

2024 | **MULTI V™**

2024
MULTI V™
LG AIR SOLUTION



LG Electronics

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

Distributed by



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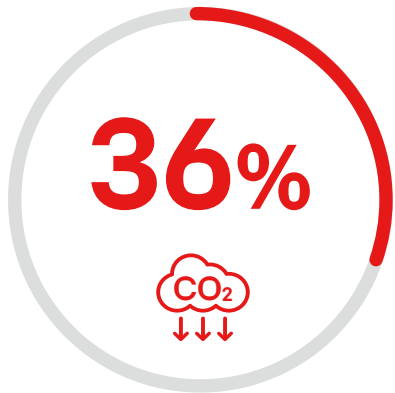
AHU SOLUTION

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

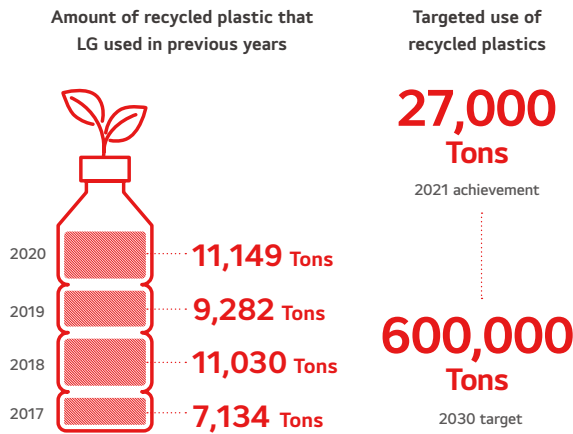
* Source: The European Commission website. https://commission.europa.eu/news/focus-energy-efficiency-buildings-2020-02-17_en

- 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

RE-DESIGN

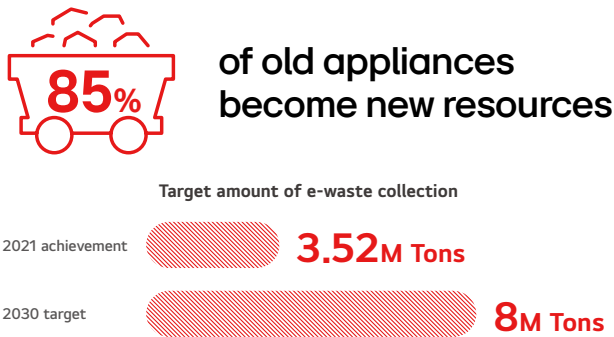
IMPROVE CIRCULARITY OF RAW MATERIALS

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

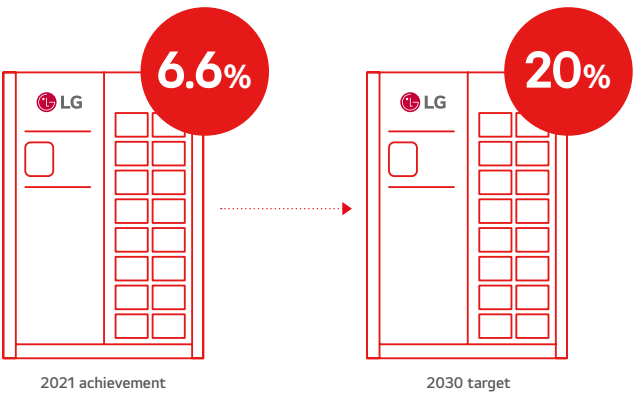
REDUCE RELIANCE ON HIGH GWP REFRIGERANT GASES

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)
- 6th 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.

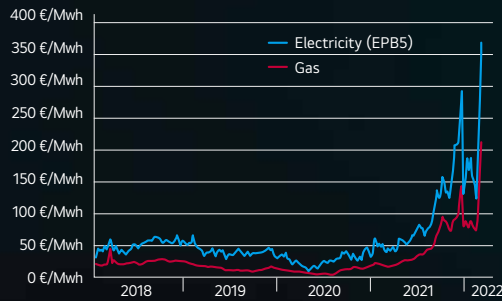


Soaring Energy Prices in Europe

- 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

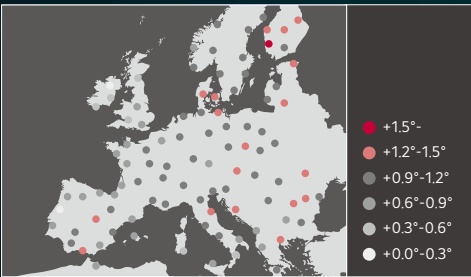


Source : brusselstimes



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.

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

* Source : European Commission



MULTI V BRAND HISTORY

MULTI V is recognized for its technology and innovation.

All Inverter

Dual Sensing
MULTI V™ 5
Efficiency and Comfort with dual sensing control

AI Engine NEW
MULTI V™ i
Superior customer experience with AI Technology

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

HISTORY OF MULTI V LEADERSHIP

2013
MULTI V™ IV

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

2017
MULTI V™ 5

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

2023
MULTI V™ 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

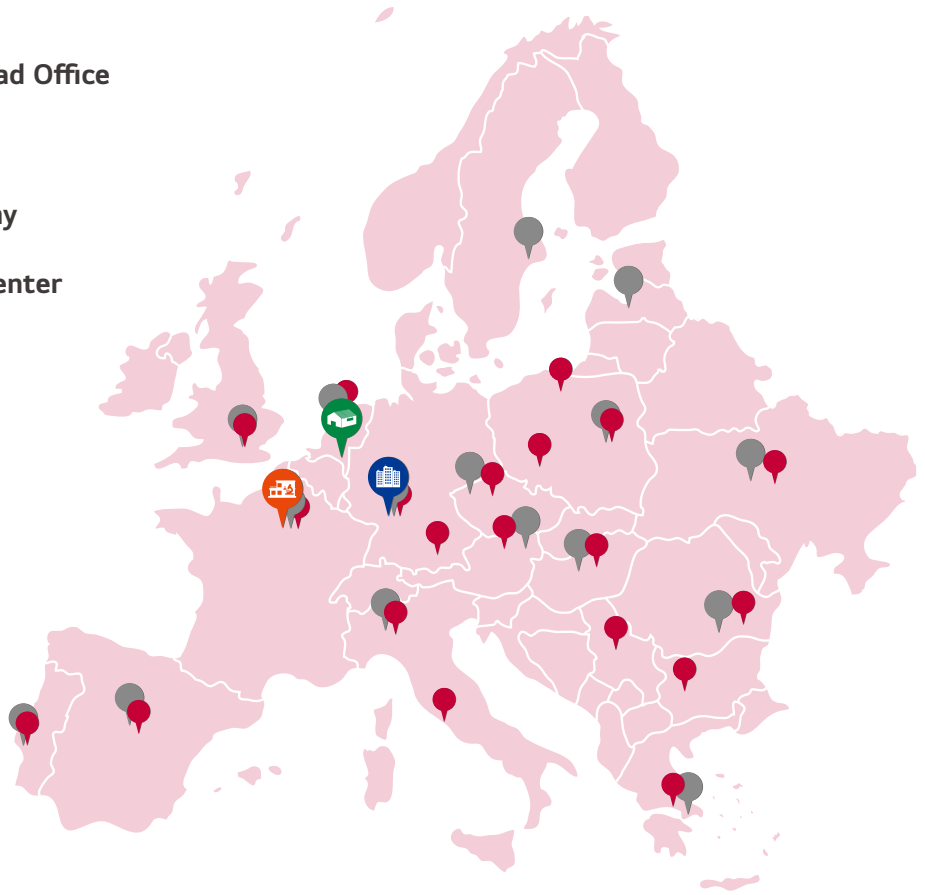
LG has set up 20 official air conditioning academies in Europe, teaching much needed skills to thousands of current industry professionals including installers, consultants, designers, sales staff and service technicians. The academy program is being used to share expertise and educate these HVAC experts 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

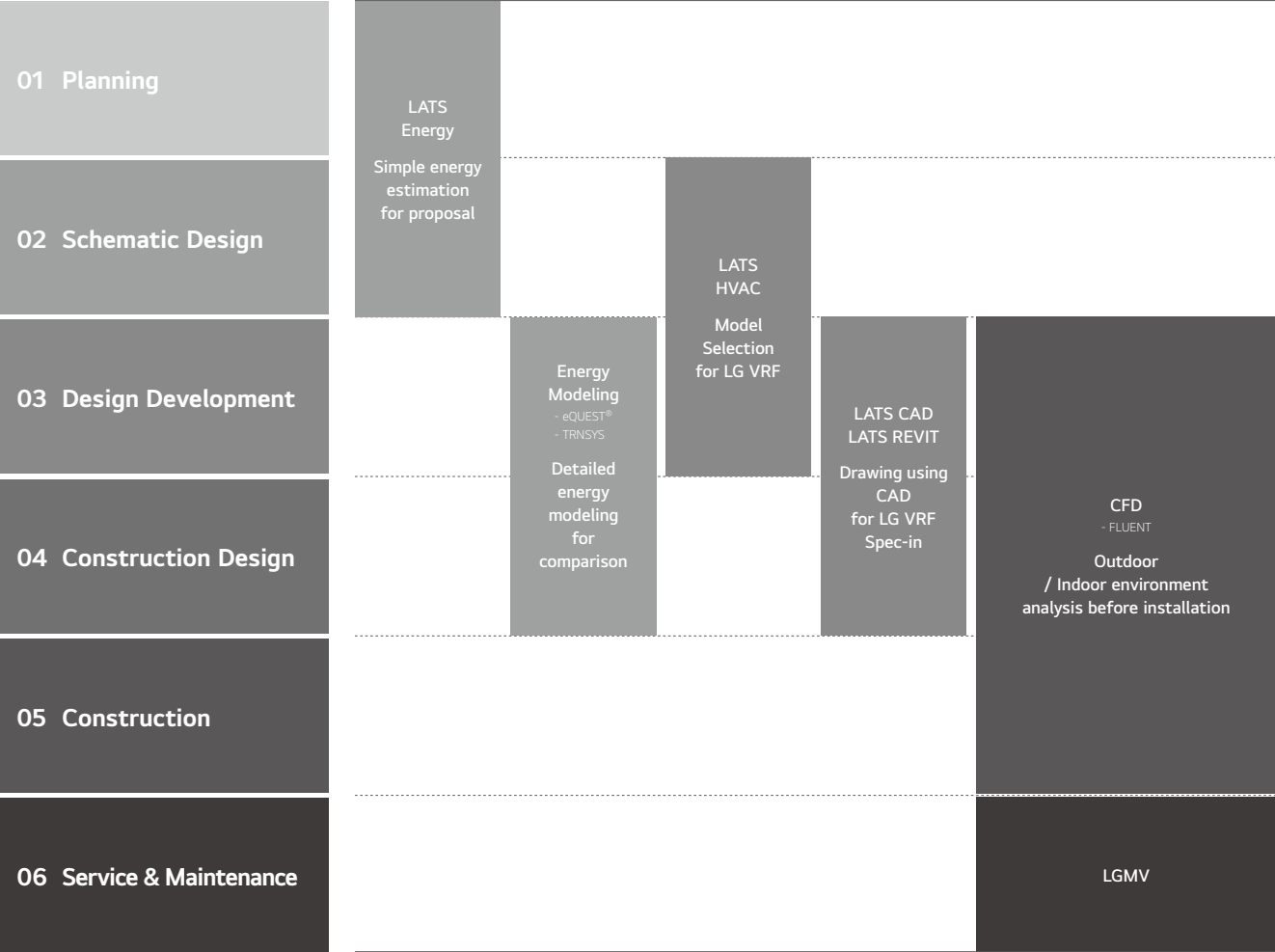
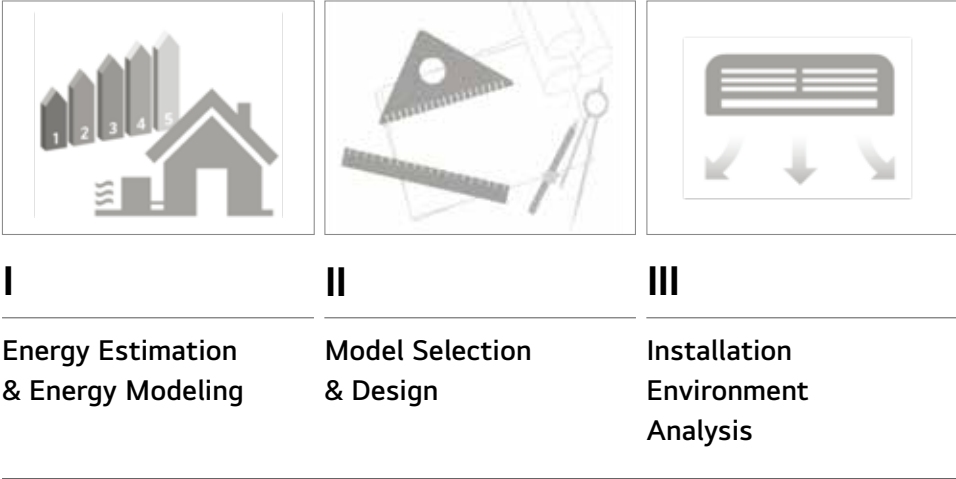


ENGINEERING TOOLS & SUPPORT

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



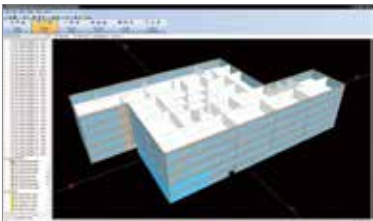
01 Draft Energy Estimation

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.

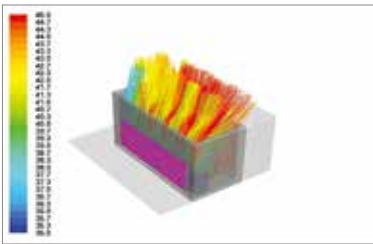
LATS REVIT
LATS REVIT allows BIM users to have an attractive 3D design of LG commercial air conditioning systems with embedded calculations for refrigerant and efficiency features.

※ 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 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 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 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



Small to Medium sized Office Building



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

Commercial

Maximizing business, minimizing cost

Shopping Mall



Retail



Quick Service Restaurant (QSR)



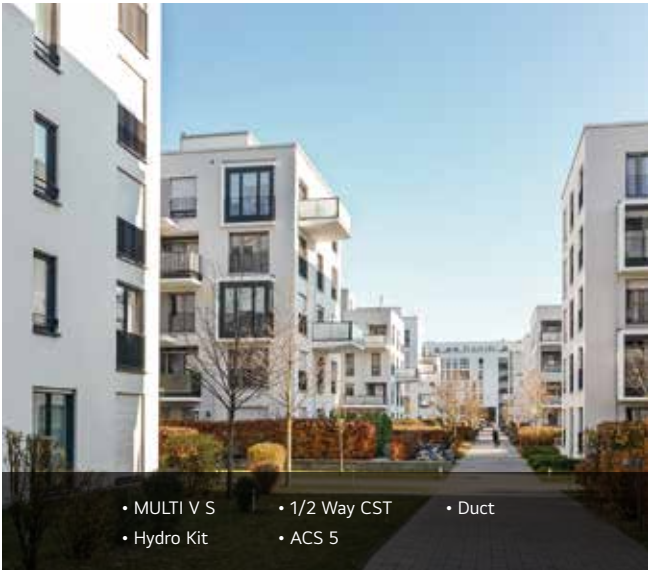
The highly efficient, energy saving MULTI V i and MULTI V M reduce operation costs and provide comfort to suit any purpose and any interior, helping your business save extra space and reduce expenses.

* CST : Cassette ** PDI : Power Distribution Indicator

Residential

Creating a comfortable home

Condominium & Apartments



Single Family House & Villa



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



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

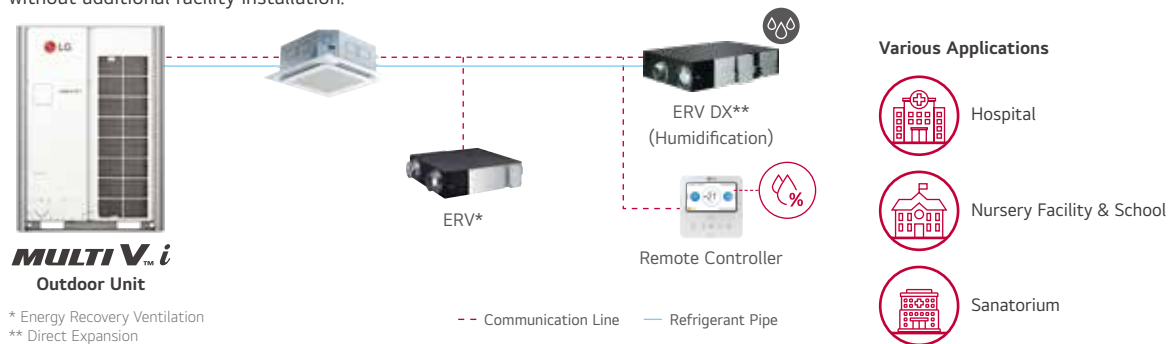
MULTI V *i* with Hydro kit provides floor heating and hot water supply as well as space heating & cooling. It is a more environmentally friendly system with higher energy efficiency and lower carbon emissions.



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

Interlocking Operation with ERV

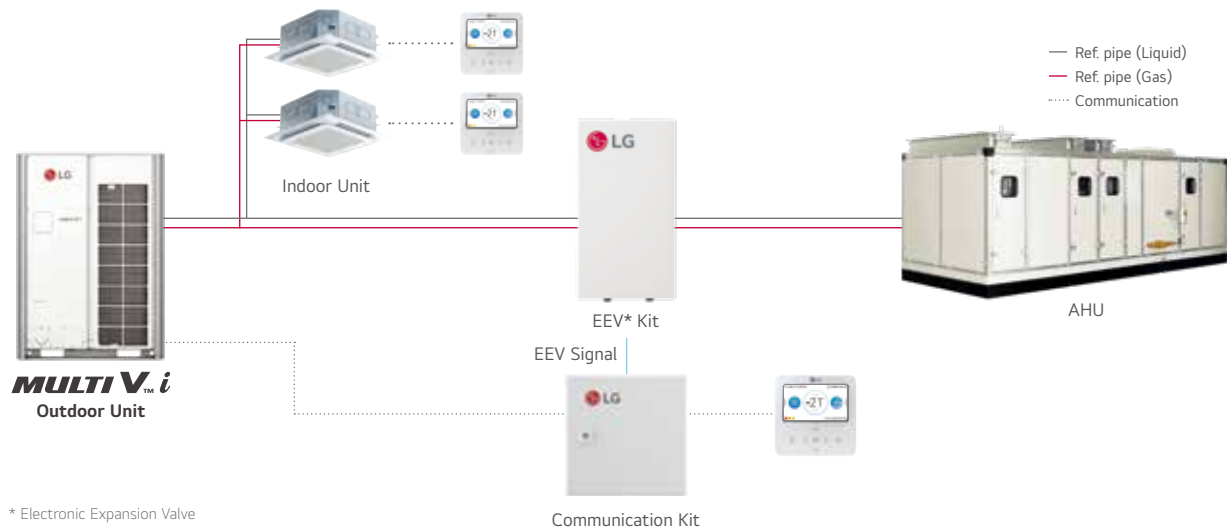
LG ERV DX with humidification function interlock operation is a solution for humidifying and ventilating the indoor space while communicating with other IDUs and the ODU. They provide improved comfort condition, while taking into account the indoor conditions without additional facility installation.



* Energy Recovery Ventilation
** Direct Expansion

Air Handling Unit (AHU) Solution

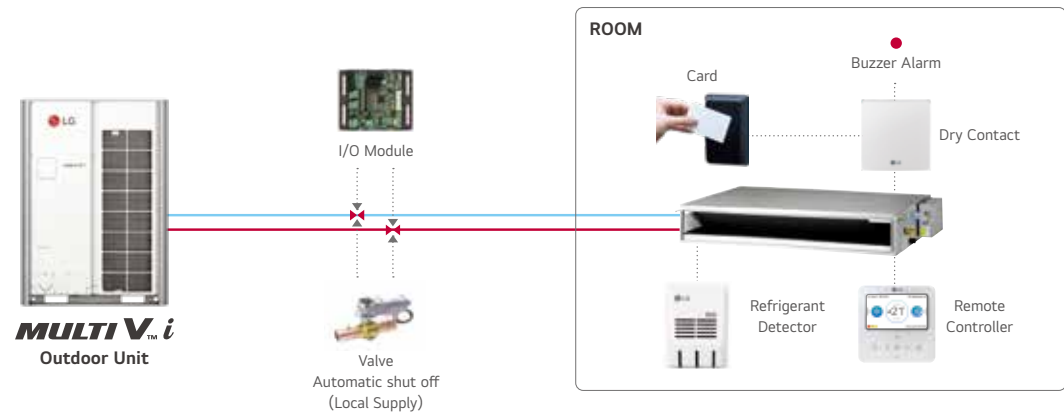
AHU is a suitable solution for cooling and heating in large spaces. With an LG AHU Comm. Kit (for both return air / supply air control) connected to the DX coil of the AHU, LG VRF system can be applied to deliver conditioned air.



* Electronic Expansion Valve

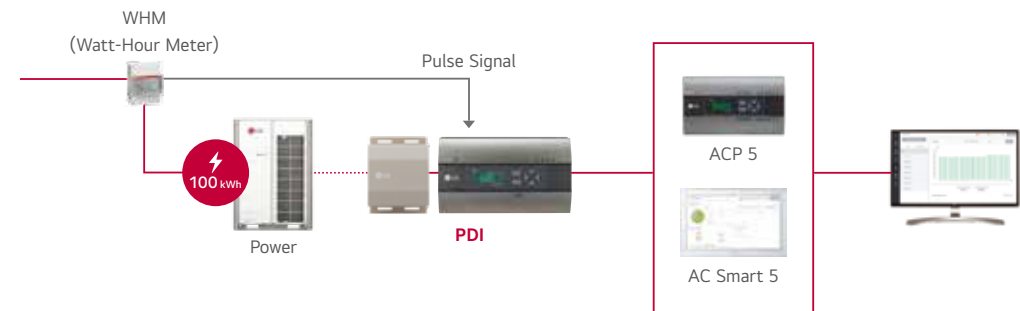
Refrigerant Leak Detection Solution

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



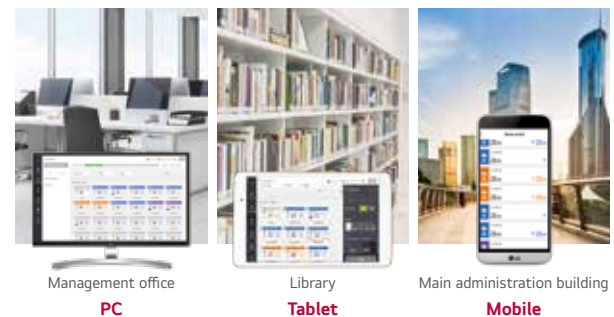
Power Consumption Distribution Solution

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.



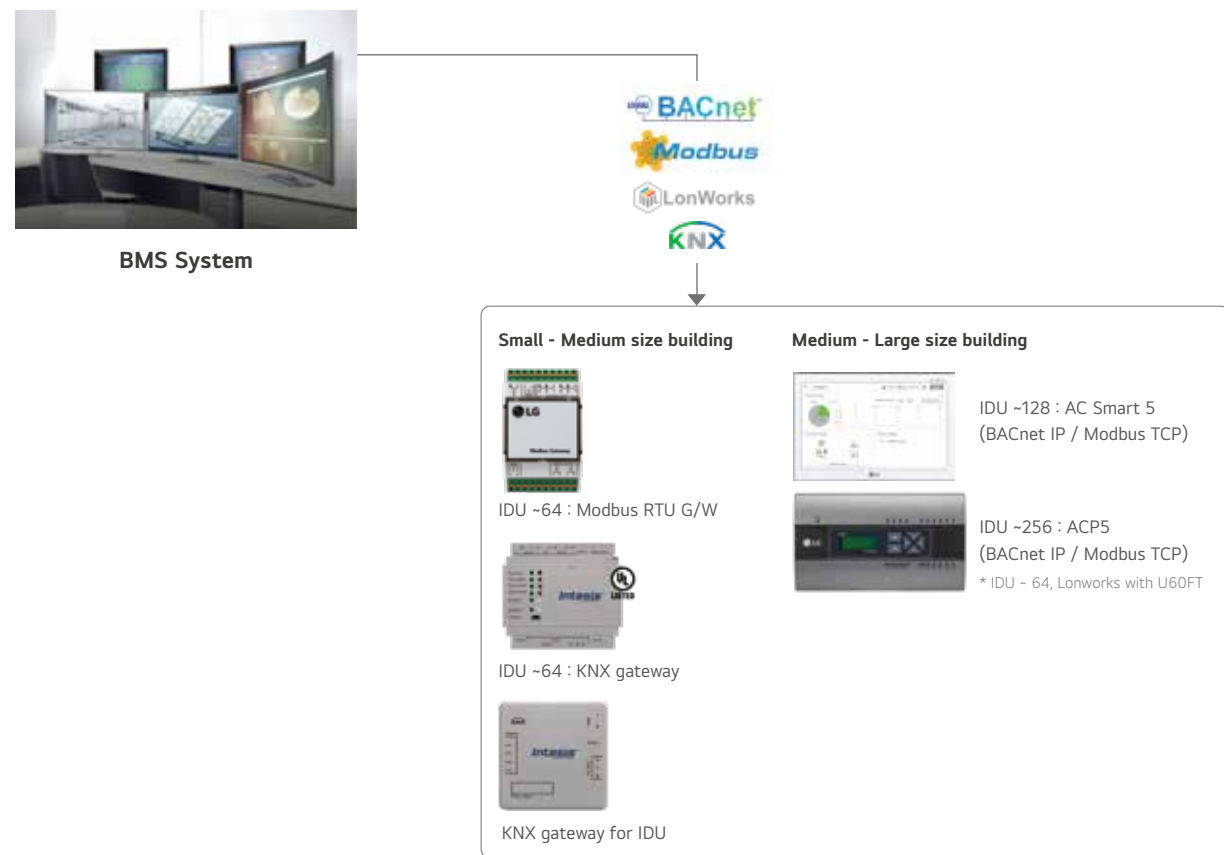
Energy Management Solution

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.



