PREMTA000 PREMTA000A PREMTA000B	 PREMTB101 PREMTBB11	 PREMTB001 PREMTBB01	 PQRVCLOQ PQRVCVLOQW	 PQRCHCAOQ PQRCHCAOQW	 PWLSSB21H (H/P)	
Basic	On / Off	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Fan Speed Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Temperature Setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Mode Change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Auto Swing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Vane Control (Louver Angle)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	E.S.P (External Static Pressure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Electric Failure Compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Indoor Temperature Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
ALL Button Lock (Child Lock)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Advanced	Schedule / Timer	Pre-set Schedule Mode <sup>2)</sup> / Weekly-Yearly	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off
	Additional Mode Setting <sup>1)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Time Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	<input type="radio"/>
	Humid. Display	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Advanced Lock	-	-	-	-
	Filter Sign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Energy Management <sup>3)</sup>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-
	Dual Set Point	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
	Human Detection	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-
ETC	Temp, Humidity Compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-
	Wi-Fi AP mode setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Proximity Sensor	<input type="radio"/>	-	-	-	-	-	-
	Operation Status LED	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
	Wireless Remote Controller Receiver	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	-	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	<input type="radio"/> <sup>4)</sup>	-
	Display	4.3 inch Color	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	110 x 110 x 15	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26
Black Control for Screen Saver	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	-	

※ O: Applied, - : Not Applied  
 1) It might not be indicated or operated at the partial product.  
 2) Only for Residential GUI (Based on the housing usage patterns in the United States, please assess whether it is applicable for your usage conditions before using it.)  
 3) Centralized control (PACEZA000 / PAC55A000 / PACP5A000) and PDI (PQNUD1540 / PPWRDB000) should be installed for this function.  
 4) 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)

# Deluxe Wired Remote Controller

## PREMTA201

The LG Deluxe, with its full-touch LCD screen and a seamless design, is suitable for residential and commercial applications. It is a NEW solution with enhanced usability and convenience based on customer experience. Upgrade your precious space and everyday life with Deluxe Remote Controller.

**NEW**



### Features & Benefits

- Full-Touch & Slim design
- Multi Application (Residential or Commercial)
- Built-in Wi-Fi
  - Remote Control (with ThinQ Compatibility)
  - FOTA\*
- Easy Installation
  - Setting ( as-is: numeric code, word → to-be: Function Code Search Tool)
  - Installation Wizard (Date & Time, Language, Temperature unit etc) easily set up
- Energy related functions, Air Quality Monitoring
- Whole week Scheduling with Mode setting (Home / Away / Sleep / Awake) for residential
- Humidity/Proximity Sensor
- AI Smart Care

MODEL NAME	PREMTA201
Max. Number of Units	16 (Group Control)
Applicable Unit Types	Air Conditioner, ERV, ERV DX, Residential ERX
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto / Emergency Heater / Air Purify / Power Heat / Power Cool / Stop
Additional Mode Setting <sup>1)</sup>	Electric Heater / Energy Saving / Fan Auto / Comfort Cooling / Cooling By Ventilation / Air Purify / Robot Cleaning/Humidifi-cation / Mosquito Away / Zone Control / Fast / eSave / Wind Direction
Auto Swing	○
Vane Control (Louver Direction)	○
E.S.P (External Static Pressure) <sup>2)</sup>	○
Reservation	Simple / Sleep / On & Off Timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set Temperature Range
Filter Sign	○ (Remain time + Alarm)
Energy Management <sup>3)</sup>	AI Energy Control <sup>1)</sup> / Check Energy Usage, Operation Time / Target Setting
Proximity Sensor	○
Operation Status LED	-
Air Purify Control <sup>4)</sup>	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	110 x 110 x 15
Black Light for Screen Saver	○
Home Leave	2 Set Point Control

※ ○ : Applied, - : Not Applied  
 1) The function is available in some product. (Refer to the Product Data Book).  
 2) This function is available for duct type.  
 3) This function requires PDI (PQNUD1540 / PPWRD000) to be installed.  
 4) This function is available for indoor units that provide corresponding function.

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

\* FOTA (Firmware Over The Air) is a wireless method of updating device firmware, allowing updates without manual intervention or physical connections.

## Adding Value to the Indoor Space

### Full Touch & Easy Access

- Provides intuitive GUI through full touch screen.
- New Design (Sleek, Interior Fit)



Residential

- **Menu**  
Schedule, Energy, Settings
- **Current Schedule**
- **Advanced Function**  
Wind Direction, Air Purify, Fan Auto, Electric heater, Ventilation kit etc.
- **Target Temperature**  
The set temperature area for the current operation mode is displayed (1set / 2set)
- **Fan Speed**
- **Operation Mode**
- **Current Temperature**  
Displays room temperature

### User Interface

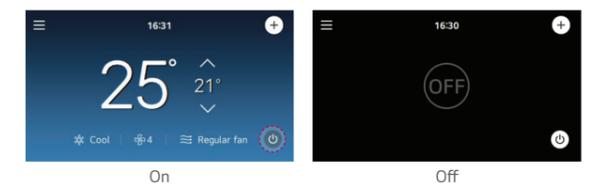
- Friendly GUI

### Simple Timer

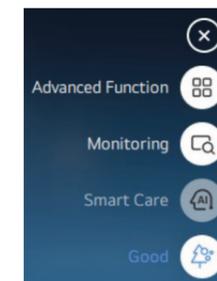


Operation On / Off reservations conveniently display the remaining time and are easily viewable.

### Quick On / Off button

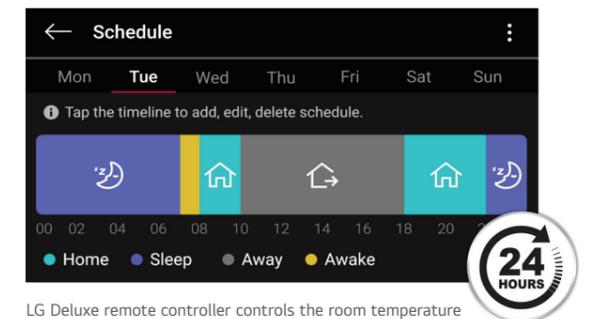


### Floating button



- Advanced Function :  
Energy Saving, Air Purify, Fan Auto, Humidification, Electric Heater, Ventilation Kit, Comfort Cooling etc.
- Monitoring : Smart Care
- Smart Care : Enable, Disable
- Air Purify : Air Quality Level (PM1.0, PM2.5, PM10)

### Pre-set Schedule Mode\* : Home, Awake, Sleep, Away



LG Deluxe remote controller controls the room temperature automatically according to your pre-set program that follows your daily routine

- Offers to make a different schedule for each mode
- The setting of repeat days makes it easy to copy and register the events you are preparing

# Deluxe Wired Remote Controller

## Adding Value to the Indoor Space

### User Interface

- The world's first remote controller to incorporate airflow animation, facilitating a better understanding of the operation modes.

### Intuitive Airflow Visualization



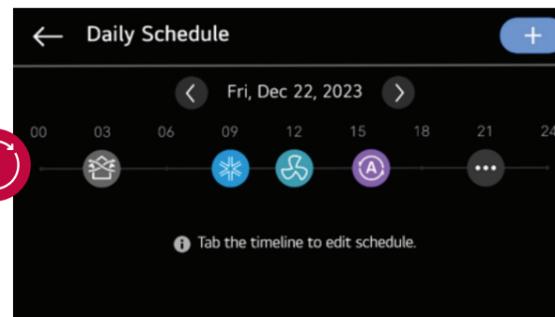
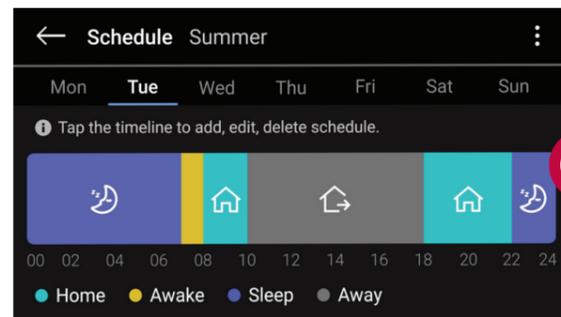
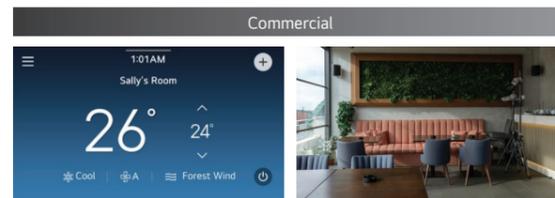
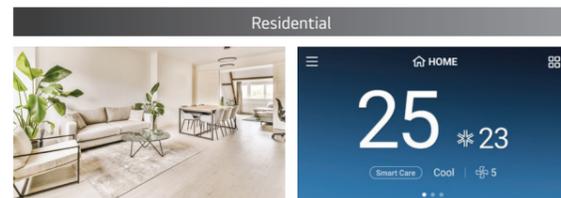
With animations applied, the customer intuitively understands the settings.

### Vent Mode Visualization



### Multi Applications

- Space customized solution.
- Adaptable GUI for Commercial and Residential Applications.



- The user cannot change it after setting it once, and it can be changed after the installer setting > factory reset function.
- Manage your schedule more comfortable.

## Experience Ultra-convenience

### Remote Control

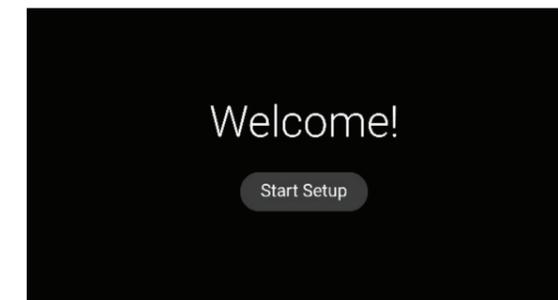
- Built-in Wi-Fi - Easily connect to and start using ThinQ
- Possible to control anytime and from anywhere through ThinQ App.
- Compatible with popular smart home and voice speakers (Google Assistant & Amazon Alexa)



### Easy to Install

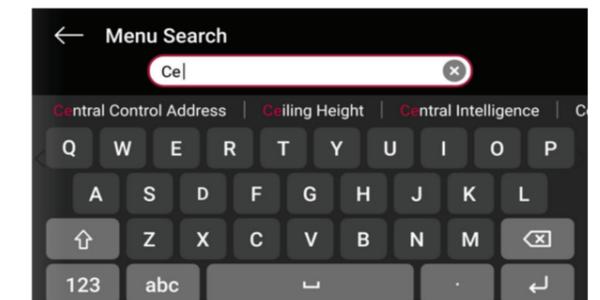
- Starting from the installation wizard, the GUI is intuitive and easy to understand.
- Saves time

### Installation Wizard (Welcome function)



- Language
- Use type (1 set point / 2 set point)
- Temperature unit (Celsius / Fahrenheit)
- Date & Time
- Humidity Display
- Etc

### Function Search Tool



- Auto-suggests list of options based on your input.
- Search by the code number of the installer setting.

### FOTA\* (Firmware Over The Air)

- Enables you to quickly and conveniently initiate software updates.



FOTA Update  
ThinQ App.



\* Firmware update is possible through ThinQ App.

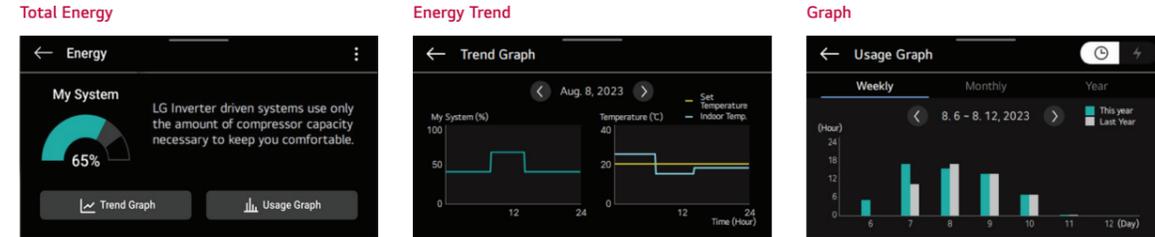
# Deluxe Wired Remote Controller

## Smart Energy Saving

### Energy Management

- Provides the energy usage trend of the entire system for a certain period of time.
- Energy usage function provides comparison of the entire system operating time and power consumption to previous data on a weekly, monthly and yearly basis.
- LG Inverter driven systems use only the amount of compressor capacity necessary to keep you comfortable.

### Energy Usage Check



User can check how much power is being used compared to the maximum capacity of the system.

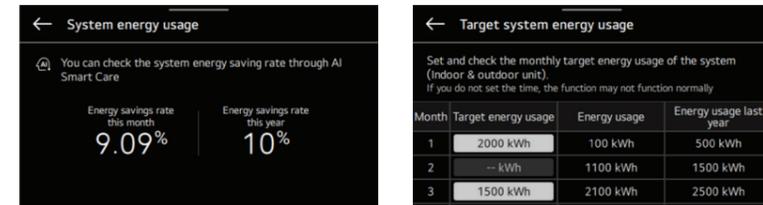
### AI Smart Care Control

- Uses AI<sup>1)</sup> Smart Care to know system power consumption. You can check the system power consumption including savings rate of this month and year which is calculated by AI Energy management function<sup>2)</sup>.

### AI Energy management

Experience AI Smart Care with Deluxe.

### AI Energy Usage Check



### Energy Saving Rate (%)

Check the system energy saving rate through AI Smart Care.

### Energy Consumption Target

Deluxe is able to set monthly energy usage target and the MULTI V i controls power consumption according to the target.



1) AI: Artificial Intelligence  
 2) MULTI V i is equipped with machine learning algorithms that enable it to self-learn.  
 ※ This functions can manage the system energy usage, not the energy usage per unit.

# Standard III Wired Remote Controller

## PREMTB101 (White) / PREMTBB11 (Black)

4.3 inch color screen with modern design.



MODEL NAME	PREMTB101 / PREMTBB11
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting <sup>1)</sup>	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) <sup>2)</sup>	○
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set temperature range
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage <sup>3)</sup> / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Air Purify Control <sup>4)</sup>	○
Air Quality Level <sup>4)</sup>	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Human Detection	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black Light for Screen Saver	○
Home Leave	2 set points control

※ ○ : Applied, - : Not Applied  
 1) The function is available in some product. (Refer to the product data Book).  
 2) This function is available for duct type.  
 3) This function requires PDI (PQNUJ1540 / PPWRD8000) to be installed.  
 4) This function is available for indoor units that provide corresponding function.  
 Note :  
 1. Indoor unit needs to have functions requested by the controller.  
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly.

# Standard III Wired Remote Controller

## Design

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

## Comfort & Air Purification

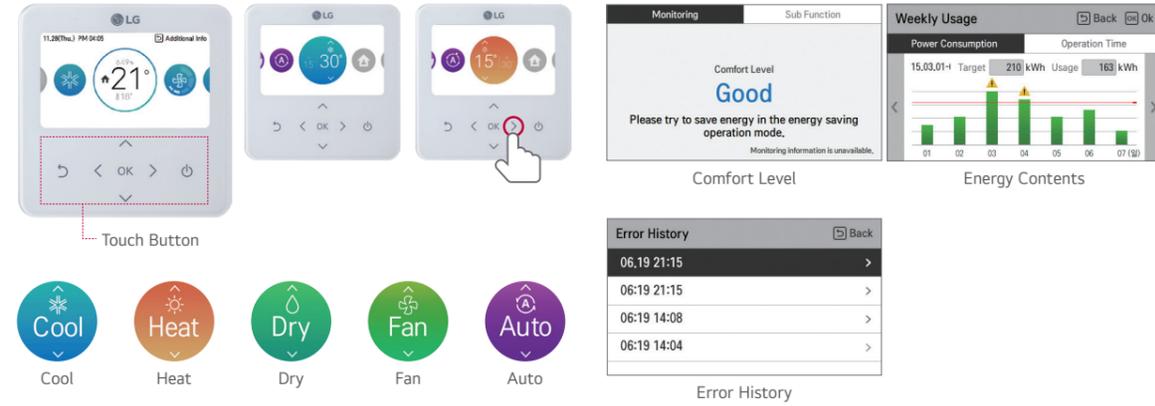
- CO<sub>2</sub> level monitoring (For ERV)
- Air quality level monitoring
- Air purify control

## 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



## Duty Rotation

Operates more than 2 sets of indoor units alternatively at every rotation interval time.

### Without Duty Rotation



### Air Conditioners Overwork

- Reduces air conditioner's life time
- Reduces compressor's life expectancy
- The service cost may increase due to air conditioner's overwork

### With Duty Rotation



### Stable & Safe Operation

- Stable operation since indoor units take turns
- Smaller breakdown chances and keeps server room in operation
- Increase air conditioner's life expectancy
- Rotation interval can be set from 1h to 999h freely.

## Operation Scenario



**A** → **B** : Duty Rotation is working properly

### When the number of the indoor units : 2

- If the interval time is set to 24h (default),
- ① While IDU #1 operates during interval time, and IDU #2 is on standby.
  - ② IDU #2 operates next 24 hours, and IDU #1 goes into standby.

## Failure Back-up Operation

If an error occurs during operation and the system stops, the standby unit starts operation automatically.

### Without Failure Back-up



### Server can be Shut Down

- Server room overheats and server can be shut down.
- Probability for increase service cost
- Needs manual monitoring and operation for failure

### With Failure Back-up



### Stable & Safe Operation

- Stable operation because the operation error can be covered by failure back-up operation
- Keeps server operation and decreases risk
- Protects server from overheating
- Less manual work

## Operation Scenario



### When the number of the indoor units : 2

- ① When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
- ② If an error occurs on IDU #1, standby unit starts operation.
- ③ After the error is cleared, IDU #2 goes back to standby.

# Standard III Wired Remote Controller

## Air Quality Level Display

Easy check for indoor air quality

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



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

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

## Environment Display

Displaying environment information for the more user comfort

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



## Dual Set Point

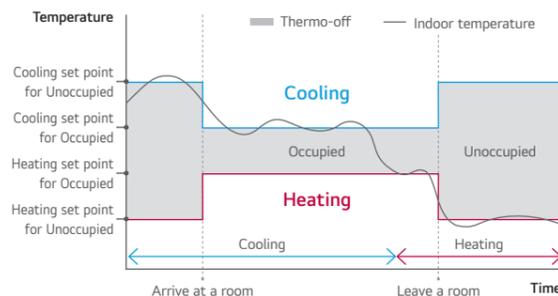
Auto changeover for convenience

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

Setback for energy savings and comfort

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

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

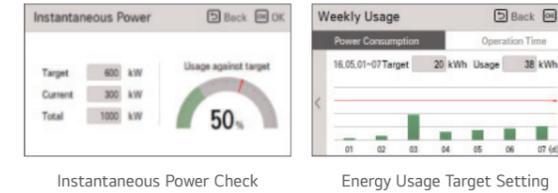


## Energy Savings

Energy Management

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

※ PDI (PQNUD1S40 / PPWRDB000) is required.



Time Limit Control

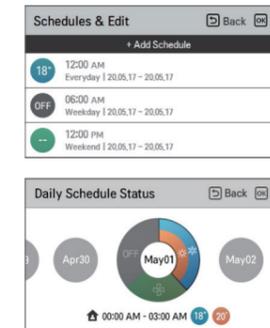
- Monitoring the unit's continuous running time.  
 Prevents wasted energy by turning the unit off automatically.



## Schedule Function

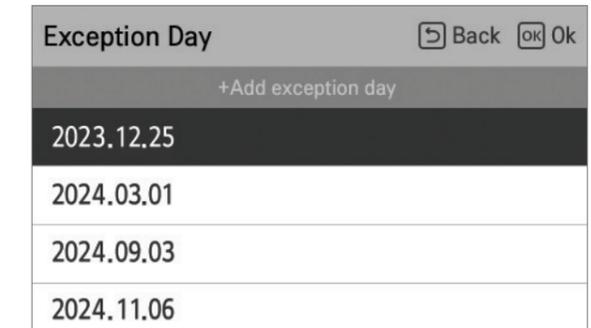
Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

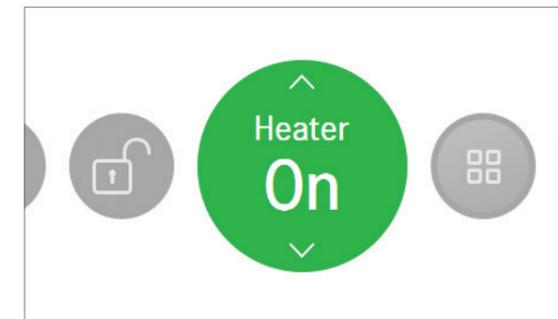
Possible to set up exception days on regular schedule.



## External Device On / Off

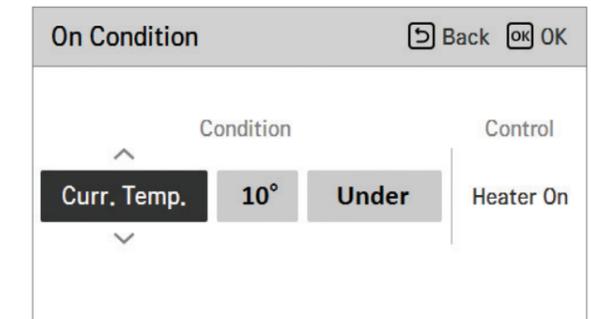
External Equipment Control

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



Customized Interlocking Control

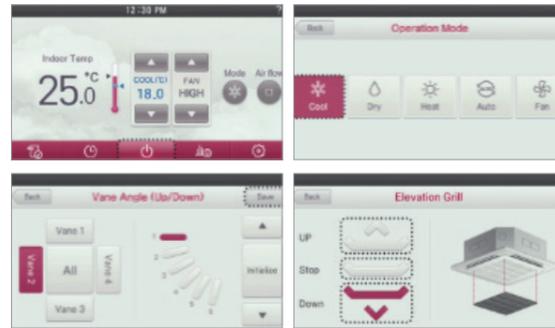
Users can create automatic control patterns, such as setting the system to adjust the temperature when it falls below or rises above a certain threshold.



# Premium Wired Remote Controller



Full Touch Screen



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

5-inch full touch screen with a premium design.



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

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

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

## Easy Energy Management

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



## Easy Scheduling

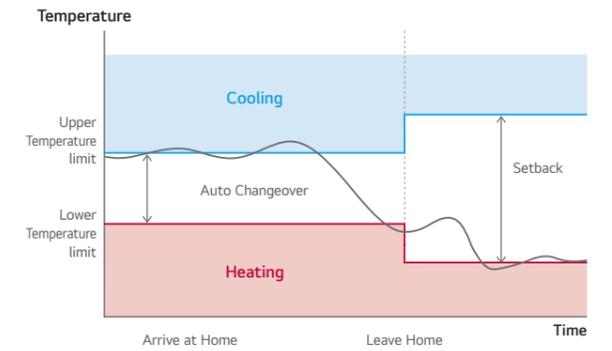
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy



## Dual Set Point

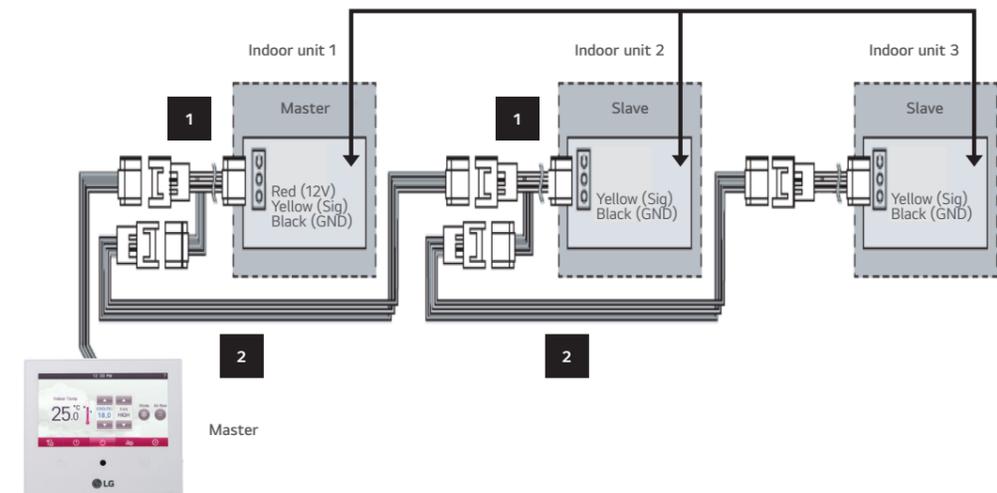
- Auto changeover switches the operation mode automatically
- Setback (Leave Home) Changing status by occupied / unoccupied

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



## Group Control

- Max. 16 Indoor units by one remote controller



## Standard II Wired Remote Controller

### PREMTB001 / PREMTBB01

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



#### Features & Benefits

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

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

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

## Simple Wired Remote Controller

### PQRCVCL0QW (White) / PQRCVCL0Q (Black) / PQRCHCA0QW (White) / PQRCHCA0Q (Black)

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



#### Features & Benefits

- Small remote control with minimal functionality.

MODEL NAME	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	○	○
Fan Speed Control	○	○
Temperature Setting	○	○
Mode	Cool / Heat / Dry / Fan / Auto	-
Auto Swing	○	○
Vane Control (Louver direction)	○	○
E.S.P (External Static Pressure)	○	○
Electric Failure Compensation	○	○
Child Lock	○	○
Indoor Temperature Display	○	○
Wireless Remote Controller Receiver	○ <sup>1)</sup>	○ <sup>1)</sup>
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Black Light	○	○

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

## Wireless Remote Controller

### PWLSSB21H (Heat Pump), PWLSSB21C (Cooling Only)

Handy and portable wireless type.



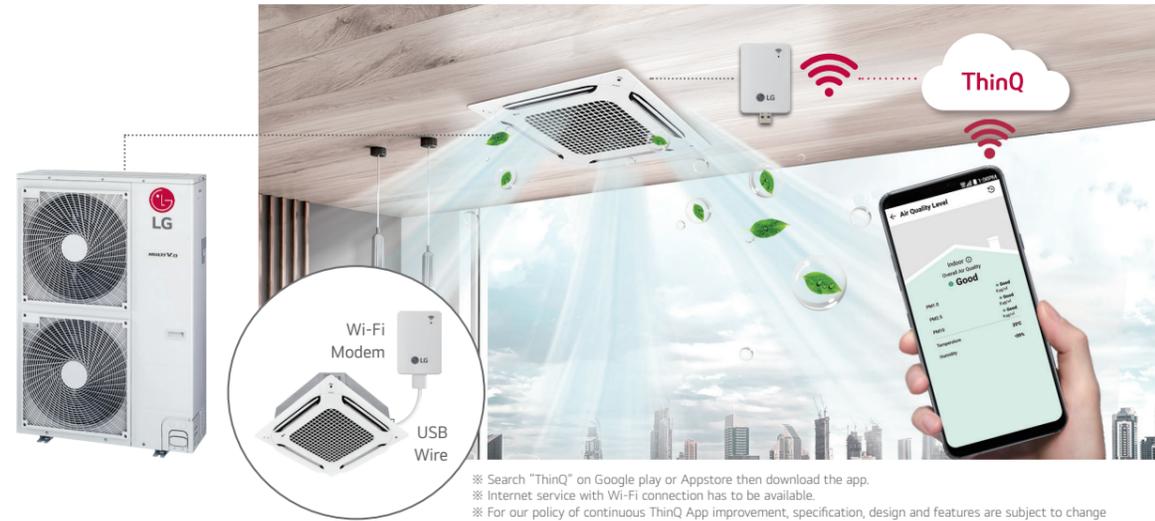
#### Features & Benefits

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

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

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

# Wi-Fi Modem



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

## PWFMD200

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



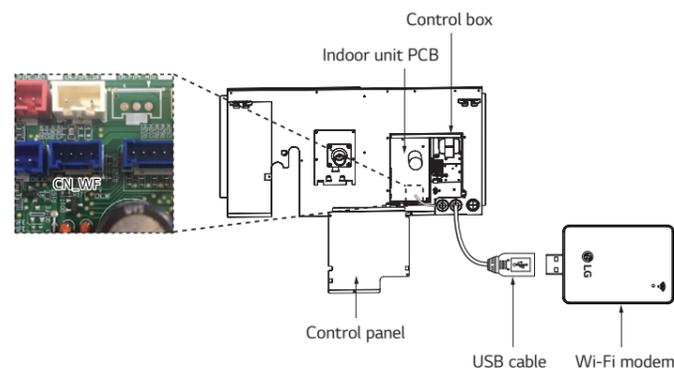
### Features & Benefits

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

MODEL NAME	PWFMD200
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 7.0 or higher, iPhone iOS 14.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

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

## Installation Scene



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

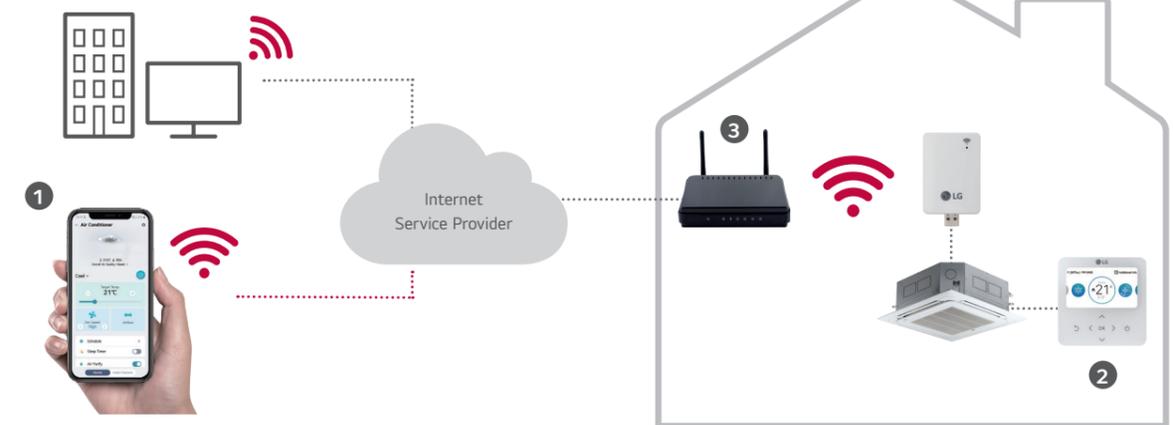
## ThinQ Connectivity

### Connection (Pairing) Order

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

\* 5GHz networks may not be supported.