Integration Solution with BMS

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



Interlocking Solution by Using ACU Module


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




Interlocking Solution Using Dry Contact

3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote controller has a DO port. With this DO port, it is possible to interlock the indoor unit with 3rd party devices such as lighting, a fan, or a radiator, based on 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.






8 - 12 HP




8 - 12 HP

380V, 3Ø




14 - 20 HP




14 - 20 HP

380V, 3Ø




22 - 26 HP




22 - 26 HP

380V, 3Ø




28 - 48 HP




28 HP

380V, 3Ø




50 - 68 HP

380V, 3Ø



70 - 96 HP

380V, 3Ø






5 HP

220V, 1Ø


380V, 3Ø





4 HP

220V, 1Ø




5 - 6 HP

220V, 1Ø


4 - 8 HP

380V, 3Ø



10 - 12 HP


380V, 3Ø



6 HP

220V, 1Ø



Heat Recovery




3 - 6 HP

220V, 1Ø


380V, 3Ø




8 - 20 HP

380V, 3Ø




22 - 40 HP

380V, 3Ø



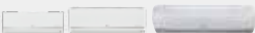











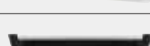








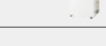



42 - 60 HP

























380V, 3Ø





















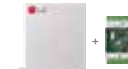


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| kW | | | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.2 | 7.1 | 8.2 | 9.0 | 10.6 | 12.3 | 14.1 | 15.8 | 22.4 | 28.0 | | Energy Monitoring | 2 Set Point | Occupied / Unoccupied Scheduling Function | Group Control | Test Run (Cooling) | Test Run (Heating) | Model Information Monitoring | Auto Addressing | Refrigerant Leakage Detection | Thermo On / Off Range Setting (Cooling) | Thermo On / Off Range Setting (Heating) | Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type) | 1 Point External Input (On / Off Control) | Filter Sign (Remaining Time) | Auto Restart Function Disable / Enable | Wi-Fi Ready | |
|--|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|--|-------------------|-------------|---|---------------|--------------------|--------------------|------------------------------|-----------------|-------------------------------|---|---|--|---|------------------------------|--|-------------|---|
| | | | 5k | 7k | 9k | 12k | 15k | 18k | 21k | 24k | 28k | 30k | 36k | 42k | 48k | 54k | 76k | 96k | | | | | | | | | | | | | | | | | | |
| 4 th generation Wall Mounted | Artcool Gallery  | | | ● | ● | ● | | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | |
| | Artcool Mirror  | ● | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Standard  | ● | ● | ● | ● | ● | ● | | ● | | ● | ● | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 4 th 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 th generation Ceiling Concealed Duct | Mid / High Statics  | | ● | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Low Static (Slim)  | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | High Sensible  | | ● | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 4 th generation Fresh Air Intake  | | | | | | | | | | | | | | | | | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 4 th generation Ceiling & Floor Convertible  | | | | ● | ● | | | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| 4 th generation Ceiling Suspended  | | | | | | | ● | | ● | | | ● | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 4 th generation Console  | | | ● | ● | ● | ● | | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 4 th generation Floor Standing | Floor Standing with Case  | | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Floor Standing without Case  | | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Floor Standing (PAC)  | | | | | | | | | | | | | | | ● | | | ● | | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● |
| 4 th generation HYDRO KIT | Wall-Mounted  | | | | | | | ● | | ● | | ● | | | | | | | | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| | IWT  | | | | | | | ● | | ● | | ● | | | | | | | | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| | Low Temperature  | | | | | | | | | | | | | ● | | | | ● | | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| | High Temperature  | | | | | | | | | | | | | ● | | | | ● | | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| 4 th generation Energy Recovery Ventilator with DX Coil | with Humidifier  | | | | | ● | | | ● | | ● | | | | | | | | | | | | | ● | ● | ● | | ● | ● | | | ● | ● | ● | ● | ● |
| | without Humidifier  | | | | | ● | | | ● | | ● | | | | | | | | | | | | | ● | ● | ● | | ● | ● | | | ● | ● | ● | ● | ● |

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

| Individual Control | | | Centralized Control | | |
|--|--|---|--|--|---|
| Wired Remote Controller | | Wireless Remote Controller | Display | Platform | Gateway |
| Standard | Simple | | | | |
| <div>Deluxe</div> <div></div> <div>PREMTA201</div> | <div></div> <div>PQRCVCLOQW</div> | <div></div> <div>PWLSSB21H (Heat Pump) PWLSSB21C (Cooling Only)</div> | <div>AC Ez</div> <div></div> <div>PQCSZ250S0 (Indoor Unit ~ 32)</div> | <div>ACP 5</div> <div></div> <div>PACP5A000 (Indoor Unit ~ 256) BACnet IP / Modbus TCP * ~64, Lonworks with U60FT</div> | <div>Modbus RTU gateway</div> <div></div> <div>PMBUSB00A (Indoor Unit ~ 16 with single module Indoor Unit ~ 64 with 4 modules)</div> |
| <div>Premium</div> <div></div> <div>PREMTA000 PREMTA000A PREMTA000B</div> | <div></div> <div>PQRCVCLOQ</div> | <div>Wi-Fi Modem</div> <div></div> <div>For Indoor Unit PWFMD200</div> | <div>AC Ez Touch</div> <div></div> <div>PACEZA000 (Indoor Unit ~ 64)</div> | <div>AC Manager 5</div> <div></div> <div>PACM5A000 (Indoor Unit ~ 8,192)</div> | <div>KNX gateway</div> <div></div> <div>INKNXLGE0160036 (Indoor Unit ~16) INKNXLGE0640036 (Indoor Unit ~64)</div> |
| <div>Standard III (White)</div> <div></div> <div>PREMTB101</div> | <div></div> <div>PQRCHCA0QW (Simple for Hotel)</div> | | <div>AC Smart 5</div> <div></div> <div>PACS5A000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP</div> | | <div></div> <div>INKNXLGE001R000 (For Indoor Unit)</div> |
| <div>Standard III (Black)</div> <div></div> <div>PREMTBB11</div> | <div></div> <div>PQRCHCA0Q (Simple for Hotel)</div> | | | <div>PI485</div> <div></div> <div>For ERV PHNFP14A0</div> | |
| <div>Standard II (White)</div> <div></div> <div>PREMTB001</div> | | | | <div></div> <div>For ERV PSNFP14A0 (with case)</div> | |
| <div>Standard II (Black)</div> <div></div> <div>PREMTBB01</div> | | | | <div></div> <div>For AWHIP PP485A00T</div> | |
| | | | | <div></div> <div>For SINGLE / MULTI PMNFP14A1</div> | |

| Centralized Control | Integration Device | | | |
|---|---|--|--|--|
| Facility Integrator | Indoor Unit | | Outdoor Unit | AHU Kit |
| | Dry Contact | Control Accessory | | |
| PDI (Power Distribution Indicator) |  Simple Dry Contact PDRYCB000 | Group Control Wire  PZCWRG3 | IO Module (Input / Output Module)  For MULTI V IV, 5, i PVDSMN000 | Communication Kit  Return / Room Air Control PAHCMR000 |
| ACS IO Module (Input / Output Module) |  Dry Contact for Thermostat PDRYCB320 | Remote Temperature Sensor  PQRSTA0 | Variable Water Flow Control Kit  For MULTI V WATER 5 PWFCKN000 |  Discharge / Supply Air Control PAHCMS000 |
| ACU IO Module UIO |  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 PAHCMM000 |
| UO |  For Modbus PDRYCB500 / PDRYCB510 (w/o case) | Multi-tenant Power Module  PINPMB001 | Cool / Heat Selector  PRDSBM | Communication Module  PAHCMC000 |
| UI | Control Kit  PAHCNM000 (Max. 3 Outdoor Units) | | | |
| Water Communication Module  PAHCMW000 | | | | |
| EEV Kit (Electronic Expansion Valve) | | | | |
|  PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW) | | | | |
|  PRLK396A0 (~ 112 kW) | | | | |
|  PRLK594A0 (~ 168 kW) | | | | |

028 ~ 123

OUTDOOR UNITS

MULTI V *i*

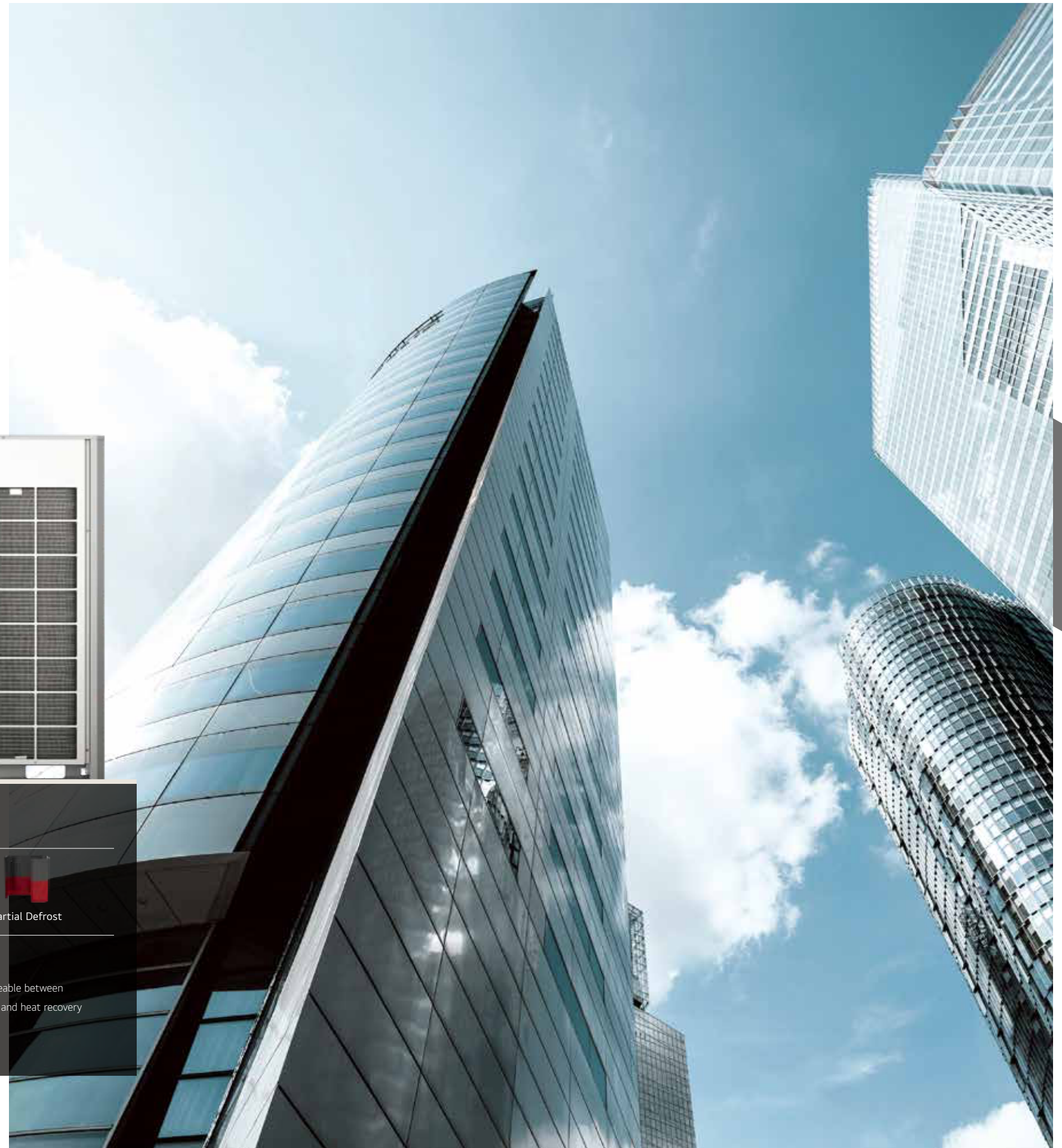
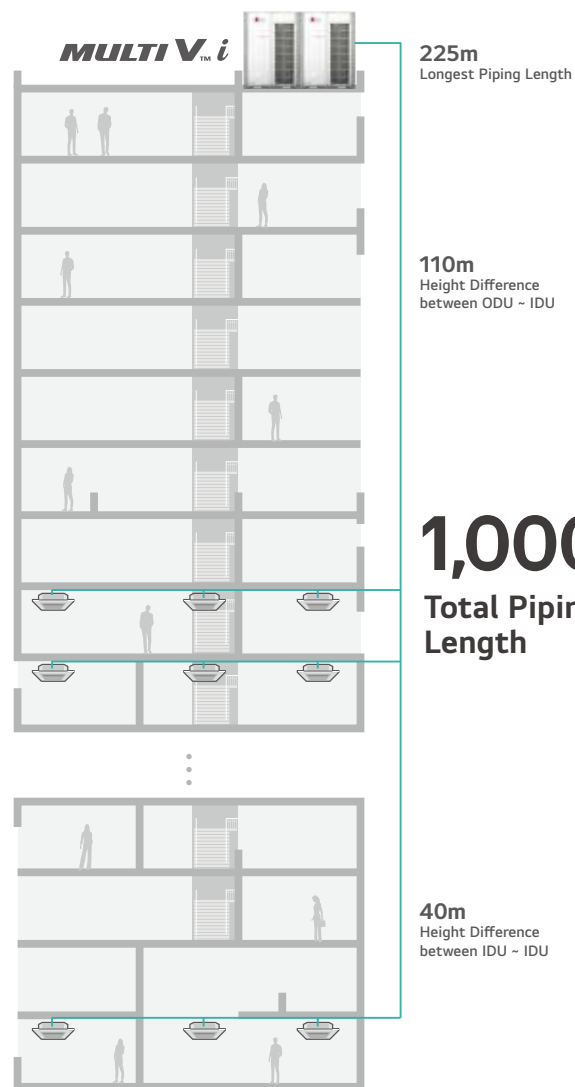
MULTI V S

MULTI V M

MULTI V WATER 5



MULTI VTM i



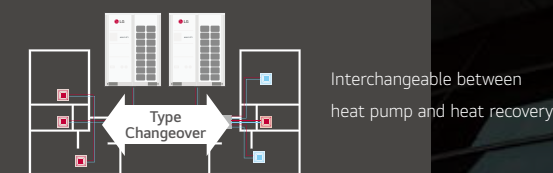
Highlights

- Energy savings
- Reliability
- Low noise
- Advanced performance

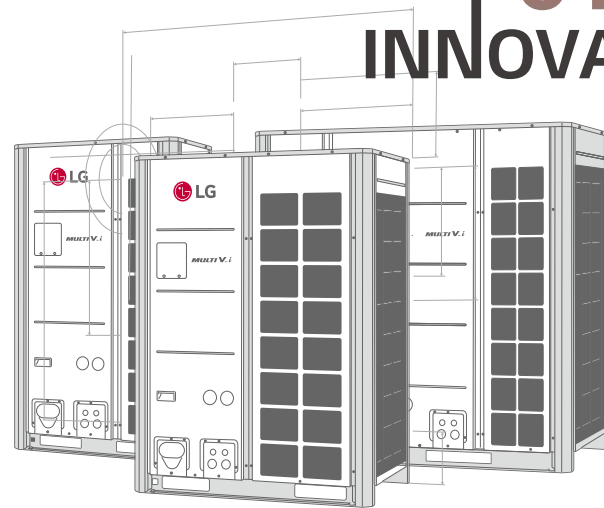
- Air-cooled VRF Heat Pump & Heat Recovery
- 22.4kW ~ 268.8kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Top discharge outdoor unit
- Ability to function as Heat Pump or Heat Recovery

How does it work?

- Dual Sensing
- Partial Defrost



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 / CO₂ 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.

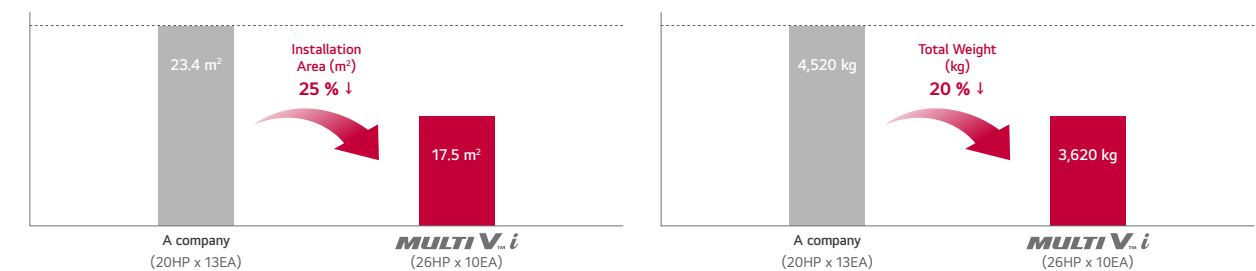


Compact Design with Larger Capacity

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

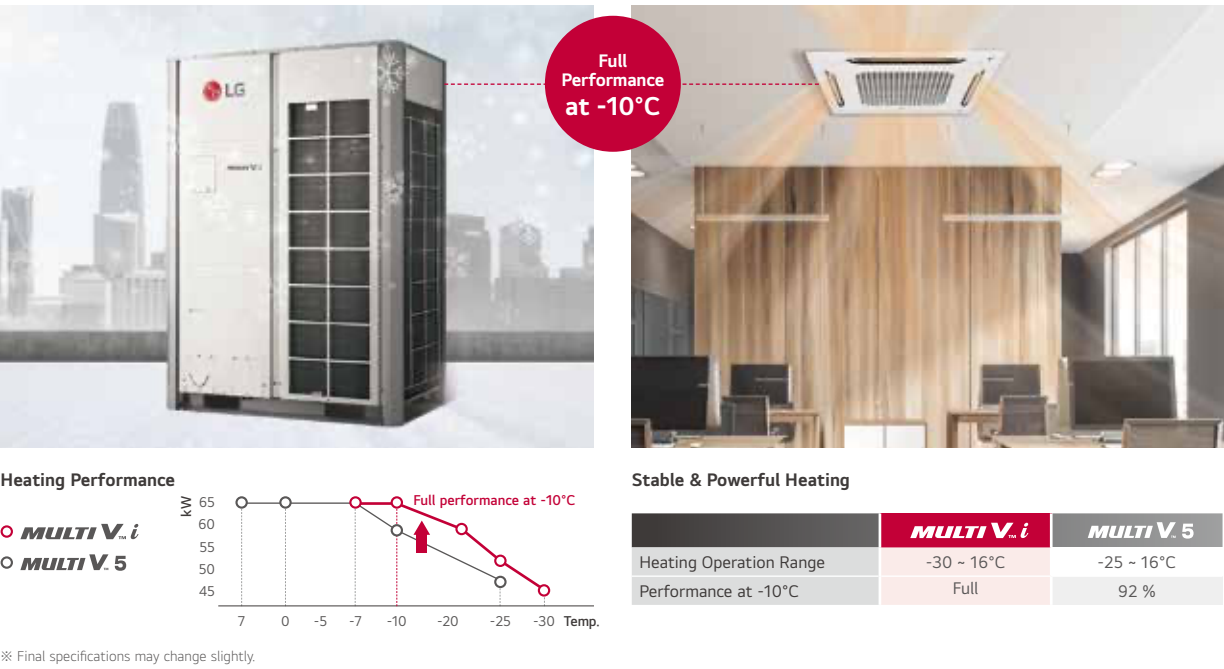
Reliable cooling operation up to 52°C, with full performance at 43°C. End users are able to enjoy comfortable indoor environments, even with extreme weather conditions outside.



※ 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.



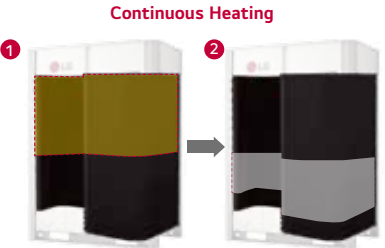
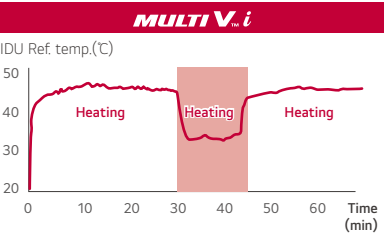
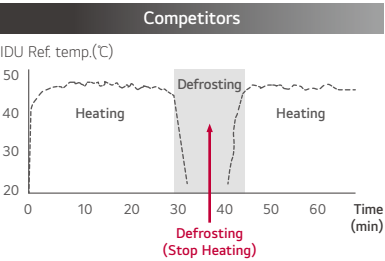
※ Final specifications may change slightly.

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% ↓



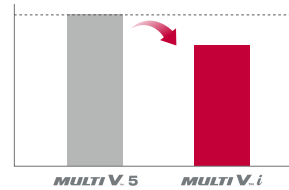
※ HEX: Heat Exchanger

Newly Designed Compact Fan

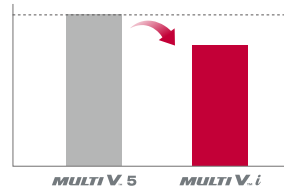
The design of a new biomimetic fan was inspired by nature. It brings more air volume and less noise with the same air flow rate compared to the conventional system.



Fan Noise Level
2.6dB Reduction

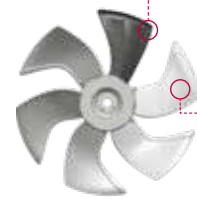


Fan Power Consumption
12% Reduction



NEW Designed Biomimetic Fan

The new biomimetic fan has 6 blades that can reduce noise level and power consumption.



Humpback Whale Design

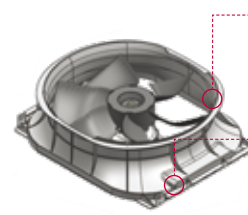


Clam Shell Pattern



Compact Aero-Design

With an optimal air flow, the noise level and power consumption is reduced.



NEW Compact Orifice



NEW Motor Mounted Design



※ 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

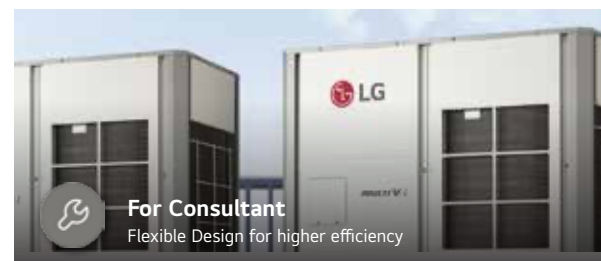
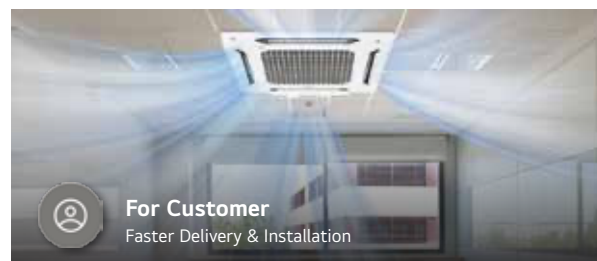


20HP 10HP

Flexible Combination



16HP 14HP



※ 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.

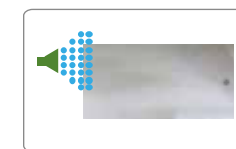
Corrosion Resistant

"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.



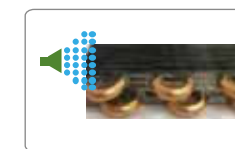
Fog¹⁾
(35°C, 24hr)



※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / (2,000 hours) (Last updated : Jul. 2022)

Salt Spray Test (SST) × Process repeated

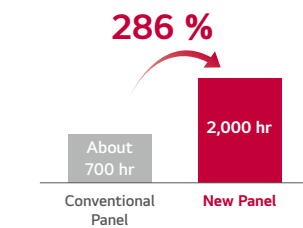
5% Area of defects compared to initial state.



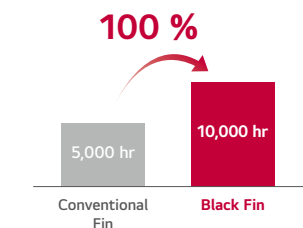
Fog¹⁾
(35°C, 24hr)



※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / ISO 9227 (5,000 hours →10,000 hrs.) (Last updated : Dec. 2020)



Test process is conducted according to ASTM B117
1) Salty water concentration : NaCl aqueous solution (5%)



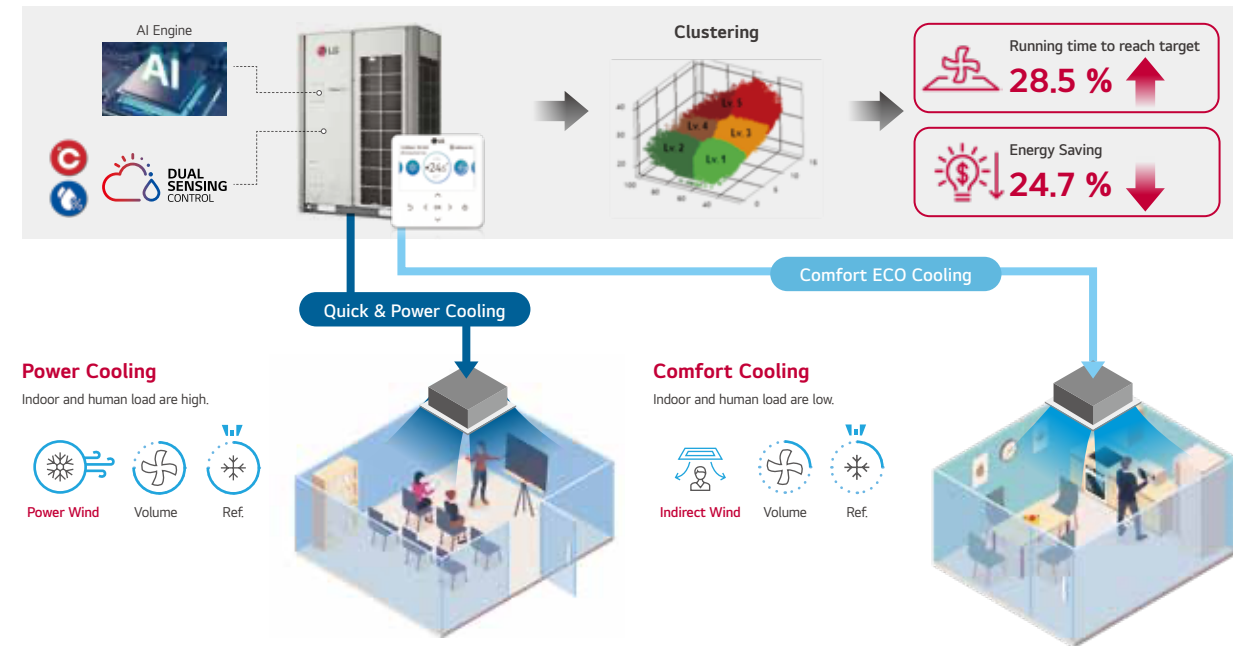
Test process is conducted according to ASTM B117.
1) Salty water concentration : NaCl aqueous solution (5%)

※ 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.