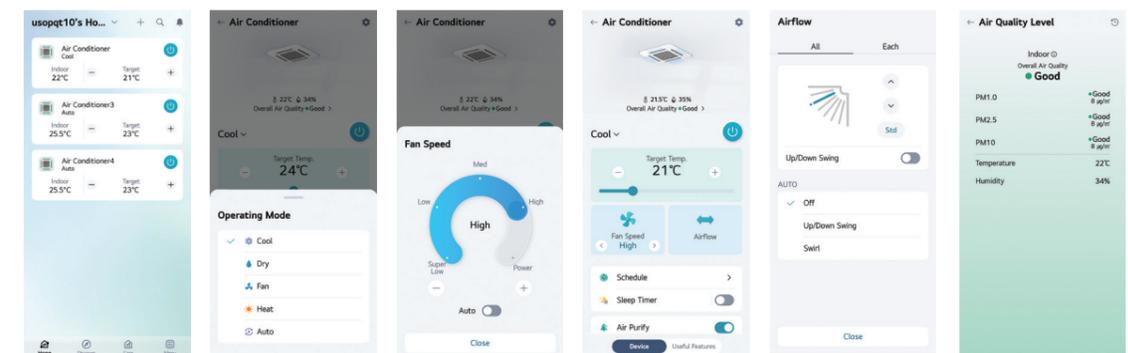
### 4 ThinQ



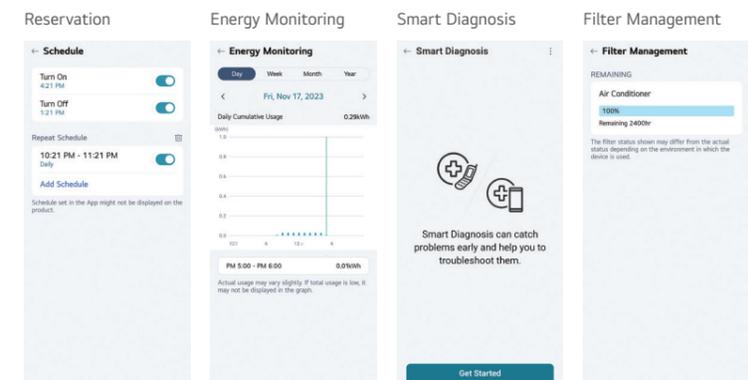
## ThinQ Mobile App

### Simple operation for various functions

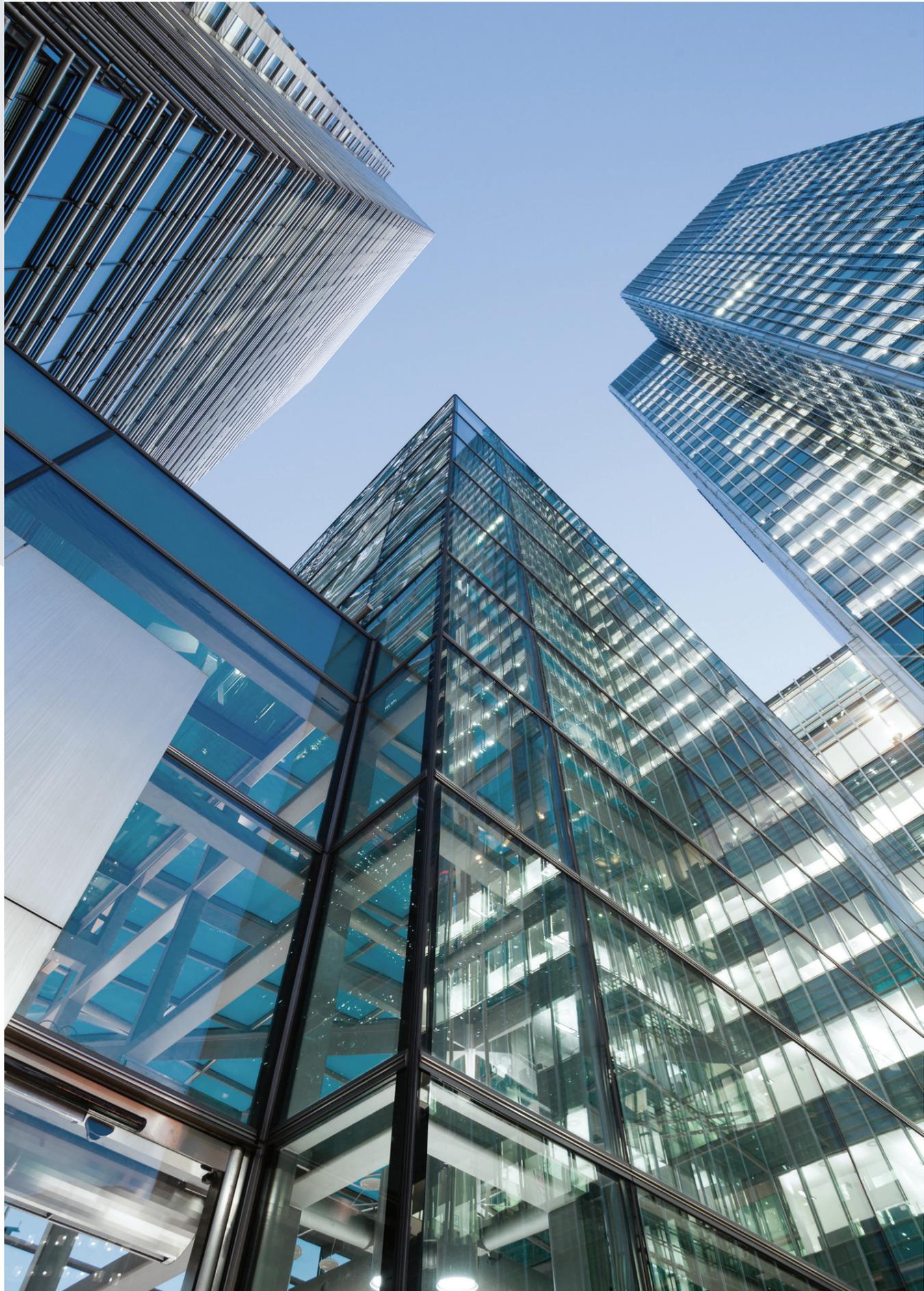
On, Off, Current Temp., Mode, Set Temp.



### Easy Management



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

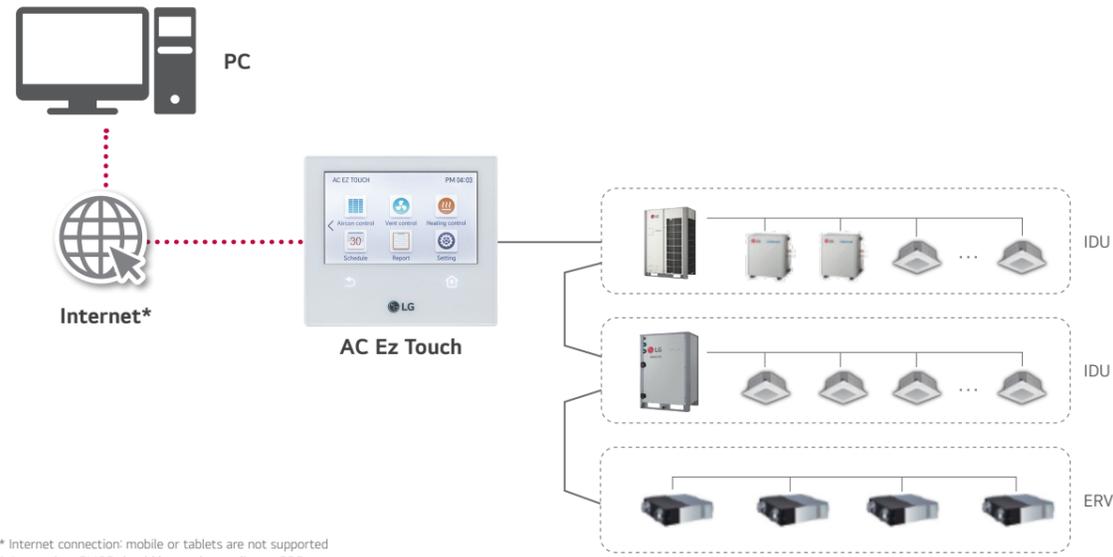


## Feature Functions

Controller Name		AC Ez	AC Ez Touch	AC Smart 5 <sup>6)</sup>	ACP 5 <sup>6)</sup>	AC Manager 5 <sup>7)</sup>	Cloud Gateway		
Model Name									
		PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	Using Lonworks	PACM5A000	PWFMDB200	
Product	DO	-	-	2	4	-	-	-	
	DI	-	1	2	10	-	-	-	
	Max. Connectable No.	IDUs	32	64	128	256	64	8,192	16
		ERV	32	64	128	256	64	8,192	16
		A / C + ERV	32	64	128	256	64	8,192	16
		AHU	-	-	16	16	16 <sup>5)</sup>	16 x 32	-
Chiller		-	-	5	10	-	10 x 32	-	
Commercial Air Purifier <sup>1)</sup>	-	-	64	128	-	128 x 32	-		
Compatibility	Air Conditioner	○ <sup>3)</sup>	○	○	○	○	○	○	
	Ventilation (ERV / ERV DX)	○ <sup>4)</sup>	○	○	○	○	○	○	
	Heating	-	○	○	○	○	○	○ <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>	○	-	
Additional Function	Add Drawing	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Group Management	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Auto Changer Over	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Set Back	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Dual Setpoint	-	○	○	○	○ <sup>5)</sup>	○	-	
	Change Alarm	-	Filter	Filter	Filter	Filter	Filter	-	
	Indoor Unit Lock	○ <sup>2)</sup>	○	○	○	○ <sup>5)</sup>	-	-	
	Cycle Monitoring	-	-	○	○	○ <sup>5)</sup>	○	○	
	Air Purify	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-	
	Schedule	○	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	○ <sup>9)</sup>	
Auto Control	Peak Control	Energy & Priority Control	-	○	○	○	○ <sup>5)</sup>	○	-
		Outdoor Unit Capacity Control	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-
	Time limit control	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
Interlocking	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-		
Energy Navigation	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-		
Energy Report	Power	-	○	○	○	○ <sup>5)</sup>	○	○ <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	-	
Trend Reporting	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	-	○	-		
History	Report (Control / Error)	-	Error	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	○	
	Send Email	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Save to PC / USB (Excel)	-	-	PC / USB	PC	○ <sup>5)</sup>	PC	-	
etc	Summer Time	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	Outdoor Unit Oil-Return Operation	-	-	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	-	-	
	User Authority	-	Password	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	
	PC Access	-	○	○ <sup>5)</sup>	○ <sup>5)</sup>	○ <sup>5)</sup>	○	-	

※ ○ : Applied, - : Not Applied  
 1) The Commercial Air purifier must additionally install PI485 (PHNFP14A0).  
 2) Hard Lock  
 3) Except for some feature (Individual lock, Limit temp., etc.)  
 4) Except for some feature (User mode, additional function, etc.)  
 5) This function is not applied for BMS points.  
 6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.  
 7) ACP 5 or AC Smart 5 is required.  
 8) Only for Therma V  
 9) It will be released until 1Q in 2024.

# AC Ez Touch



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

## PACEZA000

Smart management with 5-inch touch screen for small sites.



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

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

## PC Access

Users can control each space efficiently through PC access.



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

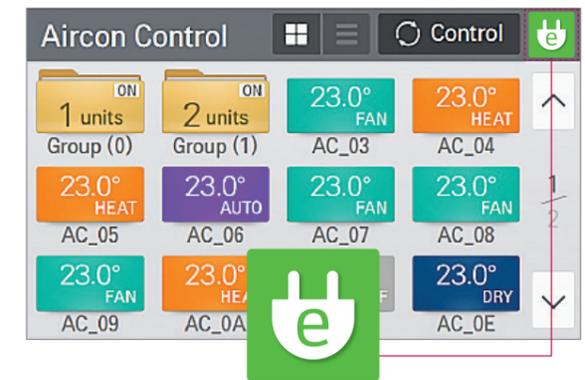
## Energy Statistics (with PDI)

Operational numbers (Time, Power consumption) are provided to help make intelligent system operation decisions.

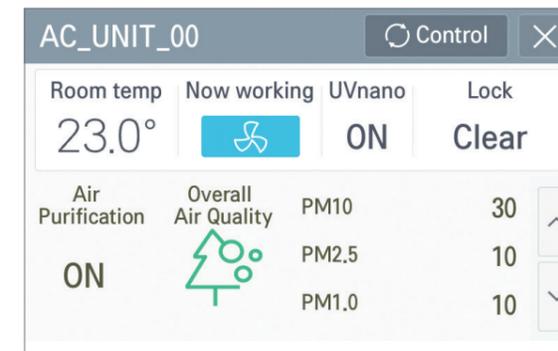
Energy		
2020.2.8 ~ 2020.3.19		
Today Week Month		
Name	Usage(kWh)	Accumulated(kWh)
Group1	110	3021
Group2	150	6186
Group3	130	4267
Group4	120	7614

## Energy Mode

When using the energy mode function, the system can forcefully switch from cooling mode to fan mode or from heating mode to off mode. (Only when operating an indoor unit)



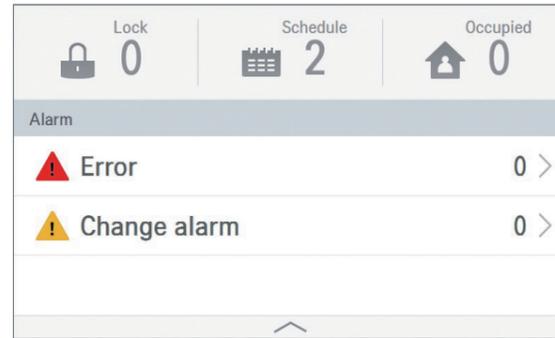
## Air Purify Control & Monitoring



# AC Ez Touch

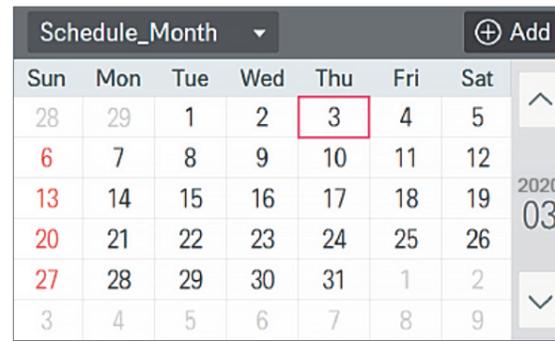
## Alarm Indicator

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



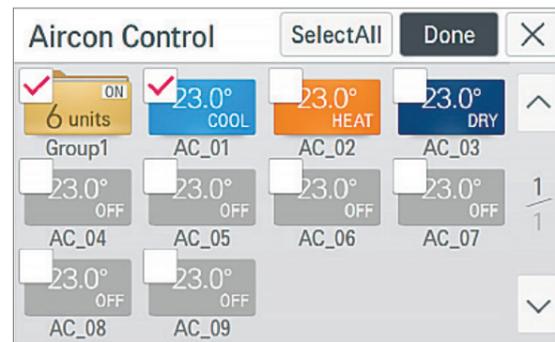
## Schedule

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

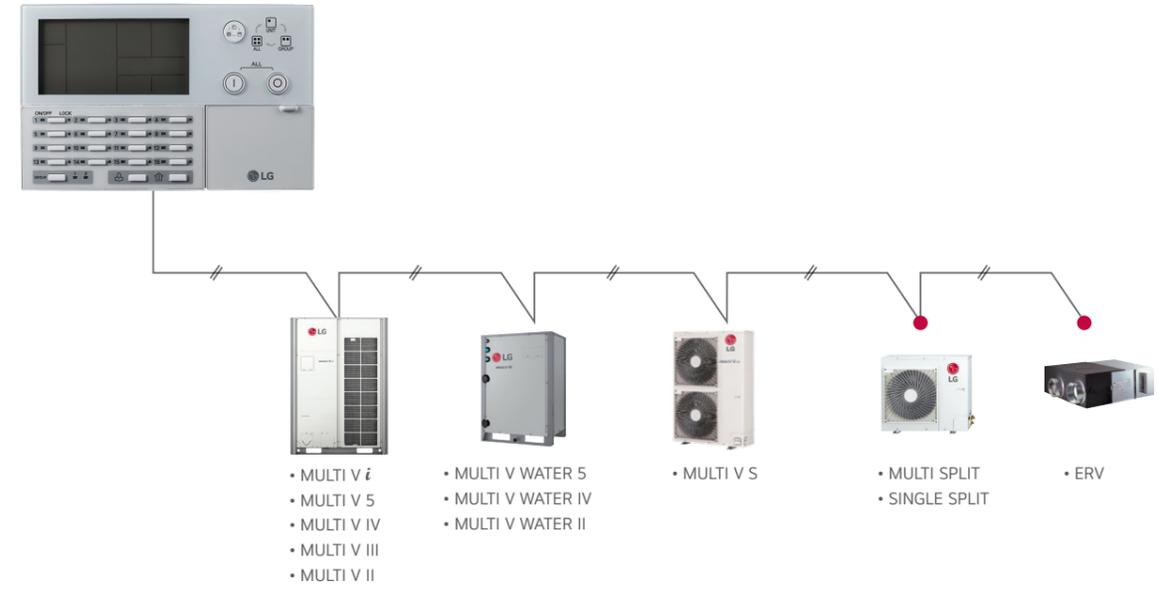


## Group / Individual Control

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



# AC Ez



• Appropriate PI485 should be used according to PDB.

## PQCSZ250S0

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



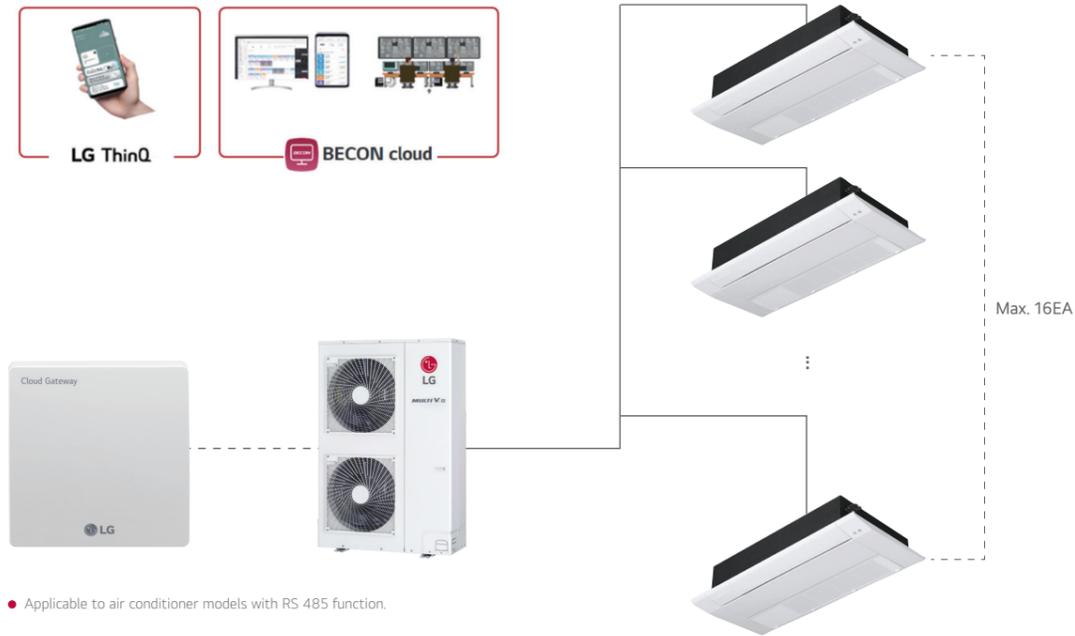
### Features & Benefits

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

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

※ ○ : Applied, - : Not Applied

# Cloud Gateway

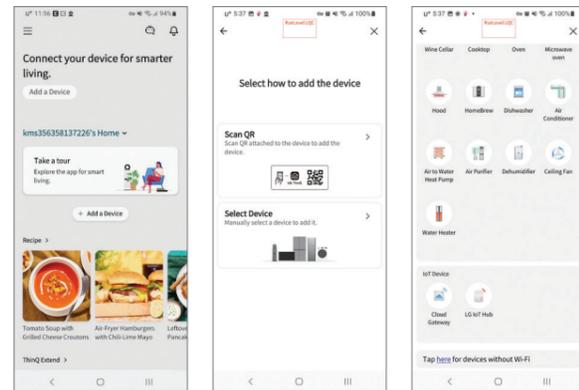


● Applicable to air conditioner models with RS 485 function.

## PWFMDB200

Cloud Gateway can remotely control up to 16 indoor units through LG ThinQ or BECON Cloud.

### Cloud Gateway



MODEL NAME	PWFMDB200
Size (W x H x D, mm)	120 x 120 x 29
Interfaceable Products	System Air Conditioner
Maximum Number of Units	16
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android 7.0 or higher, iPhone iOS 14.0 or higher)

Function		ThinQ	BECON Cloud <sup>1)</sup>
Max. number of unit		16	
Remote Control	Operation Start / Stop	○	○
	Operation Mode	○	○
	Target Temperature	○	○
	Fan Speed	○	○
	Swing	○	○
	Air Purify	○	○
Interlocking Product	MULTI V	○ <sup>2)</sup>	○
	GHP	○	○
	MULTI	○	○
	Single	○	○
	ERV	X	○
	Heating	X	○ <sup>3)</sup>
Etc	Schedule	○	△ <sup>4)</sup>
	Electricity Monitoring	X	○ <sup>3)</sup>
	History	X	○
Maintenance	Smart Diagnosis	○	X
	Cycle Monitoring	X	○

1) Depending on the region, BECON Cloud may not be available. Please contact to BECON Cloud administrator for checking availability. (BECONcloud-biz@lge.com)  
 2) Hydrokits are excluded  
 3) Only for Therma V  
 4) It will be released until 1Q in 2024.



# AC Smart 5

## PACS5A000

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



Max. 128 IDU control



Schedule



Map view (Visual navigation)



Energy monitoring



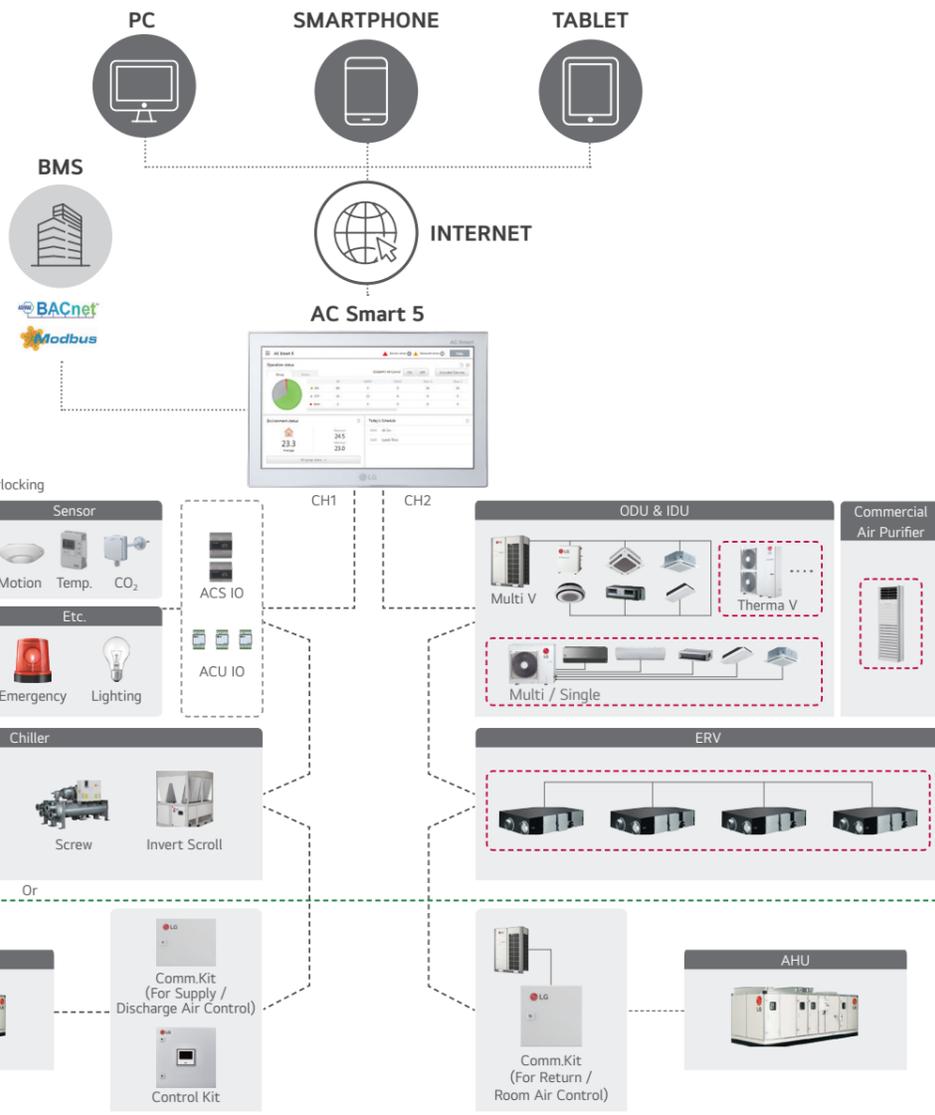
Air Purify



Multi level grouping

MODEL NAME	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display <sup>1)</sup>	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO <sub>2</sub> Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
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.

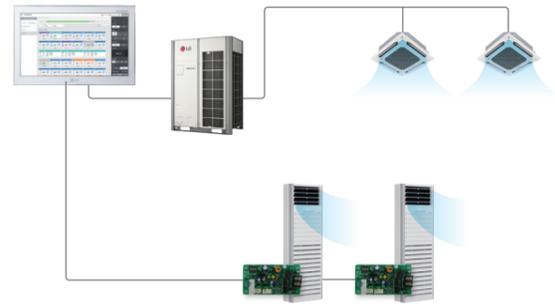
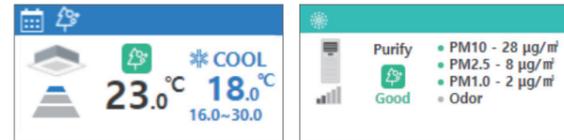
# AC Smart 5

## A Total Air Purification Solution

### Air Purify Control



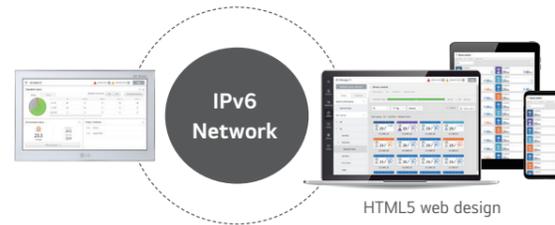
### Air Quality Level Monitoring



\* The Commercial Air purifier must additionally install PI485(PHNFP14A0).

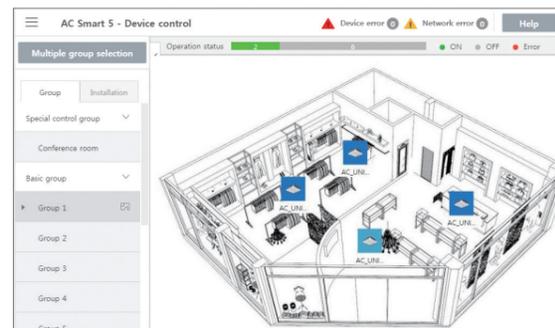
## Advanced Network Accessibility

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 systems 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.



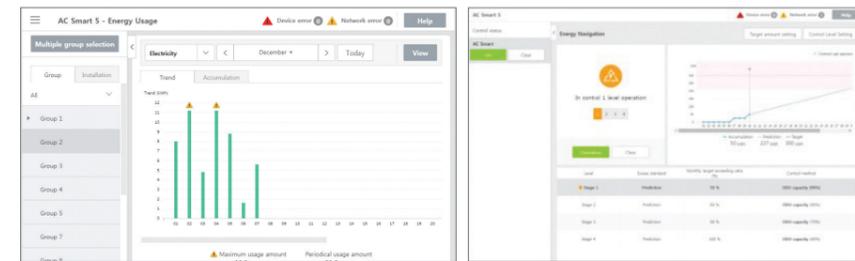
## Multi Level Group Composition

Users can create frequency or multi-level groups, making it easier to control and monitor the devices.