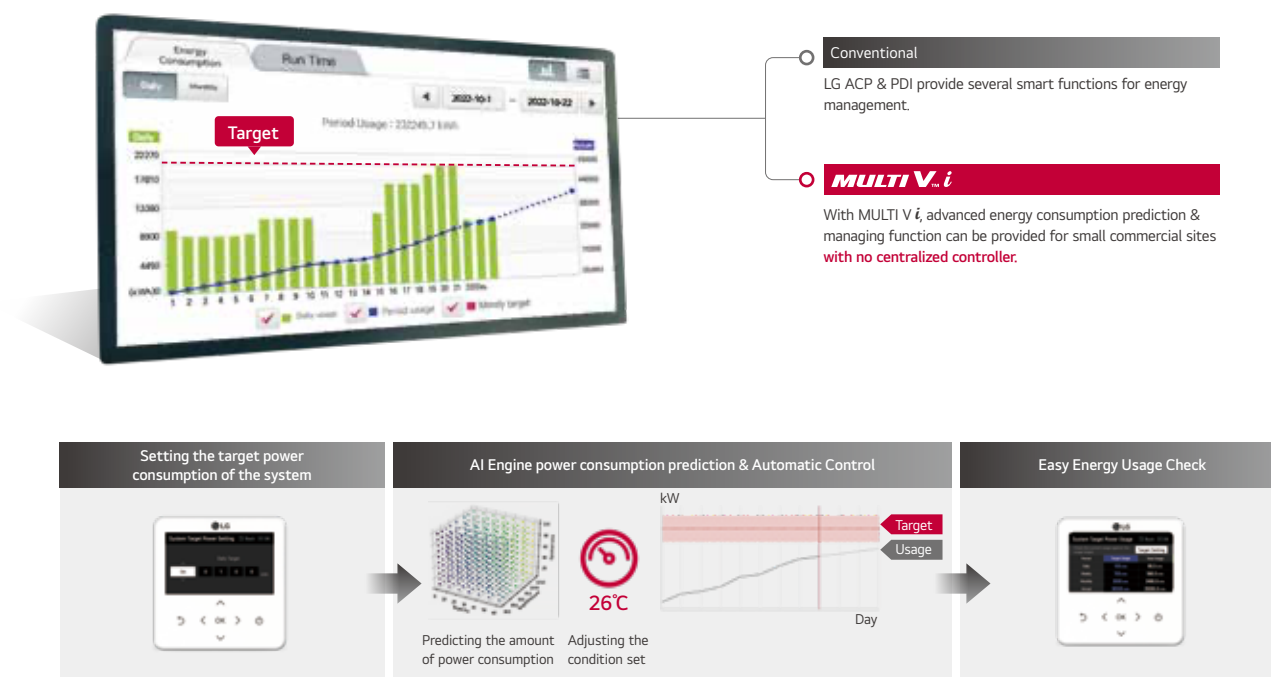
Data Collecting and Saving from IDU & ODU



※ 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

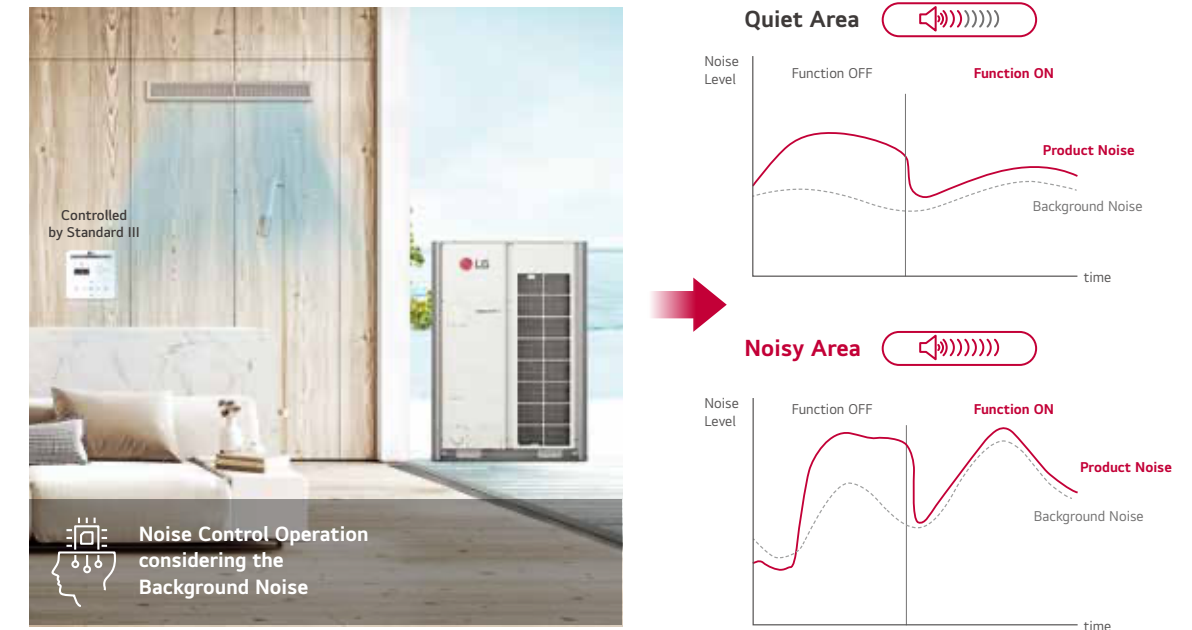
MULTI V *i* is able to preset monthly energy usage and consume power according to the target that has been previously set. By comparing and analyzing previous power consumption of the current month and planned daily energy usage, overuse of the HVAC system operational costs can be prevented by AI Energy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

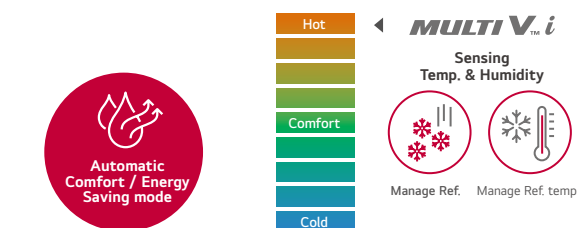
Noise Target Control

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

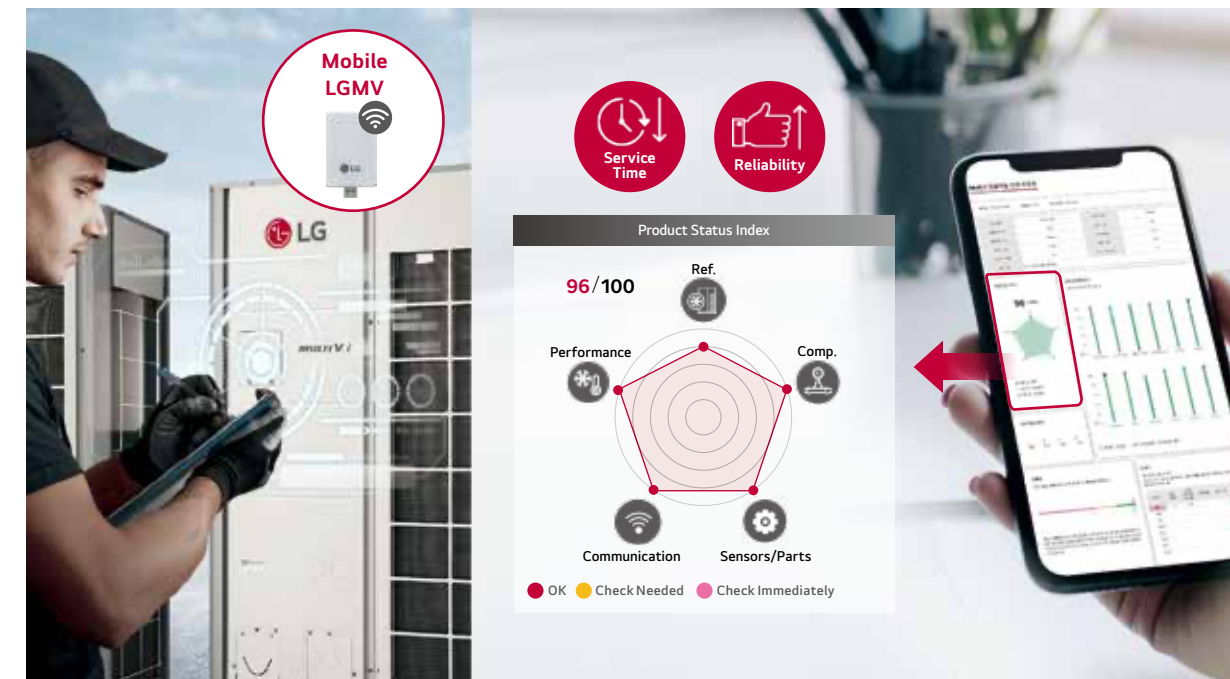
LG MULTI V *i* provides more comfort and convenience by checking ambient weather conditions.



※ Connecting with the AccuWeather is needed the ThinQ server.
 ※ 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.



※ 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.



※ 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

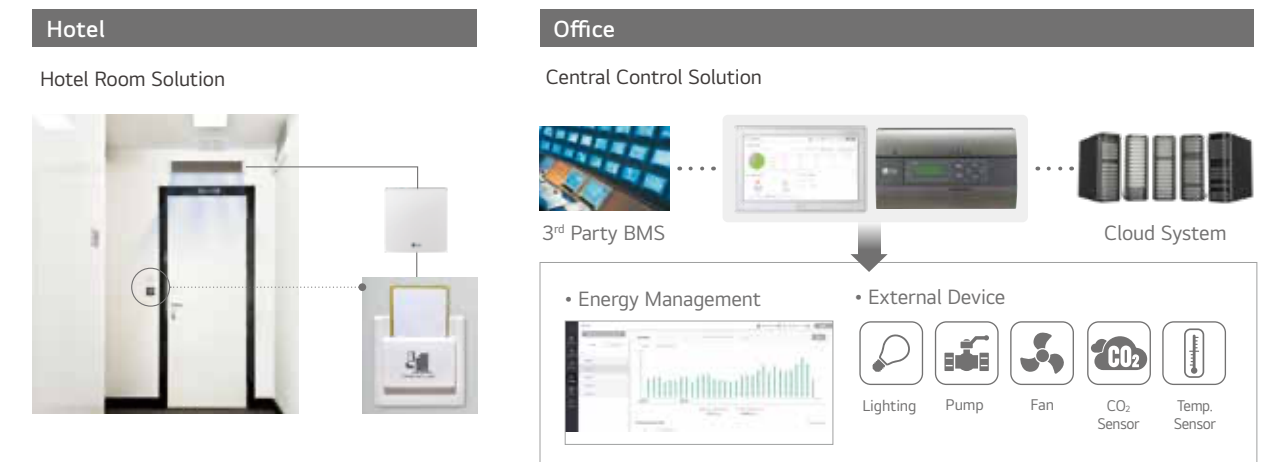
Like a smart phone, LG MULTI V *i* upgrades itself remotely! You can opt for the latest version of software immediately without on-site service



※ 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.






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.)



Features

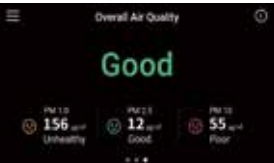
- Installation wizard
- Built-in Wi-Fi with ThinQ Capability
- Humidity / Proximity sensor
- Seven (7) Day Scheduling with Mode - Home / Away / Sleep / Awake
- Function Code search Tool

Full touch & Easy access



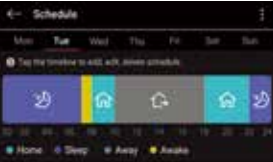
LG Deluxe has full touch LCD screen & slim design suitable for the residential application. In addition, user-oriented UX design enhances user convenience.

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.

Pre-set Schedule



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

Energy Navigation



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

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

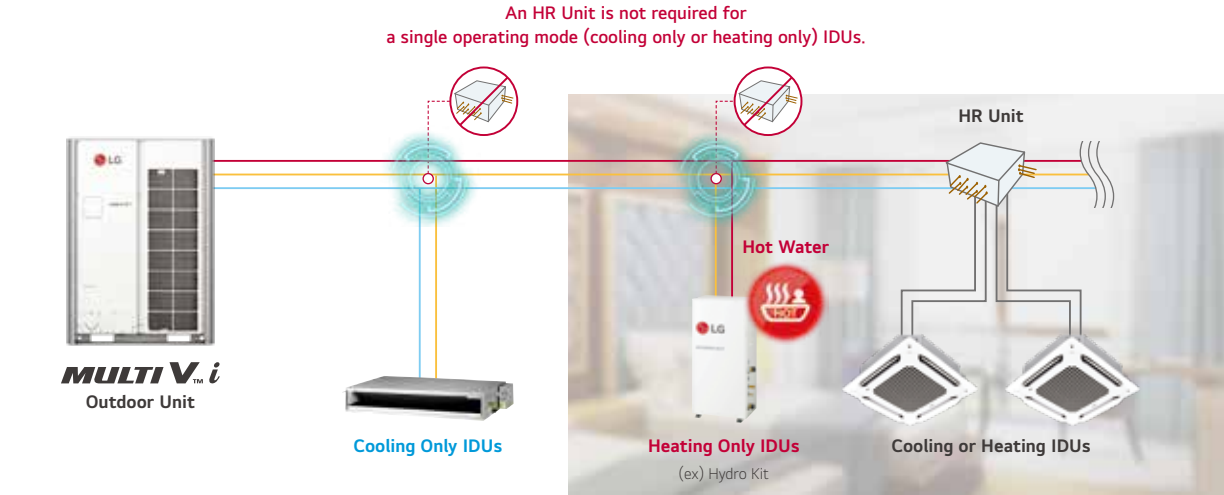


The installation wizard helps the customer set up the basic configurations (Date & Time, Language, Temperature unit etc.) easily during installation.

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)

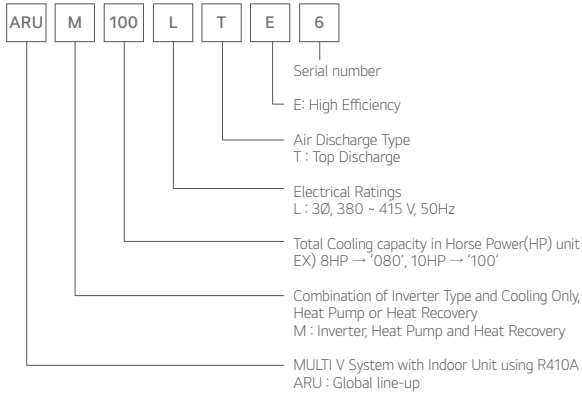
※ This function will be available within 1H, '24 (This function application schedule may be changed without notification).

AI Function Application

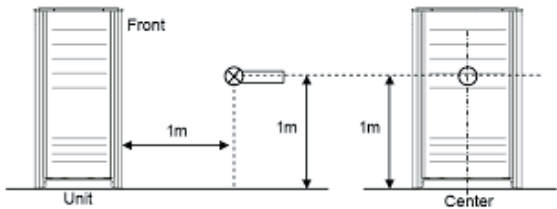
| Category | Sub Category | Tool | Application Date ¹⁾ (Based on MP) | AI Function (IDU) | | | | | | AI Function (ODU) | |
|-----------------------|-------------------|--------------|---|-------------------|----------------------|-------------------|----------------------|----------------------|----------------------------------|-------------------|------------------------|
| | | | | 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 | ● | ● | ● | ● | ● | ● | ● | ● |
| | Mini 4 Way | TQ / TR | available | ● | ● | ● | ● | ● | ● | ● | ● |
| Duct | Low Static | L4 / L5 / L6 | available | ● | X | ● | ● | ● | ● | ● | ● |
| | High Static | B8 | available | ● | X | ● | ● | ● | ● | ● | ● |
| | Mid Static | M1 / M2 / M3 | 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 $0\text{dB} = 20\mu\text{Pa}$.
- 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 in installed.

Outdoor Units Function

| Category | Functions | Value |
|-------------------|--|-------|
| Reliability | Defrost / Deicing | ○ |
| | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| | Restart Delay (3-minutes) | ○ |
| | Self Diagnosis | ○ |
| | Soft Start | ○ |
| Convenience | Compressor Balanced Operation | ○ |
| | 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 | ○ |

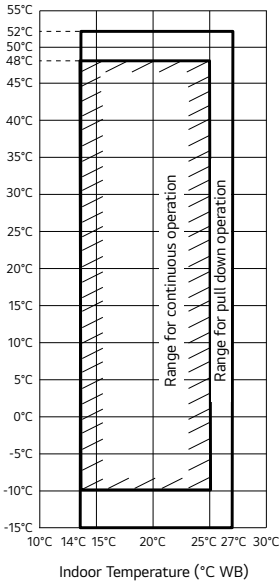
O : Applied, X : Not applied

- 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

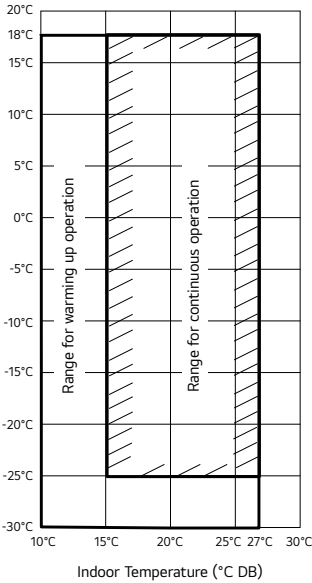
Cooling

Outdoor Temperature (°C DB)



Heating

Outdoor Temperature (°C WB)



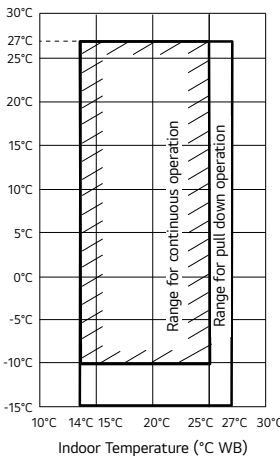
Note

1. These figures assume the following operating conditions
: Equivalent piping length is standard condition, and level differenc 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

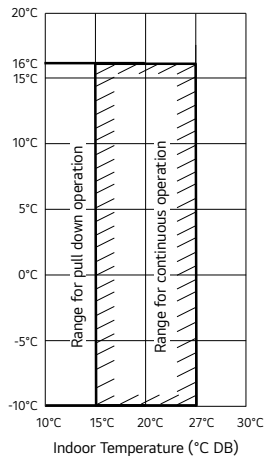
Cooling

Outdoor Temperature (°C DB)



Heating

Outdoor Temperature (°C WB)

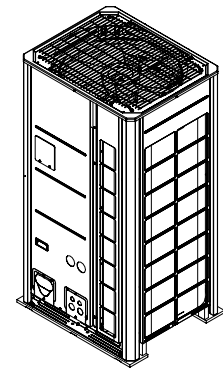


Note

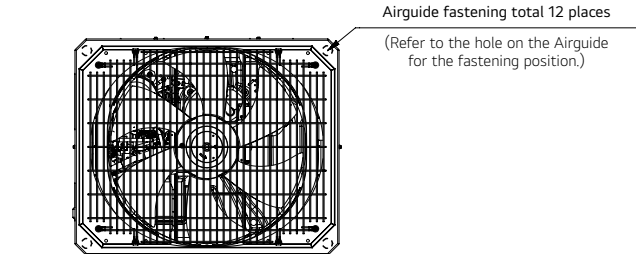
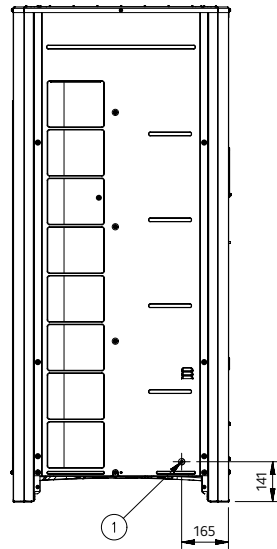
1. These figures assume the following operating conditions
: Equivalent piping length is standard condition, and level differenc is 0m.
2. Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
3. Warming up operation means 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

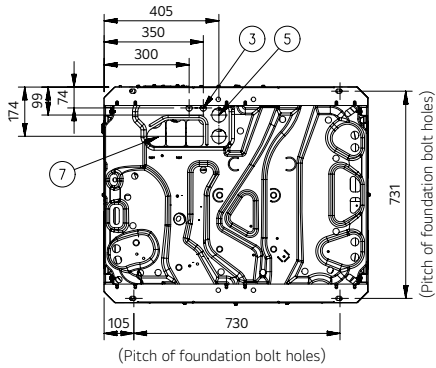
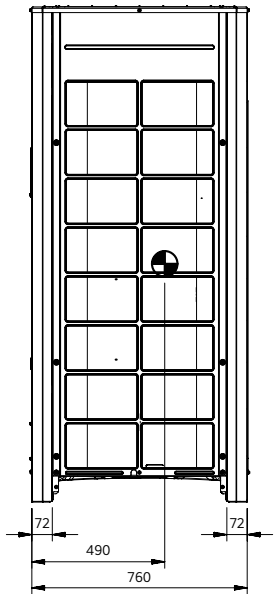
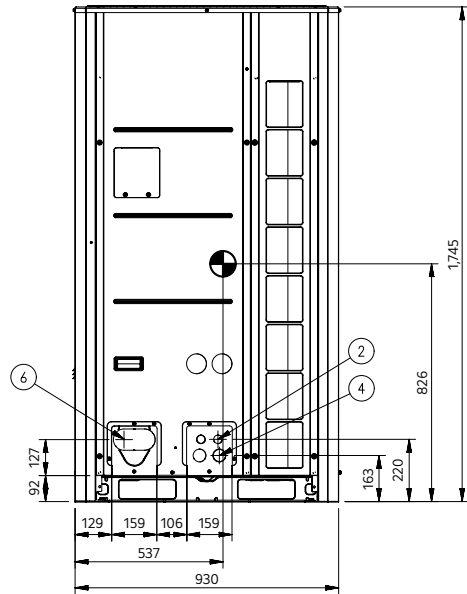
ARUM120LTE6



3D View



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



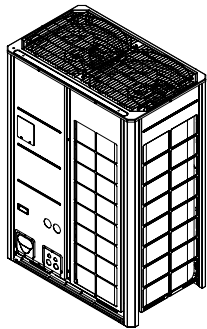
[Unit : mm]

| 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) | - |

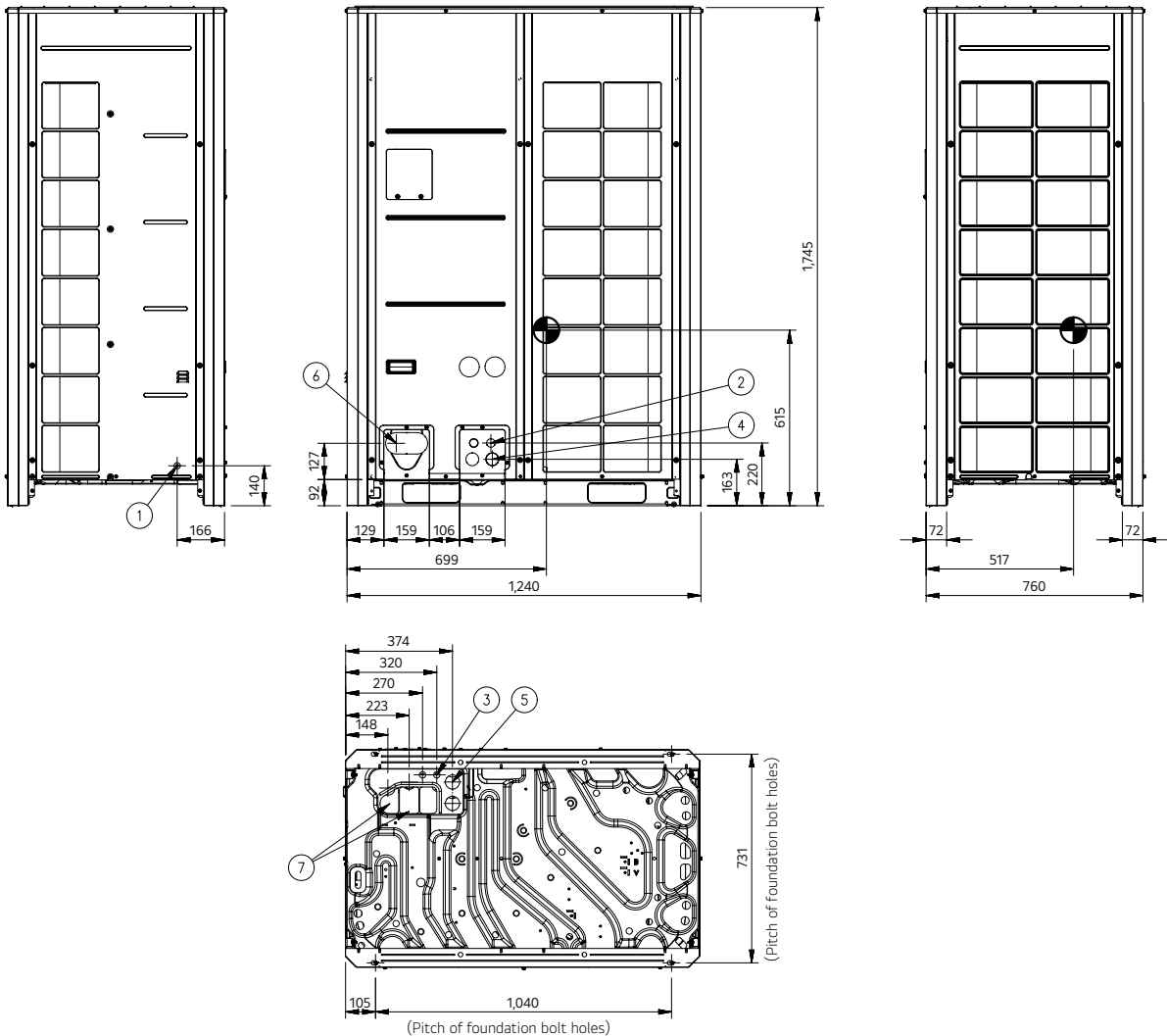
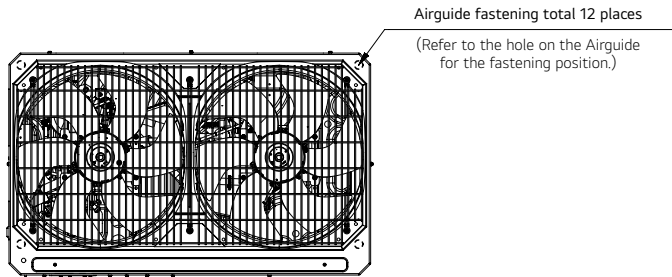
ARUM140LTE6 / ARUM160LTE6
ARUM180LTE6 / ARUM200LTE6