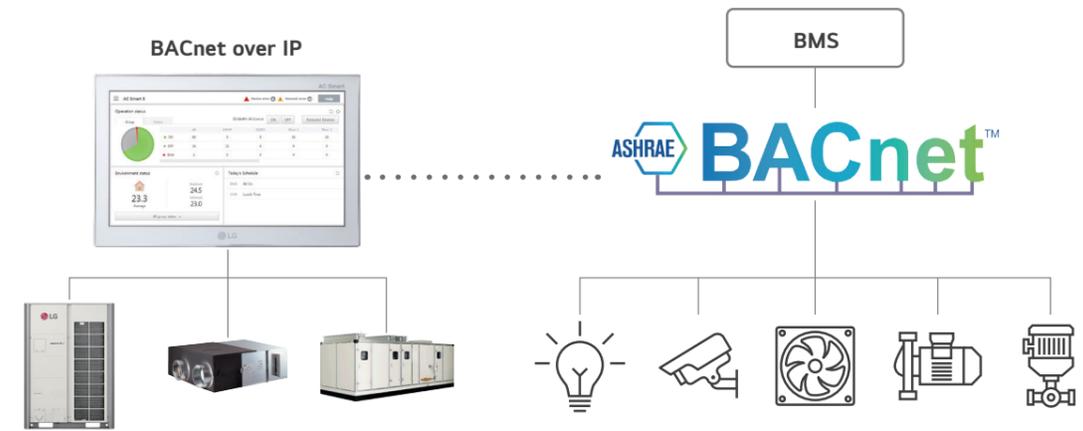
## Energy Management

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.



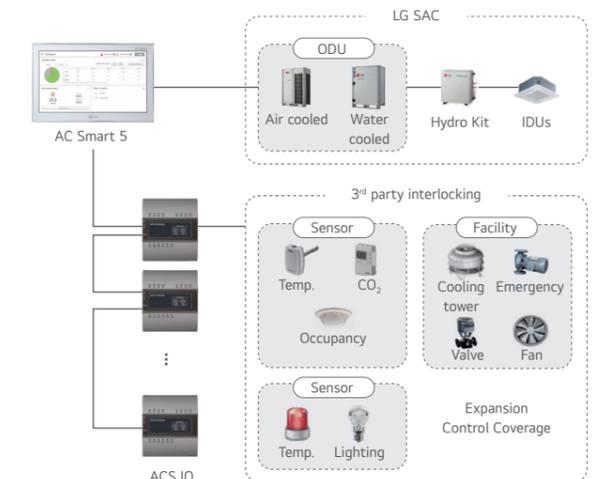
## Building Management System (BMS) Integration

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

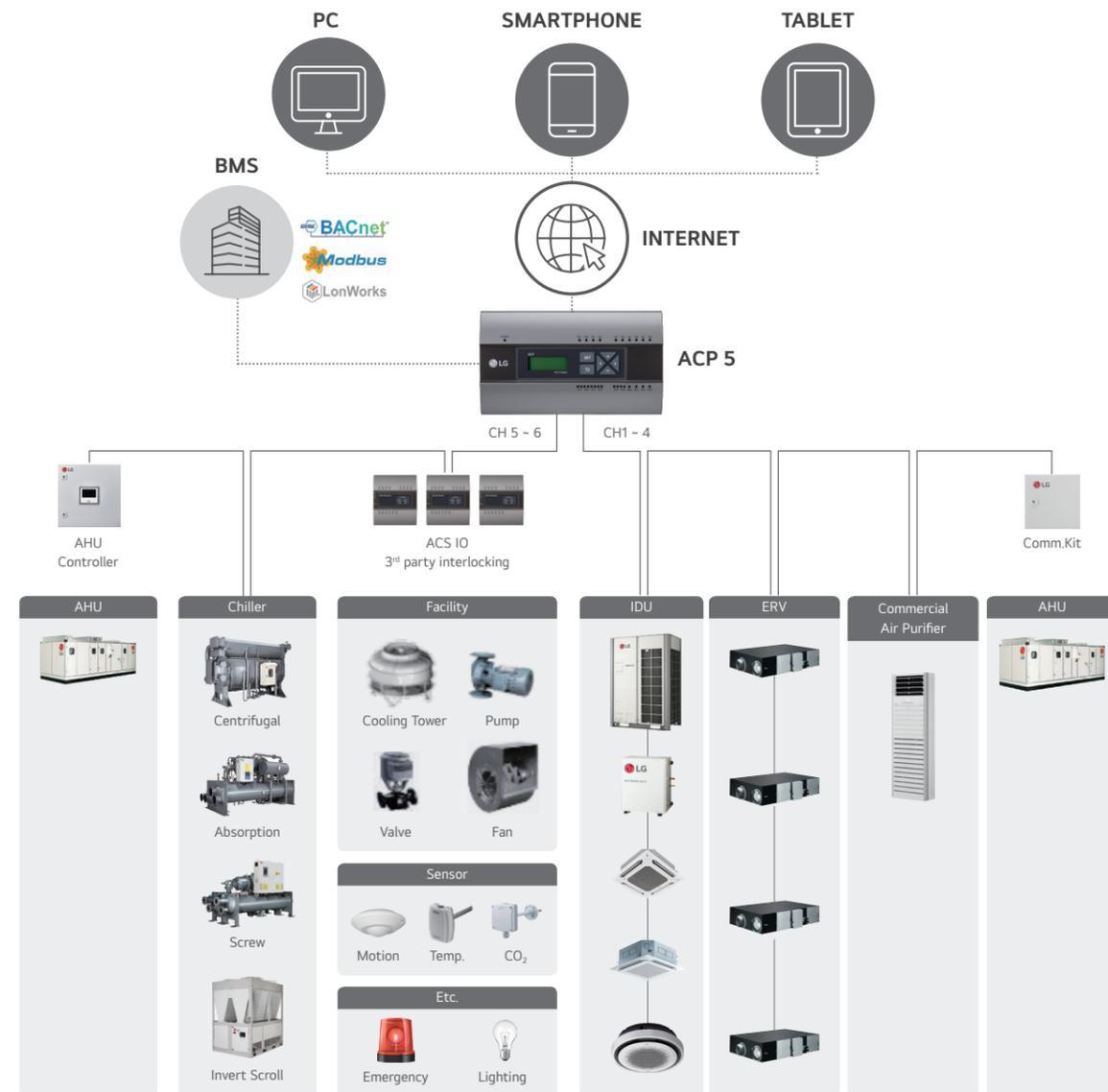


## Interlocking with 3rd Party Equipment

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



# ACP 5



## PACP5A000

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



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

### Advanced Network Accessibility

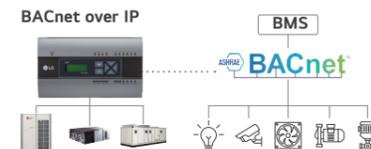


\* Fix Public IP is mandatory.  
 \* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

### Energy Navigation



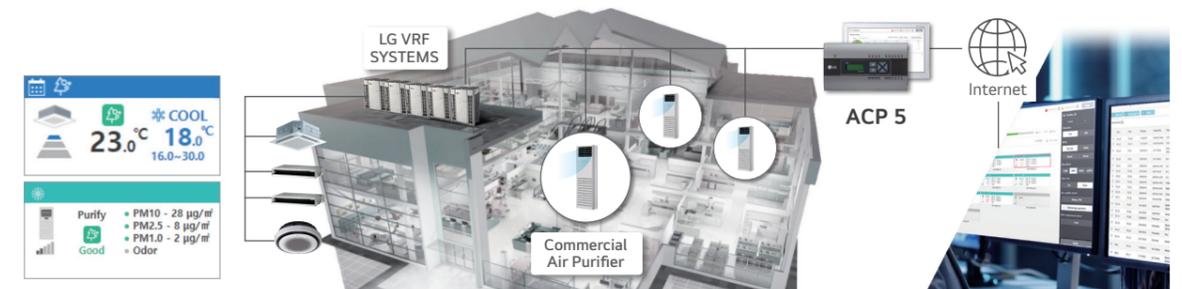
### BACnet IP & Modbus TCP



### Air Purify Control / Monitoring

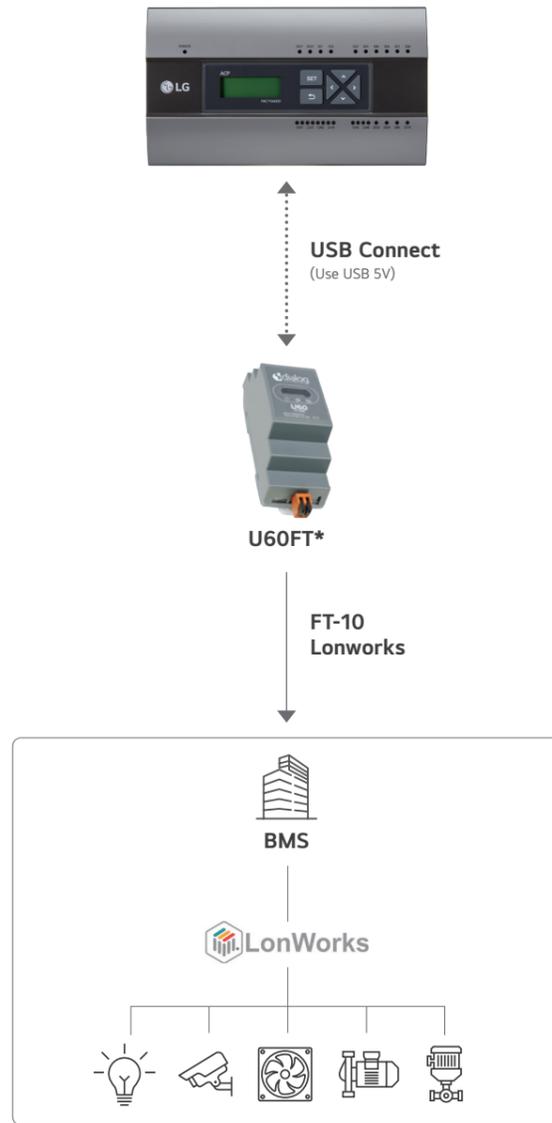
#### Integrated Management

The Commercial Air Purifier can be used with LG central controller to monitor and control.



# For Lonworks

For LonWorks protocol, only ACP 5 provides an interface for BMS integration. Additionally, a U60FT module is required between ACP 5 and the BMS system to establish the system interface between the LonWorks FT-10 BMS and LG HVAC unit.

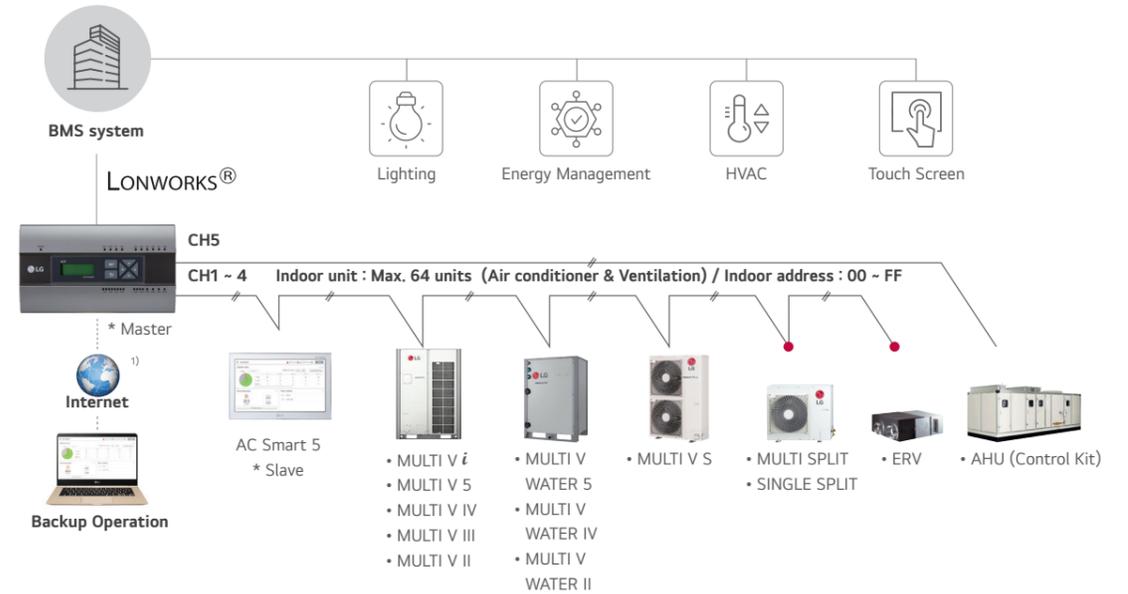


UNIT TYPE	BACNET IP	MODBUS TCP	LONWORKS
IDU	○	○	○
ERV, DX ERV	○	○	○
ODU	Monitoring Only	-	-
Heating	○	○	○
AHU	○	○	-
Scroll Air Inv Gen2	○	-	-
EXP I/O	○	-	-
Air Purifier	○	-	-

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

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

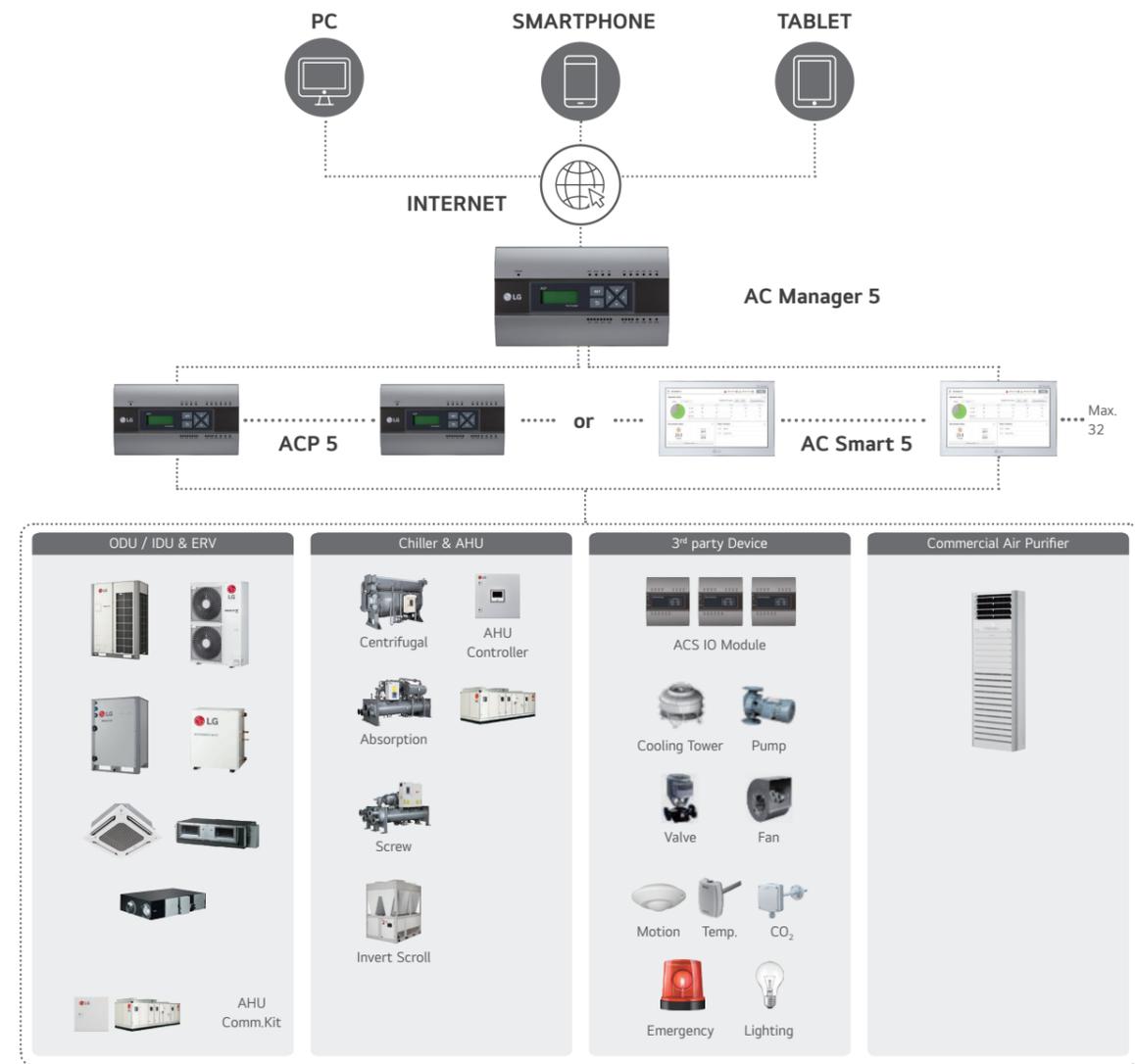
※ ○ : Applied, - : Not Applied



1) Assignment of public IP address is required to access central controller through internet.

● Appropriate P1485 should be used according to PDB (Product Data Book).

# AC Manager 5



## PACM5A000

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

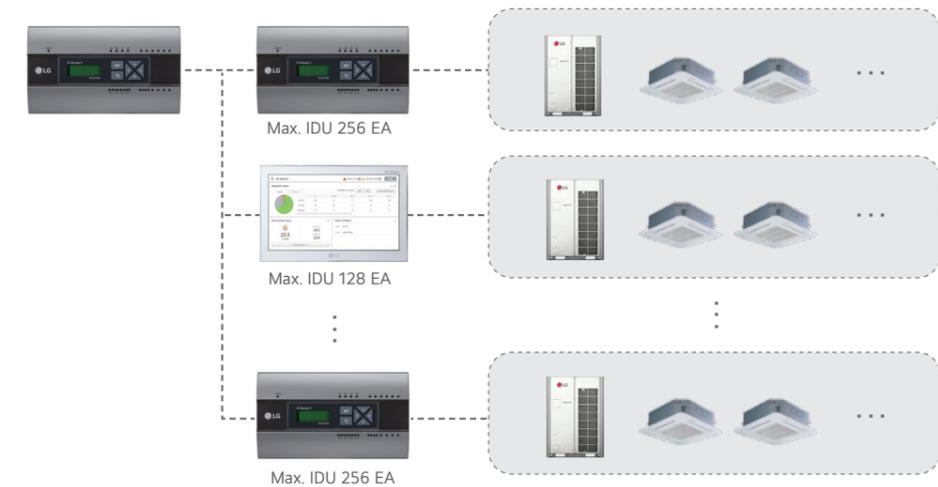


MODEL NAME	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan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

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

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

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

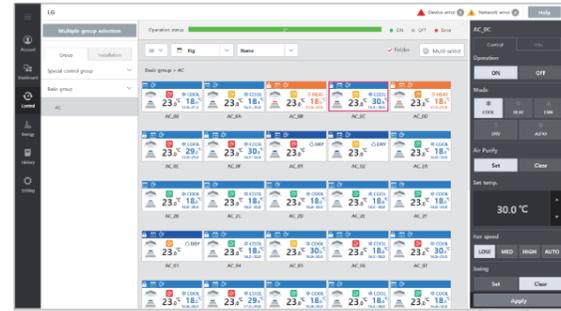


# AC Manager 5

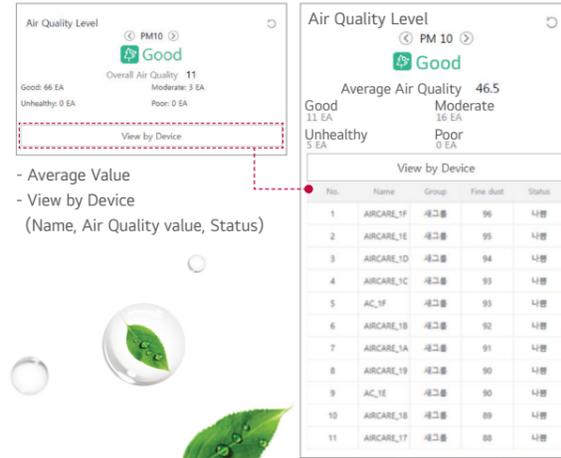
## Smart Air Purify Solution

Total management of the air purification function creates a clean environment everyday.

### Air Quality Multi Status view

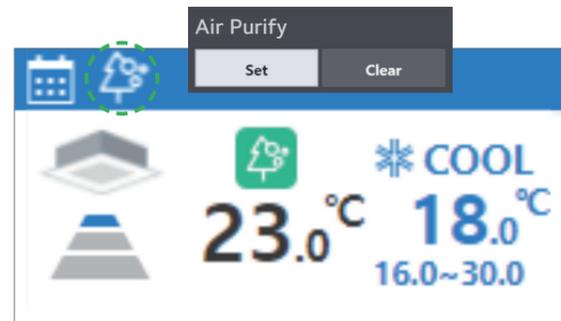


### Air Quality Summary Widget



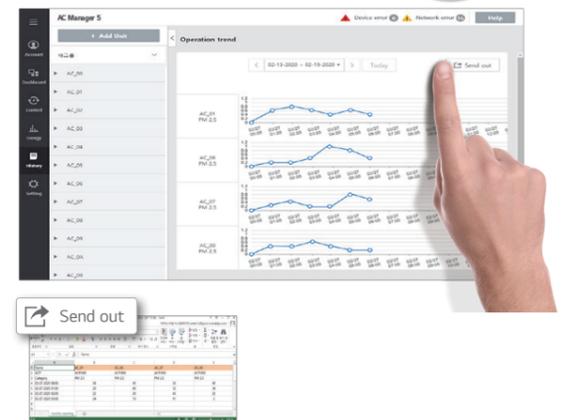
- Average Value
- View by Device (Name, Air Quality value, Status)

### Air Purify Control



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

### View Air Quality Trends



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

## Advanced Network Accessibility & User Friendly GUI

As an advanced central controller, AC Manager 5 offers a 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 that sets the target usage amount to limit the monthly power consumption and control so that the total accumulated power consumption does not exceed the target usage amount. It performs a total of 7 control levels with the estimated / actual usage amount exceeding the ratio compared to the monthly target usage amount. For the control method, there are indoor unit operation ratios, outdoor unit capacity control, and indoor unit operation controls.



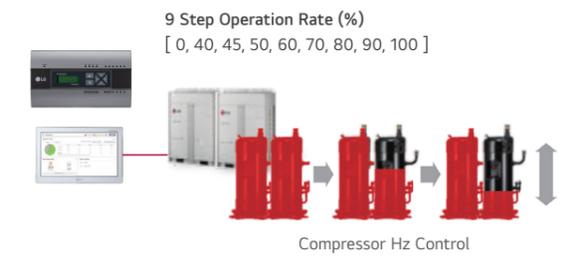
## Peak Control

This function can reduce electricity use. There are two kinds of control logic: energy saving effect by indoor unit operation control rate, and load management effect by outdoor unit capacity control.

### Operation ratio (IDUs) Control

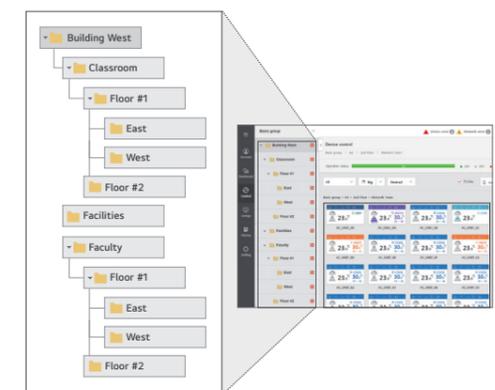


### ODU Capacity Control



## Multi Level Group Composition

Users can create frequency or multi-level groups, making it easier to control and monitor the devices.



# MODBUS RTU Gateway

## PMBUS00A

Providing MODBUS RTU connection between LG Air conditioners and BMS.



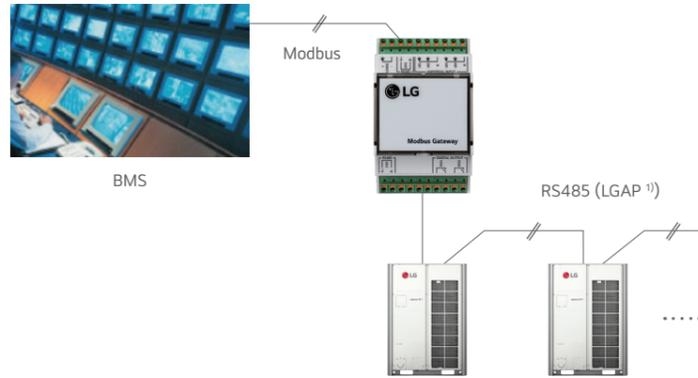
### Features & Benefits

- Function
  - Modbus RTU communication with Modbus master controller
  - Modbus RTU slave (RS485) / 9,600 bps
  - Applicable for MULTI V 4, MULTI V 5, ERV, Heating
  - Size (W x H x D, mm) : 53.6 x 89.7 x 60.7
  - Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules
  - Power : DC 12V (250mA)
  - No slave allowed in LGAP

### Installation Scene

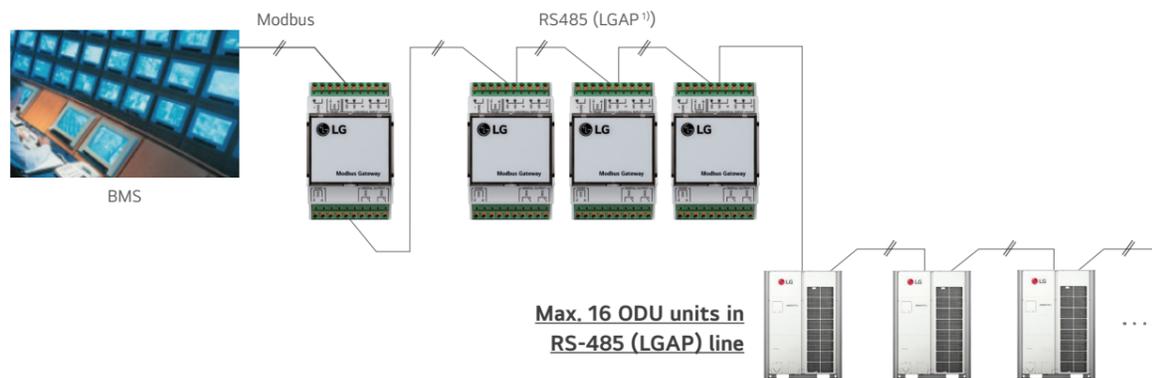
#### Single Module

Max. 16 indoor units with a single module



#### Multiple Module

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



1) LGAP is LG Protocol.  
Max. 16 ODU units in RS-485

### Modbus Gateway Memory Map

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

#### Coil Register (0 x 01)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Auto Swing	Aircon Operate (On / Off)	Hot Water Mode (On / Off)	0 : Disable / 1 : Enable	
3	Filter Alarm Release	Filter Alarm Release <sup>1)</sup>	Reserved	0 : Normal / 1 : Alarm Release	
4	Lock Remote Controller	Lock Remote Controller	Lock Remote Controller	0 : UnLock / 1 : Lock	
5	Lock Operate Mode	Lock Operate Mode <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
6	Lock Fan Speed	Lock Fan Speed <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
7	Lock Target Temp.	Lock Target Temp. <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
8	Lock IDU Address	Lock IDU Address <sup>1)</sup>	Reserved	0 : UnLock / 1 : Lock	
9	Reserved	Quick Ventilate	Reserved	0 : Disable / 1 : Enable	
10	Reserved	Energy Save	Reserved	0 : Disable / 1 : Enable	

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

#### Discrete Register (0 x 02)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
3	Filter Alarm	Filter Alarm <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	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Operate Mode	Operate Mode	Operate Mode	• 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP • 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	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Error Code	Error Code	Error Code	0 ~ 255 ※ Please refer to the product error table.	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Room Temp.	RA Temp.	Room Temp.	-99.0 ~ 99.0 [°C] x 10	
3	Pipe In Temp.	OA Temp. <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.

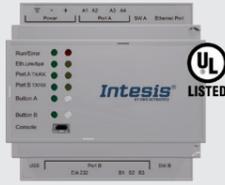
2) : This register value is applied 'AWHP' ONLY.

# KNX Gateway

Technical and service support must come from Intesis directly.  
 LG Electronics Inc. warrants and assumes no liability for this product.  
 - This is the landing page of INTESIS MAPS: <https://www.intesis.com/products/intesis-maps-home>.

## INKNXLGE0160036 (Indoor Unit ~16) / INKNXLGE0640036 (Indoor Unit ~64)

Specially designed to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX protocol.



### Key features

- 2 model types
- Up to 64 connectable indoor units
- Direct connection to KNX TP1 bus
- Independent management of communications
- Power supply : 9 to 36V DC or 24V AC (not included)
- KNX Power consumption : 5mA
- Standard DIN-Rail 6 modules enclosure
- LG Slave Central controller (for example, AC Smart) and PDI can be operated with KNX gateway

### Key benefits

- Easy & quick installation : user comfort
- Flexible integration (Intesis MAPS & KNX) Export Group Address by "csv" file to ETS5/6
- Compatibility with all LG products (Air-Conditioning, ERV, Hydrokits and AWHP)
- Ergonomic & friendly user interface (using the supplied software Intesis MAPS)
- One single tool for settings, commissioning, SW update and troubleshooting

### Key messages

- Manage your building with an advanced building automation solution
- Energy savings
- Power consumption measurement using additional LG PDI device
- Bidirectional communication between LG & KNX
- Your system diagnostics accessible through LG Error codes

MODEL NAME	MAX. CONNECTION INDOOR UNITS
INKNXLGE0160036	16
INKNXLGE0640036	64

## Intesis MAPS is Configuration Software for Intesis KNX Gateway Series

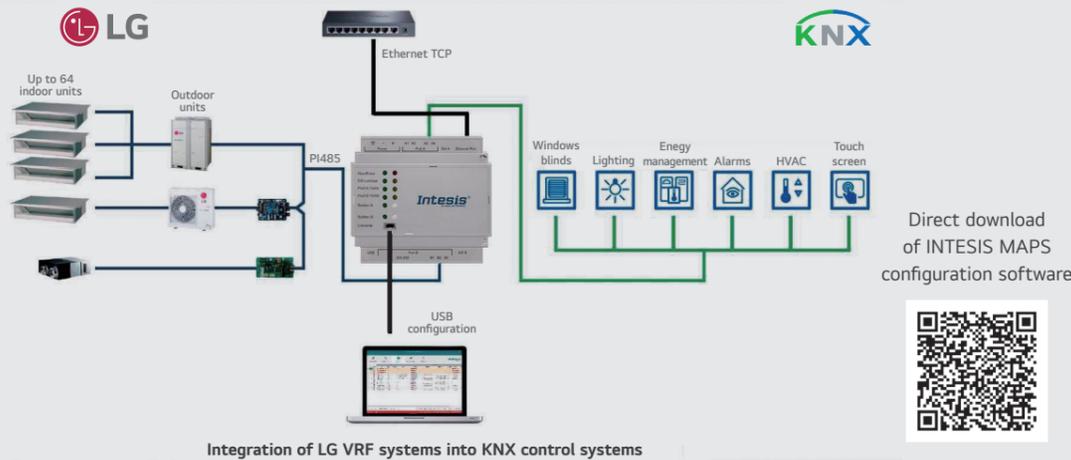
Easy to use tool for the configuration of Intesis gateway, in a fast and effective way. It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.



Intesis MAPS Configuration software

- Only needed during configuration.
- One single tool for the configuration of the whole range of Intesis KNX gateway series.
- Supplied with Intesis gateway with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple and fast association of KNX Group Addresses, exported from ETS, to Intesis gateway's datapoints.
- Includes powerful and useful features for configuration, setup and troubleshooting.

## Installation Scene



## INKNXLGE001R000 (For Indoor Unit)

LG-KNX gateway allows fully bi-directional communication between LG VRF systems and KNX installations.

**One gateway, one AC unit :** This is the solution of **ONE-TO-ONE** integration. All required KNX DPT objects are fully compatible with all KNX thermostats in the market. The gateway is wired directly to an indoor unit. This allows not only the control of the main AC functions such as operating mode, fan speed, temperature setpoint, but also the monitoring of errors and alarms.



### Key features

- KNX certified.
- Configured by ETS standard configuration tool.
- KNX database available on ETS5 / 6
- Reduced dimensions allowing a quick installation inside the Air Conditioner unit.
- All the required DPT objects are 100% compatible with all KNX thermostats in the market.
- Energy efficiency functions, such as "timeout", "open window" or "occupancy".
- Smooth integration of KNX thermostats allowing the control of the AC unit by the thermostat's own temperature sensor (Virtual Temperature)
- Simultaneous control of the AC unit by LG remote controller and KNX.

### Key benefits

- Optimization cost for small or medium installations.
- Decentralized device control : one gateway connected to each indoor unit.
- Easy integration on KNX installations
- Intuitive configuration

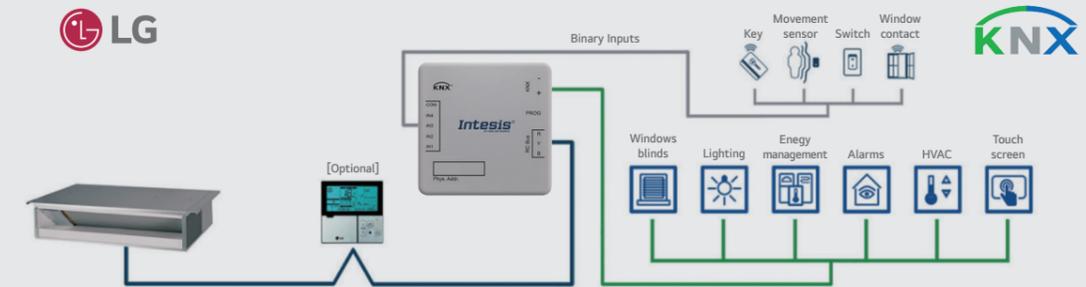
### Key messages

- Total control and monitoring of the AC unit from KNX, including AC unit's internal variables, running hours counter (for filter maintenance control) and error indication (CH Error Codes).
- Fully integrated solution on Engineering Tool Software ETS5 / 6 by database product

## KNX LG solution concept

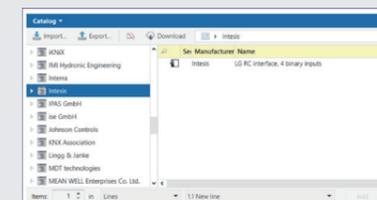


## Installation Scene & LG Topology

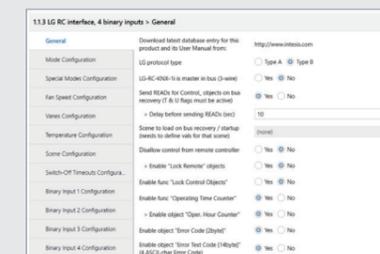


## KNX Product

Database available directly on ETS5/6 under INTESIS manufacturer



## Configuration by ETS Data Base



Web landing page of the product

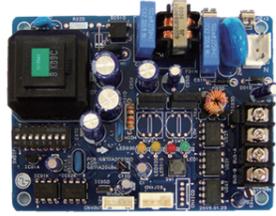


## PI485

PI485 converts LG Air conditioner's protocol to the RS485 protocol for the central controller.

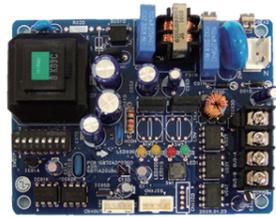
### PMNFP14A1

Easy to manage up to 64 indoor units.



- Power : Single phase AC 220V 50 / 60Hz
- **1 for Each Outdoor Unit**
  - Multi V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
  - Single Split
  - Multi Split

### PP485A00T



- Power : Single phase AC 220V 50 / 60 Hz
- **1 for Each Indoor Unit**
  - Therma V

### PHNFP14A0



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

### PSNFP14A0 (with case)



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





## PDI (Power Distribution Indicator)

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

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

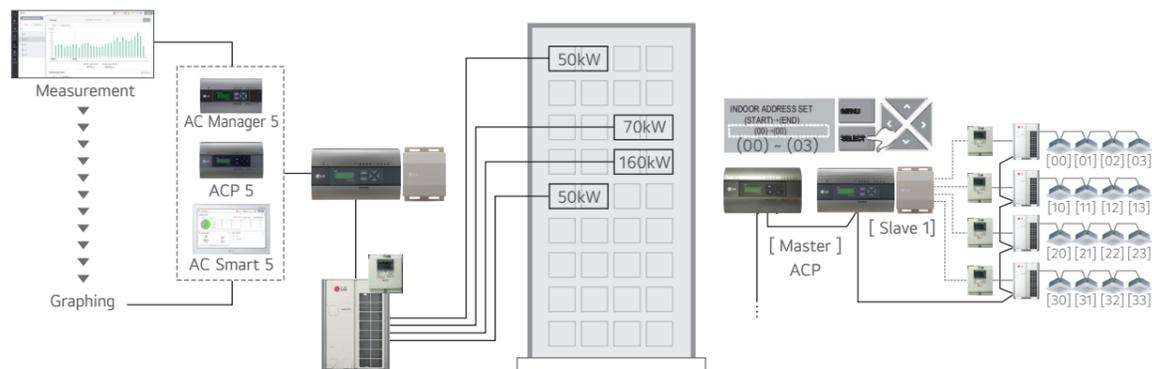
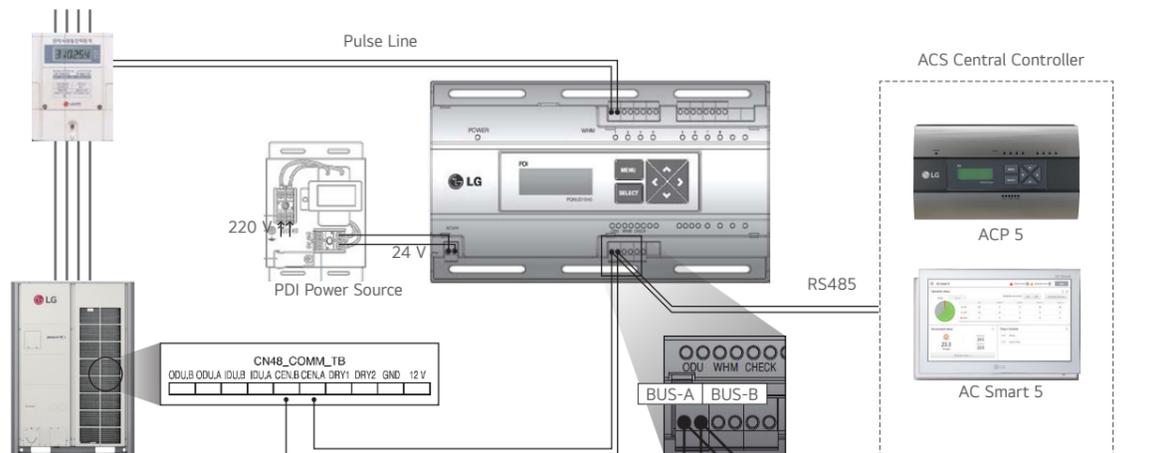


### Features & Benefits

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

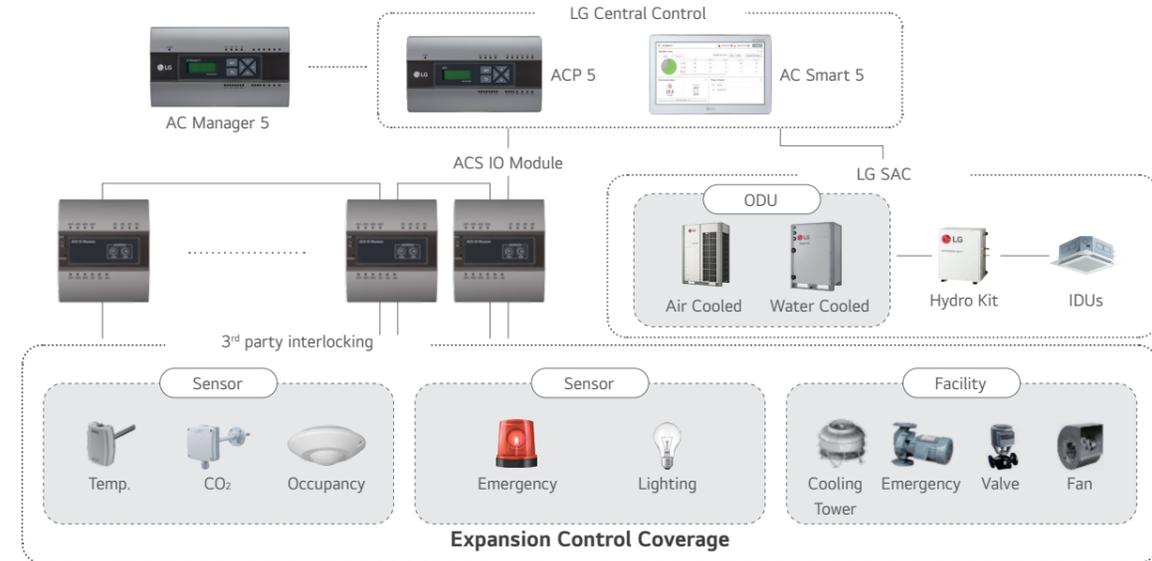
MODEL NAME	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 155 x 65	
Interfaceable Products	Air conditioner, ERV DX, Hydro kit, Thermal V	
Maximum Number of Power Meters	EHP : 8 Watt meter GHP : 4 Watt meter / 4 Gas meter	EHP : 2 Watt meter GHP : 1 Watt meter / 1 Gas meter
Maximum Number of Indoor Units	EHP : 128 GHP : 64	
Data Backup 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)

# ACS IO Module

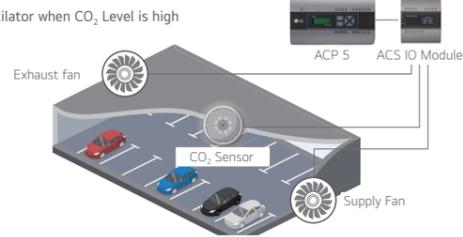


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output

### Case. 1

#### Parking Lot Ventilation

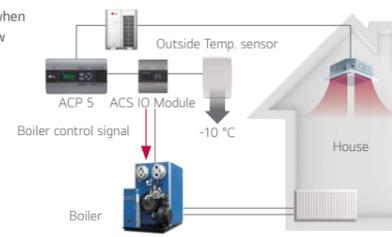
Turning on ventilator when CO<sub>2</sub> Level is high



### Case. 1

#### Auxiliary Heater

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



## PEXPMB000

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



### Features & Benefits

- Interlocking with 3<sup>rd</sup> party equipment, LG Central controller can make operation scenario with 3<sup>rd</sup> party equipment by ACS IO Module.
- Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : AC 24V (60Hz / 500mA)

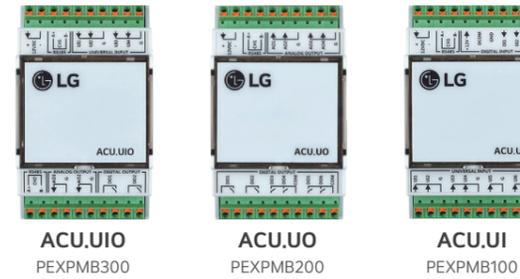
MODEL NAME		PEXPMB000	
Linkable Products		PACSSA000, PACPSA000	
Communication		RS-485	
		1 ch	
I / O	Digital Input	3 ports	
	Digital Output	3 ports	
	Universal Input <sup>1)</sup>	4 ports	
	Analog Output	4 ports	
VALUE SPEC		MIN.	MAX.
Analog Input	NTC 10k	0.68kΩ	177kΩ
	PT 1000	803Ω	1,573Ω
	Ni 1000	871.7Ω	1,675.2Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

※ ○ : Applied, - : Not Applied  
 1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.  
 Note : ACS IO & ACU IO are not a replacement for Direct Digital Controller(DDC) or PLC.

# ACU IO Module

## PEXPMB300, PEXPMB200, PEXPMB100

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



### Features & Benefits

- Interlocking with 3<sup>rd</sup> party equipment LG Central controller can make operation scenario with 3<sup>rd</sup> party equipment by ACU IO Module.
- Applicable devices are expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : 12VDC / 250mA (External Power)

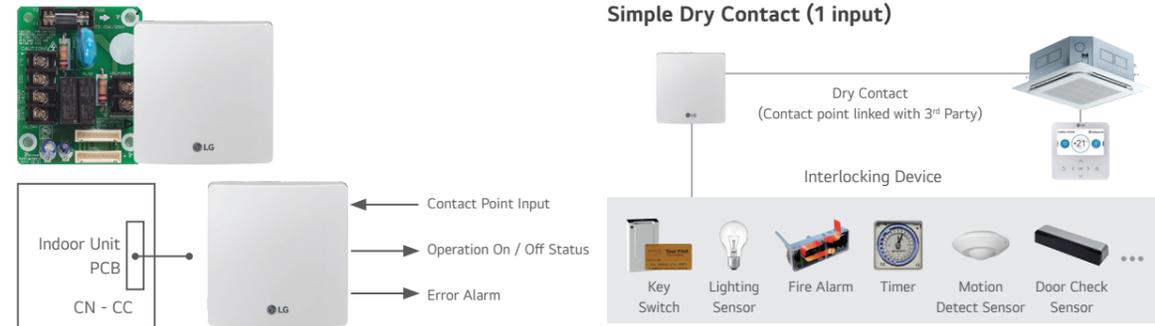
MODULE NAME	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PACSSA000, PACPSA000		
Communication RS-485	1 ch	1 ch	1 ch
Digital Input	-	-	3 ports
Digital Output	2 ports	6 ports	-
Universal Input <sup>1)</sup>	4 ports	-	6 ports
Analog Output	2 ports	4 ports	-

VALUE SPEC		MIN.	MAX.
Analog Input	DC (Voltage)	0V	10V
Analog Output	DC (Voltage)	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal Open	-	30VDC, 1A

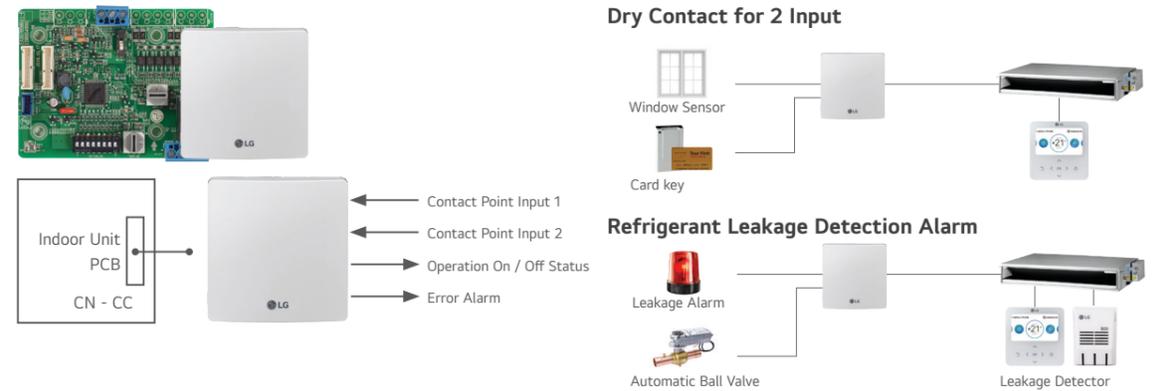
※ ○ : Applied, - : Not Applied  
 1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

# DRY CONTACT

## PDRYCB000



## PDRYCB400

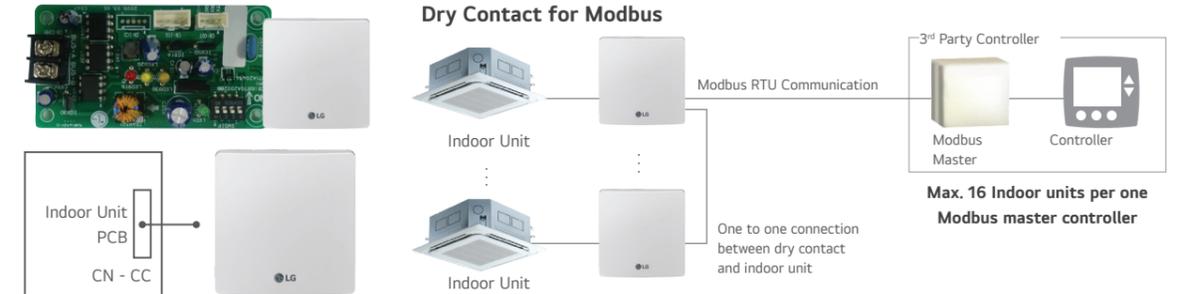


## PDRYCB320



※ Please contact our regional office to have full compatible room controller list.

## PDRYCB500 / PDRYCB510\*



※ Please contact our regional office to check the compatibility with 3rd party room controller.  
\*No case for PDRYCB510

### 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	-	-	○	-
	ERV	Operation Mode	-	-	○	-
		Silent Mode	-	-	○	-
Emergency Mode		-	-	○	-	
Output	On / Off	○	-	-	○	
	Operation Mode	-	-	-	○	
	Aircon Mode	-	-	-	○	
	Additional Mode	-	-	-	○	
	Fan Speed	-	-	-	○	
	Room Temp.	-	-	-	○	
Output	Operation Status	○	○	○	○	
	Error	○	○	○	○	

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

Note:  
1. 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

2. 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.  
3. (Select & Fix) : This function is preset by rotary switch.

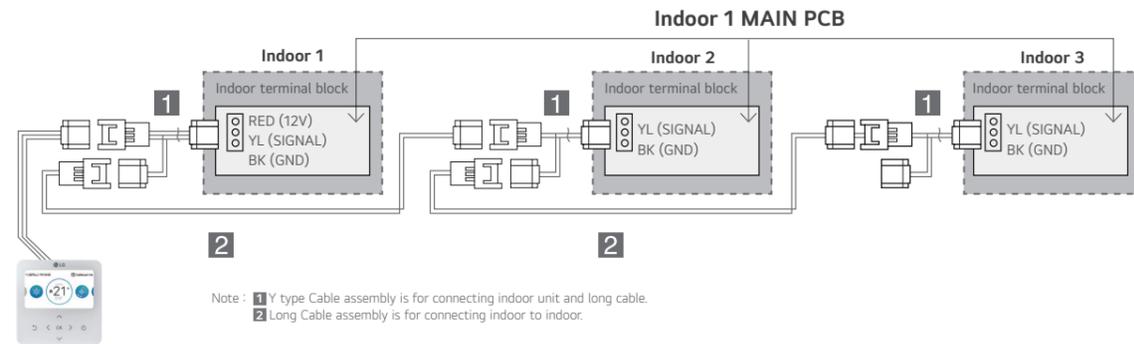
## Group Control Wire

PZCWRCG3



MODEL NAME	PZCWRCG3
1 Y-type Cable	0.25m Length
2 Long Cable	9.6m Length

### Installation Scene



## Zone Controller

ABZCA

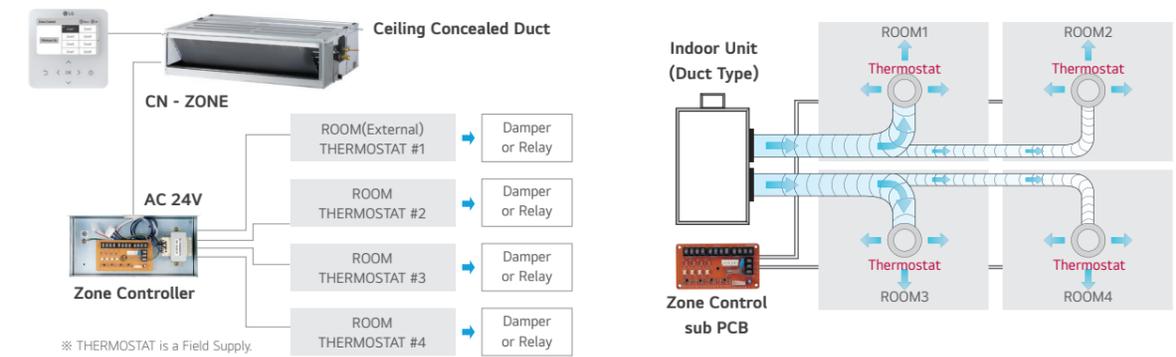
Controls air conditioning in up to 4 zones by external thermostat.



### Features & Benefits

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

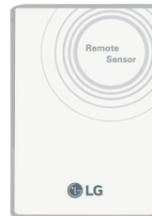
### Installation Scene



## Remote Temperature Sensor

PQRSTA0

Sensor for detecting a room's temperature.

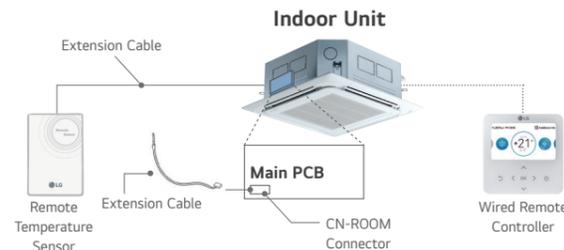


### Features & Benefits

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

### Installation Scene

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



## IO Module

PVDSMN000

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



### Features & Benefits

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

### Description

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

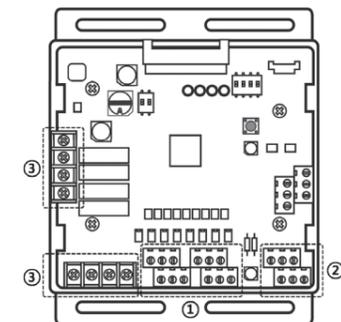
### Models Applied

- MULTI V IV, 5, *i*
- MULTI V WATER 5
- MULTI V S

Note : IO Module is not compatible for MULTI V III and MULTI V S R32.

### Part Description

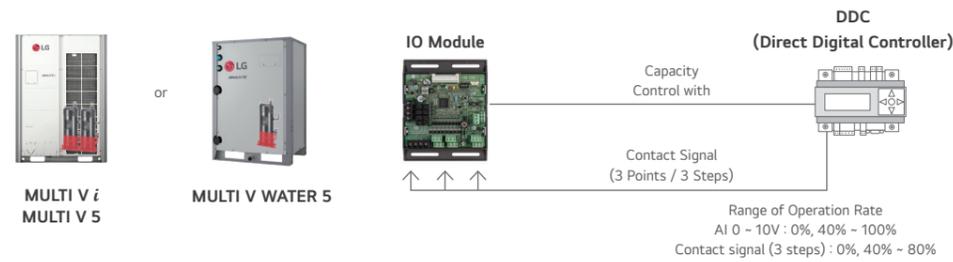
- 1) Digital Input Part (DI : Dry Contact Input)
  - Demand control by contact input (3 Step)
  - Low Noise Operation input
  - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
    - Open :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



# IO Module

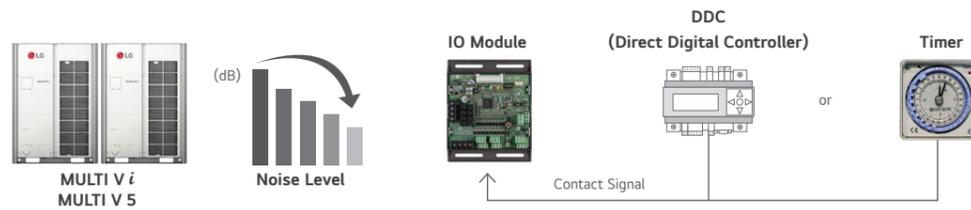
## ODU Capacity Control

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



## Low Noise Operation

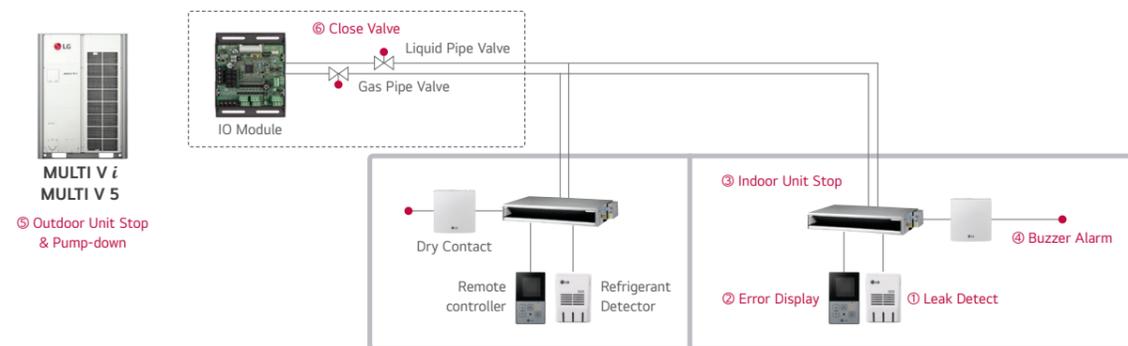
To reduce noise level, control outdoor unit's fan speed by dry contact input.



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

## Refrigerant Leakage Detection with Pump-down

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

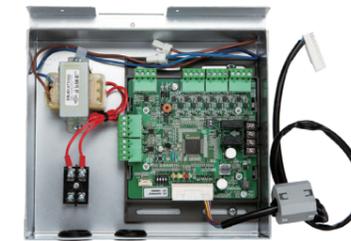


※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence which written in red, 1-6)

# Variable Water Flow Control Kit

## PWFCKN000 (MULTI V WATER 5)

Accessory for controlling the water flow.