[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) | - |



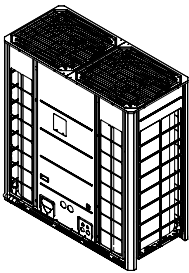
3D View



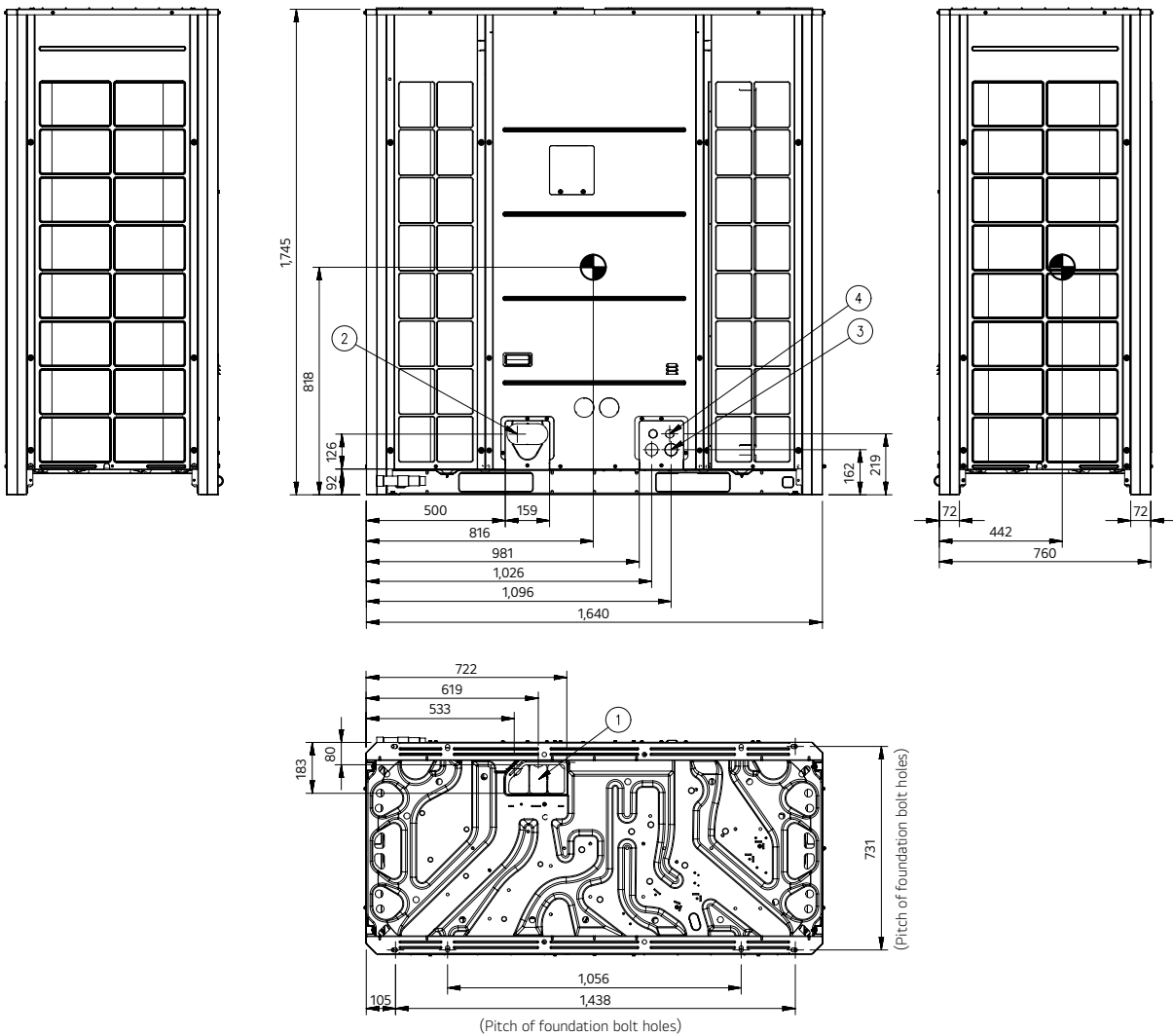
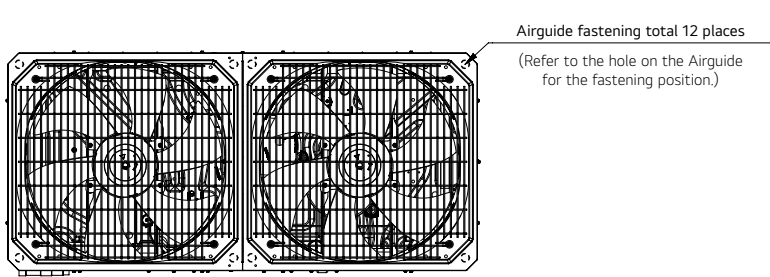
ARUM220LTE6 / ARUM240LTE6
ARUM260LTE6

[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



ARUM080LTE6 / ARUM100LTE6
ARUM120LTE6 / ARUM140LTE6



LG participates in the ECP programme for EUROVENT VRF program.
Check ongoing validity of certification : 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 |
| Heating Capacity | Rated | kW | 22.4 | 28.0 | 33.6 | 39.2 |
| | Max | kW | 25.2 | 31.5 | 37.8 | 44.1 |
| Power Input (Cooling) | Rated | kW | 6.10 | 8.33 | 11.65 | 11.88 |
| Power Input (Heating) | 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 |
| Outdoor Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Air Flow Rate (High) | m³/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 | cm³/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 |
| Dimensions | 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 |
| | 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 |
| Weight | Net | kg | 215 | 215 | 215 | 255 |
| | Shipping | kg | 225 | 225 | 225 | 265 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Precharged Amount | kg | 8.5 | 9.5 | 9.5 | 13.0 |
| | t-CO ₂ 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) |
| Sound Pressure Level* (Outdoor Unit) | Cooling | dB (A) | 57.0 | 57.5 | 59.0 | 60.0 |
| | 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) | mm² × 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 | 13 (20) | 16 (25) | 20 (30) | 23 (35) |

ARUM160LTE6 / ARUM180LTE6
ARUM200LTE6 / ARUM220LTE6



²⁾ LG participates in the ECP programme for EUROVENT VRF program.
Check ongoing validity of certification : 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 |
| Heating Capacity | Rated | kW | 44.8 | 50.4 | 56.0 | 61.6 |
| | Max | kW | 50.4 | 56.7 | 63.0 | 69.3 |
| Power Input (Cooling) | Rated | kW | 15.45 | 14.39 | 17.54 | 22.00 |
| Power Input (Heating) | 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 |
| Outdoor Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Air Flow Rate (High) | m³/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 | cm³/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 |
| Dimensions | 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 |
| | 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 |
| Weight | Net | kg | 255 | 300 | 300 | 362 |
| | Shipping | kg | 265 | 310 | 310 | 372 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Precharged Amount | kg | 13.0 | 16.0 | 16.0 | 16.0 |
| | t-CO ₂ 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) |
| Sound Pressure Level* (Outdoor Unit) | Cooling | dB (A) | 60.5 | 61.0 | 62.0 | 64.0 |
| | 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) | mm² × 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 | 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 |
| 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) | m³/min x No. | 430 x 1 | 430 x 1 | (320 × 1) + (220 × 1) | (320 × 1) + (220 × 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 × 2) + (1,200 × 1) | (900 × 2) + (1,200 × 1) |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/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 |
| Dimensions | 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) |
| | 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 | Net | kg | 362 | 362 | (255 × 1) + (215 × 1) | (300 × 1) + (215 × 1) |
| | Shipping | kg | 372 | 372 | (265 × 1) + (225 × 1) | (310 × 1) + (225 × 1) |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Precharged Amount | kg | 16.0 | 16.0 | 22.5 | 25.5 |
| | t-CO ₂ 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 | 63.1 |
| | Heating | dB (A) | 66.0 | 66.5 | 63.8 | 64.1 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 85.0 | 89.0 | 86.2 | 86.2 |
| | Heating | dB (A) | 88.0 | 89.0 | 86.8 | 87.5 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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) | 49 (60) |

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

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 |
| 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) | m³/min x No. | (320 × 1) + (220 × 1) | (320 × 1) + (320 × 1) | (320 × 1) + (320 × 1) | (320 × 1) + (320 × 1) |
| | Discharge direction (Side / Top) | | Top | Top | Top | Top |
| Outdoor Fan Motor | Drive | | Direct | Direct | Direct | Direct |
| | Output | W x No. | (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 | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/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 |
| 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 2 | (1,240 x 1,745 x 760) x 2 | (1,240 x 1,745 x 760) x 2 |
| | 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 | Net | kg | (300 × 1) + (215 × 1) | (300 × 1) + (255 × 1) | (300 × 1) + (255 × 1) | (300 × 1) + (300 × 1) |
| | Shipping | kg | (310 × 1) + (225 × 1) | (310 × 1) + (265 × 1) | (310 × 1) + (265 × 1) | (310 × 1) + (310 × 1) |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Precharged Amount | kg | 25.5 | 29.0 | 29.0 | 32.0 |
| | t-CO ₂ 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 | 64.5 |
| | Heating | dB (A) | 65.1 | 65.4 | 65.6 | 65.8 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 87.0 | 87.2 | 88.5 | 88.5 |
| | Heating | dB (A) | 89.8 | 89.6 | 90.5 | 90.8 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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) | 61 (64) |

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

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 |
| 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) | m³/min x No. | (320 × 1) + (320 × 1) | (430 × 1) + (320 × 1) | (430 × 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) | (1,500 × 2) + (900 × 2) | (1,500 × 2) + (900 × 2) |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/rev | 62.1 x 4 | 62.1 x 4 | 62.1 x 4 |
| | Number of Revolution | rev./min | 3,600 x 4 | 3,600 x 4 | 3,600 x 4 |
| | Motor Output | W x No. | 5,300 x 4 | 5,300 x 4 | 5,300 x 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 x 1,745 x 760) x 2 | ((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 1) | ((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 1) |
| | Shipping (W x H x D) | mm | (1,282 x 1,919 x 802) x 2 | ((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 1) | ((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 1) |
| Weight | Net | kg | (300 × 1) + (300 × 1) | (362 × 1) + (300 × 1) | (372 × 1) + (310 × 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 ₂ 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 (VCTF-SB) | Communication Cable | mm² × 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%.

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 |
| 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) | m³/min x No. | (430 × 1) + (430 × 1) | (430 × 1) + (430 × 1) | (320 × 1) + (320 × 1) + (220 × 1) |
| | Discharge direction (Side / Top) | | Top | Top | Top |
| Outdoor Fan Motor | Drive | | Direct | Direct | Direct |
| | Output | W x No. | (1,500 × 2) + (1,500 × 2) | (1,500 × 2) + (1,500 × 2) | (900 × 2) + (900 × 2) + (1,200 × 1) |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/rev | 62.1 x 4 | 62.1 x 4 | 62.1 x 5 |
| | Number of Revolution | rev./min | 3,600 x 4 | 3,600 x 4 | 3,600 x 5 |
| | Motor Output | W x No. | 5,300 x 4 | 5,300 x 4 | 5,300 x 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 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) + ((930 x 1,745 x 760) x 1) |
| | Shipping (W x H x D) | mm | (1,675 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) + ((965 x 1,919 x 802) x 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 ₂ 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 (VCTF-SB) | Communication Cable | mm² × 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%.

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 | 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) | m³/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 | cm³/rev | 62.1 x 5 | 62.1 x 5 | 62.1 x 5 |
| | Number of Revolution | rev./min | 3,600 x 5 | 3,600 x 5 | 3,600 x 5 |
| | Motor Output | W x No. | 5,300 x 5 | 5,300 x 5 | 5,300 x 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 | ((1,240 x 1,745 x 760) x 2) + ((930 x 1,745 x 760) x 1) | (1,240 x 1,745 x 760) x 3 | (1,240 x 1,745 x 760) x 3 |
| | Shipping (W x H x D) | mm | ((1,282 x 1,919 x 802) x 2) + ((965 x 1,919 x 802) x 1) | (1,282 x 1,919 x 802) x 3 | (1,282 x 1,919 x 802) x 3 |
| 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 ₂ 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) | mm² × 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%.

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 | 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) | m³/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 | cm³/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 |
| 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 3 | (1,240 x 1,745 x 760) x 3 | ((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 2) |
| | Shipping (W x H x D) | mm | (1,282 x 1,919 x 802) x 3 | (1,282 x 1,919 x 802) x 3 | ((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 2) |
| 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 ₂ 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) | mm² × 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%.

ARUM640LTE6 / ARUM660LTE6
ARUM680LTE6



| 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 | | | | |
| Heating Capacity | Rated | kW | 179.2 | 184.8 | 190.4 |
| | Max | kW | 201.6 | 207.9 | 214.2 |
| Power Input (Cooling) | Rated | kW | 61.23 | 65.69 | 69.84 |
| Power Input (Heating) | Rated | kW | 43.89 | 47.21 | 49.86 |
| 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) | m³/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 |
| 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) |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/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 |
| 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 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) |
| | 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) |
| Weight | 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) |
| | 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) |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Precharged Amount | kg | 48.0 | 48.0 | 48.0 |
| | t-CO ₂ eq. | | 100.200 | 100.200 | 100.200 |
| | 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) | 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) |
| | High Pressure Gas (Heat Recovery) | mm (inch) | Ø34.90 (1-3/8) | Ø41.30 (1-5/8) | Ø41.30 (1-5/8) |
| Sound Pressure Level (Outdoor Unit) | Cooling | dB (A) | 68.0 | 68.6 | 69.0 |
| | Heating | dB (A) | 69.3 | 70.1 | 70.1 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 90.5 | 89.8 | 90.1 |
| | Heating | dB (A) | 93.5 | 93.1 | 93.1 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² 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%.

ARUM700LTE6 / ARUM720LTE6
ARUM740LTE6



| 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 | | | | |
| Heating Capacity | Rated | kW | 196.0 | 201.6 | 207.2 |
| | Max | kW | 220.5 | 226.8 | 233.1 |
| Power Input (Cooling) | Rated | kW | 61.12 | 64.27 | 64.50 |
| Power Input (Heating) | Rated | kW | 43.64 | 45.69 | 46.35 |
| 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) | m³/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) + (320 x 1) |
| Outdoor Fan Motor | Discharge direction (Side / Top) | | Top | Top | Top |
| | Drive | | Direct | Direct | Direct |
| 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) |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Piston Displacement | cm³/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 |
| 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 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 |
| | 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 |
| Weight | 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) |
| | 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) |
| Refrigerant | Type | | R410A | R410A | R410A |
| | Precharged Amount | kg | 57.5 | 57.5 | 61.0 |
| | t-CO ₂ eq. | | 120.031 | 120.031 | 127.338 |
| | 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) | 67.2 | 67.4 | 67.6 |
| | Heating | dB (A) | 68.5 | 68.9 | 69.0 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 90.8 | 91.1 | 91.2 |
| | Heating | dB (A) | 93.3 | 94.1 | 94.0 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² 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 |
| | | | ARUM200LTE6 | ARUM200LTE6 | 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 | 224.0 |
| Capacity | Max | kW | 239.4 | 245.7 | 252.0 |
| Power Input (Cooling) | Rated | kW | 68.07 | 67.01 | 70.16 |
| 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) | m³/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) |
| | 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) + (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 | cm³/rev | 62.1 x 7 | 62.1 x 8 | 62.1 x 8 |
| | Number of Revolution | rev./min | 3,600 x 7 | 3,600 x 8 | 3,600 x 8 |
| | Motor Output | W x No. | 5,300 x 7 | 5,300 x 8 | 5,300 x 8 |
| | 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) 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 ₂ 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 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 69.1 | 69.2 | 69.5 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 91.8 | 91.8 | 92.0 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 94.3 | 94.4 | 95.0 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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 |
| | | | ARUM240LTE6 | ARUM240LTE6 |
| | | | ARUM200LTE6 | ARUM200LTE6 |
| 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 | 235.2 |
| Capacity | Max | kW | 258.3 | 264.6 |
| Power Input (Cooling) | Rated | kW | 81.72 | 85.29 |
| 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) | m³/min x No. | (430 × 1) + (430 × 1) + (320 × 1) + (320 × 1) | (430 × 1) + (430 × 1) + (320 × 1) + (320 × 1) |
| | Discharge direction (Side / Top) | | Top | Top |
| Outdoor Fan Motor | Drive | | Direct | Direct |
| Motor | 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 |
| Compressor | Piston Displacement | cm³/rev | 62.1 x 7 | 62.1 x 7 |
| | Number of Revolution | rev./min | 3,600 x 7 | 3,600 x 7 |
| | Motor Output | W x No. | 5,300 x 7 | 5,300 x 7 |
| | 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 × 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 ₂ 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 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 70.6 | 70.6 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 90.6 | 91.3 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 93.4 | 93.8 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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 |
| | | | ARUM240LTE6 | ARUM240LTE6 |
| Power Supply | V / Ø / Hz | | ARUM200LTE6 | ARUM200LTE6 |
| | | | ARUM180LTE6 | ARUM200LTE6 |
| Cooling Capacity | Rated | kW | 380-415 / 3 / 50 | 380-415 / 3 / 50 |
| Heating Capacity | Rated | kW | 240.8 | 246.4 |
| Capacity | Max | kW | 240.8 | 246.4 |
| Power Input (Cooling) | Rated | kW | 270.9 | 277.2 |
| Power Input (Heating) | Rated | kW | 84.23 | 87.38 |
| Efficiency | | | 60.45 | 62.50 |
| | 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) | m³/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 | cm³/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 |
| Heat Exchanger | Oil Type | | FW68L (PVE) | FW68L (PVE) |
| Dimensions | Fin Type | | Wide Louver Plus | Wide Louver Plus |
| | 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 ₂ 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 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 70.7 | 70.9 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 91.3 | 91.5 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 93.9 | 94.5 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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 |
| | | | ARUM240LTE6 | ARUM240LTE6 |
| Power Supply | V / Ø / Hz | | ARUM220LTE6 | ARUM220LTE6 |
| | | | ARUM200LTE6 | ARUM200LTE6 |
| Cooling Capacity | Rated | kW | 380-415 / 3 / 50 | 380-415 / 3 / 50 |
| Heating Capacity | Rated | kW | 252.0 | 257.6 |
| Capacity | Max | kW | 252.0 | 257.6 |
| Power Input (Cooling) | Rated | kW | 283.5 | 289.8 |
| Power Input (Heating) | Rated | kW | 91.84 | 96.30 |
| Efficiency | | | 65.82 | 69.14 |
| | 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) | m³/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 | cm³/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 |
| Heat Exchanger | Oil Type | | FW68L (PVE) | FW68L (PVE) |
| Dimensions | Fin Type | | Wide Louver Plus | Wide Louver Plus |
| | 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 ₂ 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 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 71.5 | 72.0 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 91.1 | 90.5 |
| Sound Power Level (Outdoor Unit) | Heating | dB (A) | 94.3 | 94.0 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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 |
| 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) | m³/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 | cm³/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 |
| 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 4 | (1,640 x 1,745 x 760) x 4 |
| | 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 |
| Weight | 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) |
| | 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) |
| Refrigerant | Type | | R410A | R410A |
| | Precharged Amount | kg | 64.0 | 64.0 |
| | t-CO ₂ 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) | 70.8 | 71.0 |
| | Heating | dB (A) | 72.0 | 72.0 |
| Sound Power Level (Outdoor Unit) | Cooling | dB (A) | 90.8 | 91.0 |
| | Heating | dB (A) | 94.0 | 94.0 |
| Connecting Cable | Communication Cable (VCTF-SB) | mm² × 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

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 in 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.

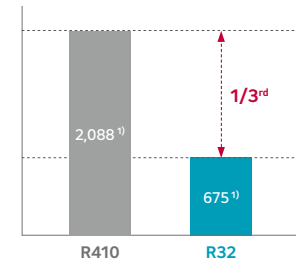
7. This product contains Fluorinated greenhouse gas. (R410A, GWP (Global warming potential) = 2,087.5)

MULTI V™ i R32

Highlight of the R32 Refrigerant

Low GWP

- More eco-friendly refrigerant compliant with regulation



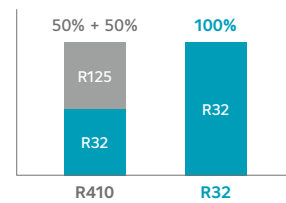
※ More precaution should be needed to use R32 refrigerant due to slightly higher toxicity level.

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.

Single Component

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



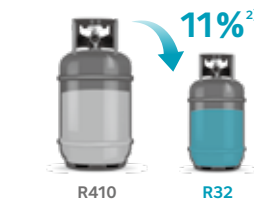
High Volumetric Energy

- Lower compressor displacement



Less Refrigerant Charge

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



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.



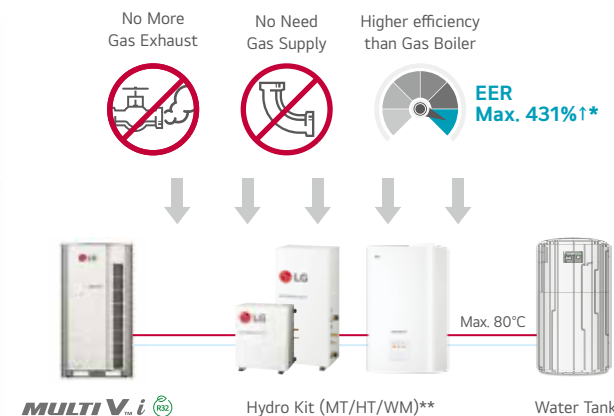
※ The information is based on Product Data Book.

(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

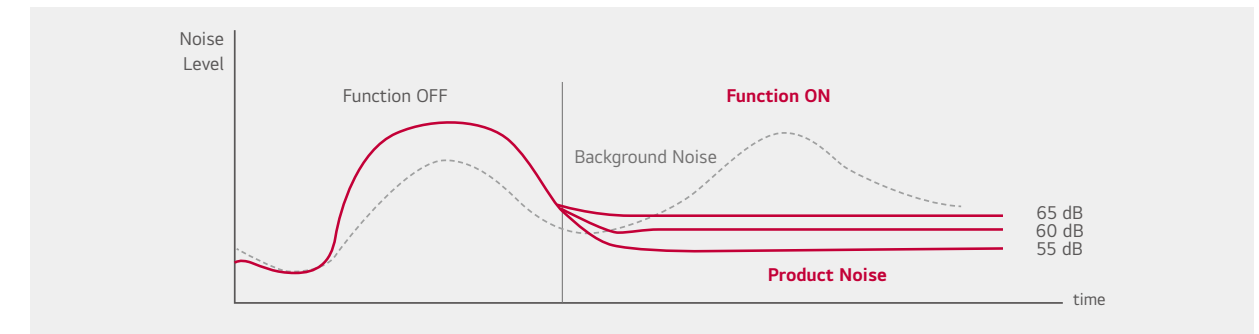
The outdoor unit noise can be restricted by the set noise level in advance. The function helps you to enjoy the comfortable conditions, avoid noise damage to neighbors and follow the local noise regulations.



Controlled by a Remote Controller



Available Setting
50 / 55 / 60 / 65 / 70 dB



※ 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.

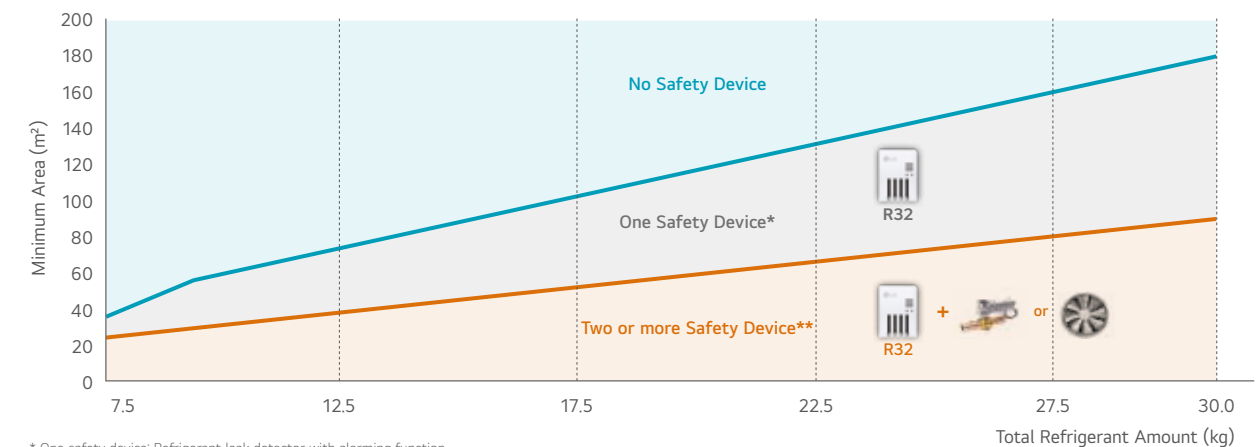
R32 Indoor Unit Design Guide

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

| | 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 |
| Heating Capacity | Rated | kW | 22.4 | 28.0 | 33.6 |
| | Max | kW | 25.2 | 31.5 | 37.8 |
| 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) | m³/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 | cm³/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 |
| Dimensions | 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 |
| | 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 |
| Weight | Net | kg | 215 | 215 | 215 |
| | Shipping | kg | 225 | 225 | 225 |
| Refrigerant | Type | | R32 | R32 | R32 |
| | Precharged Amount | kg | 7.5 | 8.5 | 8.5 |
| | t-CO ₂ 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) | mm² × 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

| | 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 |
| Heating Capacity | Rated | kW | 39.2 | 44.8 | 50.4 |
| | Max | kW | 44.1 | 50.4 | 56.7 |
| 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) | m³/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 | cm³/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 |
| Dimensions | 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 |
| | 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 |
| Weight | Net | kg | 255 | 255 | 300 |
| | Shipping | kg | 265 | 265 | 310 |
| Refrigerant | Type | | R32 | R32 | R32 |
| | Precharged Amount | kg | 11.4 | 11.4 | 14 |
| | t-CO ₂ 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) | mm² × 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.