### Features

#### Function

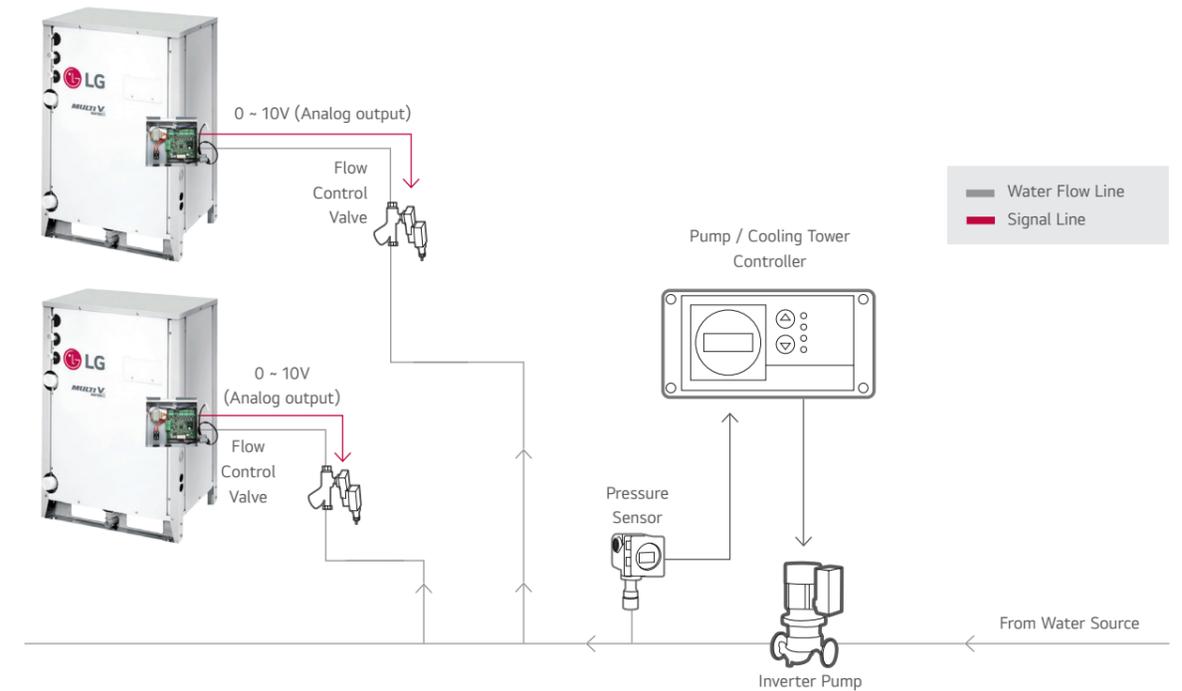
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

#### Description

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

## Installation Scene

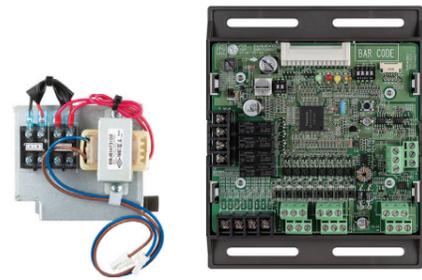
- Flow Control Valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube. (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
- Pressure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



# Low Ambient Kit

## PRVC2

External integration module for cooling operation with -25 °C low ambient temperature.



### Features

#### Function

- -25 °C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V)
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (AC 250V, Max. 1A)
- Output error status (AC 250V, Max. 1A)

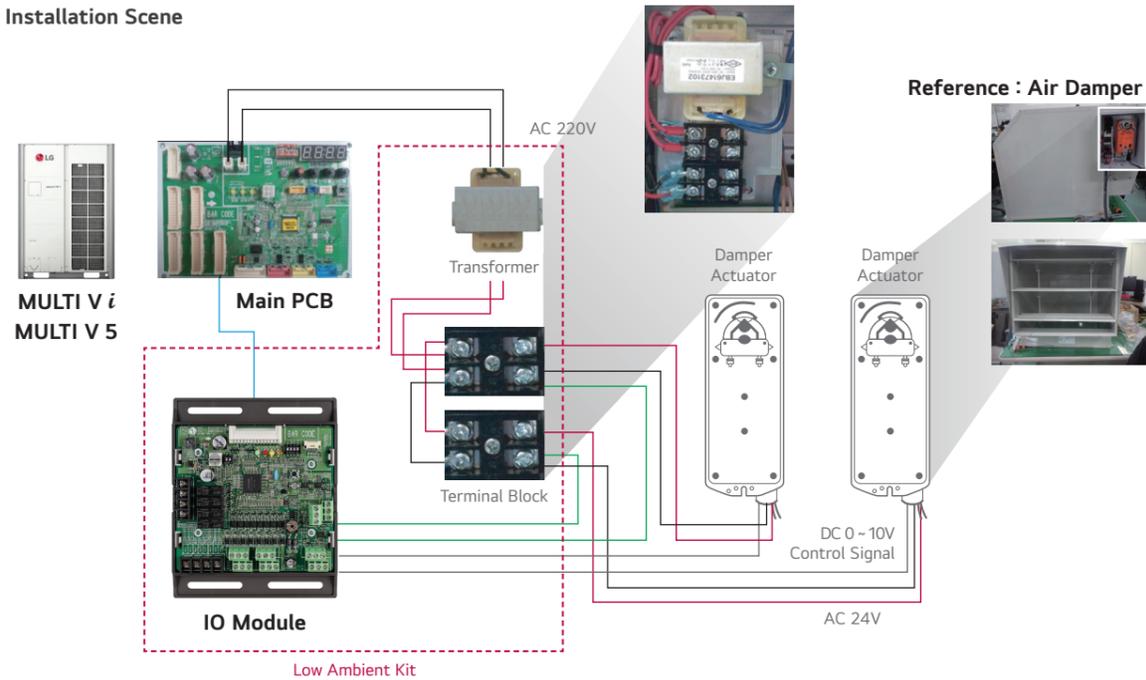
#### Description

- Low ambient kit supports -25 °C cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0 ~ 10V proportional to condensing pressure.
- Low ambient kit provides IO Module function.
- External snow hood and air damper are required for this item.
- Transformer and terminal block are included.

### Models Applied

- MULTI V i
- MULTI V 5

### Installation Scene



- Note
1. Damper Actuator can accept only AC 24V power input.
  2. Do not input DC power. Otherwise it will cause a serious damage.
  3. The IO Module can control maximum three actuators.
  4. Case of one valve, the slave signal connector must not use.
  5. The power (AC 24V) and signal (DC 0 ~ 10V) line is recommended by AWG22 (1/32 in, (0.644 mm), 0.016 Ω / ft (0.053 Ω / m)).

# Cool / Heat Selector

## PRDSBM

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



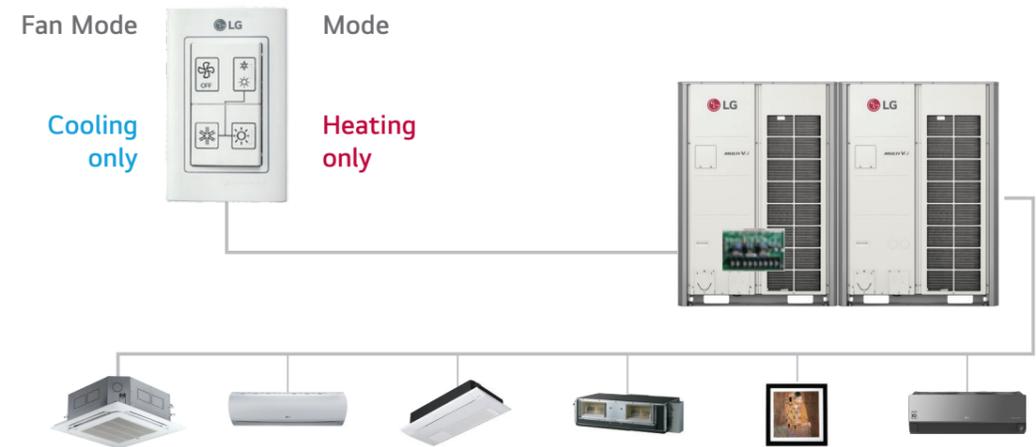
### Features

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

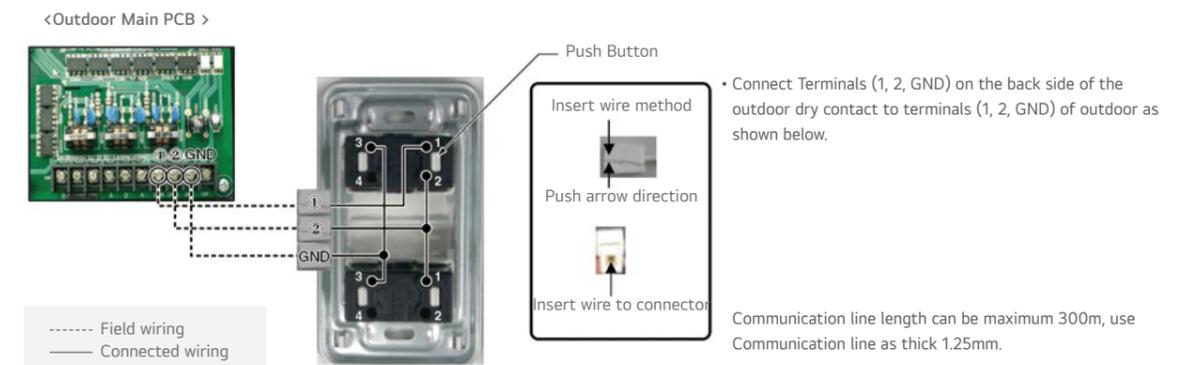
### Models Applied

- MULTI V i
- MULTI V 5
- MULTI V IV
- MULTI V WATER S
- MULTI V WATER II
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER 5
- MULTI V PLUS II, MULTI V PLUS

Note : Cool / Heat Selector is not compatible for Multi V S R32.



### Installation Scene



# AHU Kit

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

## COMMUNICATION KIT



PAHCMR000



PAHCMS000



PAHCNM000

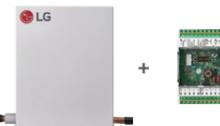


PRLK048A0  
PRLK096A0

## CONTROL KIT



PRLK396A0



PRLK594A0

## CONTROLLER MODULE



PAHCMM000



PAHCMC000

## EEV KIT

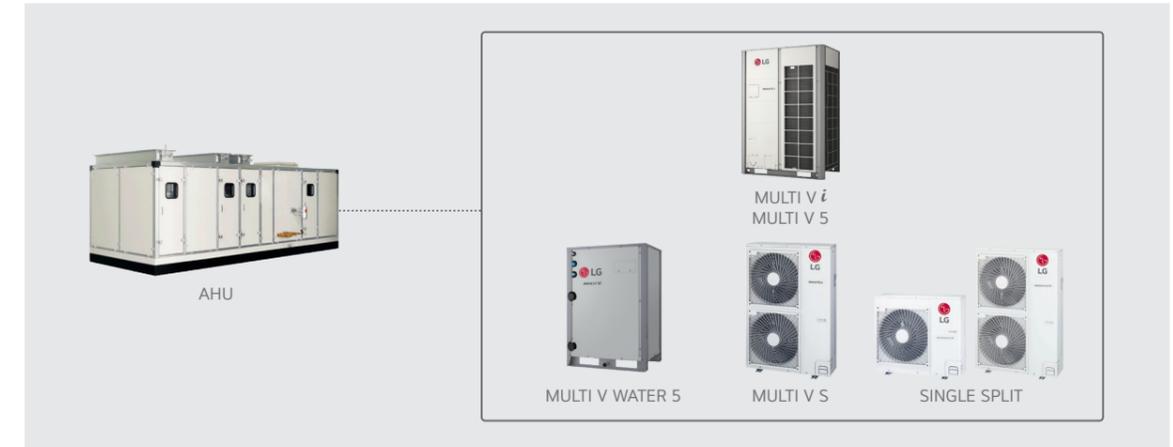
## Communication Kit

### High Energy Efficiency

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

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

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



## Specification

### Control Application Kit

TYPE	MODEL	DIMENSIONS (MM)			POWER SUPPLY	IP RATING	DESCRIPTION
		W	H	D			
Communication Kit	PAHCMR000	300	300	155	10, 220 ~ 240 V, 50 / 60 Hz	IP66	Return / Room air temperature control by DDC or LG individual / centralized controller.
	PAHCMS000	380	300	155	10, 220 ~ 240 V, 50 / 60 Hz	IP66	Discharge air / Supply air temperature control by DDC or LG individual / centralized controller
Controller Module	PAHCMM000	162	90	61	DC 12V	IP20	Main Controller module
	PAHCMC000	108	90	61	DC 12V	IP20	Communication Controller module
Control Kit	PAHCNM000	500	500	210	10, 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

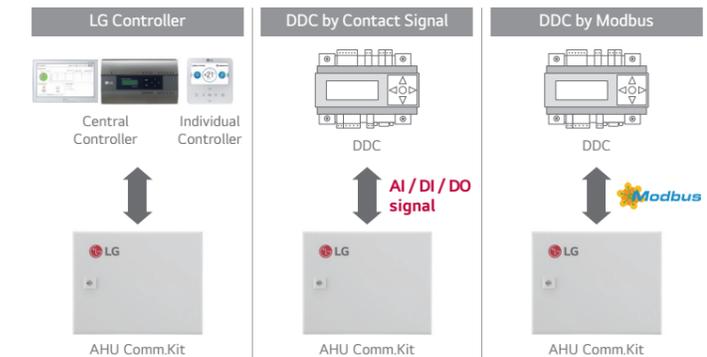
### Diverse Options for Control

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

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

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

1) DDC : Direct Digital Controller



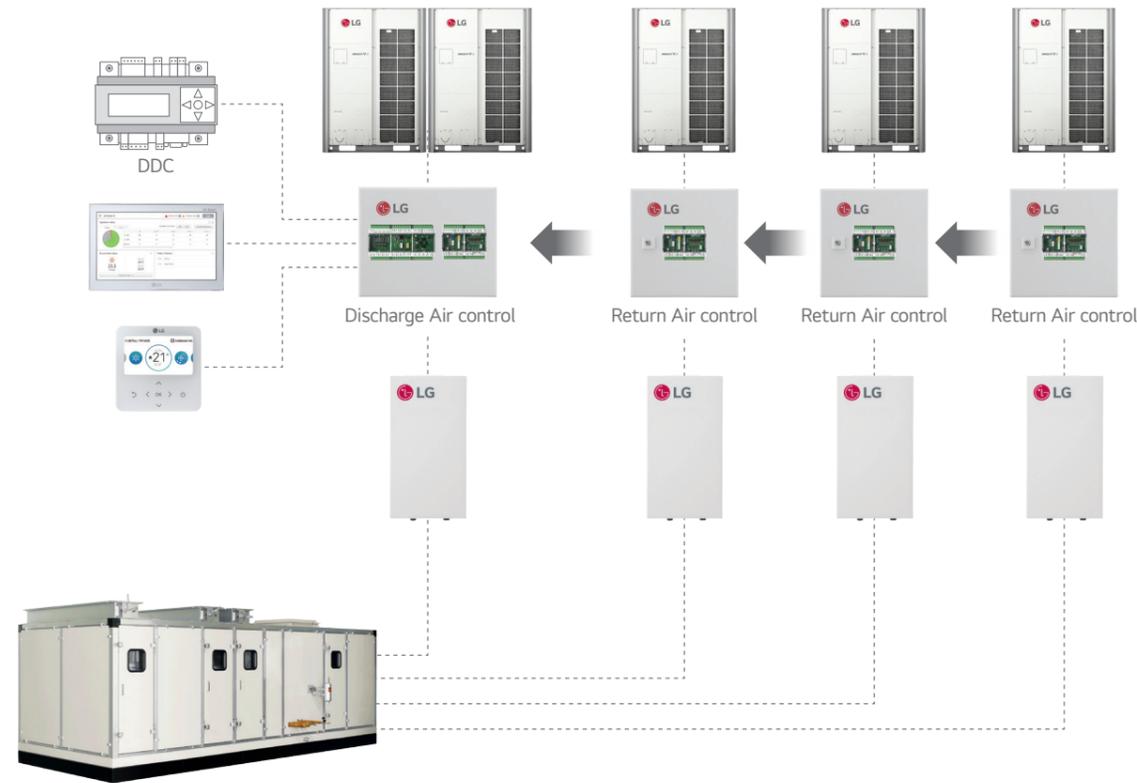
# AHU Kit

## Communication Kit

### Expandable System Design

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

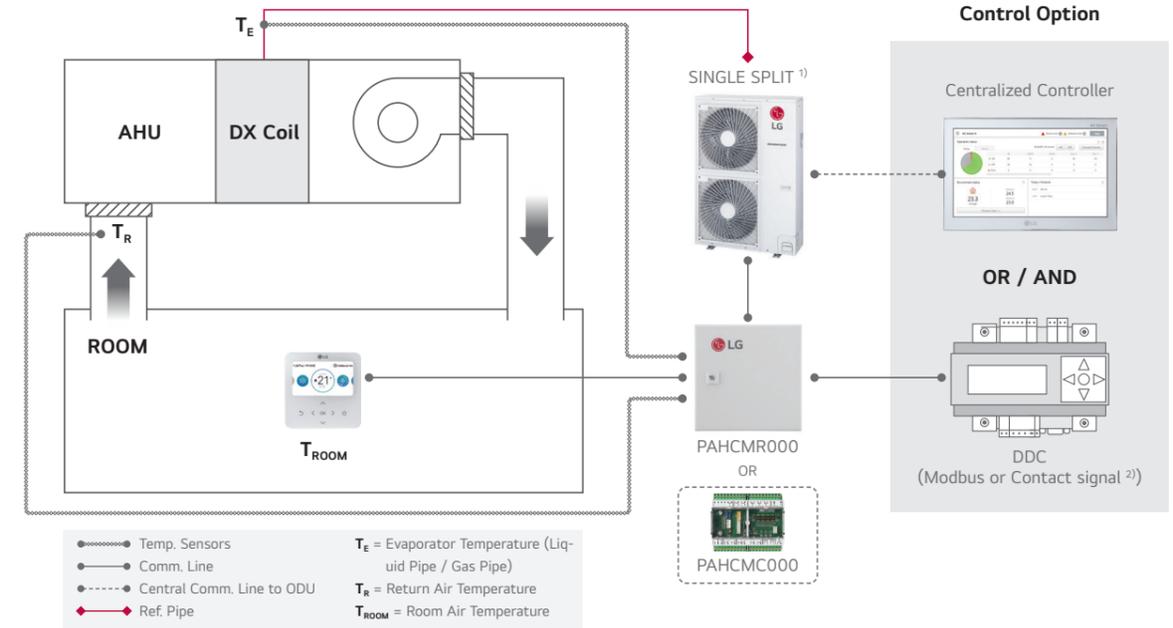
- Multiple module combination for large capacity AHU



## Communication Kit & Controller Module

### Single Split Application

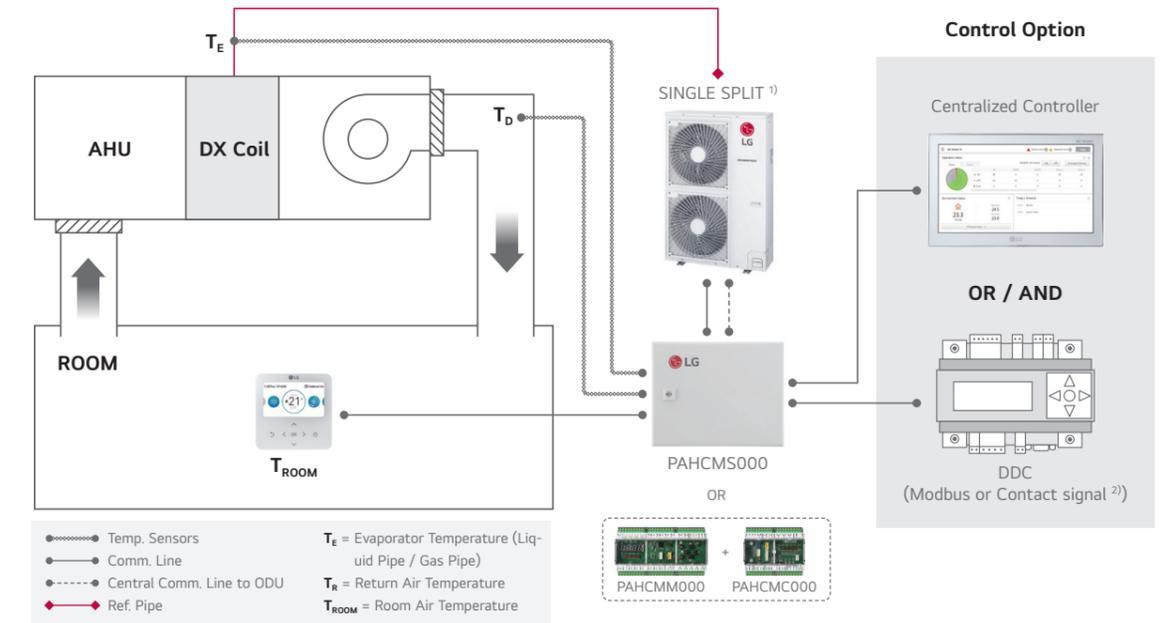
Single Split + Return / Room Air Temperature Control



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

### Single Split Application

Single Split + Discharge Air Temperature Control



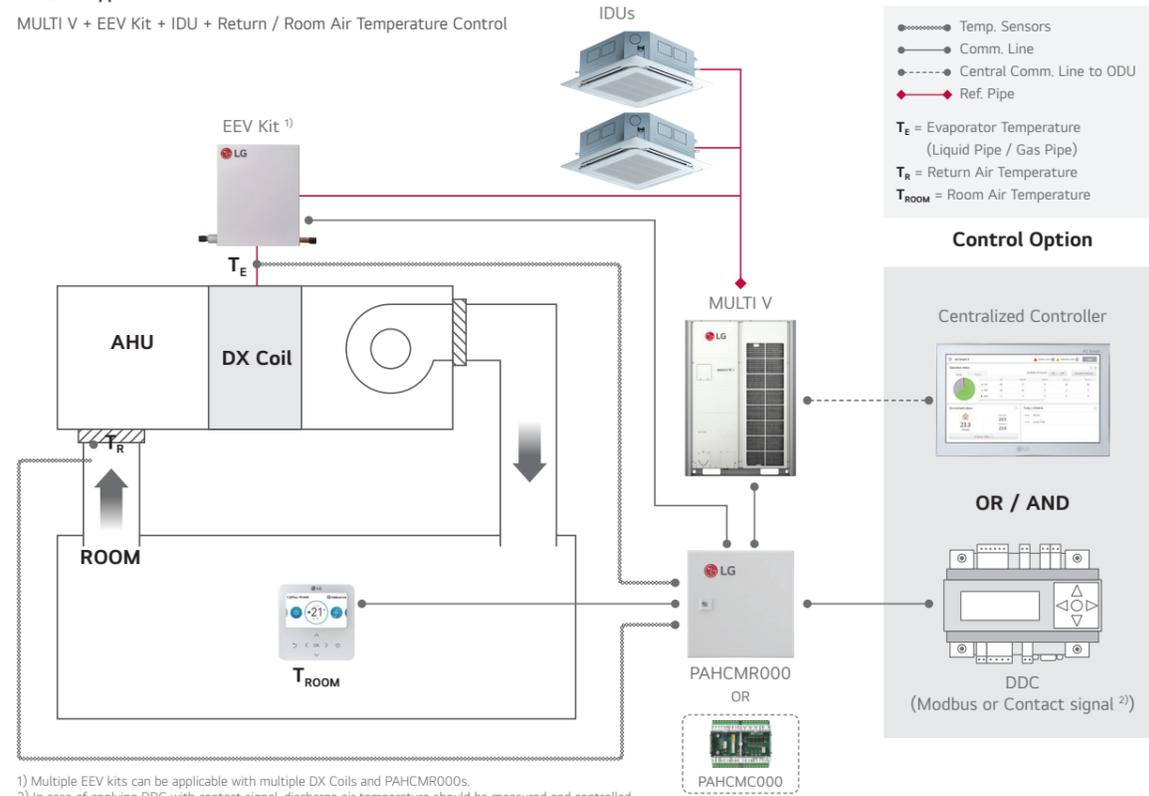
1) PI485 (PMNFP14A1) is required for centralized controller.  
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.  
 Note: For more detail, please refer to the PDB.

# AHU Kit

## Communication Kit & Controller Module

### MULTI V Application

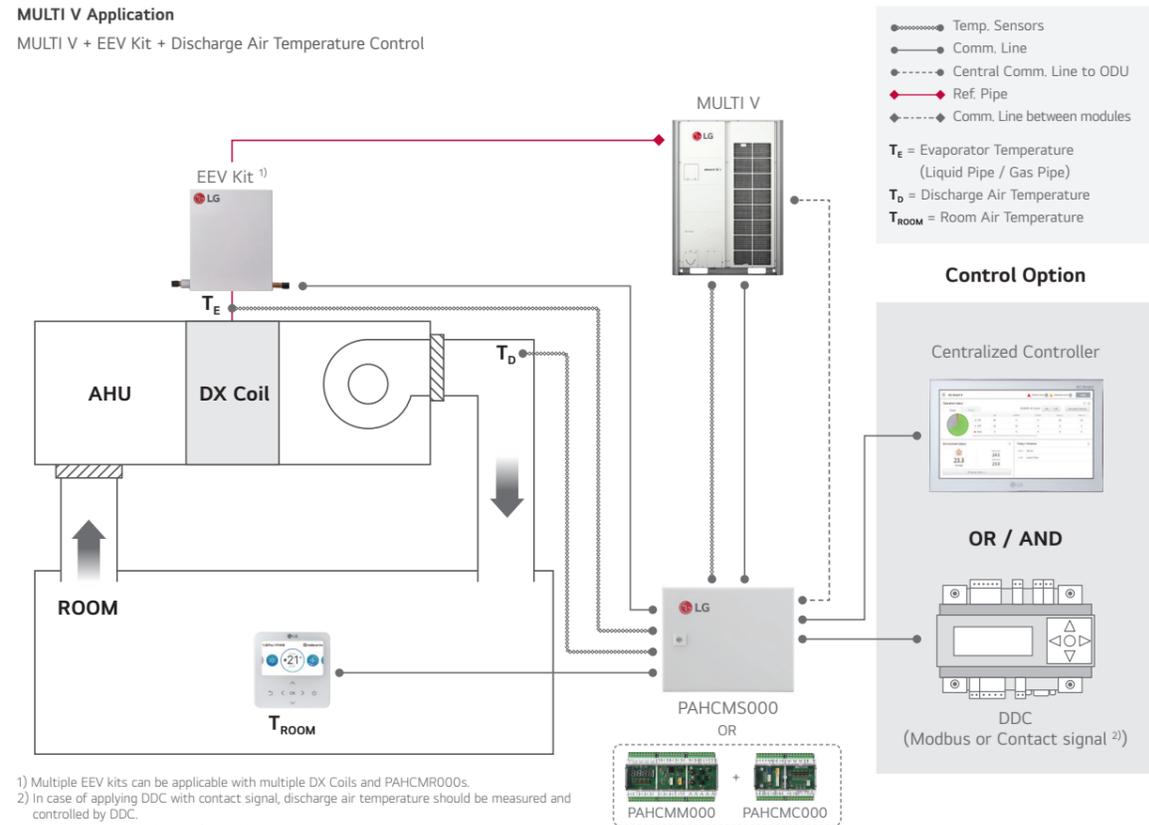
MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control



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

### MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control



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

## Communication Kit Function

### Communication with DDC via Contact Signal

FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHMS000 (PAHCM000 + PAHCMC000)	TYPE	NOTE
Operation On / Off	On / Off	On / Off	Digital Input (Non Voltage)	-
Operation Mode	Cooling / Heating	Cooling / Heating	Digital Input (Non Voltage)	Available operation mode can vary depending on the settings of Communication Kit
Return (Room) Air Temperature <sup>2)</sup>	16 ~ 30 °C	-	Analog Input (DC 0 ~ 10 V / 20mA)	-
Control <sup>1)</sup> Discharge Air Temperature <sup>2)</sup>	-	-	-	Discharge air temperature should be controlled directly by DDC using 'ODU Capacity Control'
Fan Speed <sup>3)</sup>	-	High / Middle / Low	Digital Input (Non Voltage)	-
Forced Thermal	On / Off	-	Digital Input (Non Voltage)	-
ODU Capacity	-	10 ~ 100%	Analog Input (DC 0 ~ 10 V / 20mA)	-
Emergency Stop	-	Stop / Normal	Digital Input (Non Voltage)	-
Operation	On / Off	On / Off	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PAHCMR000, dip sw1-3 DO Type should be set 'Off' (Status). In this case, 'fan speed' cannot be monitored by DO ports
Operation Mode	-	-	-	It needs to be checked through control signal
Fan Speed	High / Middle / Low	High / Middle / Low	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PAHCMR000, dip sw1-3 DO Type should be set 'On' (Fan Mode) In this case, 'On / Off, defrost, error Status' cannot be monitored by DO ports
Defrost Operation	Defrost / Normal	Defrost / Normal	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PAHCMR000, dip sw1-3 DO type should be set 'OFF' (Status). In this case, 'fan speed' cannot be monitored by DO ports
Error Alarm	Error / Normal	Error / Normal	Digital Output, Relay C contact (Max. : DC 30 V / 1 A, AC 250V / 1 A)	-
Compressor On / Off	-	On / Off	Digital Output, (Max. : DC 30 V / 1 A, AC 250V / 1 A)	-

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

### Communication with DDC via Modbus protocol

FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHMS000 (PAHCM000 + PAHCMC000)	NOTE
Operation On / Off	On / Off	On / Off	
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
Return (Room) Air Temperature	16 ~ 30 °C	-	
Control <sup>1)</sup> Discharge Air Temperature <sup>2)</sup>	-	○	Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C Standard III <sup>4)</sup> : 12 ~ 50 °C
Fan Speed <sup>3)</sup>	High / Middle / Low	-	
Forced Thermal On / Off	-	-	
ODU Capacity Control <sup>2)</sup>	-	10 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
Emergency Stop	-	-	
Operation	On / Off	On / Off	
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
Return (Room) Air Temperature	○	-	Corresponding air temperature sensor connected to AHU Comm.Kit is required
Discharge Air Temperature	-	○	
Fan Speed	High / Middle / Low	High / Middle / Low	
Defrost Operation	Defrost / Normal	Defrost / Normal	
Error Alarm	Error / Normal, Error code	Error / Normal, Error code	
Compressor On / Off	On / Off	On / Off	

※ ○ : Applied, - : Not Applied  
 1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.  
 2) In case of PAHMS000, control type between "Discharge Air Temperature" and "ODU Capacity Control" is selectable.  
 3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.  
 4) Standard III wired remote controller after version 2.10.5a.  
 Note : For the Modbus memory map and more detail information, please refer to the product data book.

# AHU Kit

## Communication Kit Function

With LG Control System (Individual & Centralized Controller)

FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	NOTE
Operation On / Off	On / Off	On / Off	-
Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	Available operation mode can vary depending on the settings of Communication Kit
Return (Room) Air Temperature <sup>2)</sup>	16 ~ 30 °C	-	-
Discharge Air Temperature <sup>2)</sup>	-	○	Standard II : 16 ~ 30 °C 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 differ 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
	DELUXE	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.	PREMTA201	PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001	PQCSZ250S0	PACEZA000	PACSSA000	PACPSA000	PACMSA000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○	○
PAHCMS000	-	-	○	-	-	-	○	○	○	-

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

## Outdoor Unit Compatibility

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

TYPE	MODEL	UUA1 (2.5 ~ 5.0 kW) <sup>1)</sup>	UUB1 (5.0 ~ 8.0 kW) <sup>1)</sup>	UUC1 (7.1 ~ 10.0 kW) <sup>1)</sup>	UUD1 / UUD3 (10.0 ~ 15.0 kW) <sup>1)</sup>
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	-	○	○	○
	PAHCMS000 (PAHCMM000 + PAHCMC000)	-	○	○	○
Control Kit	PAHCNM000	-	-	-	-

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

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

TYPE	MODEL	MULTI V					MULTI V WATER		
		i	5	IV	III	S	5	IV	II
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	○	○	○	○	○	○	○	○
	PAHCMS000 (PAHCMM000 + PAHCMC000)	○	○	○	○	○	○	○	○
Control Kit	PAHCNM000	○	○	○	○	○	○	○	○

## EEV Kit Compatibility

EEV KIT MODEL	CAPACITY INDEX (kW)		AHU APPLICATION KITS (MAXIMUM CONNECTABLE EEV KITS)			CONNECTION BY ODU SYSTEM		
	MIN.	MAX.	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	PAHCNM000	MULTI V		SINGLE SPLIT
					HEAT PUMP		HEAT RECOVERY	
PRLK048A0	3.6	28	○ (1)	○ (1)	○ (6)	○	○	-
PRLK096A0	28.1	56	○ (1)	○ (1)	○ (6)	○	○ (Max. 33.7 kW)	-
PRLK396A0	56.1	112	○ (1)	○ (1)	○ (6)	○	-	-
PRLK594A0	112.1	168	-	○ (1)	○ (3)	○	-	-

※ ○ : Applied, - : Not applied  
 Note 1. Table of the outdoor unit compatibility is based on European regional model.  
 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 change according to system design condition.

# AHU Kit

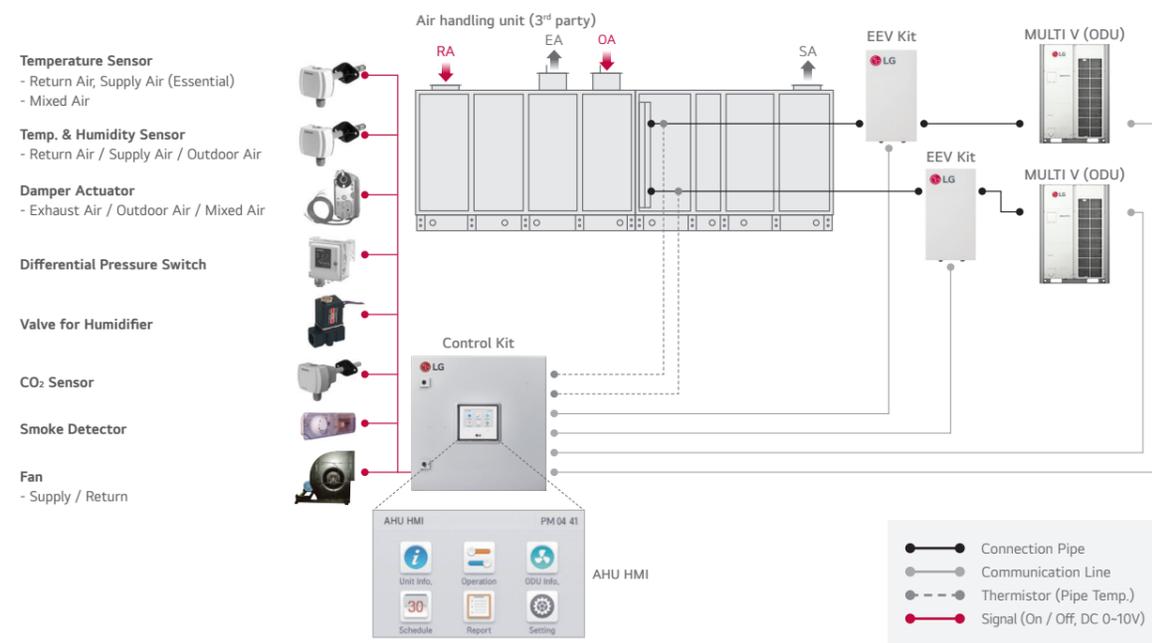
## Control Kit

### 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

#### Field Supplied Item



# Water Communication Module

## PAHCMW000

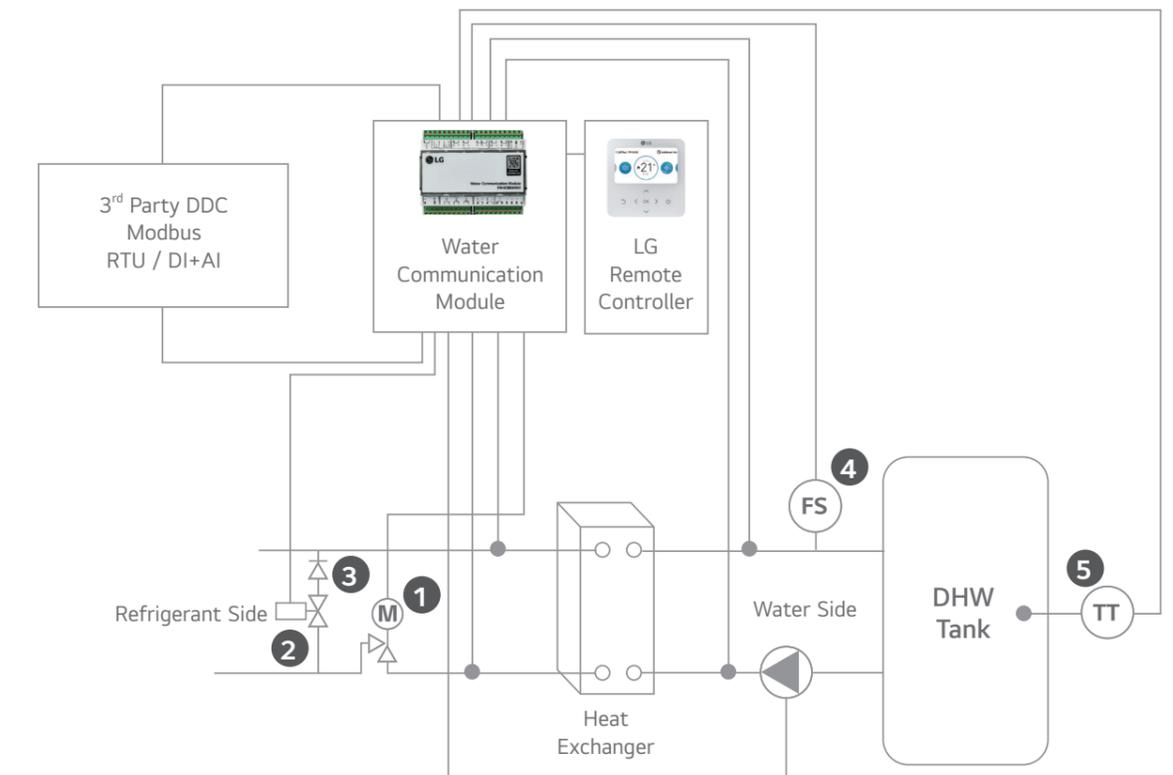
This module is intended to connect 3<sup>rd</sup> party plate heat exchangers to LG outdoor units with the ability to control water temperature from a 3<sup>rd</sup> party DDC or LG remote controller.



### Overview

Interlocking with 3<sup>rd</sup> parties can make various solutions with LG Multi V outdoor unit.

1. EEV
2. Solenoid Valve (NC)
3. Non-Return Valve
4. FS : Flow Switch
5. TT : DHW Temperature Transmitter



• 3<sup>rd</sup> party solenoid, non-return valve, heat exchanger, flow switch and DHW temperature transmitter (Optional) must be purchased separately. (Field supplied items)

# Water Communication Module

## Features & Benefits

Interlocking with 3<sup>rd</sup> parties can make various solutions with LG MULTI V outdoor unit.

### Interlocking with 3<sup>rd</sup> Party Equipment

CONTENTS	CONNECTION PORT		FUNCTION
RS485	CH1 (A+ / B-)	Module Comm. Port	Communication Port Modbus
	CH2 (A+ / B-)	IDU Comm. Port	Communication with Multi V Outdoor
UNIVERSAL INPUT (Cooling / Heating Setting)	UI1	Flow Switch	Flow Switch Input by 3rd party
	UI2	0 ~ 10V Set Temp.	Target Temp. Setting
	UI3	Cooling Thermostat Signal	Thermostat Cooling Signal
	UI4	Heating Thermostat Signal	Thermostat Heating Signal
UNIVERSAL INPUT (DHW Only)	UI1	Flow Switch	Flow Switch Input by 3rd party
	UI2	0-10V Set Temp.	Target Temp. Setting
	UI3	DHW Temperature Transmitter 0 ~ 10V	Measured Water Temp. Input by 3rd party 0 ~ 10 V sensor
	UI4	DHW Thermostat Signal	DHW Heating Signal
NTC	RI1	Water Inlet Sensor	PHEX Water Inlet Sensor
	RI2	Water Outlet Sensor	PHEX Water Outlet Sensor
REMO	+12V / SIG / GND	LG Remote Controller	-
SINGLE	Reserved	-	-
DIGITAL OUTPUT	DO1	Defrost / Mode	Output for defrost signal and / or cool mode
	DO2	Pump	Output signal for pump on / off
	DO3	Bypass	Output signal for PHEX Bypass Valve
NTC	RI3	Thermistor Pipe In	PHEX Ref. Inlet Pipe Sensor
	RI4	Thermistor Pipe Out	PHEX Ref. Outlet Pipe Sensor
EEV	+12V / 1 / 2 / 3 / 4	Expansion Valve	EEV Control

## Compatibility & Accessory

### EEV (LG MODEL)

MODEL	CAPACITY (KW)		PAHCMW000
	MIN.	MAX.	
PAEEVC000	3.6	28	HP / HR
PRLK048A0	3.6	28	HP / HR
PRLK096A0	28.1	56	HP

Note :  
Water communication module can accept plate heat exchangers from 3, 6 to 112 kW for combination with Multi V Outdoor units.

### LG Controllers

CONTROLLER	INDIVIDUAL CONTROLLER	CENTRALIZED CONTROLLER		DRY CONTACT
	HEATING STANDARD III	AC EZ TOUCH	AC SMART 5	
	PREMTW101	PACEZA000	PACSSA000	PDRYCB000

## Specification for field supply item

- The 3<sup>rd</sup> party can select the for best usable version

### Solenoid valve for Bypass

CAPACITY (KW)		EEV TYPE	SYSTEM	KV VALUE OF SOLENOID AND NON-RETURN VALVE	PIPE SIZE
MIN.	MAX.				
3.6	28	PAEEVC000	HP / HR	0.95	3 / 8" / 9.52mm
		PRLK048A0			
28	56	PRLK096A0	HP	1.9	1 / 2" / 12.7mm

### Flow switch

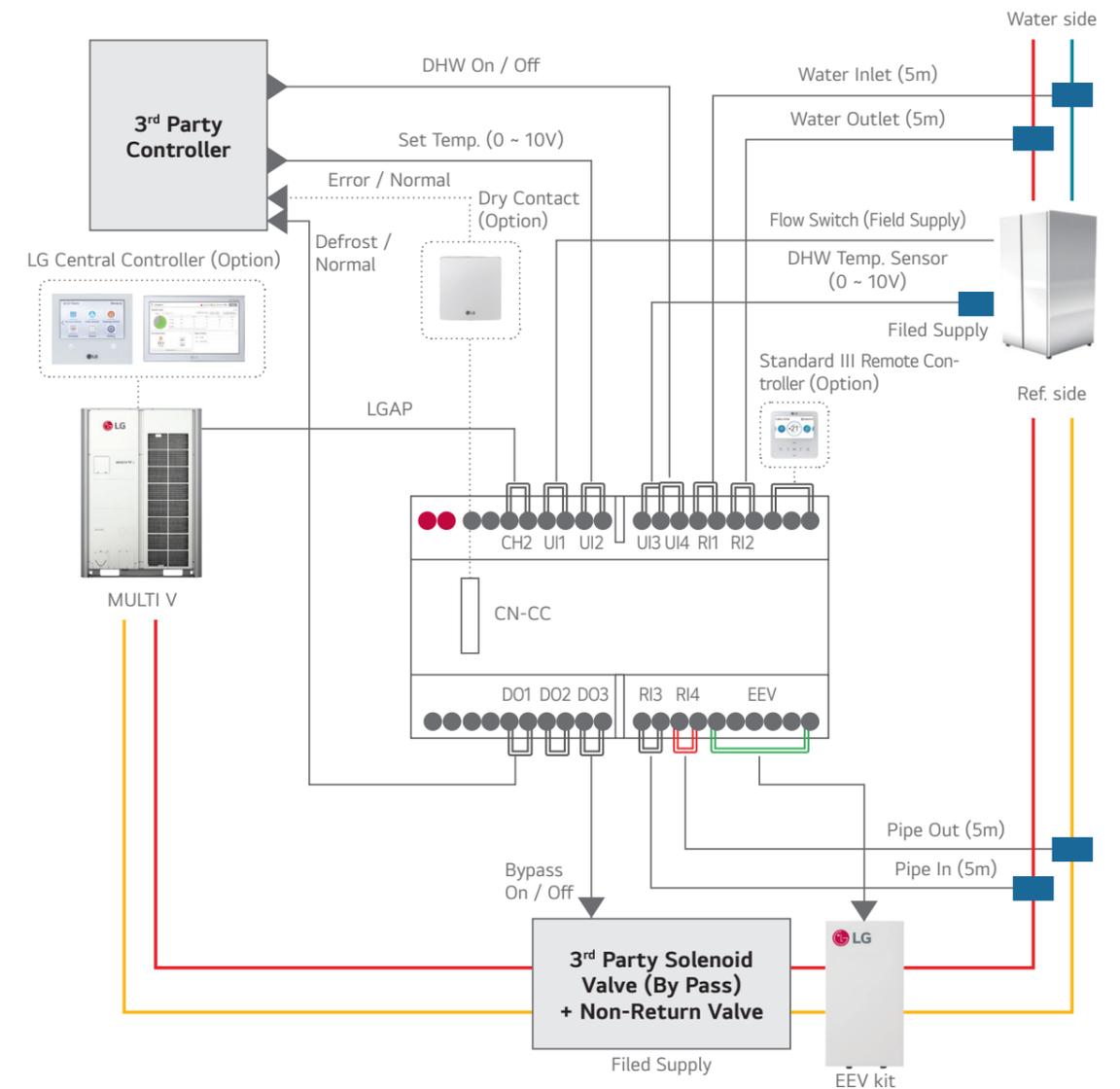
- The nominal flow and cut of flow can be calculated using the values below.

CONTROLLER	NOMINAL FLOW	FLOW SWITCH CUT OFF
L / min*kW	3.29	1.23

\* Example : ODU nominal Cooling Capacity 28 kW, 28 x 3.29 = 92.12 L / min, nominal flow, 28 x 1.23 = 34.44 L / min, flow switch cut off

## Installation Scene with Contact Connection

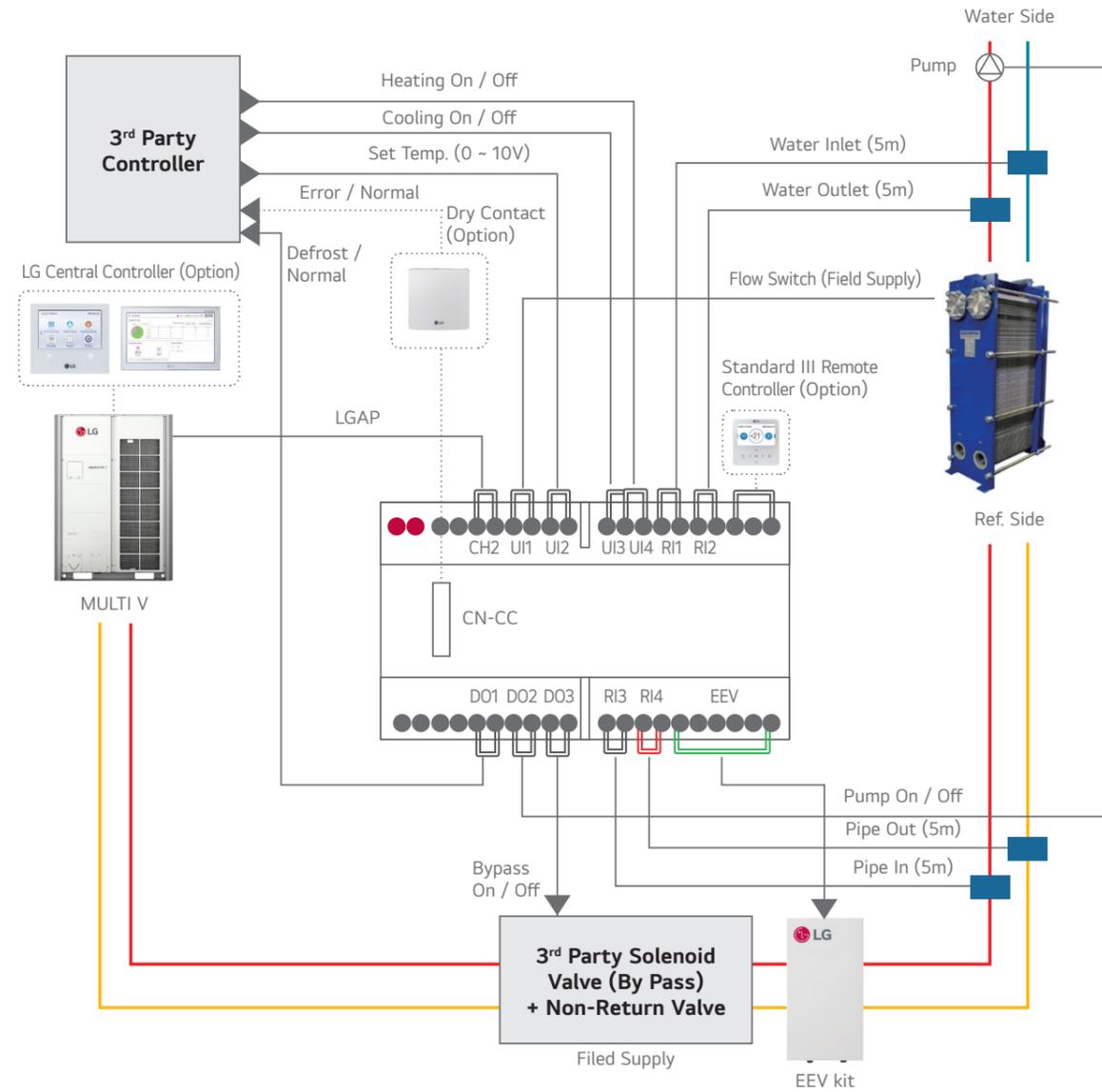
Contact signal + DHW Only Setting



# Water Communication Module

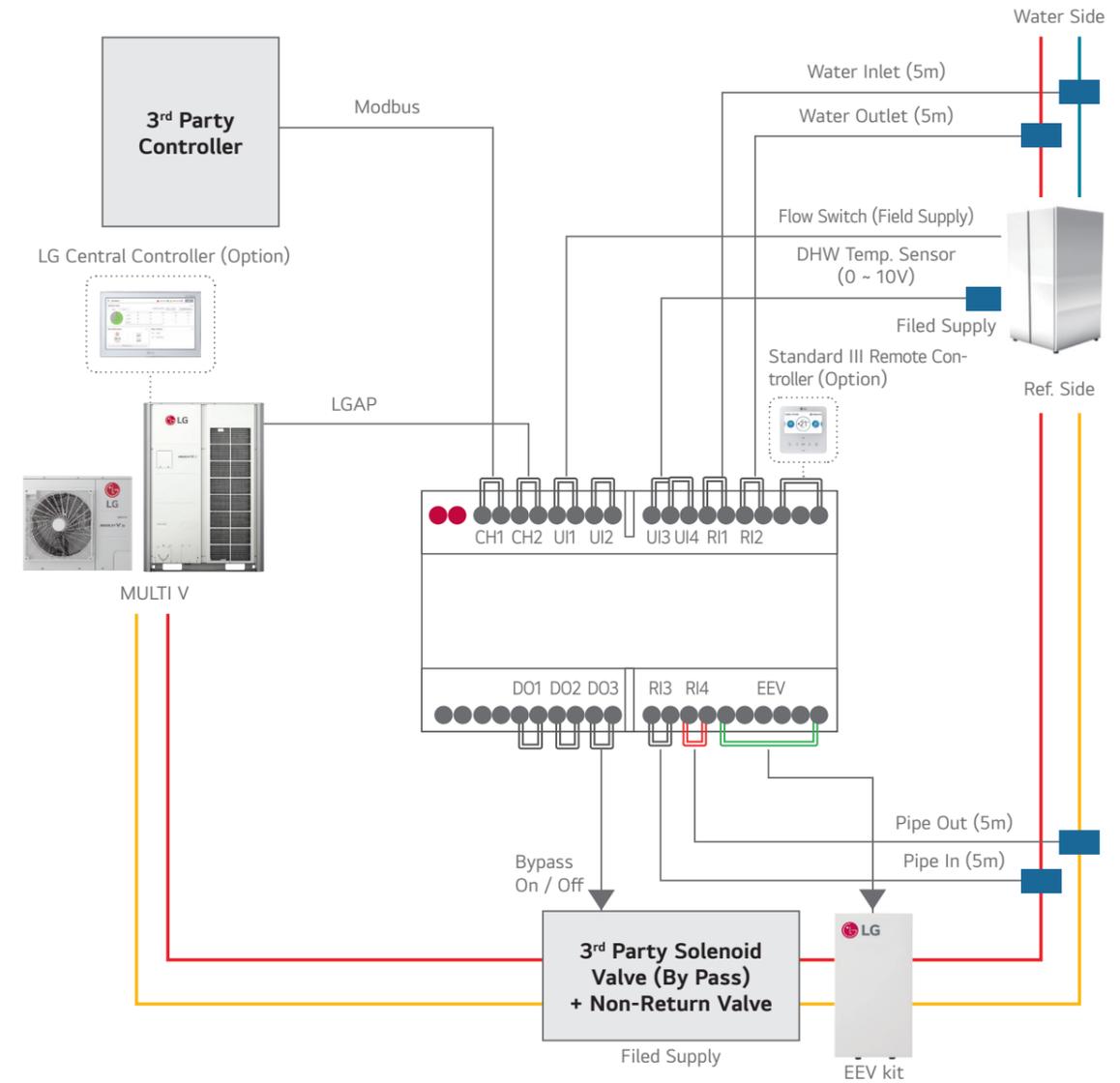
## Installation Scene with Contact Connection

Contact signal + Heating / Cooling Setting



## Installation Scene with Modbus / LG Control (Optional) Connection

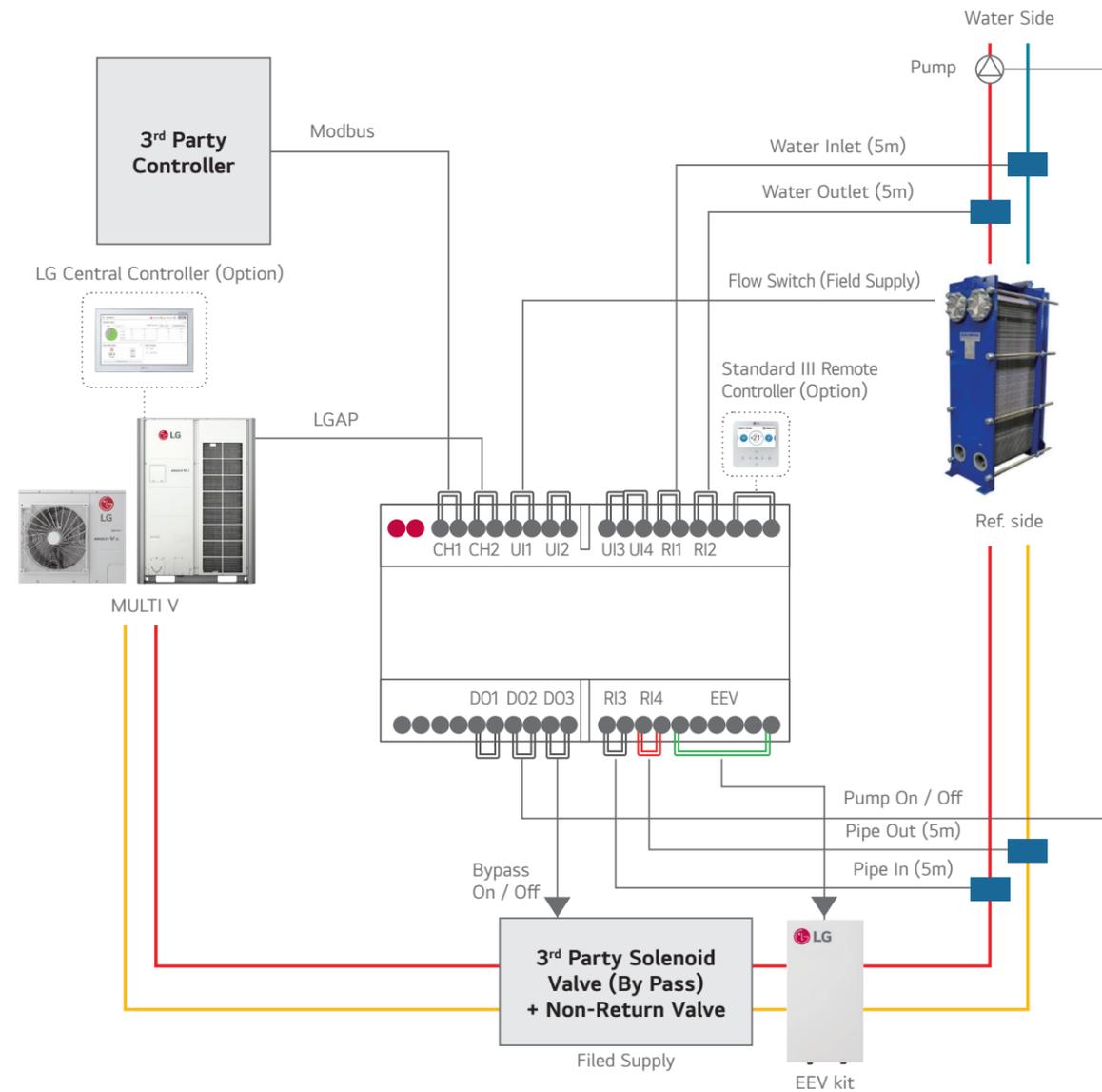
Modbus + DHW Only Setting



# Water Communication Module

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + Heating / Cooling Setting



# Hotel Control Solution



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

---

Integrated control of air conditioner with the hotel room controller

---

Air conditioner can be controlled with existing hotel thermostat

---

Prioritizes guest safety with refrigerant leak detection

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

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

# Shopping Mall Control Solution



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

---

Real-time system issue detection and alarms

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

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

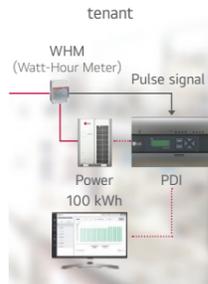
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Chiller and VRF integrated control

## Design Proposal

GUEST ROOM				LOBBY
The air conditioner automatically turns off when guests leave	Integrated control of air conditioner with the hotel room controller	Control with existing hotel thermostat	Guest safety is the first priority	Air conditioner control in conjunction with check-in or check out
				