ZRUM200LTE6 / ZRUM220LTE6
ZRUM240LTE6



¹⁾ LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

| | | | MODEL | UNIT | ZRUM200LTE6 | ZRUM220LTE6 | ZRUM240LTE6 |
|--------------------------------------|-----------------------------------|--------------|----------------------------|------|-------------|----------------------------|--|
| Classification | Chassis | | UXB | | | UXA + UXA | UXB + UXA |
| | Combination Unit | | ZRUM200LTE6 | | | ZRUM120LTE6 ZRUM100LTE6 | ZRUM140LTE6 ZRUM100LTE6 |
| 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 |
| 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) | m³/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 | cm³/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 ₂ 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) | mm (inch) | Ø28.58 (1-1/8) | | | Ø28.58 (1-1/8) | Ø28.58 (1-1/8) |
| | High Pressure Gas (Heat Recovery) | mm (inch) | Ø22.2 (7/8) | | | Ø22.2 (7/8) | Ø22.2 (7/8) |
| 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) | mm² 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
¹⁾ Applying to 20HP outdoor units only.
Note :
1. Due to our policy of innovation some specifications may be changed without notification.

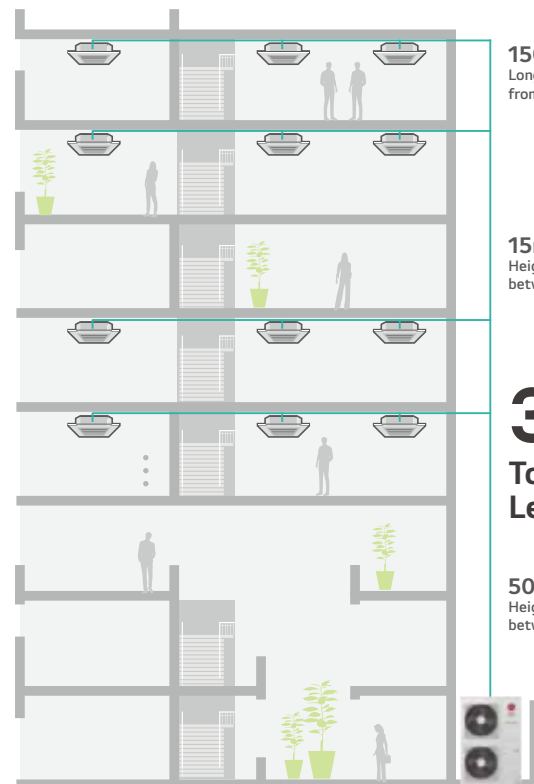
ZRUM260LTE6 / ZRUM280LTE6



| | | | MODEL | UNIT | ZRUM260LTE6 | ZRUM280LTE6 |
|-------------------------------------|-----------------------------------|--------------|--|------|-------------|--|
| Classification | Chassis | | UXB + UXA | | | UXB + UXA |
| | Combination Unit | | ZRUM140LTE6 ZRUM120LTE6 | | | ZRUM160LTE6 ZRUM120LTE6 |
| Power Supply | V / Ø / Hz | | 380-415 / 3 / 50 | | | 380-415 / 3 / 50 |
| Cooling Capacity | Rated | kW | 72.8 | | | 78.4 |
| 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) | m³/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 | cm³/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 ₂ 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) | mm (inch) | Ø28.58 (1-1/8) | | | Ø28.58 (1-1/8) |
| | High Pressure Gas (Heat Recovery) | mm (inch) | Ø22.2 (7/8) | | | Ø22.2 (7/8) |
| 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) | mm² 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 VTM S



Highlights



Energy
savings



Reliability

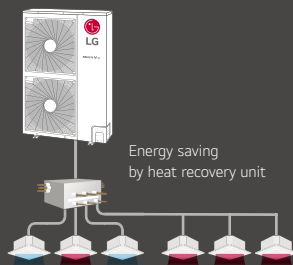


Convenience

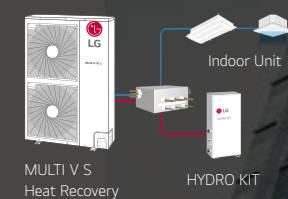
- Air cooled VRF Heat pump & Heat Recovery
- 9.0 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge

How does it work?

Available in Heat Pump and
Heat Recovery Models



Combination of Cooling, Heating
and Hot Water Solution

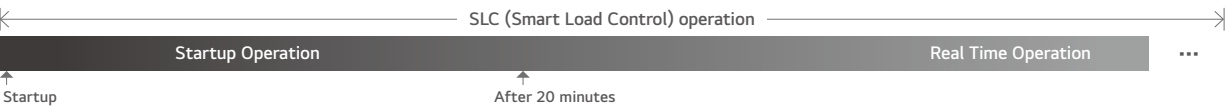


※ Heat Pump and Recovery are separated models.

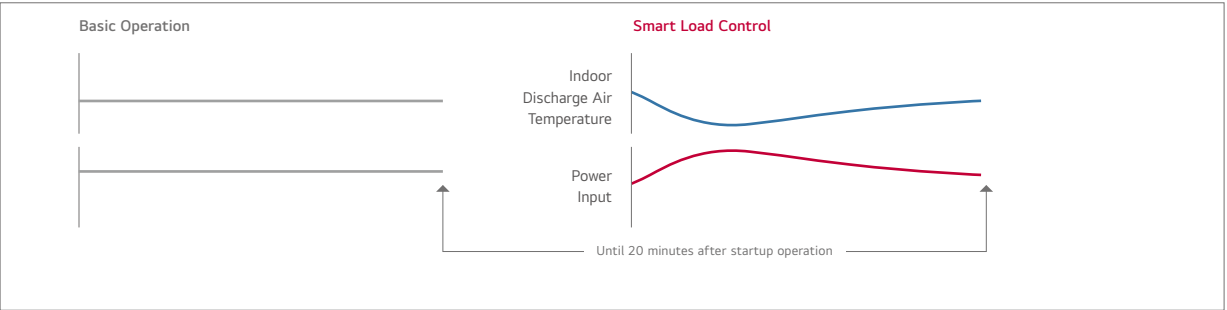
Smart Load Control Applied

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

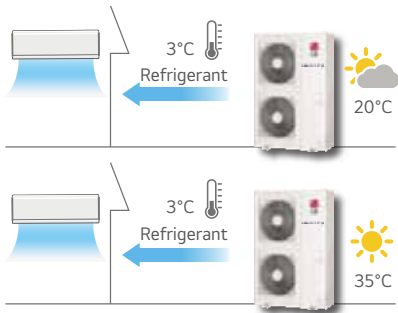


Max 10% Energy saving

※ 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

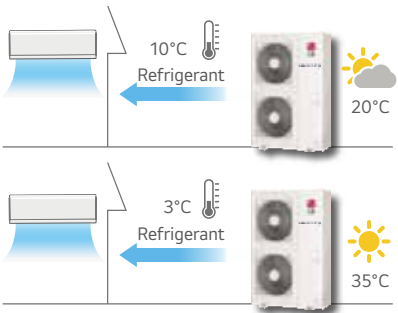
Real Time Operation

Basic Operation



Fixed refrigerant temperature

Smart Load Control



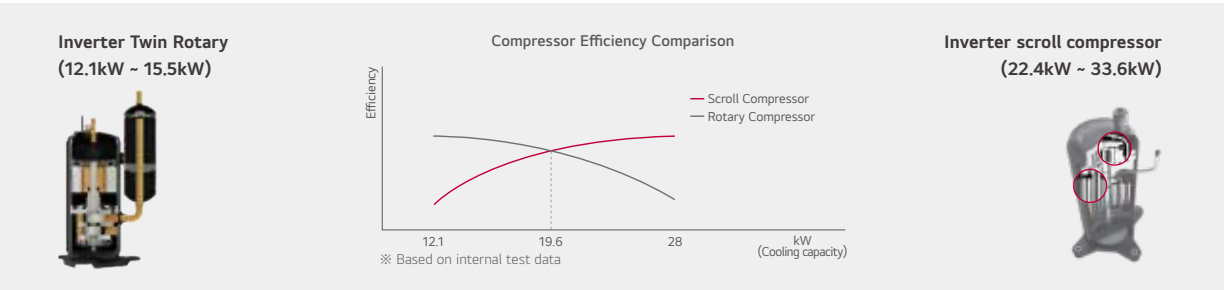
Fixed refrigerant temperature

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
PTMTB100 (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

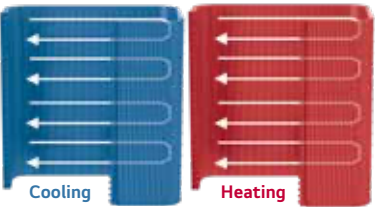
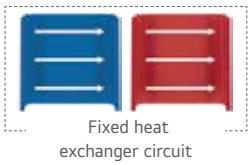
Scroll Profile

- 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

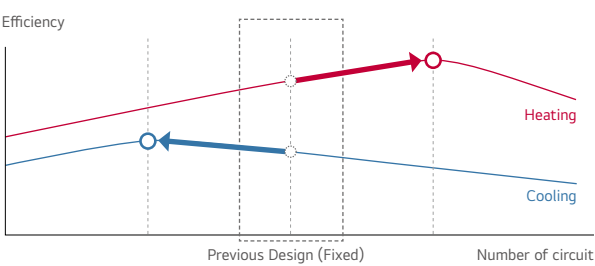
Optimal Heat Exchanger

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.

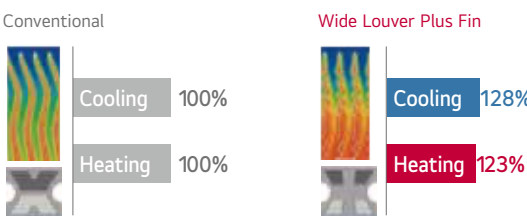


Efficiency performance



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 5th generation inverter scroll compressor

* Only for 8, 10, 12HP

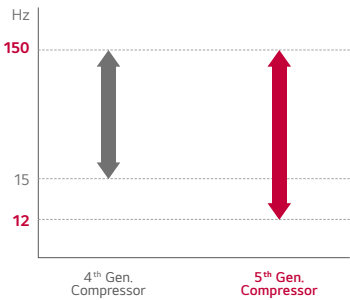


5th Gen. Compressor

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 5th Gen. Compressor is about 5% higher than that of the 4th Gen. Compressor.

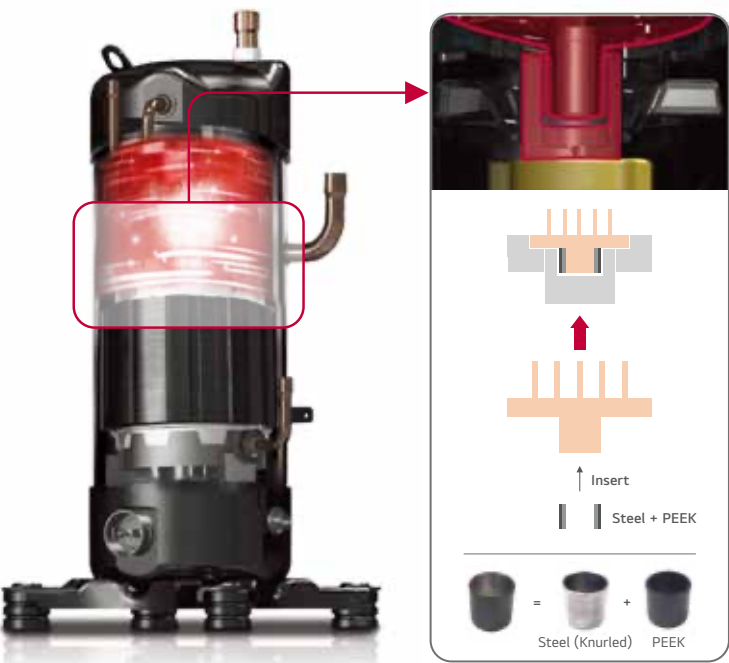
| Inverter Scroll Compressor | | 4 th gen. | 5 th gen. |
|----------------------------|------------------|----------------------|----------------------|
| Performance | CHEER Conditions | 30 Hz | 100% |
| | | 60 Hz | 105% |
| | ARI Conditions | 90 Hz | 104% |
| | | 120 Hz | 108% |

※ 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 5th generation compressor which has an outer bearing structure for high reliability. And the outer bearing is composed of steel and PEEK.

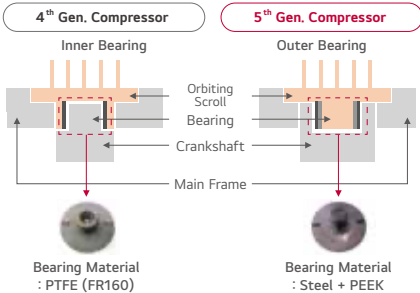
* Only for 8, 10, 12HP



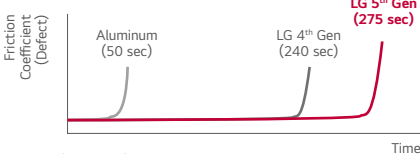
* PEEK : Polyether Ether Ketone

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



Comparison of oil-free operation time



※ 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

MULTI V S improved reliability with advanced technology :

- Oil separator
- Accumulator
- Sub-cooling

① Cyclonic oil separator

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

② Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (38% 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

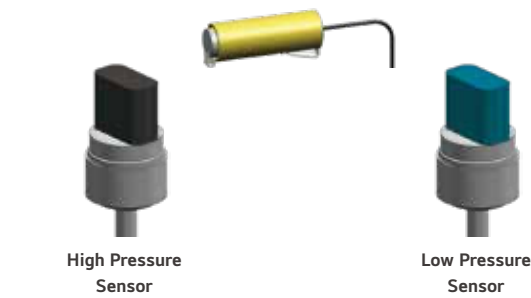
* Based on equivalent pipe length

Smart Control

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

Temperature + Pressure Control

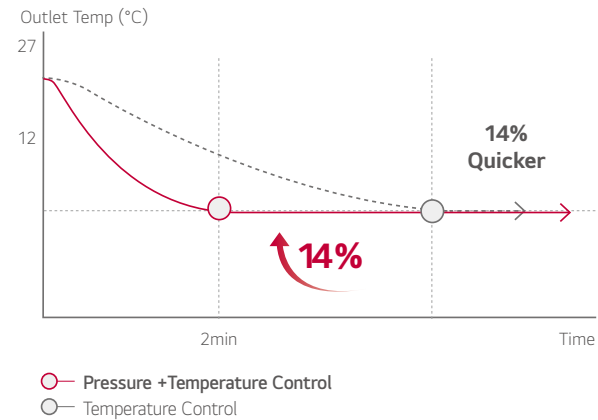
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



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.



○ Pressure + Temperature Control
○ Temperature Control

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.

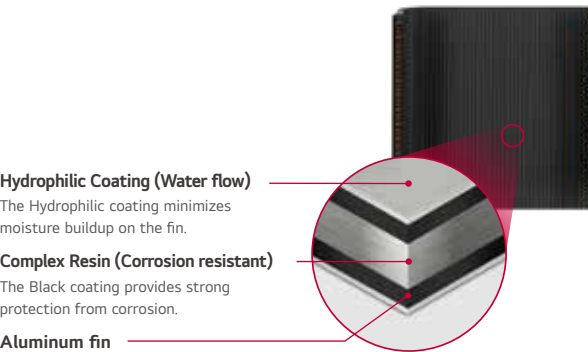
Certified protection



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

Enhanced Coating Layers

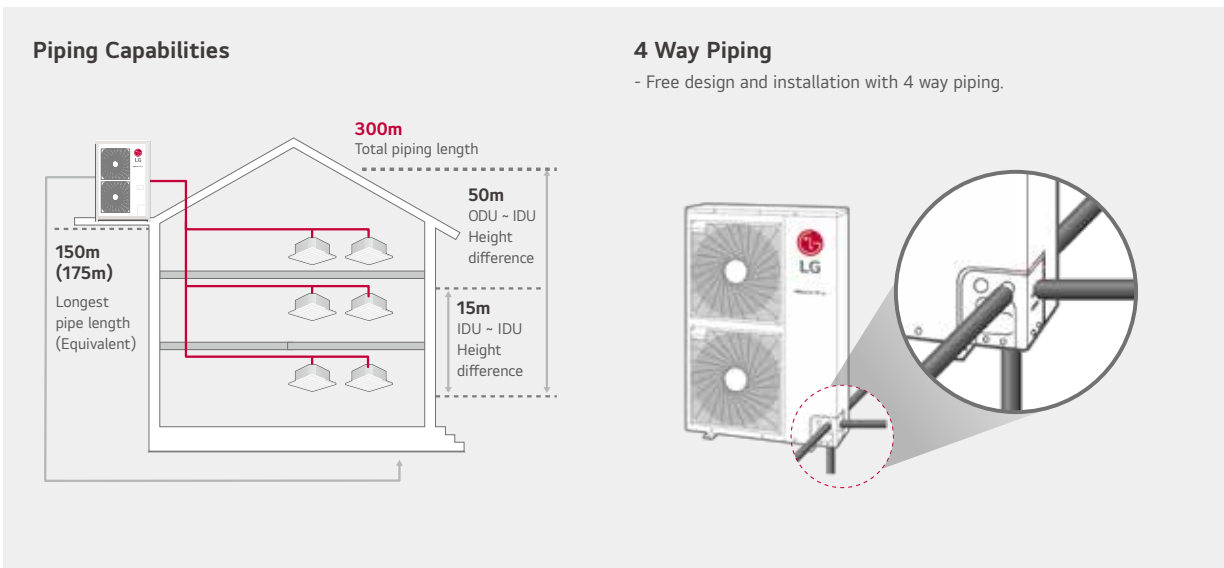
The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and making it even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



Sufficient Piping Length

Increased piping length allows for flexible design and installation

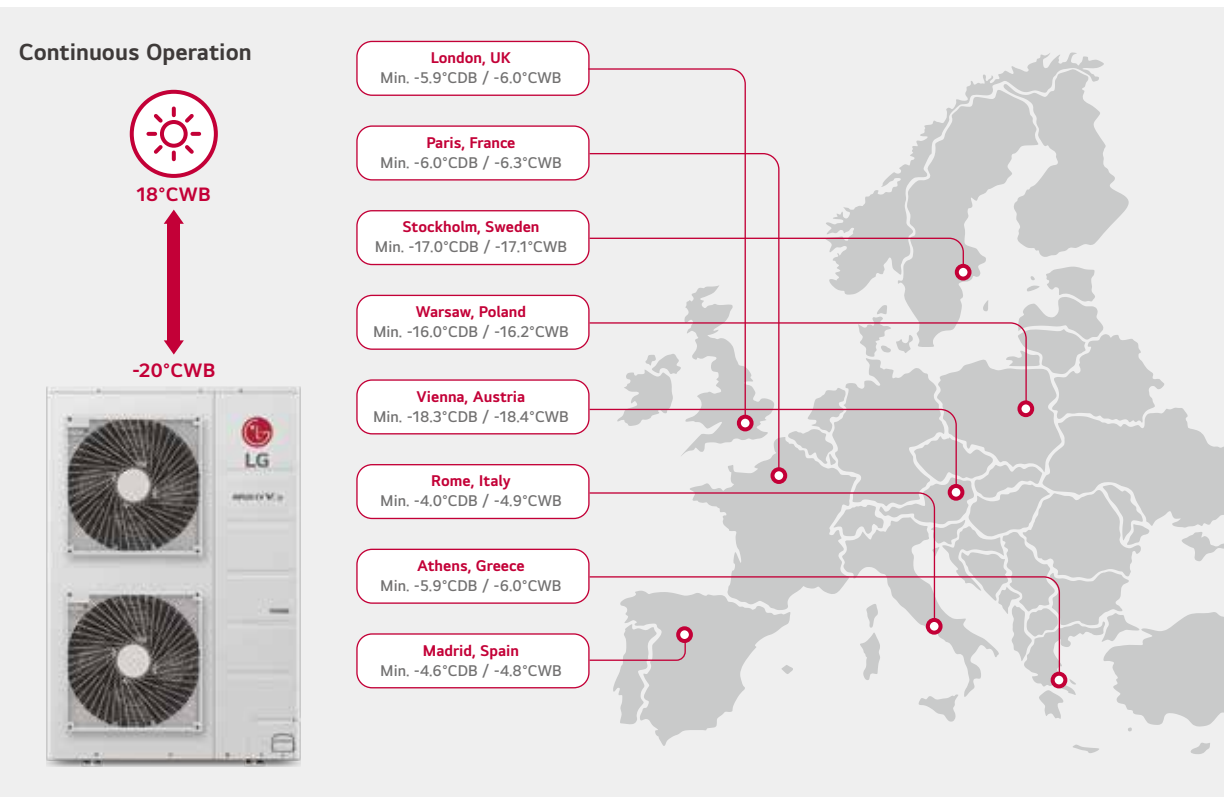
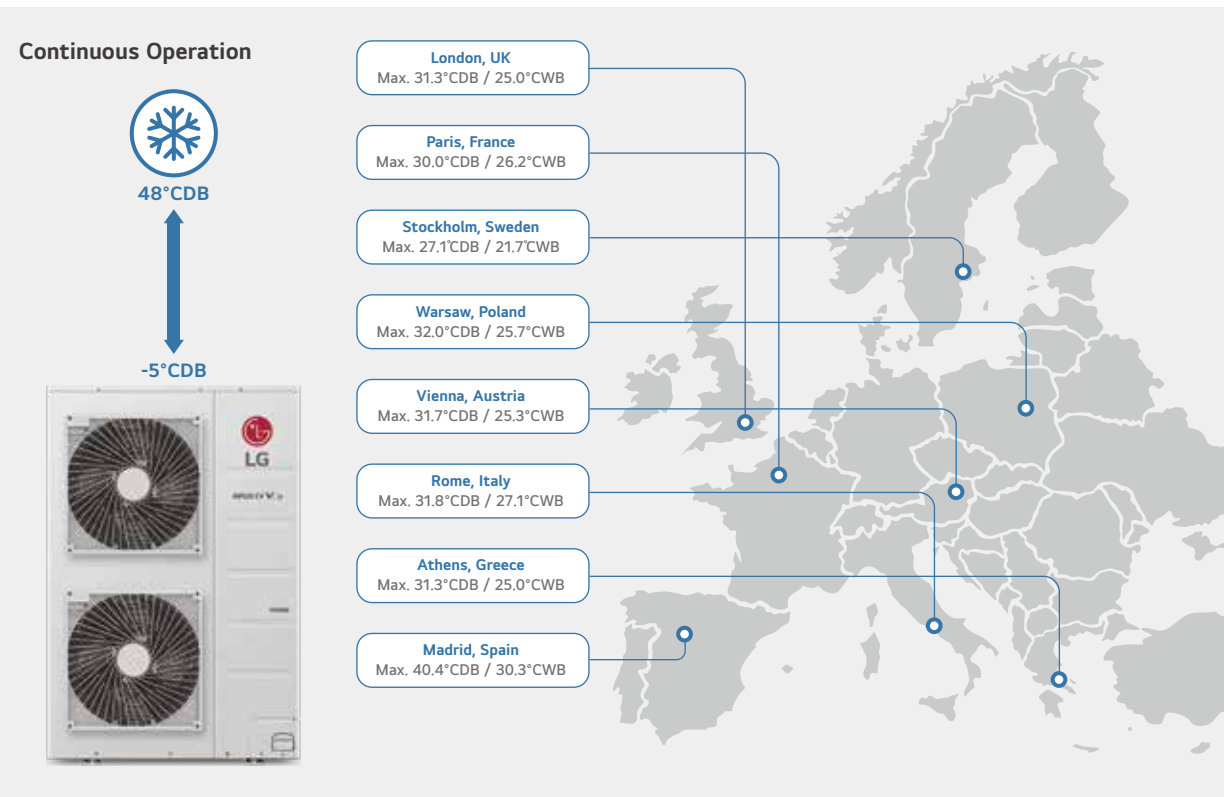
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and ensuing efficient designs.



Wide Operation Ranges (Cooling & Heating)

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

* Only for 8, 10, 12HP

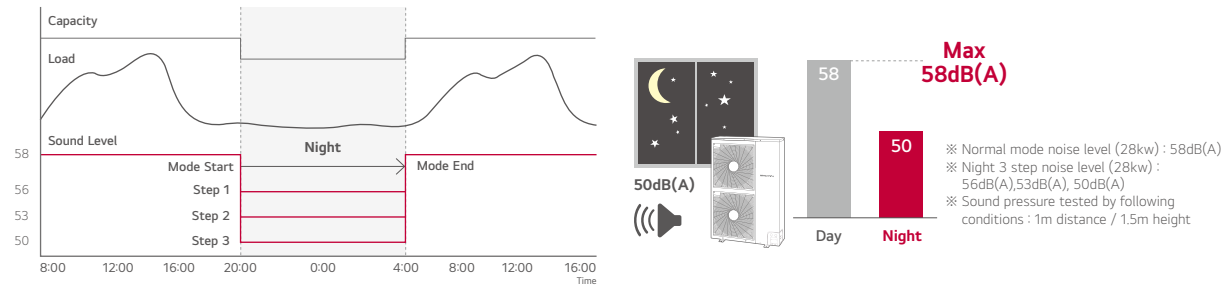


※ The source of weather data is TMY(Typical Meteorological Year) data.
The TMY data contains one year of hourly data that best represents weather conditions over many years.