<b>PDRYCB400</b> 2 contact point	<b>PDRYCB500 / PDRYCB510</b> (w/o case)	<b>PDRYCB320</b> 8 contact point	<b>PLDRNV1S</b> R32 Refrigerant leak detector • 5,000ppm <b>PRLDNV50</b> Refrigerant leak detector • 6,000ppm	<b>PAC5A000</b> AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)
<b>Input</b> • Operation On / Off	<b>Function</b> • Operation • Indoor temperature • Error alarm • Set run mode • Set temperature • Set fan speed	<b>Input</b> • Universal Input • Operation On / Off • Thermo On / Off • Operation mode (Fan / Heat / Cool) • Fan speed (Low / Middle / High)	 <b>PREMTB101</b> Wired remote controller	 <b>PAC5A000</b> ACP 5 • BMS Integration (BACnet IP, Modbus TCP)
<b>Output</b> • Operation On / Off status • Error alarm		<b>Output</b> • Operation On / Off status • Error alarm		

## Design Proposal

RETAIL	MAINTENANCE OFFICE	ATRIUM	
Proportionally distribute and manage power consumption by the tenant	Fast problem detection and alarms	Integrated management of AHU applied to large spaces	Chiller and VRF integrated control
			
<b>PPWRDB000</b> PDI Standard (2 ports) • Max. 128 IDU	<b>PAC5A000</b> AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	<b>PAHCMR000</b> AHU Comm.Kit • Return air	<b>PAC5A000</b> ACP 5 <b>PACS5A000</b> AC Smart 5
 <b>PQNUD1S40</b> PDI Premium (8 ports) • Max. 128 IDU	 <b>PAC5A000</b> ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	 <b>PAHCMR000</b> AHU Comm.Kit • Discharge air	

# Hospital Control Solution

**Hospital Ward**  
Proper airflow management for patients

---

Monitor the comfort level for each hospital ward

---

Control fan speed and air volume

**Service Zone**  
Energy savings based on flexible scheduling

**Lobby**  
Centralized management of AHU for large spaces

# Academic Institution Control Solution

**Classroom**  
Automatically save energy in the absence of students

---

Central controls prevent students from arbitrary control

**Lecture Hall**  
Schedule management according to academic plan

**Maintenance Office**  
Integrated management of distributed buildings

---

Centralized management with multiple interfaces

## Design Proposal

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
<b>PTVSM A0</b> Human detection sensor	<b>PACS5A000</b> AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	<b>PDRYCB400</b> 2 contact point <b>Input</b> • Operation On / Off <b>Output</b> • Operation On / Off status • Error alarm	<b>PACS5A000</b> AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	<b>PAHCMR000</b> AHU Comm.Kit • Return air
<b>PREMTB101</b> Wired remote controller • 4.3 inch color LCD • Touch button	<b>PACP5A000</b> ACP 5 • BMS Integration (BACnet IP, Modbus TCP)		<b>PACP5A000</b> ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	<b>PAHCM S000</b> AHU Comm.Kit • Discharge air

## Design Proposal

CLASS ROOM		LECTURE HALL	MAINTENANCE OFFICE	
Automatically save energy in the absence of students	Central controls prevent students from arbitrary control	Schedule management according to academic plan	Integrated management of distributed buildings	Centralized management with multiple interfaces
<b>PTVSM A0</b> Human detection sensor		<b>PACS5A000</b> AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	<b>PACM5A000</b> AC Manager 5	
<b>PREMTB101</b> Wired remote controller • 4.3 inch color LCD • Touch button		<b>PACP5A000</b> ACP 5 • BMS Integration (BACnet IP, Modbus TCP)		

# Office Control Solution

**Maintenance Office**  
Energy savings and management throughout the building

---

Integrated management of HVAC with BMS system

---

Reduce costs by replacing BMS

**Office Room**  
Reasonable power distribution to tenants

---

**Server Room**  
24-hour backup management

---

**Meeting Room**  
Energy savings based on occupancy detection

# Residential Control Solution

**Home**  
Anytime, anywhere air conditioner control and access

---

Integrated systems for smart connectivity throughout

---

**Bedroom**  
Use a familiar residential thermostat

---

Simple interlocking control by remote control

---

**Apartment / Residence**  
Stable system operation

## Design Proposal

MAINTENANCE OFFICE	OFFICE ROOM	SERVER ROOM	MEETING ROOM
Energy savings and management throughout the building	Reasonable power distribution to tenants	Main equipment 24 hours back up management	Energy savings based on occupancy detection
<p>BMS Protocol</p> <p>BMS System</p>			
<p>PACS5A000</p> <p>AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PPWRDB000</p> <p>PDI Standard (2 ports)</p> <p>• Max. 128 IDU</p>	<p>PACS5A000</p> <p>AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PTVSM00</p> <p>Human detection sensor</p>
<p>PACP5A000</p> <p>ACP 5</p>	<p>PQNUD1S40</p> <p>PDI Premium (8 ports)</p> <p>• Max. 128 IDU</p>	<p>PACP5A000</p> <p>ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PREMTB101</p> <p>Wired remote controller</p> <p>• 4.3 inch color LCD</p> <p>• Touch button</p>
<p>PACP5A000</p> <p>ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PEXPMB000</p> <p>ACS IO Module</p>	<p>PAC5A000</p> <p>ACP 5</p>	<p>PREMTB101</p> <p>Wired remote controller</p> <p>• 4.3 inch color LCD</p> <p>• Touch button</p>
<p>PAC5A000</p> <p>ACP 5</p>	<p>PEXPMB300</p> <p>PEXPMB200</p> <p>PEXPMB100</p> <p>ACU IO Module</p>	<p>PAC5A000</p> <p>ACP 5</p>	<p>PREMTB101</p> <p>Wired remote controller</p> <p>• 4.3 inch color LCD</p> <p>• Touch button</p>
<p>PAC5A000</p> <p>ACP 5</p>	<p>PMBUS00A</p> <p>Modbus RTU gateway</p>	<p>PAC5A000</p> <p>ACP 5</p>	<p>PREMTB101</p> <p>Wired remote controller</p> <p>• 4.3 inch color LCD</p> <p>• Touch button</p>

## Design Proposal

HOME	BED ROOM	APARTMENT
Control your home air conditioner anytime, anywhere	Use a familiar residential thermostat	Stable system operation when indoor unit power is lost
<p>PWFMD200</p> <p>Wi-Fi modem</p>	<p>PDRYCB320</p> <p>8 contact point</p>	<p>PINPMB001</p> <p>Multi-tenant Power Module</p> <p>• EEV full close function</p>
<p>Function</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>Function</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>Input</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>Output</p> <ul style="list-style-type: none"> <li>• Operation On / Off status</li> <li>• Error alarm</li> </ul>
<p>PDRYCB500</p> <p>Modbus RTU (9,600bps)</p>	<p>PREMTB101</p> <p>Wired remote controller</p> <p>• 4.3 inch color LCD</p> <p>• Touch button</p>	<p>PINPMB001</p> <p>Multi-tenant Power Module</p> <p>• EEV full close function</p>

330 ~ 355

# ACCESSORIES

MECHANICAL ACCESSORIES

PIPING ACCESSORIES



## Cassette Panel

The independent vane operation ensures comfortable air flow.



### Model Name & Applied Products

**4 Way Cassette (Mini, 570x570)**  
PT-QAGW0

**2 Way Cassette**  
PT-USC

**1 Way Cassette (Grill Type)**  
PT-UAHGO / PT-TAHGO (Glossy)  
PT-UAHW0 / PT-TAHW0 (Non-Glossy)

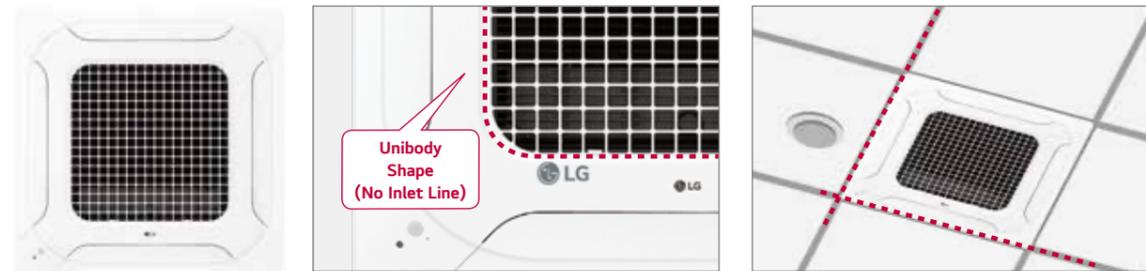
**1 Way Cassette (Air Purification)**  
PT-UPHGO / PT-TPHGO (Glossy)

### Key Features

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

### Compact and Stylish Design

- Mini 4 way cassette panel adapted unibody shape and matching with the ceiling.
- Panel size fits the ceiling tile.



### Specification

Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied Model Capacity (kW)*					
					W	H	D	Single Split		Multi Split		Multi V	
								R32	R410A	R32	R410A	R32	R410A
4 Way	PT-QAGW0	White (RAL 9003)	X	2.9	620	35	620	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
2 Way	PT-USC	Morning Fog (RAL 9001)	X	4.7	1,100	28	690					2.8-7.1	2.8-7.1
1 Way	PT-UAHGO	White (RAL 9003)	O	3.9	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-TAHGO	White (RAL 9003)	O	4.8	1,480	34	500					5.6-7.1	5.6-7.1
	PT-UAHW0	White (RAL 9003)	X	3.3	1,100	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-TAHW0	White (RAL 9003)	X	4.5	1,420	34	500					5.6-7.1	5.6-7.1
	PT-UPHGO	White (RAL 9003)	O	4.1	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-TPHGO	White (RAL 9003)	O	4.9	1,480	34	500					5.6-7.1	5.6-7.1

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

## Dual Vane Cassette Panel



**Model Name**  
PT-AAGW0  
PT-AFGW0

### Key Features

Model	Function				
	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Human Detection Sensor
PT-AAGW0	O	Optional	Optional	X	Optional
PT-AFGW0	O	Optional	Optional	Optional (Dust Sensor, Tact Switch)	Optional

### Specification

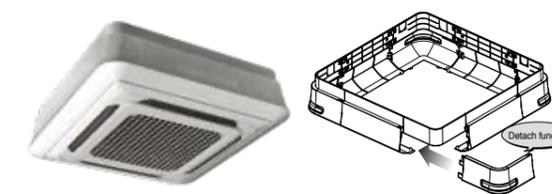
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950

## Air Purification Kit

Model	Type	Image	Model name	Dielectric Dust collecting filter	Photocatalytic Deodorizing filter	HVPS	Ionizer
Air Purification Kit	4 Way		PTAHMP0	O	O	O	O
	1 Way		PTAHTP0	O	O	O	O
	Round		PTAHYP0	O	O	O	X

## Cassette Cover

Cover in case of exposed cassette installation.



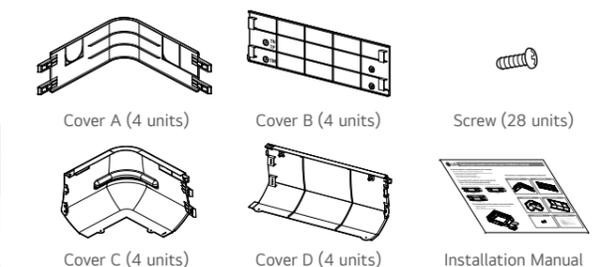
**Model Name**  
PTDCA

### Applied Products

4 Way Cassette (for chassis TP-B, TM-A)

### Included Parts

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



### Key Features

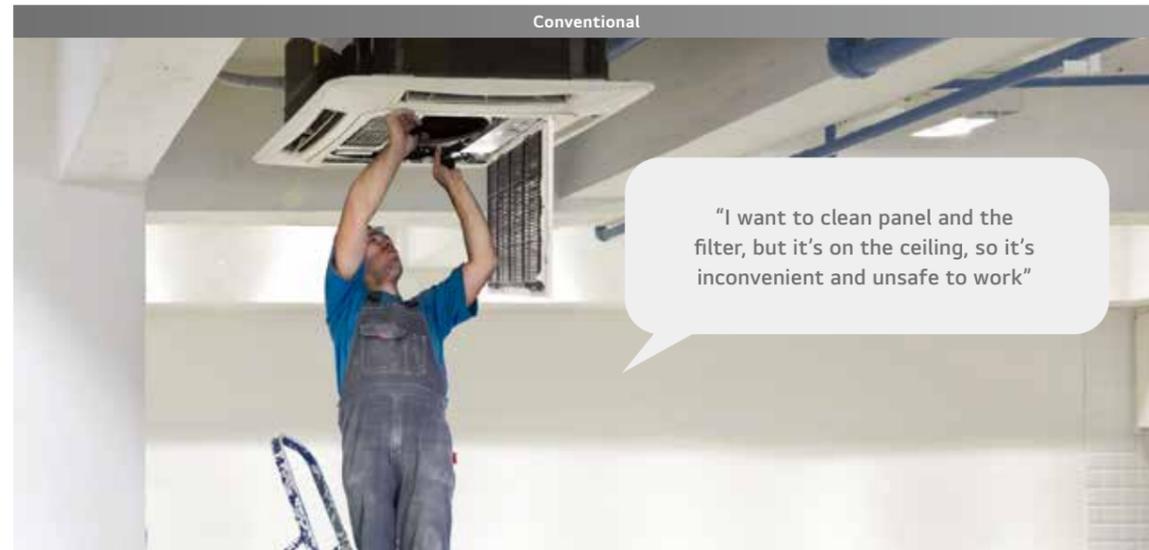
- Specially designed for indoor unit
- Gives elegant looks
- Covers the side area of cassette
- Light weight

### Specification

Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCA	PT-AAGW0 / PT-AFGW0	TP-B	6.1	9.5	1,157	266	1,157
		TM-A	6.1	9.5	1,157	308	1,157

# 4 Way CST Elevation Grille Panel with Air Purification Kit

Easy-to-clean automatic elevating grille panel, The function of automatic lifting panel and Air purification are implemented in one panel, providing customers with comfortable air as well as maintenance convenience.



**LG Elevation Grille Panel**

**3.7m**

- Photocatalytic Deodorizing Filter
- Air Purification Kit
- Elevation Grille
- Pre-Filter

**Features**

- 1 Floor Obstacle Sensing
- 2 Left and Right Horizontal Sensing
- 3 Setting the Stop Position
- 4 Checking the Grille Closure

## Specification

	Category		Unit	Catalog Spec
	Major	Minor		
Model Name	-	-	-	PTVK440 ENCXLEU
Panel Type	-	-	-	Air Purifying & Elevation Grille Kit
Panel Dimension	Net (W x H x D)	-	mm	842 x 55 x 842
	Shipping (W x H x D)	-	mm	902 x 150 x 917
Panel Weight	Net	-	kg	5.6
	Shipping	-	kg	9.2
Panel Accessory	Elevation Grille Kit	-	-	0

	Category		Unit	Catalog Spec
	Major	Minor		
Model Name	-	-	-	PT-AEGW0 ENCXLEU
Panel Type	-	-	-	Front Panel
Panel Exterior	Glossy / Matt	-	-	Matt
	Color	-	-	White
	RAL (Classic)	-	-	RAL 9003
	Grille Type (Grille / Grid)	-	-	Grid
Panel Dimension	Net (W x H x D)	-	mm	950 x 35 x 950
	Shipping (W x H x D)	-	mm	1,006 x 117 x 1,006
Panel Weight	Net	-	kg	10.5
	Shipping	-	kg	12.4
Panel Function	PM1.0 Sensor	-	-	0
	Air Purification Kit	-	-	0
Panel Accessory	Elevation Grille Kit	-	-	PTVK440
	Floor Detection Sensor	-	-	0
	Human Detection Sensor	-	-	PTVSA00

\* This product will be available in 2H '24 (This function application schedule may be changed without notification).

# Refrigerant Leak Detector

R410A refrigerant leak detector ensures room safety.



**Model Name**  
PRLDNV50

**Applied Products**

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

**Key Features**

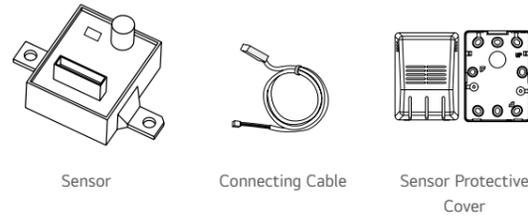
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is "on" when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is "off".
- When the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

**Specification**

Parts	Specification	
Sensor	Rated Voltage (V)	DC 5.0 ± 5%
	Dimensions (W x H x D, mm)	31 x 44 x 20
	Weight (g)	22
	Detectable Refrigerant	R410A
	Detected concentration (ppm)	0 / 6,000 Alarm Off / On
	Operating temperature range (oC)	-10 ~ 50
	Preserved temperature range (oC)	-40 ~ 60
Connecting cable	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

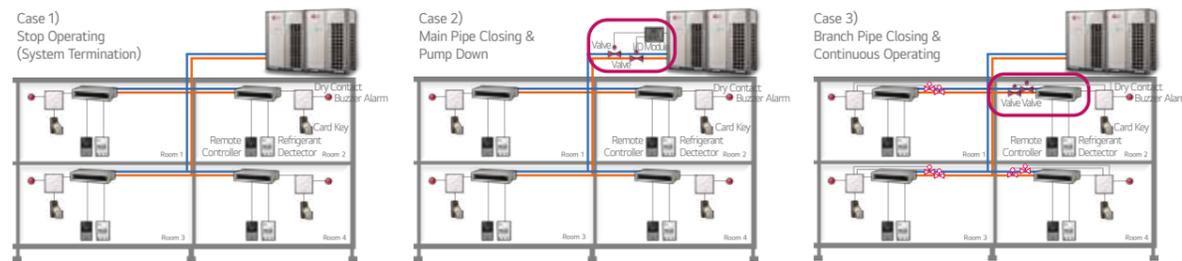
This function available for ARU\*\*\*L\*\*5 and 4 (MULTI V i, MULTI V 5, MULTI V IV H/P, H/R model)

**Included Parts**



**Key Application**

Refrigerant leak detector has three application methods.



Accessory Specification (To realize the case 2 application)



※ Necessary accessory

1) Please contact to subsidiary to get the recommended specification. (LG Electronic don't provide this accessory)

# R32 Refrigerant Leak Detector

R32 refrigerant leak detector should be needed to ensure occupant's safety by IEC 60335-2-40 because of R32's low-flammability.



**Model Name**  
PLDRNV15

**Applied Products**

- MULTI V i R32
- MULTI V S R32 (ZRU\*\*\*)

**Key Features**

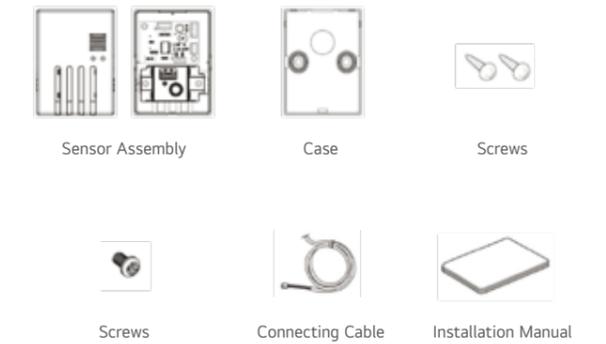
- The green LED turns on in normal mode. If the detector is abnormal such as "Leakage", "Malfunction" and "Lifetime", the red LED blink and buzzer sounds simultaneously with error display on indoor units, wired remote controller or central controller.
- "Leakage" alarm is "on" with "CH230" error display when refrigerant leaks out more than 5,000ppm for 5 seconds. "Leakage" alarm is "off" only when the system reset.
- "Malfunction" alarm is "on" with "CH228" error display when the detector determines failure.
- "Lifetime" Alarm is "on" with "CH229" error display when the used time exceeds 3650 days.
- When the alarm of the refrigerant leak detector is switched on, the occupants should be away from the site and supervisor must ventilate the room until the alarm is disabled.
- The detector has to be installed inside the room and it should be installed 0.3-0.5m above the floor.

**Specification**

Parts	Specification	
Sensor	Size (W x H x D, mm)	53.8 x 30 x 22
	Weight (g)	12
	Power Supply Voltage (V)	5.0 DC ± 5%
	Average Power Consumption (mA)	40 (Max. 80)
	Certificate	RoHS2, JRA 4068:2016R, IEC60335-2-40 Ed6.0
	Detectable Refrigerant	R32
	Alarming	Leakage (5,000ppm) / Malfunction / Lifetime
PCB Assembly	Operation Temperature (°C)	-25 ~ 60
	Buzzer Noise Level (dB(A))	85
Connecting Cable	LED	Green (Normal) / Red (Alarming)
	Length (m)	10
Sensor Protective Case	Plate Dimension (Front / Back) (W x H x D, mm)	66 x 89 x 46 / 66 x 89 x 16

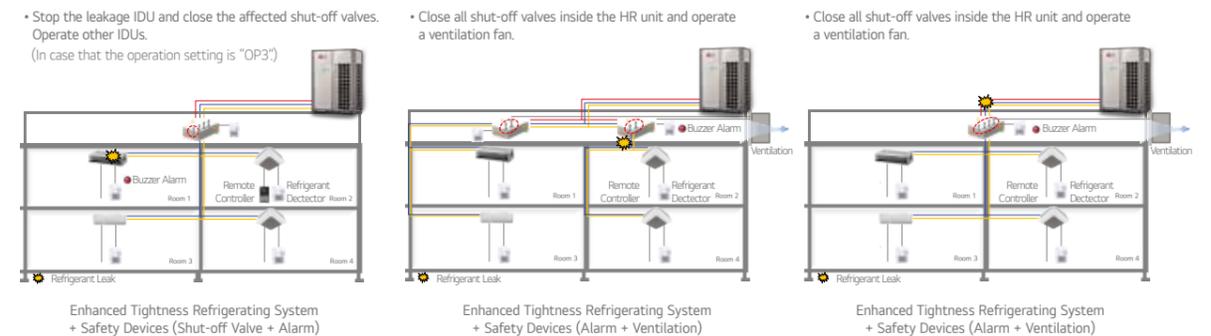
※ Error can be displayed on some indoor units such as Wall-mounted, Ceiling Mounted Cassette etc.  
※ Sound level can vary depending on the installation condition.

**Included Parts**



**Key Application**

Refrigerant leakage detector has application methods. (LG system complies with IEC 60335-2-40)



Enhanced Tightness Refrigerating System + Safety Devices (Shut-off Valve + Alarm)      Enhanced Tightness Refrigerating System + Safety Devices (Alarm + Ventilation)      Enhanced Tightness Refrigerating System + Safety Devices (Alarm + Ventilation)

## CO<sub>2</sub> Sensor

CO<sub>2</sub> sensor in ventilation system.



**Model Name**  
AHCS100H0

**Applied Products**

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

**Applicable Products**

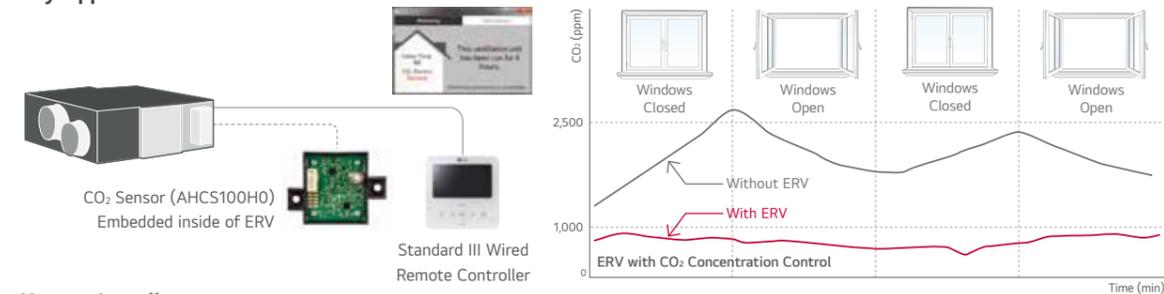
LZ-H050GXN0 / LZ-H080GXN0  
LZ-H100GXN0 / LZ-H050GXH0  
LZ-H080GXH0 / LZ-H100GXH0

**Key Features**

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

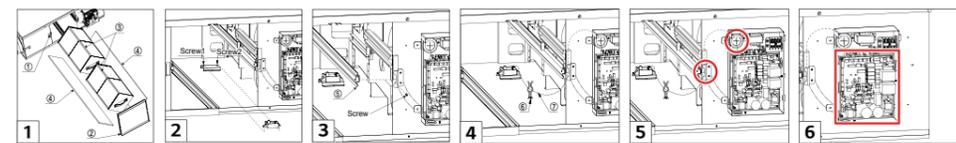
- Description
- The product is especially designed to detect CO<sub>2</sub>.
  - This model requires Standard III Wired Remote Controller for display.

**Key Application**



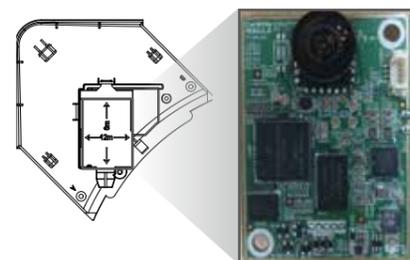
**How to Install**

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



## Human Detection Kit

Human Detection Kit ensures energy saving and controls wind direction.



**Model Name**  
PTV5MA0

**Applied Products**

PT-AAGW0  
(For Dual Vane Cassette Panel)  
PT-AFGW0  
(For Dual Vane Cassette Panel)

**Key Features**

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

## EEV KIT (for Indoor Unit)

MULTI V EEV KIT is specially designed to reduce noise and ensure a comfortable environment.

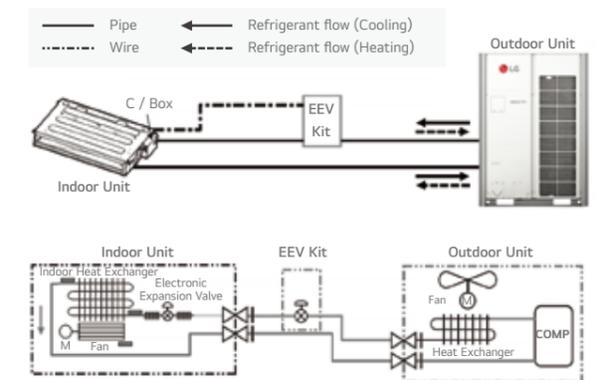


**Model Name**  
PRGK024A0

**Key Features**

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

**Key Application**

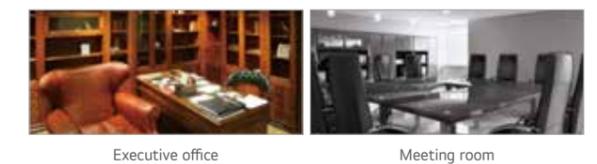
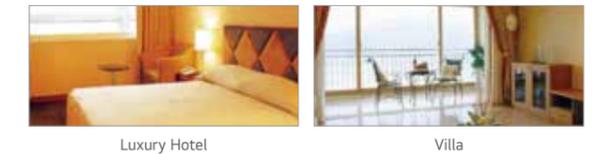


**Applied Products**

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

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

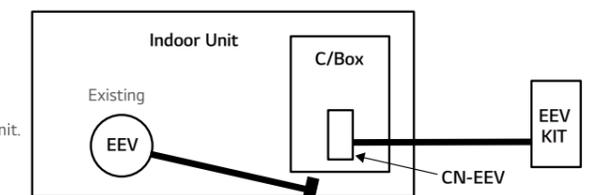
EEV Kit can be applied for the space which requires a quiet environment and noise sensitive space.



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

**How to Install**

- Open Indoor unit's control box cover.
- ① Open fully indoor unit's EEV through vacuum mode of ODU setting.
  - ② Detach the Indoor unit's EEV connector from PCB and then push the reset button of Outdoor unit's PCB.
  - ③ After connecting indoor unit's EEV CONNECTOR, repeat the process ① & ②. Then, connect the EEV CONNECTOR of EEV KIT in PCB of indoor unit.
  - ④ Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.
  - ⑤ Assemble the control box cover.



## IR Receiver

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



**Model Name**  
PWLRVN000

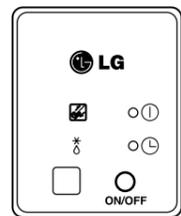
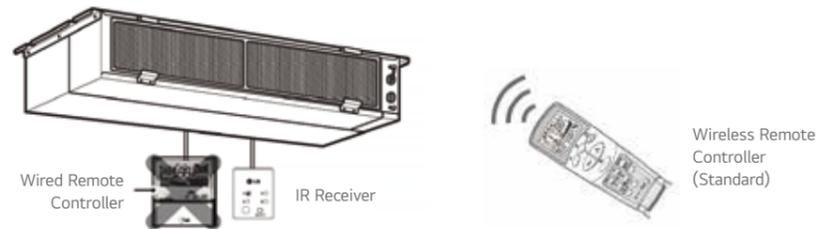
**Applied Products**  
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

**Key Features**

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

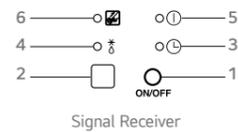
### Key Application

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



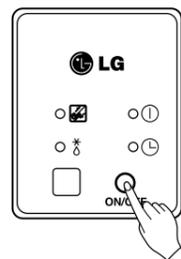
### Operation of Indication Lamps

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



### Test Run Mode

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



## Multi-tenant Power Module

System operation remains stable when indoor unit power is lost.



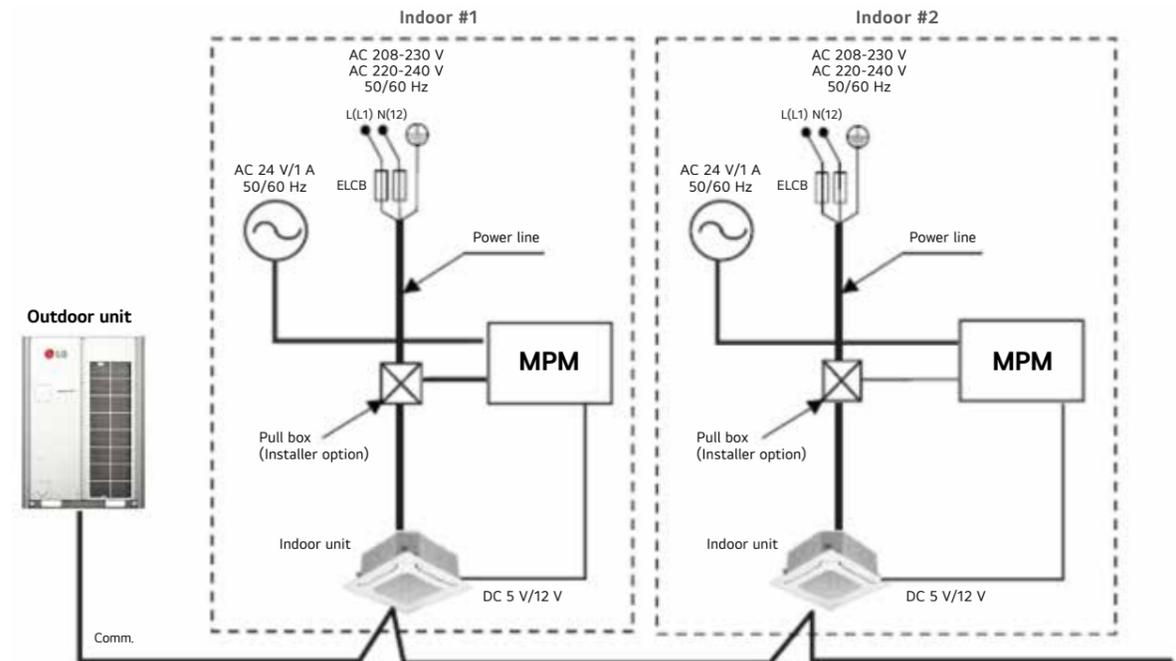
**Model Name**  
PINPMB001

**Applied Products**  
MULTI V Indoor Units

**Key Features**

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

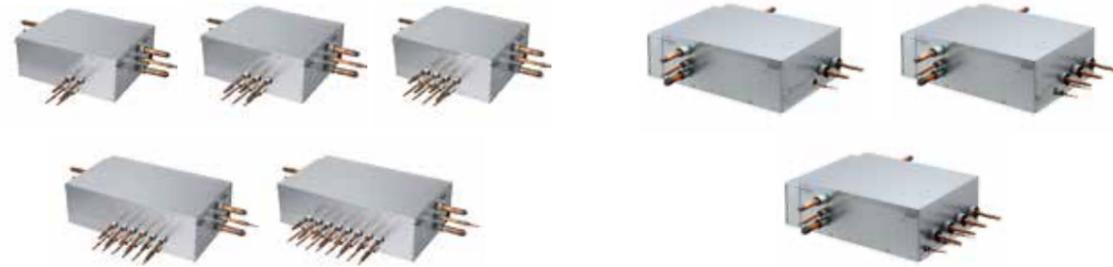
### Installation Scene



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



# Heat Recovery



### Applied Products

- MULTI V i
- MULTI V 5
- MULTI V IV
- MULTI V WATER 5

### Model Name (R410A)

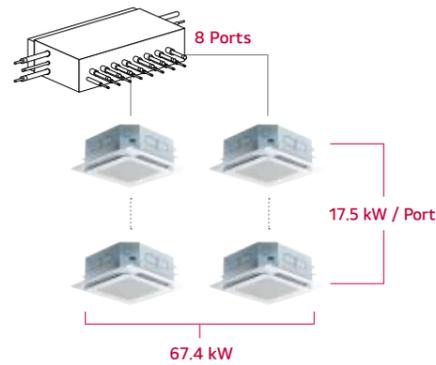
- PRHR023 (2 Branch Unit)
- PRHR033 (3 Branch Unit)
- PRHR043 (4 Branch Unit)
- PRHR063 (6 Branch Unit)
- PRHR083 (8 Branch Unit)

### Key Features

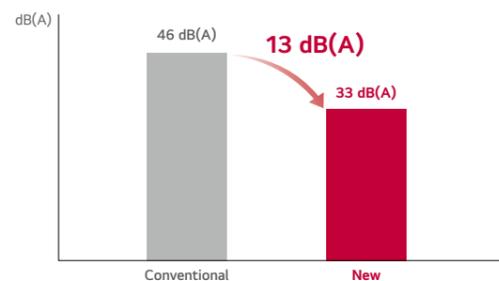
- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in the HR unit ensures maximum system efficiency.

### Connection Capacity

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



### Reduce Noise



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

### Applied Products

- MULTI V i
- MULTI V 5
- MULTI V IV
- MULTI V WATER 5

### Model Name (R32)

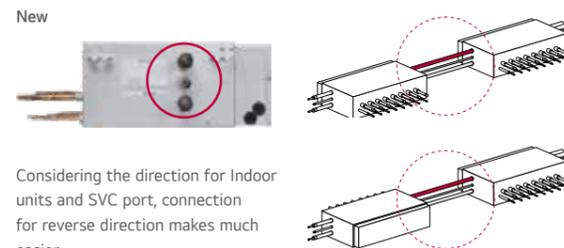
- PRHRZ020
- PRHRZ030
- PRHRZ040

### Key Features

- When a refrigerant leak is detected, a ventilation fan is operated by the HR Unit control.
- There is a shut-off valve inside the HR Unit, allowing for quick and easy installation.
- The remaining indoor units can operate, thanks to close only the leaked shut-off valve.
- There is no limitation on a minimum room area due to safety devices. (Ventilation Fan, Shut-off Valves, Alarm) (\* Excluding cases where it is installed on the lowest basement floor.)
- Max. 32 indoor units can be connected. (Max. 4 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in HR unit makes the system efficiency maximum.

### Flexible Connection

Series connection can be installed without pipes crossing.



Considering the direction for Indoor units and SVC port, connection for reverse direction makes much easier

### Included Parts

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

### Specification (R410A)

Model		Unit	PRHR023	PRHR033	PRHR043	PRHR063	PRHR083	
Number of Branch		EA	2	3	4	6	8	
Maximum Connectable Capacity of Indoor Units (Per branch / unit)		kW	17.5 / 35	17.5 / 52.5	17.5 / 67.4	17.5 / 67.4	17.5 / 67.4	
Maximum Number of Connectable Indoor Units Per Branch		EA	8	8	8	8	8	
Nominal Input	Cooling	kW	0.040	0.040	0.040	0.076	0.076	
	Heating	kW	0.038	0.038	0.038	0.072	0.072	
Net. Weight		kg	18.5	20.3	22.0	28.3	31.8	
Dimensions (W x H x D)		mm	786 x 218 x 657	786 x 218 x 657	786 x 218 x 657	1,113 x 218 x 657	1,113 x 218 x 657	
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)
		Gas	mm (inch)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
			High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
		Power Supply		∅, V, Hz	1, 220-240, 50 1, 220, 60			

### Specification (R32)

Model		Unit	PRHRZ020	PRHRZ030	PRHRZ040	
Number of Branch		EA	2	3	4	
Maximum Connectable Capacity of Indoor Units (Per branch / unit)		kW	17.5 / 35	17.5 / 52.5	17.5 / 67.4	
Maximum Number of Connectable Indoor Units Per Branch		EA	8	8	8	
Nominal Input	Cooling	kW	0.040	0.040	0.040	
	Heating	kW	0.040	0.040	0.040	
Net. Weight		kg	21.0	23.0	25.0	
Dimensions (W x H x D)		mm	786 x 235 x 918	786 x 235 x 918	786 x 235 x 918	
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)
		Gas	mm (inch)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
			High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)
		Power Supply		∅, V, Hz	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60

### Reducers for Indoor Unit and HR Unit

(Unit : mm)

Model	Liquid	High Pressure	Low Pressure
Indoor unit reducer			
PRHR023 / PRHRZ020			
HR unit reducer			
	PRHR033 / PRHRZ030 PRHR043 / PRHRZ040 PRHR063 PRHR083		

# Y Branch and Header Branch

For refrigerant distribution of indoor units.



### Model Name

Refer to specifications

### Applied Products

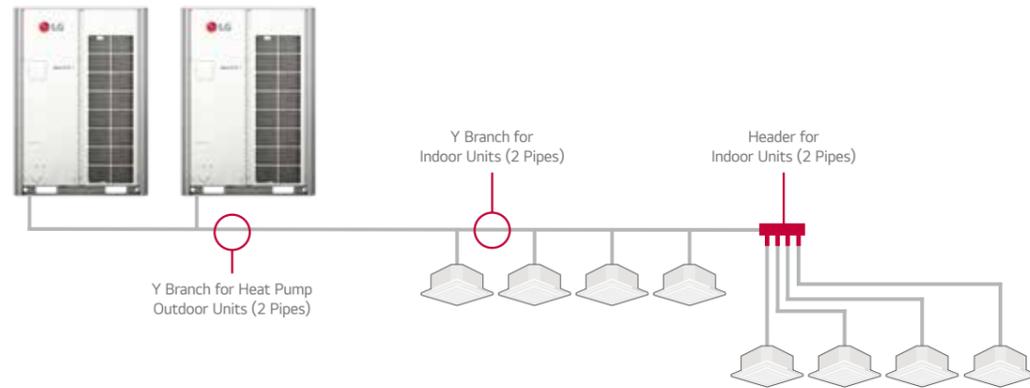
- MULTI V i
- MULTI V 5
- MULTI V IV
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V S
- MULTI V WATER 5
- MULTI V WATER IV
- MULTI V WATER II
- MULTI V WATER S

### Key Features

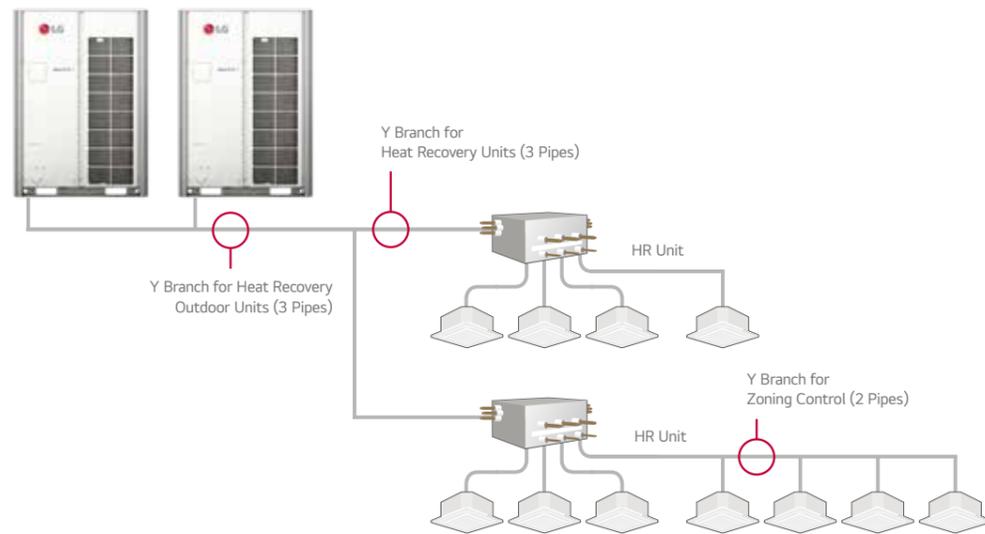
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

### Key Application

Heat Pump System



Heat Recovery System



### Specification

Header Branch

**R410A**

(Unit : mm)

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

# Piping Accessories

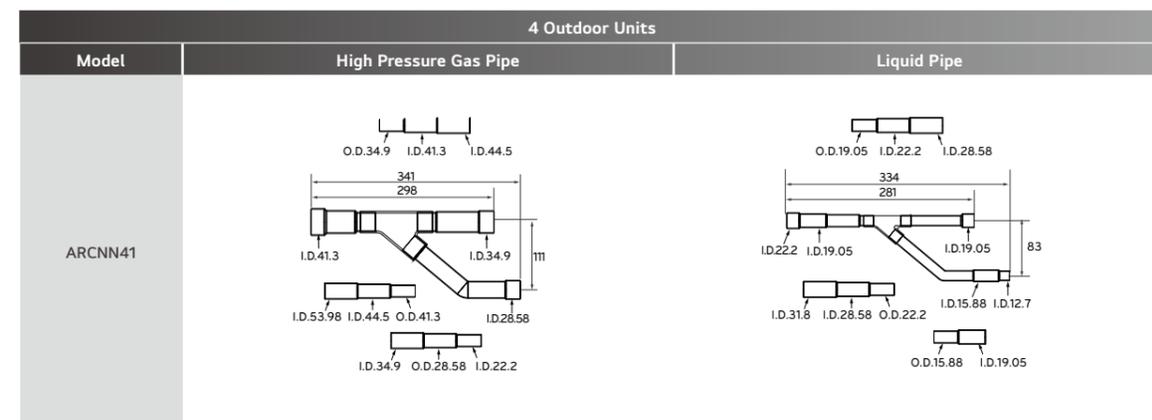
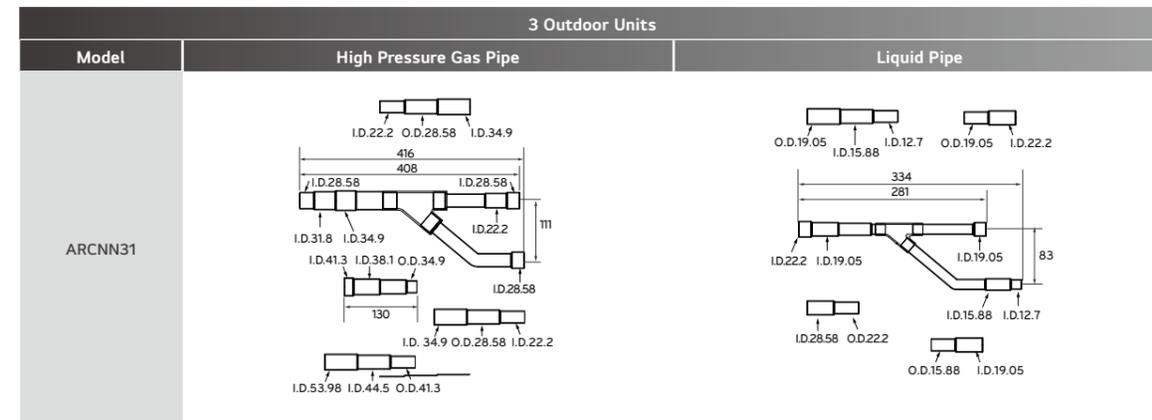
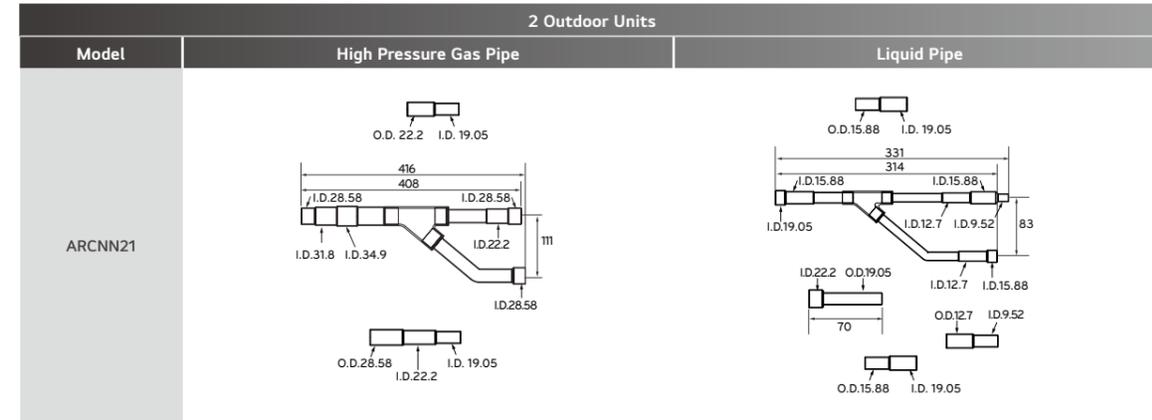
Y Branch pipe for the connection of outdoor units.

## Specification

Heat Pump

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

(Unit : mm)

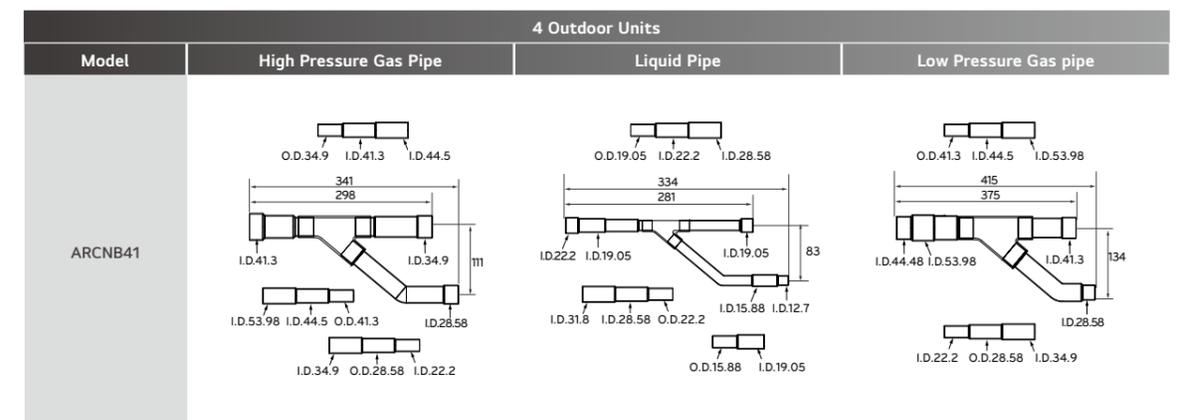
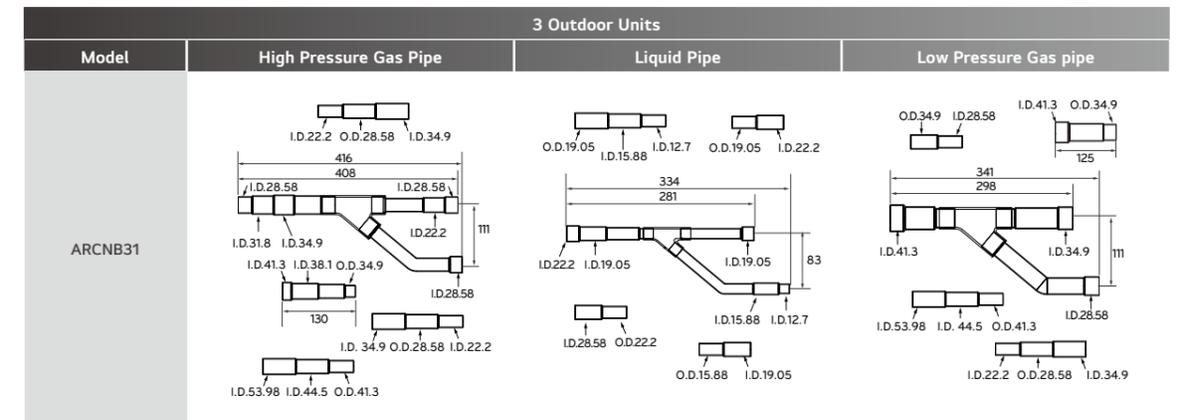
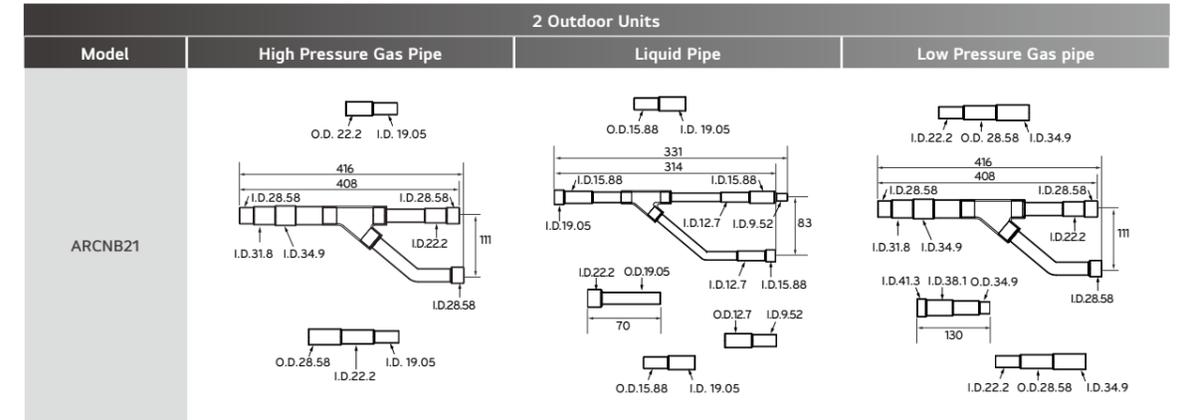


## Specification

Heat Recovery

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

(Unit : mm)



# Piping Accessories

Y Branch pipe for the connection of outdoor units.

## Specification

Heat Pump, Heat Recovery Zone Control

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

(Unit : mm)

Model	Gas Pipe	Liquid Pipe
ARBLN01621		
ARBLN03321		

Model	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		

Model	Gas Pipe	Liquid Pipe
ARBLN23220		

## Specification

Heat Recovery

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

(Unit : mm)

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

## Refrigerant Charging Kit

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



**Model Name**  
PRAC1

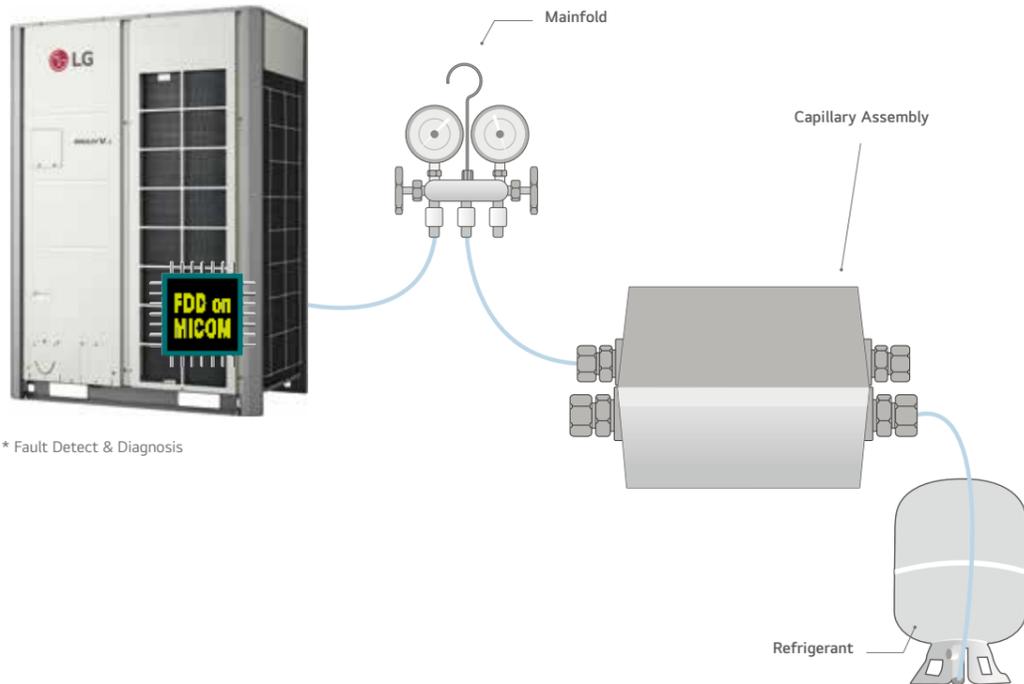
**Applied Products**

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

**How to Use**

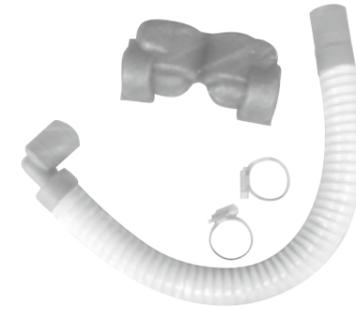
- Arrange manifold, capillary assembly, refrigerant vessel and scale.
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure.
- Connect manifold and capillary tube. Use designated capillary assembly only. If designated capillary assembly isn't used, the system may get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

**Key Application**



## Drain Hose

Easy drain installation.



**Model Name**

- PHDHA05T
- PHDHA07T
- PHDHA05B
- PHDHA07B

**Applied Products**

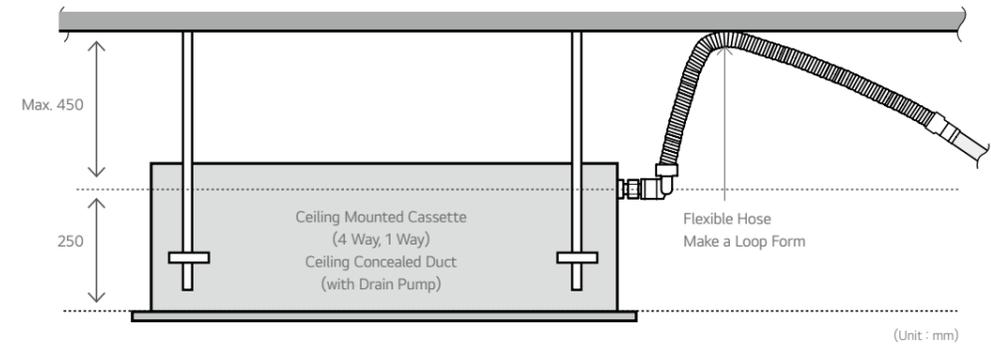
Multi V Indoor units

**Key Features**

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

**Key Application**

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



**Specification**

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

# Stopper Valves



### Model Name

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

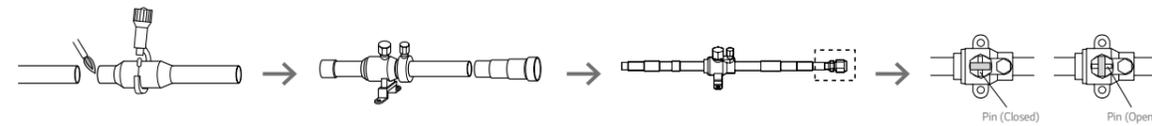
### Key Features

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

### Specification

Model	Specification
PRVT120	
PRVT780	
PRVT980	

### How to Install

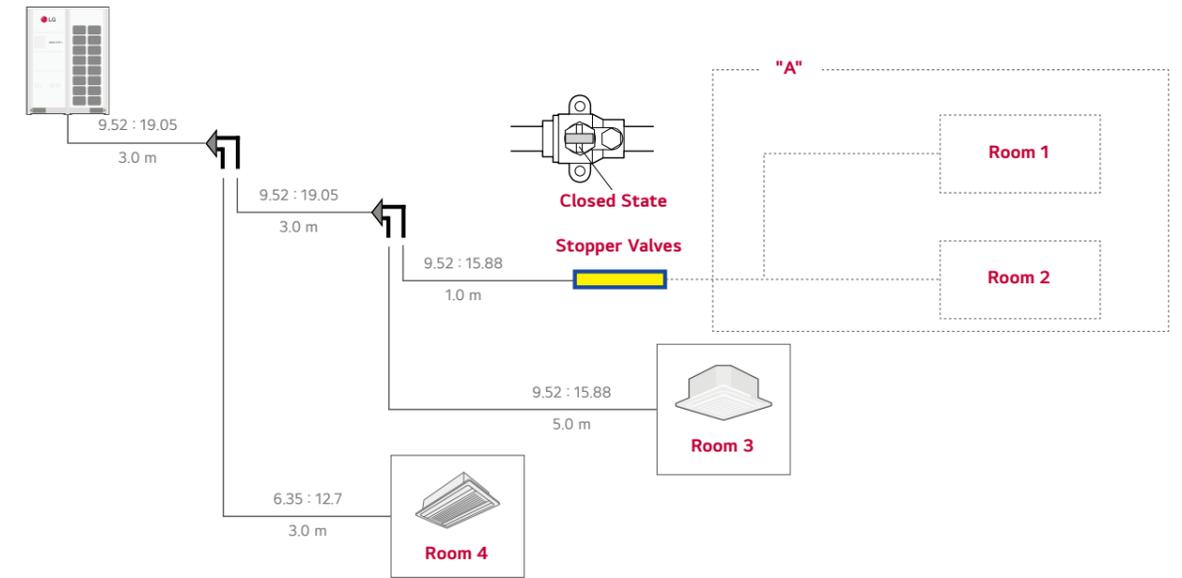


- Cut the inlet side of the connector, and weld the pipe
- If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
- When installing a stopper valve, the flare part should be facing towards additional indoor unit.
- When installing an additional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

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

### Application

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



- Refrigerant or oil may accumulate, if the pipe between the branch and stopper valves is long. Recommended distance within 1.0 m.

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