Low Noise Operation

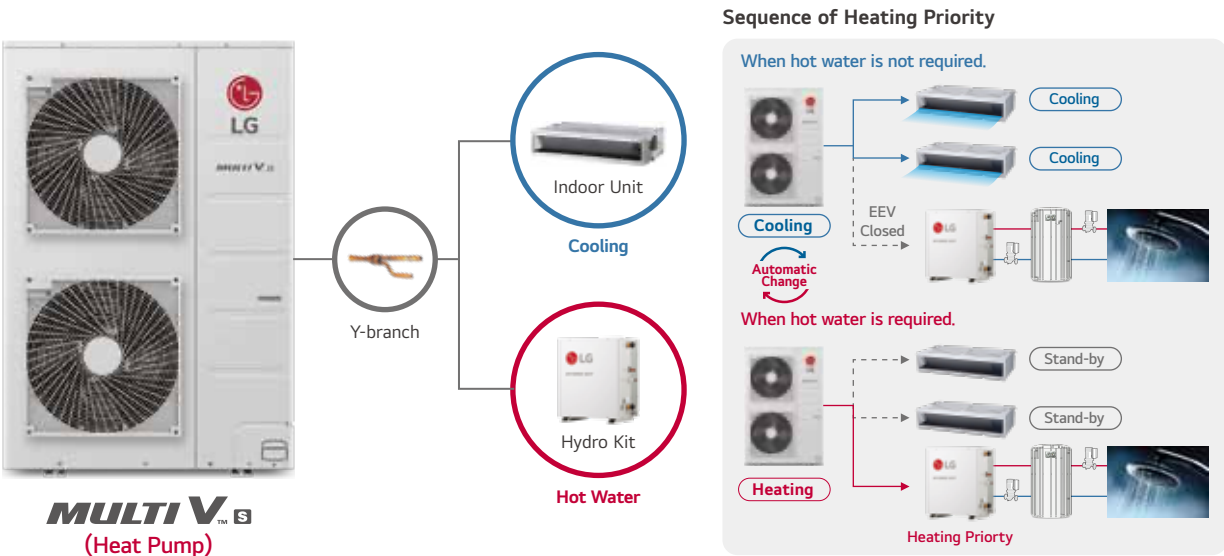
Decreased noise during operation with low noise functionality

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.



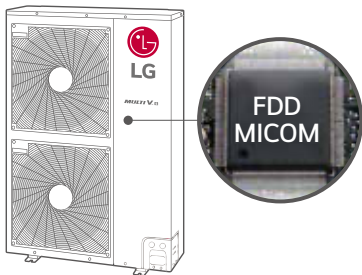
※ This function is available only when the dip switch of the outdoor unit and wired remote controller of the indoor unit & hydro kit are set.
(ODU : Dip Switch No.5 On → Fn25 → Heat → On) // (IDU : Installer Setting → ODU Cycle Priority → Stand-by) // (Hydro Kit : Installer Setting → ODU Cycle Priority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

Upgraded Fault Detection and Diagnosis

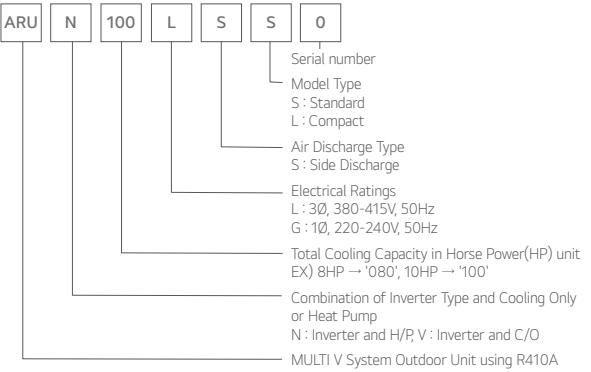
Easy and convenient maintenance with self-diagnosis

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

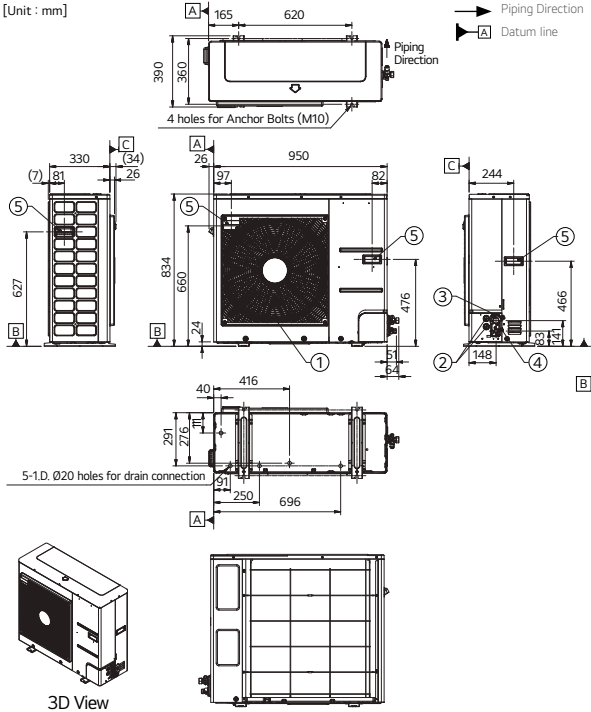


Outdoor Units Function

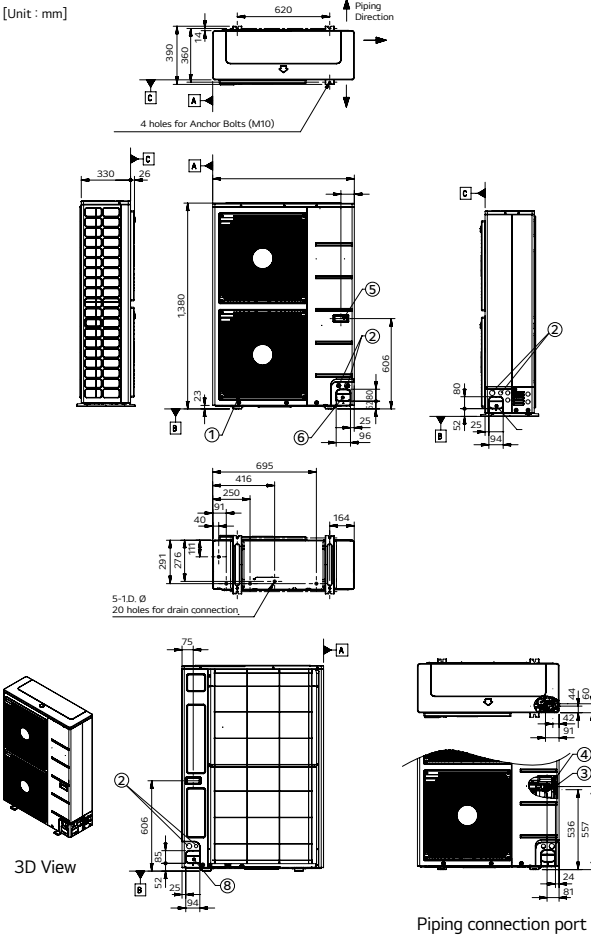
| Category | Functions | MULTI V S |
|------------------------------------|--|--|
| Key Refrigerant Components | Variable Path of Outdoor Unit HEX | - |
| | HiPOR™ (High Pressure Oil Return) | - |
| | Humidity Sensor | ARUB060GSS4 only |
| | Corrosion Resistance Black Fin | ○ |
| Special Function | Oil Sensor | - |
| | Dual Sensing | ARUB060GSS4 only |
| | Low Noise Operation | ○ |
| | Hgh Static Mode of Outdoor Unit Fan | ○ |
| Basic Function | Partial Defrosting | - |
| | Auto Dust Removal of Outdoor Unit (Fan reverse rotation) | - |
| | Indoor Cooling Comfort Mode Based Outdoor Temperature Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | ○ |
| | Outdoor Unit Control Refer to Humidity | ARUB060GSS4 only |
| Central Controller | Defrost / Deicing | ○ |
| | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| | Restart Delay (3-minutes) | ○ |
| BNU (Building Network Unit) | Self Diagnosis | ○ |
| | Soft Start | ○ |
| | Test Run Function | - |
| | AC Ez (Simple Controller) | PQCSZ250S0 |
| IO Module (ODU Dry Contact) | AC Ez Touch | PACEZA000 |
| | AC Smart IV | PACS4B000 |
| | AC Smart 5 | PACSSA000 |
| | ACP (Advanced Control Platform) IV | PACP4B000 |
| PDI (Power Distribution Indicator) | ACP (Advanced Control Platform) 5 | PACP5A000 |
| | AC Manager 5 | PACMSA000 |
| Cool / Heat Selector | ACP5 (w U60FT) | ○ |
| | ACP BACnet | PQNFB17C0 |
| | Standard | PPWRDB000 |
| | Premium | PQNUD1S40 |
| Cycle Monitoring Device | LGMV | PRDSBM |
| | Mobile LGMV | PLGMVW100 |
| Additional kit | Refrigerant Charging Kit | ○ (Logical operation) Not applied to ARUB060GSS4 |
| | Low Ambient Kit | - |
| | Variable Water Flow Valve Control Kit | - |

※ ○ : Applied, - : Not Applied

ARUN040GSS0



ARUN080LSS5



| 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) | - |

Note

1. Unit should be installed in compliance with the installation manual in the product box.

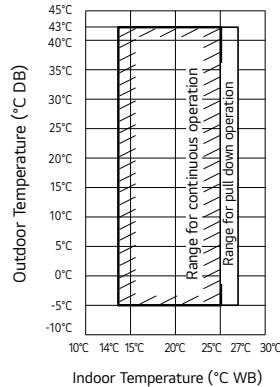
2. Unit should be grounded in accordance with the local regulation or applicable national codes.

3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

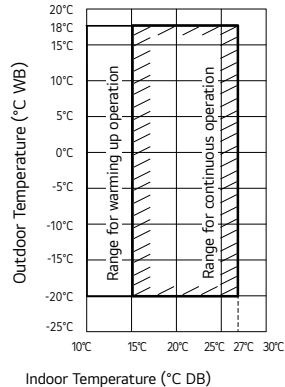
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

Heat Pump

Cooling

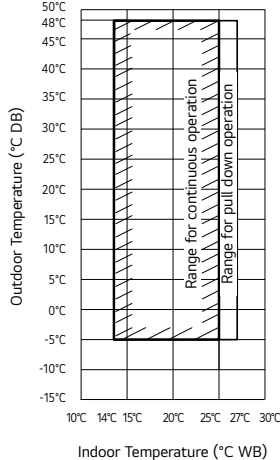


Heating

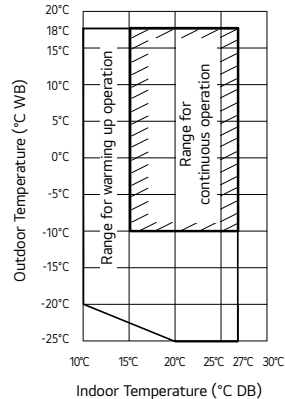


Heat Recovery

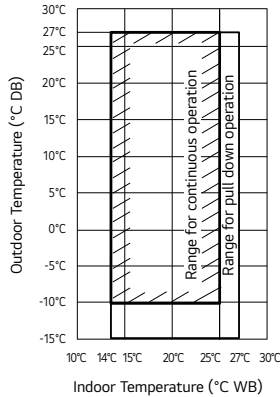
Cooling



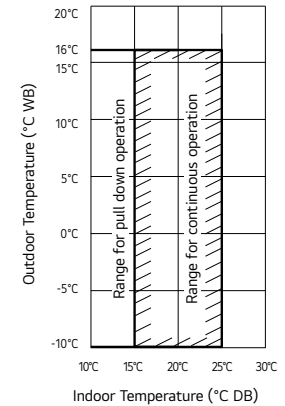
Heating



Simultaneous Cooling

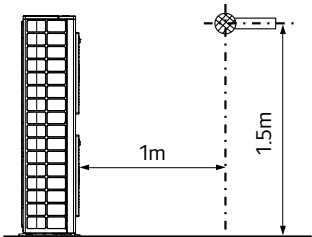


Simultaneous Heating



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 |
|--|------------------------------|--------------|----------------------------|
| Model Name | | | ARUN040GSS0 |
| Capacity | Cooling (Rated) | kW | 12.1 |
| | Heating (Rated) | kW | 12.5 |
| Input | Cooling (Rated) | kW | 4.03 |
| | Heating (Rated) | kW | 3.10 |
| EER | | | 3.00 |
| SEER | | | 5.63 |
| COP | | | Rated Capacity 4.03 |
| SCOP | | | 3.97 |
| Exterior | Color (General) | | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus |
| | Type | | BLDC Inverter Twin Rotary |
| Compressor | Combination x No. | | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 4,000 x 1 |
| | Oil Type | | FW60L (PVE) |
| | Oil Charge | cc | 1,300 |
| Fan | Type | | Axial Flow Fan |
| | Motor Output x Number | W x No. | 124 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 |
| | Drive | | DC INVERTER |
| Pipe Connection | Discharge | Side / Top | Side |
| | Liquid Pipe | mm (inch) | Ø9.52 (3/8) |
| Dimensions (W x H x D) | Gas Pipe | mm (inch) | Ø15.88 (5/8) |
| | | | |
| Dimensions (W x H x D) | | | 950 × 834 × 330 |
| Dimensions (W x H x D) - Shipping | | | (1,065 × 918 × 461) x 1 |
| Net Weight | | | 70 |
| Shipping Weight | | | 77 x 1 |
| Sound Pressure Level* | Cooling | dB(A) | 50 |
| | Heating | dB(A) | 52 |
| Sound Power Level | Cooling | dB(A) | 72 |
| | Heating | dB(A) | 75 |
| Communication Cable | | | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant Name | | R410A |
| | Precharged Amount in factory | kg | 1.8 |
| | t-CO ₂ eq | | 3.758 |
| | Control | | Electronic Expansion Valve |
| Power Supply | | | 220-240 , 1 , 50 |
| | | | 220, 1, 60 |
| Number of Maximum Connectable Indoor Units | | | 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 conditons 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 |
|--|------------------------------|--------------|----------------------------|----------------------------|
| Model Name | | | ARUN050GSS0 | ARUN060GSS0 |
| Capacity | Cooling (Rated) | kW | 14.0 | 15.5 |
| | Heating (Rated) | kW | 16.0 | 18.0 |
| Input | Cooling (Rated) | kW | 4.59 | 5.17 |
| | Heating (Rated) | kW | 4.18 | 5.00 |
| EER | | | 3.05 | 3.00 |
| SEER | | | 7.40 | 7.53 |
| COP Rated Capacity | | | 3.83 | 3.60 |
| SCOP | | | 4.16 | 4.35 |
| Exterior | Color (General) | | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus | Wide Louver Plus |
| | Type | | BLDC Inverter Twin Rotary | BLDC Inverter Twin Rotary |
| Compressor | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 4,000 x 1 | 4,000 x 1 |
| | Oil Type | | FW60L (PVE) | FW60L (PVE) |
| | Oil Charge | cc | 1,300 | 1,300 |
| Fan | Type | | Axial Flow Fan | Axial Flow Fan |
| | Motor Output x Number | W x No. | 124 x 2 | 124 x 2 |
| | Air Flow Rate (High) | m³/min x No. | 110 | 110 |
| | Drive | | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side |
| Pipe Connection | Liquid Pipe | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Pipe | mm (inch) | Ø15.88 (5/8) | Ø19.05 (3/4) |
| Dimensions (W x H x D) | | | 950 × 1,380 × 330 | 950 × 1,380 × 330 |
| Dimensions (W x H x D) - Shipping | | | (1,065 x 918 x 461) x 1 | (1,065 x 918 x 461) x 1 |
| Net Weight | | | 94 | 94 |
| Shipping Weight | | | 106 | 106 |
| Sound Pressure Level* | Cooling | dB(A) | 51 | 52 |
| | Heating | dB(A) | 53 | 54 |
| Sound Power Level | Cooling | dB(A) | 72 | 72 |
| | Heating | dB(A) | 76 | 77 |
| Communication Cable | | | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant Name | | R410A | R410A |
| | Precharged Amount in factory | kg | 3.0 | 3.0 |
| | t-CO ₂ eq | | 6.263 | 6.263 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | 220-240 , 1 , 50 | 220-240 , 1 , 50 |
| | | | 220, 1, 60 | 220, 1, 60 |
| Number of Maximum Connectable Indoor Units | | | 10 | 13 |

*: 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 conditons during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN040LSS0 / ARUN050LSS0
ARUN060LSS0



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

| HP | | | 4 | 5 | 6 |
|--|------------------------------|--------------|----------------------------|----------------------------|----------------------------|
| Model Name | | | ARUN040LSS0 | ARUN050LSS0 | ARUN060LSS0 |
| Capacity | Cooling (Rated) | kW | 12.1 | 14.0 | 15.5 |
| | Heating (Rated) | kW | 12.5 | 16.0 | 18.0 |
| Input | Cooling (Rated) | kW | 3.39 | 4.59 | 5.17 |
| | Heating (Rated) | kW | 2.75 | 4.18 | 5.00 |
| EER | | | 3.57 | 3.05 | 3.00 |
| SEER | | | 7.42 | 7.40 | 7.53 |
| COP Rated Capacity | | | 4.55 | 3.83 | 3.60 |
| SCOP | | | 4.30 | 4.16 | 4.35 |
| Exterior | Color (General) | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus |
| | Type | | BLDC Inverter Twin Rotary | BLDC Inverter Twin Rotary | BLDC Inverter Twin Rotary |
| Compressor | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 4,000 x 1 | 4,000 x 1 | 4,000 x 1 |
| | Oil Type | | FW60L (PVE) | FW60L (PVE) | FW60L (PVE) |
| | Oil Charge | cc | 1,300 | 1,300 | 1,300 |
| Fan | 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) | m³/min x No. | 110 | 110 | 110 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| Pipe Connection | Liquid Pipe | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Pipe | mm (inch) | Ø15.883(5/8) | Ø15.88 (5/8) | Ø19.05 (3/4) |
| Dimensions (W x H x D) | | | 950 × 1,380 × 330 | 950 × 1,380 × 330 | 950 × 1,380 × 330 |
| Dimensions (W x H x D) - Shipping | | | (1,065 x 918 x 461) x 1 | (1,065 x 918 x 461) x 1 | (1,065 x 918 x 461) x 1 |
| Net Weight | | | 96 | 96 | 96 |
| Shipping Weight | | | 108 | 108 | 108 |
| Sound Pressure Level* | Cooling | dB(A) | 50 | 51 | 52 |
| | Heating | dB(A) | 52 | 53 | 54 |
| Sound Power Level | Cooling | dB(A) | 72 | 72 | 72 |
| | Heating | dB(A) | 76 | 76 | 77 |
| Communication Cable | | | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in factory | kg | 3.0 | 3.0 | 3.0 |
| | t-CO ₂ eq | | 6.263 | 6.263 | 6.263 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | 380-415 , 3 , 50 | 380-415 , 3 , 50 | 380-415 , 3 , 50 |
| | | | 380, 3, 60 | 380, 3, 60 | 380, 3, 60 |
| Number of Maximum Connectable Indoor Units | | | 8 | 10 | 13 |

*: 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 conditons 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)

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 |
|--|------------------------------|---------------------|----------------------------|----------------------------|----------------------------|
| Model Name | | | ARUN080LSS5 | ARUN100LSS5 | ARUN120LSS5 |
| Capacity | 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 |
| Input | Cooling (Rated)* | kW | 7.83 | 9.69 | 12.01 |
| | Heating (Rated)* | kW | 5.82 | 6.81 | 9.05 |
| EER | | | 2.86 | 2.89 | 2.79 |
| SEER | | | 7.49 | 6.59 | 6.83 |
| COP | Rated Capacity | | 3.85 | 4.11 | 3.70 |
| SCOP | | | 4.76 | 4.42 | 4.45 |
| Exterior | Color (General) | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 4,200 x 1 | 5,300 x 1 | 5,300 x 1 |
| | Oil Type | | FW60L (PVE) | FW60L (PVE) | FW60L (PVE) |
| | Oil Charge | cc | 1,200 | 1,200 | 1,200 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W x No. | 124 x 2 | 250 x 2 | 250 x 2 |
| | Air Flow Rate (High) | m³/min x No. | 140 | 210 | 210 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| Pipe Connection | Liquid Pipe | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø12.7 (1/2) |
| | Gas Pipe | mm (inch) | Ø19.05 (3/4) | Ø22.2 (7/8) | Ø28.58 (1-1/8) |
| Dimensions (W x H x D) | | mm x No. | 950 x 1,380 x 330 | 1,090 x 1,625 x 380 | 1,090 x 1,625 x 380 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,140 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 |
| Net Weight | | kg x No. | 114 | 139 | 152 |
| Shipping Weight | | kg x No. | 126 | 154 | 166 |
| Sound Pressure Level* | Cooling | dB(A) | 57 | 58 | 60 |
| | Heating | dB(A) | 57 | 58 | 60 |
| Sound Power Level | Cooling | dB(A) | 73 | 75 | 77 |
| | Heating | dB(A) | 77 | 81 | 82 |
| Communication Cable | | mm² x No. (VCTF-SB) | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in factory | kg | 3.5 | 4.5 | 6.0 |
| | t-CO₂eq | | 7.306 | 9.394 | 12.525 |
| | 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 |
| | | | 380 , 3 , 60 | 380 , 3 , 60 | 380 , 3 , 60 |
| Number of Maximum Connectable Indoor Units | | | 13 | 16 | 20 |

*: 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.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
- *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. 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) for other indoor unit combination and more detail test conditions.
7. The maximum combination ratio is 160%.
8. 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 |
|--|------------------------------|---------------------|----------------------------|
| Model Name | | | ARUB060GSS4 |
| Capacity | Cooling (Rated) | kW | 15.5 |
| | Heating (Rated) | kW | 18.0 |
| Input | Cooling (Rated) | kW | 5.74 |
| | Heating (Rated) | kW | 5.14 |
| EER | | | 2.70 |
| SEER | | | 5.92 |
| COP | Rated Capacity | | 3.50 |
| SCOP | | | 3.79 |
| Exterior | Color | | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus |
| | Type | | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 4,200 x 1 |
| | Oil Type | | FW60L (PVE) |
| | Oil Charge | cc | 1,700 |
| Fan | Type | | Axial Flow Fan |
| | Motor Output x Number | W x No. | 124 x 2 |
| | Air Flow Rate (High) | m³/min x No. | 110 |
| | Drive | | DC INVERTER |
| | Discharge | Side / Top | Side |
| Pipe Connection #1 | Liquid Pipe | mm (inch) | Ø9.52 (3/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø19.05 (3/4) |
| | High Pressure Gas Pipe | mm (inch) | Ø15.88 (5/8) |
| Dimensions (W x H x D) | | mm x No. | 950 × 1,380 × 330 |
| Dimensions (W x H x D) - shipping | | mm x No. | (1,140 × 1,549 × 466) × 1 |
| Net Weight | | kg x No. | 118 |
| Shipping Weight | | kg x No. | 132 |
| Sound Pressure Level* | Cooling | dB(A) | 56 |
| | Heating | dB(A) | 58 |
| Sound Power Level | Cooling | dB(A) | 76 |
| | Heating | dB(A) | 78 |
| Communication Cable | | mm² x No. (VCTF-SB) | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant Name | | R410A |
| | Precharged Amount in factory | kg | 3.5 |
| | t-CO₂eq | | 7.306 |
| | Control | | Electronic Expansion Valve |
| Power Supply | | V, Ø, Hz | 220-230-240 , 1 , 50/60 |
| Number of Maximum Connectable Indoor Units | | | 13 |

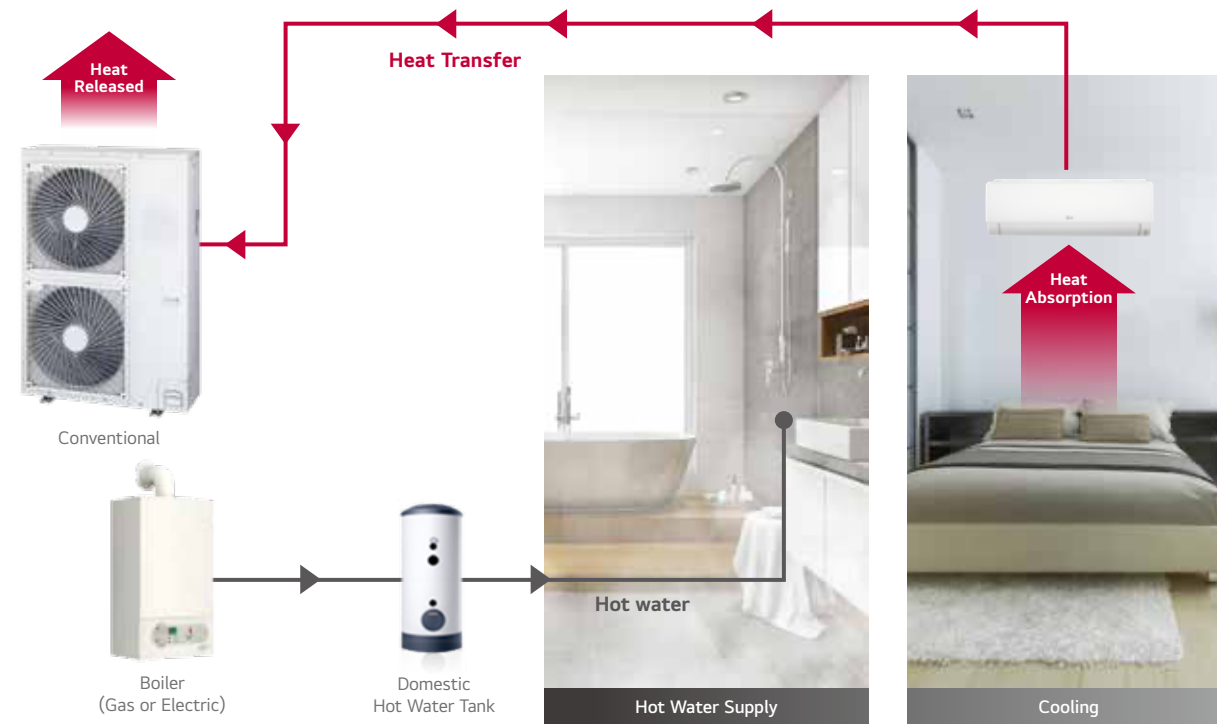
*: Sound Pressure is not a value declared on Eurovent Program.
Note
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
- Refer to EUROVENT certification regulation for more detail test conditions.
- Refer to EUROVENT website for test values connected Ceiling Cassette 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 conditons 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)

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.

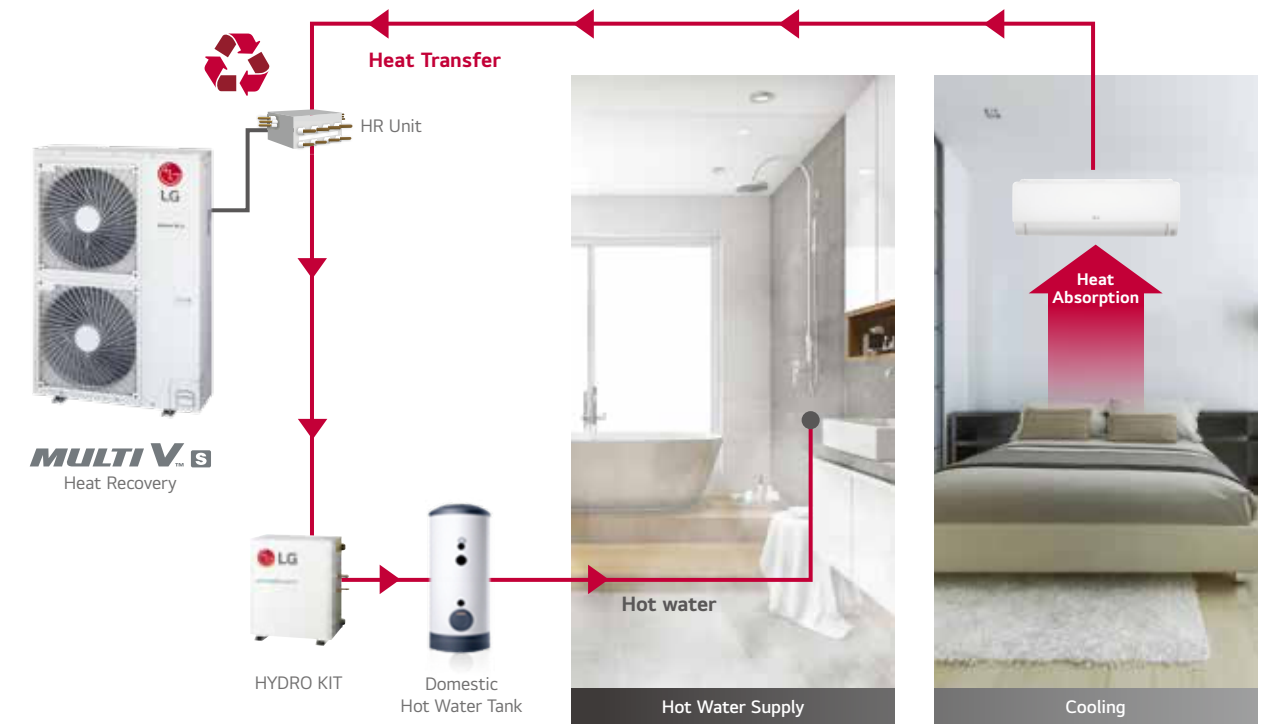


Energy Savings

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 VTM S

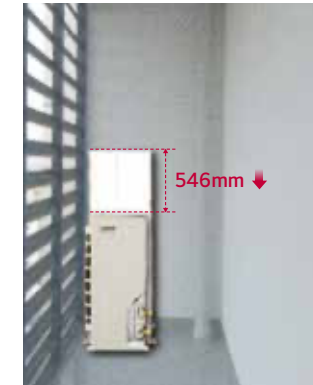


- Air cooled VRF Heat pump
- 9.0 ~ 15.5kW (based on cooling capacity)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit



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.

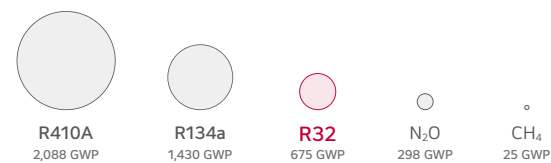


※ IDU (Wall Mounted Unit) : 5 kBTu/h, 8 EA
※ This result can be different depending on actual environment

Lower Global Warming Potential (GWP)

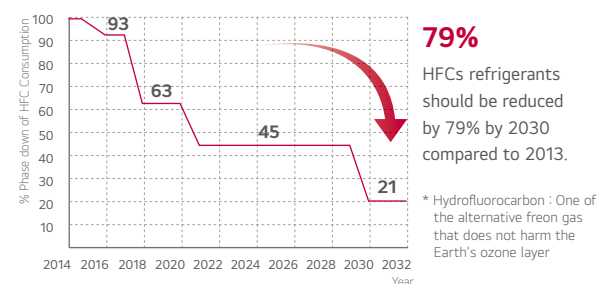
What is GWP?

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 (CO₂).



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.



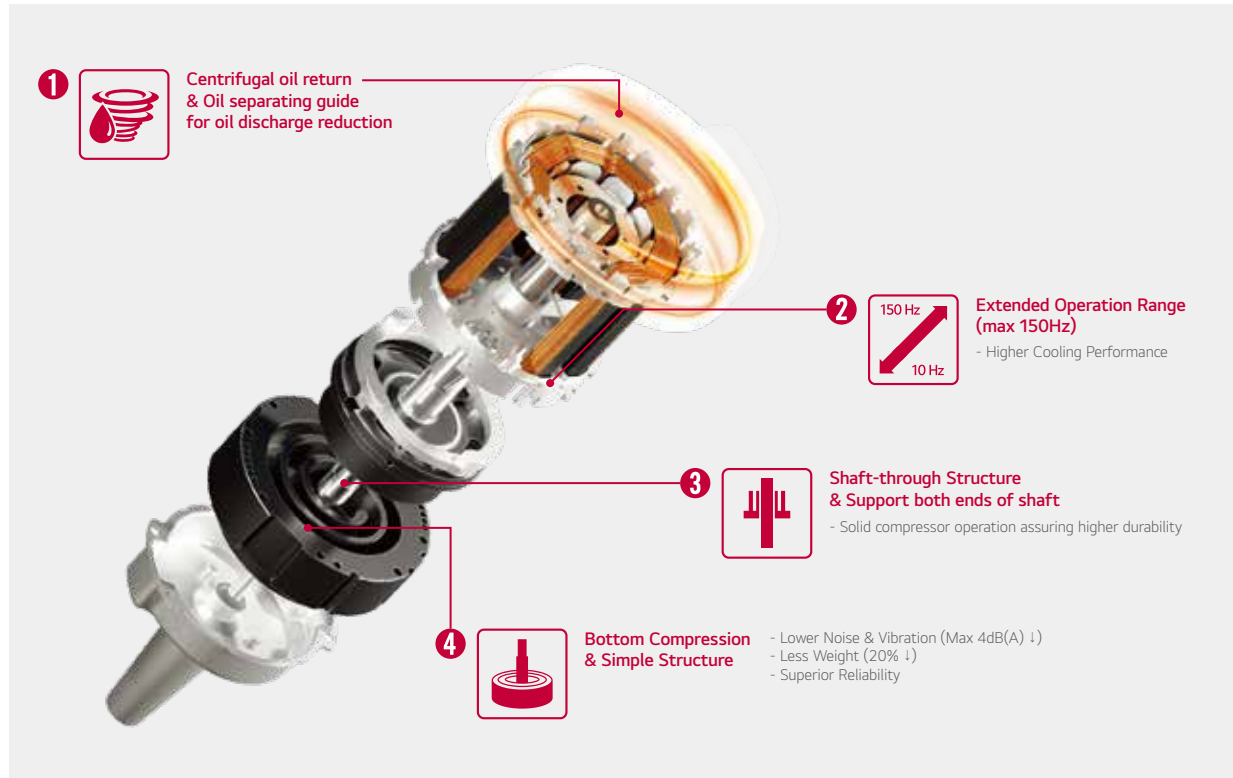
- Hydrophilic Coating (Water flow)**
The Hydrophilic coating minimizes moisture buildup on the fin.
- Complex Resin (Corrosion resistant)**
The Black coating provides strong protection from corrosion.
- Aluminum fin**

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



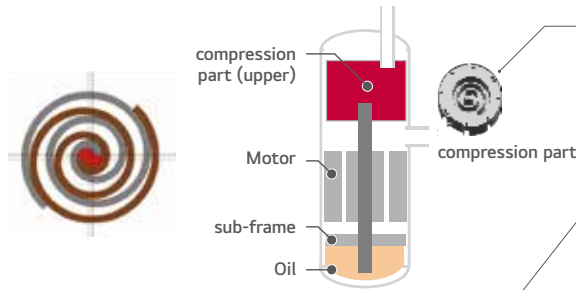
R1Compressor™

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.

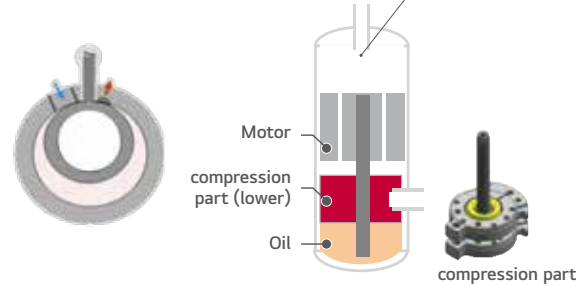


Conventional Compressor

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

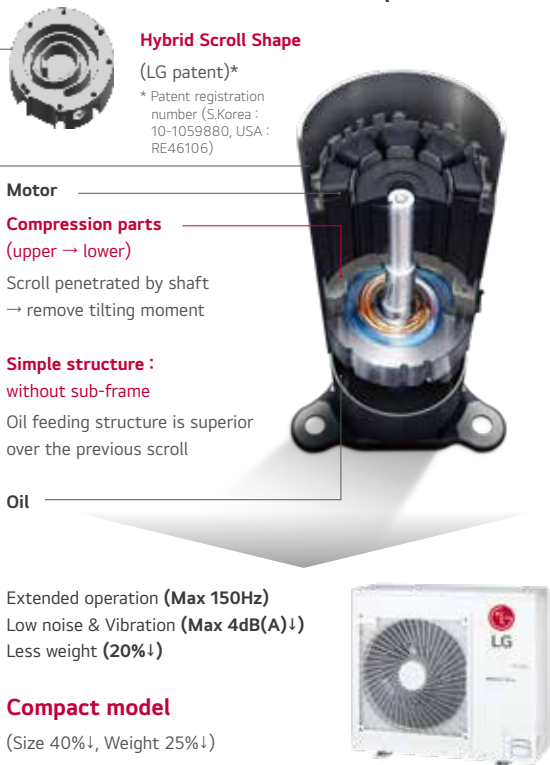


Rotary : Simple structure
(Compression per 1 rotation)



R1Compressor™

Revolutionary Scroll : High efficiency / Stable & Simple Structure



ZRUN030GSS0 / ZRUN040GSS0
ZRUN050GSS0 / ZRUN060GSS0



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

| HP | | | 3 | 4 | 5 | 6 |
|--|-----------------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model Name | | | ZRUN030GSS0 | ZRUN040GSS0 | ZRUN050GSS0 | ZRUN060GSS0 |
| Capacity | 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 |
| Input | Cooling (Rated) | kW | 2.81 | 4.26 | 4.90 | 5.64 |
| | Heating (Rated) | kW | 2.09 | 3.03 | 3.48 | 3.95 |
| EER (Rated) | | | 3.20 | 2.84 | 2.86 | 2.75 |
| SEER | | | 5.70 | 6.69 | 6.44 | 6.59 |
| COP (Rated) | | | 4.30 | 4.00 | 4.02 | 3.92 |
| SCOP | | | 3.90 | 4.00 | 3.81 | 4.07 |
| Exterior | Color | | Warm Gray | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code | | RAL 7044 | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus |
| Compressor | Type | | LG Inverter Scroll | LG Inverter Scroll | LG Inverter Scroll | LG Inverter Scroll |
| | 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 |
| Fan | Type | | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan |
| | Motor Output x Number | W x No. | 124 x 1 | 124 x 1 | 198 x 1 | 198 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 | 60 | 80 | 80 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side | Side |
| Pipe Connection | 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) |
| Dimensions (W x H x D) | | mm x No. | 950 × 834 × 330 | 950 x 834 x 330 | 950 x 834 x 330 | 950 × 834 × 330 |
| Dimensions (W x H x D) - Shipping | | mm x No. | 1,147 x 919 x 461 | 1,147 x 919 x 461 | 1,147 x 919 x 461 | 1,147 x 919 x 461 |
| Net Weight | | kg x No. | 64.7 | 64.7 | 71.6 | 71.6 |
| Shipping Weight | | kg x No. | 73.7 | 73.7 | 79.6 | 79.6 |
| Sound Pressure Level* | Cooling | dB(A) | 51 | 51 | 57 | 57 |
| | Heating | dB(A) | 55 | 55 | 60 | 60 |
| Sound Power Level | Cooling | dB(A) | 67 | 67 | 70 | 71 |
| | Heating | dB(A) | 70 | 71 | 74 | 75 |
| Communication Cable | | mm² x No. (VCTF-SB) | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant name | | R32 | R32 | R32 | R32 |
| | Precharged Amount | kg | 1.5 | 1.5 | 2.0 | 2.0 |
| | t-CO₂eq | | 1.013 | 1.013 | 1.350 | 1.350 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | V, Ø, Hz | 220 - 230 - 240 , 1 , 50 | 220 - 230 - 240 , 1 , 50 | 220 - 230 - 240 , 1 , 50 | 220 - 230 - 240 , 1 , 50 |
| Number of maximum connectable indoor units | | | 6 | 8 | 10 | 13 |

*: 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.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditons during operation.

4. Performances are based on the following conditions :

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

ZRUN030LSS0 / ZRUN040LSS0
ZRUN050LSS0 / ZRUN060LSS0



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

| HP | | | 3 | 4 | 5 | 6 |
|--|-----------------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|
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| | Heating (Rated) | kW | 9.0 | 12.1 | 14.0 | 15.5 |
| | Heating (Max) | kW | 10.0 | 14.2 | 16.0 | 18.0 |
| Input | Cooling (Rated) | kW | 2.81 | 4.26 | 4.90 | 5.64 |
| | Heating (Rated) | kW | 2.09 | 3.03 | 3.48 | 3.95 |
| EER (Rated) | | | 3.20 | 2.84 | 2.86 | 2.75 |
| SEER | | | 5.70 | 6.69 | 6.44 | 6.59 |
| COP (Rated) | | | 4.30 | 4.00 | 4.02 | 3.92 |
| SCOP | | | 3.90 | 4.00 | 3.81 | 4.07 |
| Exterior | Color | | Warm Gray | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code | | RAL 7044 | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus | Wide Louver Plus |
| Compressor | Type | | LG Inverter Scroll | LG Inverter Scroll | LG Inverter Scroll | LG Inverter Scroll |
| | 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 |
| Fan | Type | | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan |
| | Motor Output x Number | W x No. | 124 x 1 | 124 x 1 | 198 x 1 | 198 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 | 60 | 80 | 80 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side | Side |
| Pipe Connection | Liquid Pipe | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
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| Dimensions (W x H x D) | | mm x No. | 950 × 834 × 330 | 950 x 834 x 330 | 950 x 834 x 330 | 950 × 834 × 330 |
| Dimensions (W x H x D) - Shipping | | mm x No. | 1,147 x 919 x 461 | 1,147 x 919 x 461 | 1,147 x 919 x 461 | 1,147 x 919 x 461 |
| Net Weight | | kg x No. | 64.7 | 64.7 | 71.6 | 71.6 |
| Shipping Weight | | kg x No. | 73.7 | 73.7 | 79.6 | 79.6 |
| Sound Pressure Level* | Cooling | dB(A) | 51 | 51 | 57 | 57 |
| | Heating | dB(A) | 55 | 55 | 60 | 60 |
| Sound Power Level | Cooling | dB(A) | 67 | 67 | 70 | 71 |
| | Heating | dB(A) | 70 | 71 | 74 | 75 |
| Communication Cable | | mm² x No. (VCTF-SB) | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 | 2C x 1.0 ~ 1.5 |
| Refrigerant | Refrigerant name | | R32 | R32 | R32 | R32 |
| | Precharged Amount | kg | 1.5 | 1.5 | 2.0 | 2.0 |
| | t-CO₂eq | | 1.013 | 1.013 | 1.350 | 1.350 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | V, Ø, Hz | 380 - 400 - 415, 3, 50 | 380 - 400 - 415, 3, 50 | 380 - 400 - 415, 3, 50 | 380 - 400 - 415, 3, 50 |
| Number of maximum connectable indoor units | | | 6 | 8 | 10 | 13 |

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

Note

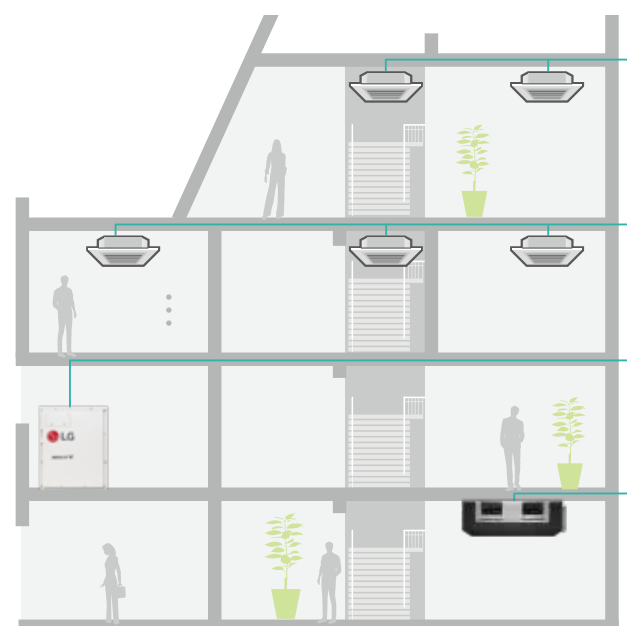
1. Due to our policy of innovation some specifications may be changed without notification.
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5. EUROVENT Test Condition :
- Performance values on the this PDB are based on Ceiling mounted cassette combination.
 - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
6. The maximum combination ratio is 160%.
7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

MULTI V™ M

140m
Total Piping
Length



70m
Longest piping length
from Compressor Module to
Indoor unit

30m
Longest piping length
from Heat Exchanger Module to
Compressor Module



Highlights



Flexible
design



Cost
savings



Space
savings

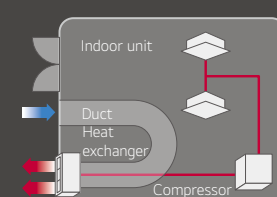


Easy
maintenance

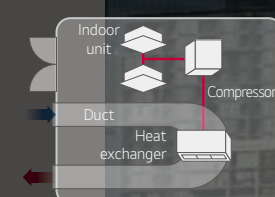
- Air Cooled VRF Heat Pump
- 14kW (based on cooling capacity)
- 3Ø, 380 ~ 415V, 50Hz (Compressor Module)
- 1Ø, 220 ~ 240V, 50Hz (Heat Exchanger Module)
- Outdoor unit is installed inside building

How does it work?

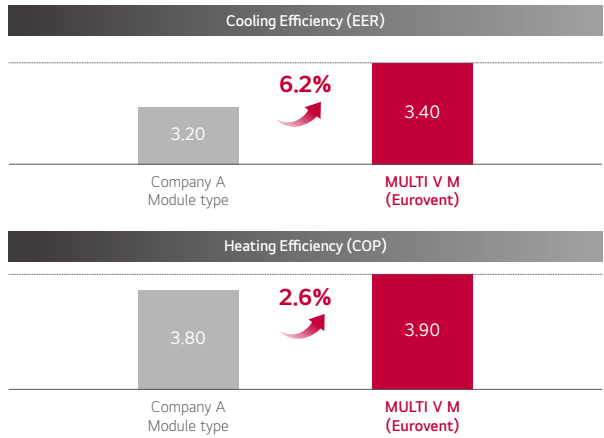
Direct Inlet / Outlet Case



Duct Connected Case

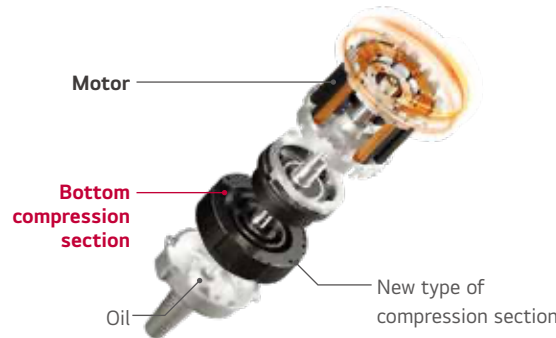


Energy Efficiency



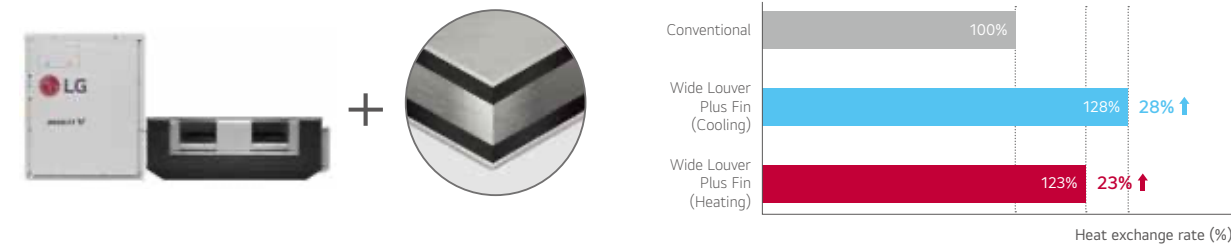
R1 Compressor™

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



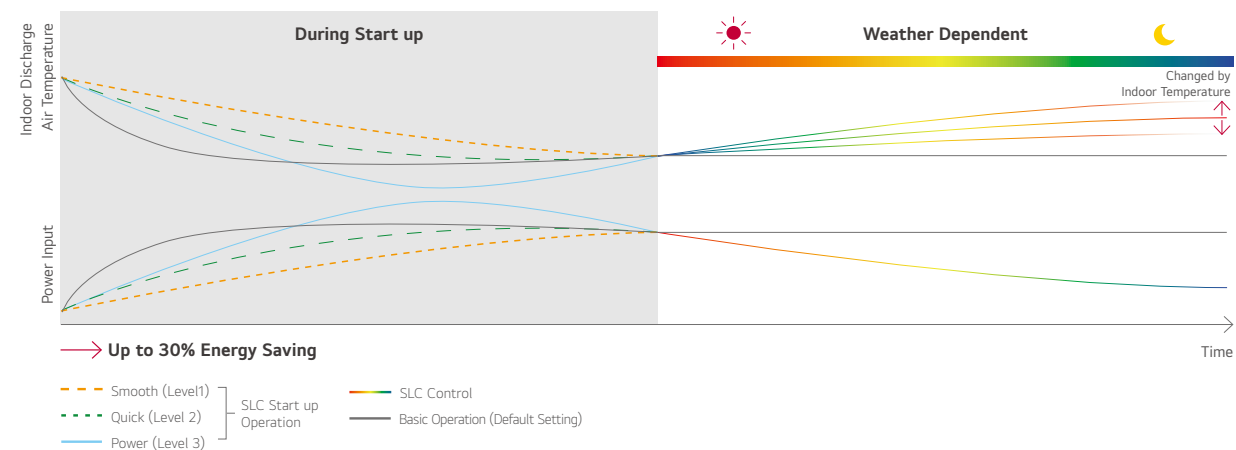
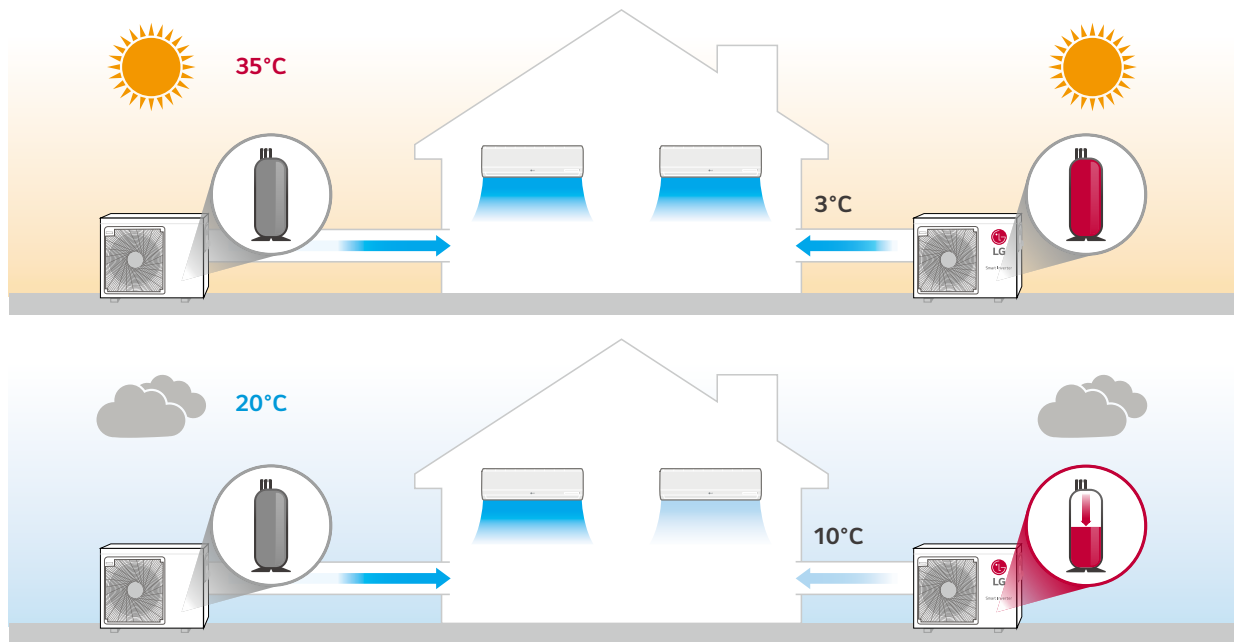
Wide Louver Plus Fin + Corrosion Resistance

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



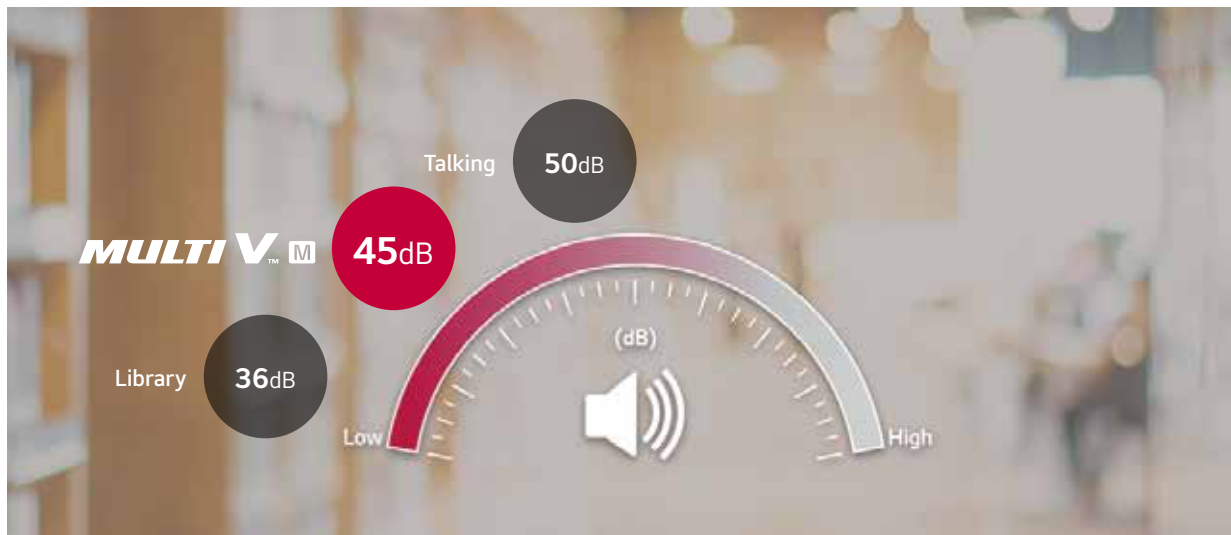
Smart Load Control

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



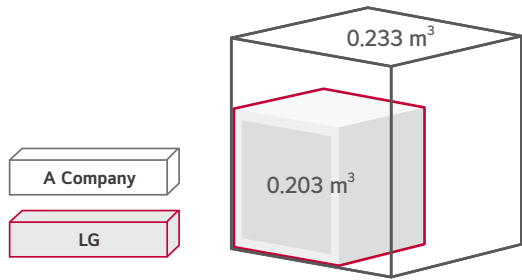
Quiet Operation

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

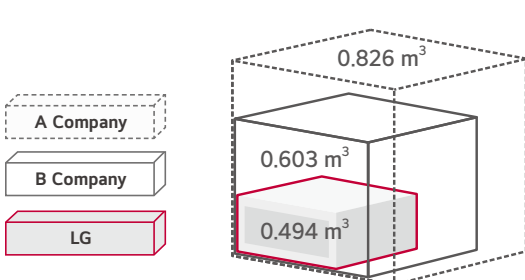


Volume

Compressor Module



Heat Exchanger Module



ESP Control

(External Static Pressure)

up to 30 Pa



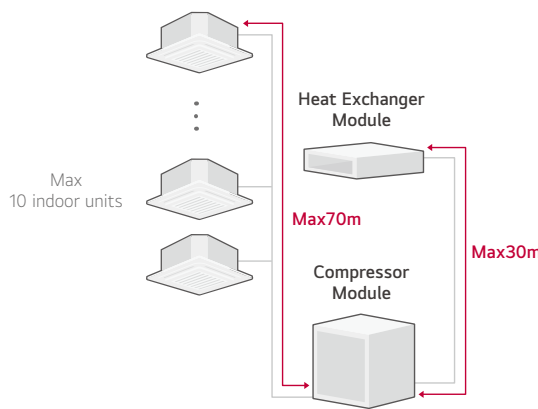
up to 157 Pa (max)



Module Type

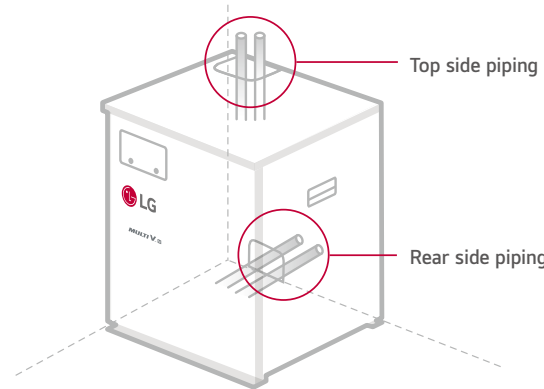
Increased design freedom

- 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

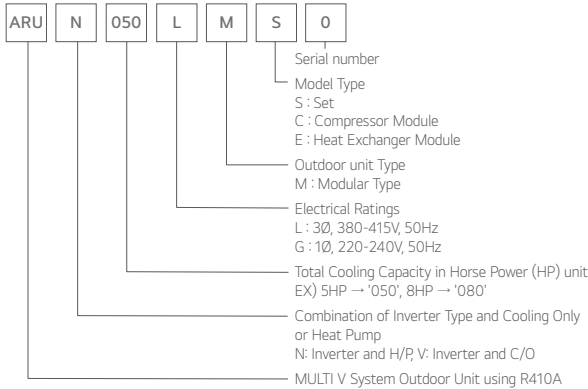
Heat exchanger module can be installed in false ceiling spaces



Compressor module can be installed anywhere indoors



Nomenclature



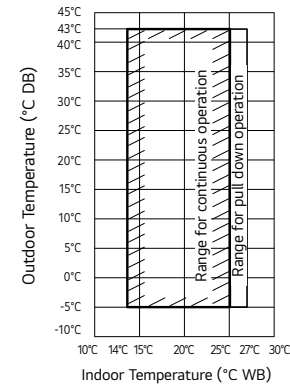
Outdoor Units Function

| Category | Functions | Modular |
|------------------------------------|--|------------|
| Key Refrigerant Components | Variable Path of Outdoor Unit HEX | - |
| | HiPOR™ (High Pressure Oil Return) | - |
| | Humidity Sensor | - |
| | Corrosion Resistance Black Fin | ○ |
| | Oil Sensor | - |
| Useful Function | Dual Sensing | - |
| | Low Noise Operation | ○ |
| | Hgh 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) | ○ |
| Reliability | Outdoor Unit Control Refer to Humidity | - |
| | Defrost / Deicing | ○ |
| | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| | Restart Delay (3-minutes) | ○ |
| | Self Diagnosis | ○ |
| | Soft Start | ○ |
| Central Controller | Test Run Function | - |
| | AC Ez (Simple Controller) | PQCSZ250S0 |
| | AC Ez Touch | PACEZA000 |
| | AC Smart IV | PACS4B000 |
| | AC Smart 5 | PAC55A000 |
| | ACP (Advanced Control Platform) IV | PACP4B000 |
| | ACP (Advanced Control Platform) 5 | PACP5A000 |
| BNUI (Building Network Unit) | AC Manager 5 | PACM5A000 |
| | ACP5 (w U60FT) | ○ |
| Installation | ACP BACnet | PQNFB17C0 |
| | Refrigerant Charging Kit | - |
| PDI (Power Distribution Indicator) | Variable Water Flow Valve Control Kit | - |
| | Standard | - |
| Cool / Heat Selector | Premium | - |
| | PRDSBM | - |
| Low Ambient Kit | | - |
| | | - |
| IO Module (ODU Dry Contact) | | PVDSMN000 |
| | | - |
| Cycle Monitoring Device | LGMV | PRCTILO |
| | Mobile LGMV | PLGMVV100 |

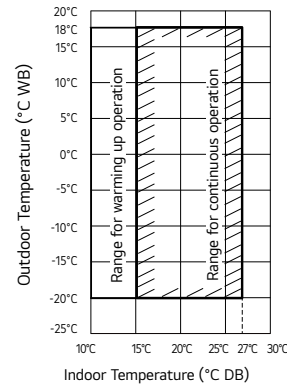
※ ○ : Applied, - : Not Applied

Heat Pump

Cooling

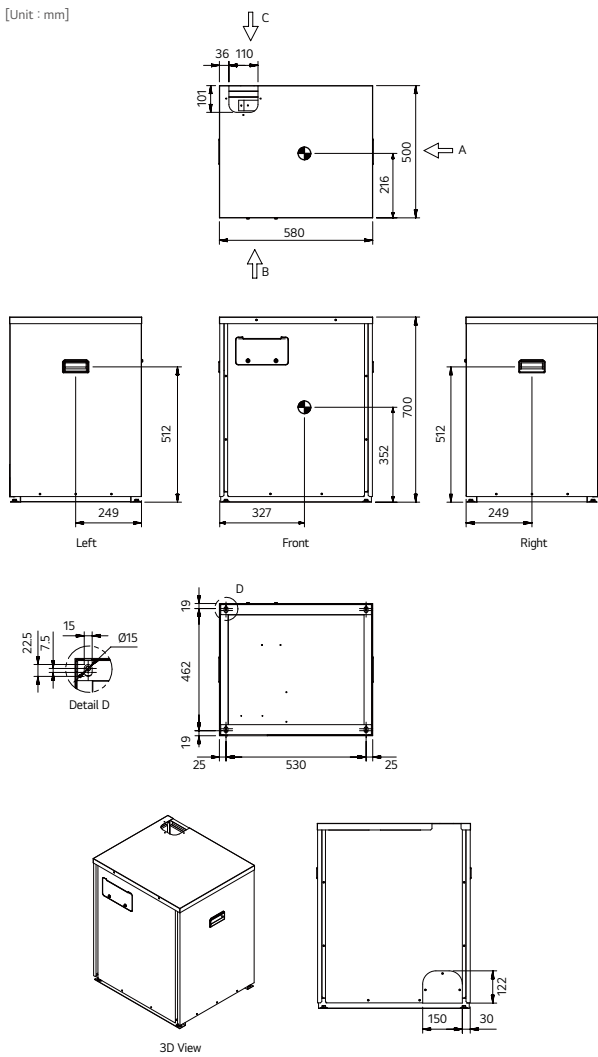


Heating



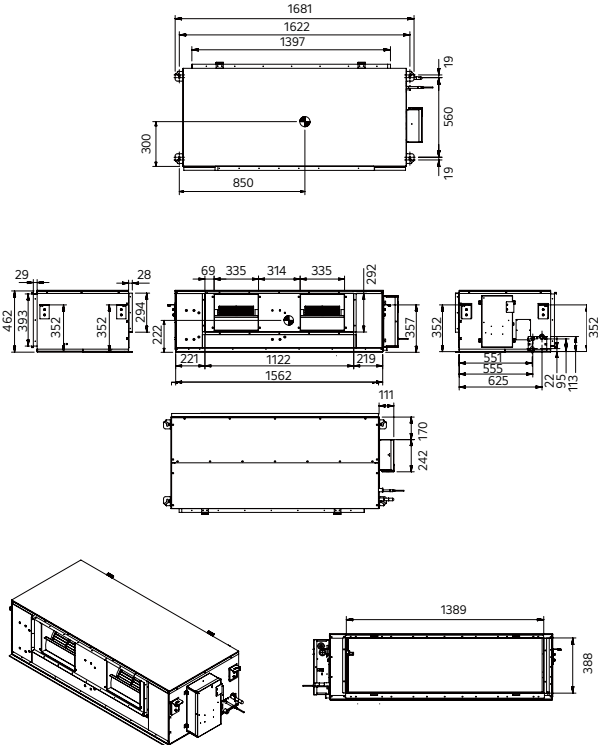
Compressor Module

[Unit : mm]



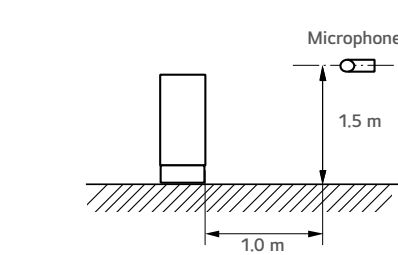
Heat Exchanger Module

[Unit : mm]



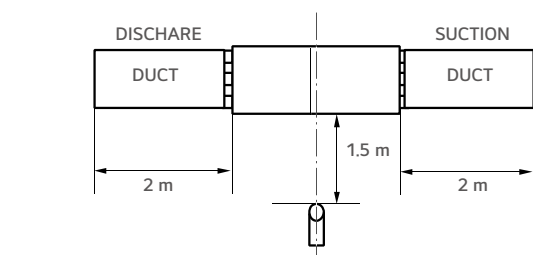
Position of Sound Pressure Level Measuring

Compressor Module



※ Measuring place : Anechoic chamber

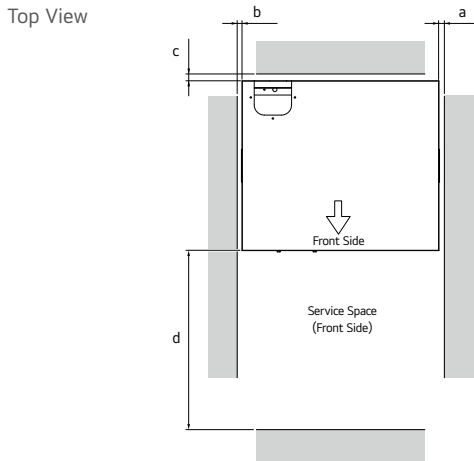
Heat Exchanger Module



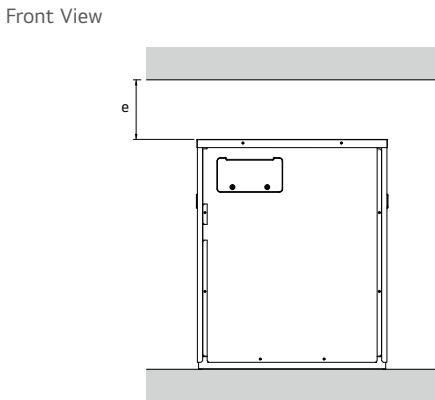
※ Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View



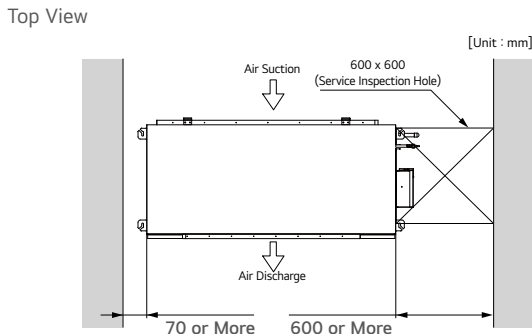
Front View



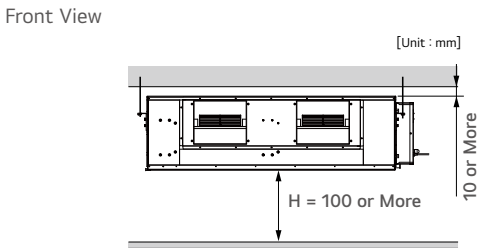
| Category | Mark | Description | Installation Space (mm) |
|-------------------|------|-------------|-------------------------|
| Compressor Module | a | Right | 10 or More |
| | b | Left | 10 or More |
| | c | Rear | 10 or More |
| | d | Front | 500 or More |
| | e | Top | 200 or More |

Installation Space for Compressor Module

Top View



Front View



ARUN050LMC0 / 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 | | ARUN050LMC0 |
| | 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 conditons 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)

ARUN050LMC0 / 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 |
| | | | ARUN050LMC0 | 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 | 1,562 × 460 × 688 |
| | Shipping | mm x No. | 618 × 833 × 564 | 1,806 × 537 × 825 |
| Weight | Net | kg x No. | 69.0 | 84 |
| | Shipping | kg x No. | 76.0 | 95 |
| 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 | Ø12.7 (1/2) to Comp. Module |
| | Gas | mm (inch) | Ø15.88 (5/8) to IDU | Ø19.05 (3/4) to Comp. Module |
| | Drain | mm (inch) | - | 25 (1) |
| Sound Pressure Level | Cooling (Rated) | dB(A) | 45 | 45 |
| | Heating (Rated) | dB(A) | 45 | 45 |
| Sound Power Level* | | dB(A) | - | - |
| Communication Cable | | mm² x No. (VCTF-SB) | 2C × 1.0 ~ 1.5 to IDU | 2C × 1.0 ~ 1.5 to Comp. Module |
| Refrigerant | Refrigerant Name | | R410A | R410A |
| | Precharged Amount | kg | 2.0 | - |
| | t-CO ₂ eq | | 4.175 | - |
| | Control | | - | Electronic Expansion Valve |
| Power Supply | | V, Ø, Hz | 380-415 , 3 , 50 | 220-240, 1, 50 |

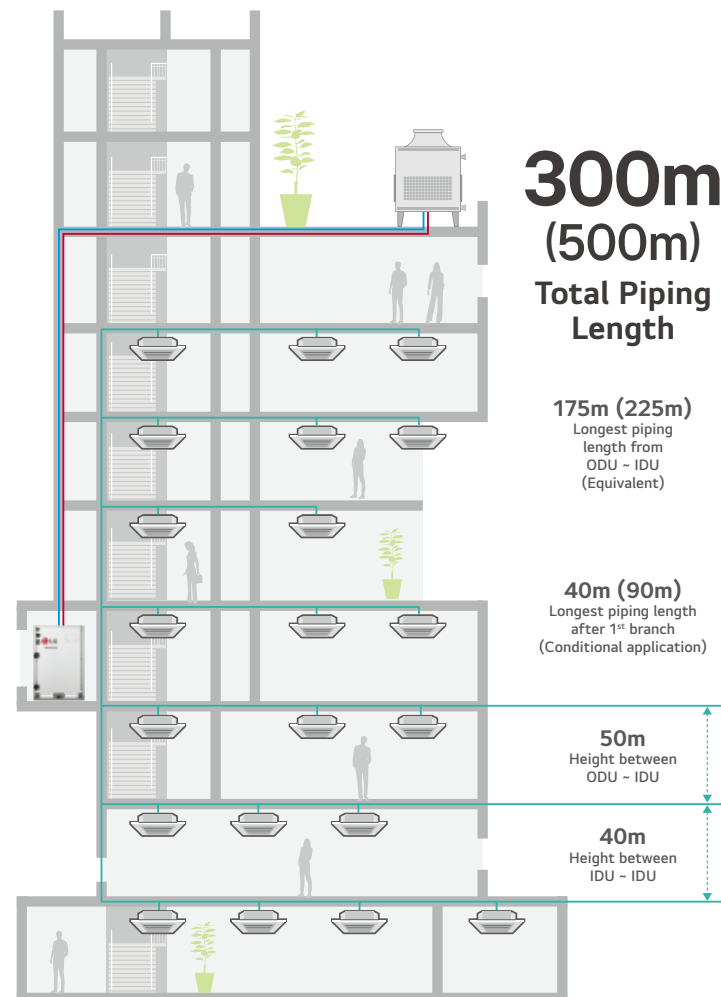
※ ○ : Applied, - : Not Applied

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Note

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 - Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
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MULTI VTM WATER 5



Highlights



Energy savings



Reliability

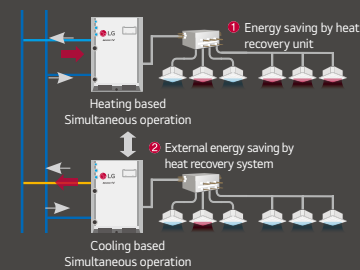


Convenience

- 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



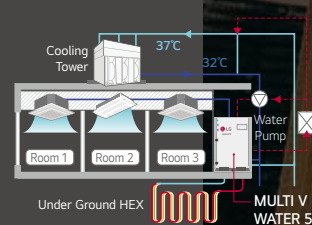
Operation independent of weather conditions

Outdoor Temp



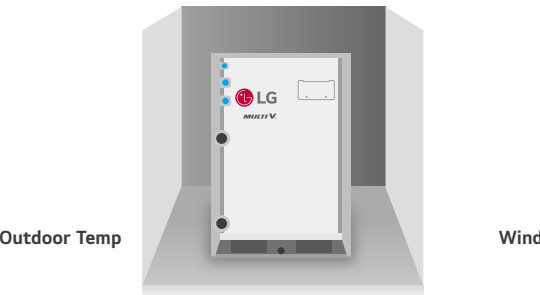
Wind

Combination of Cooling, Heating and Hot Water Solution



High Efficiency System Regardless of External Conditions

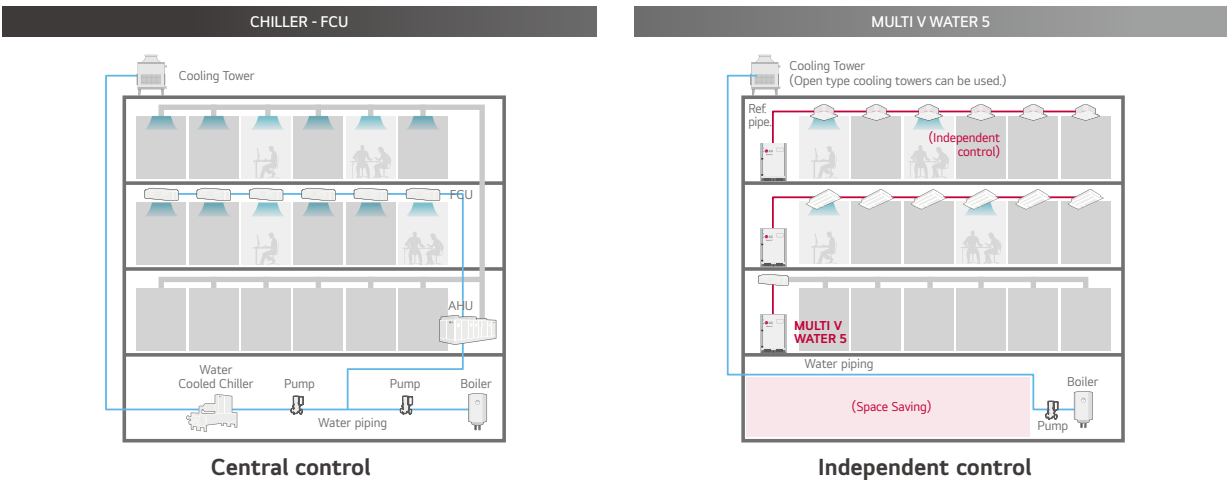
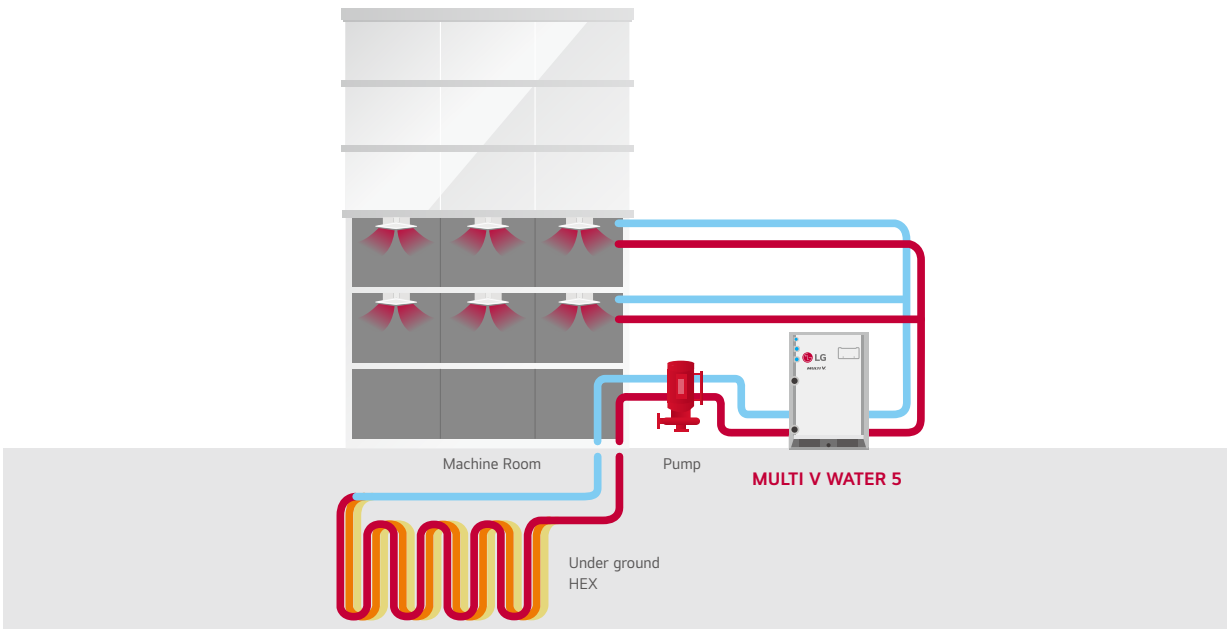
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER 5 is the optimal solution.



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.

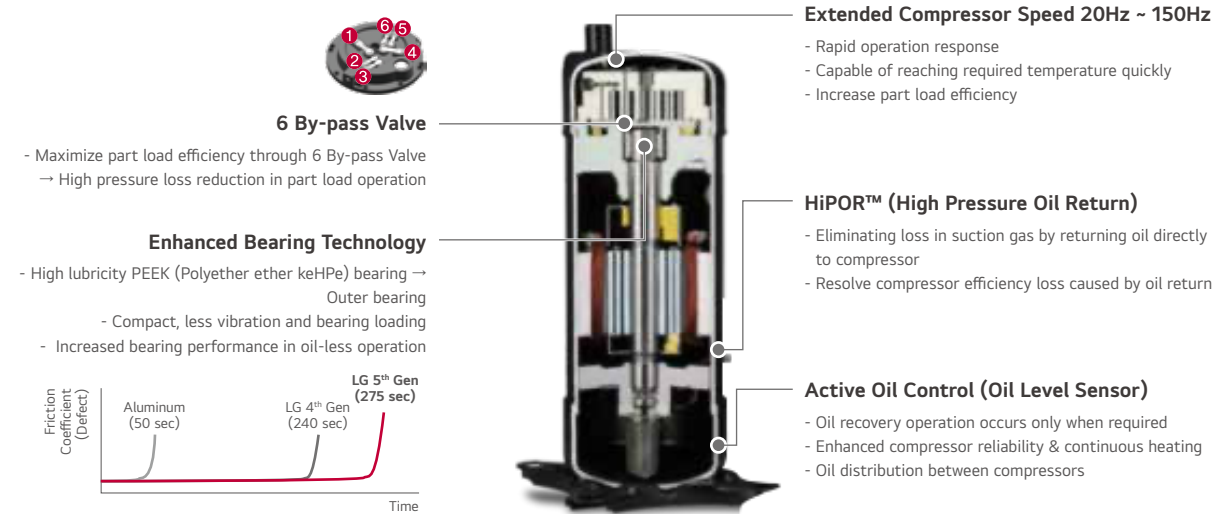
- The Circulating water temperature range is between -5°C ~ 45°C
- Antifreeze should be applied depending on the application



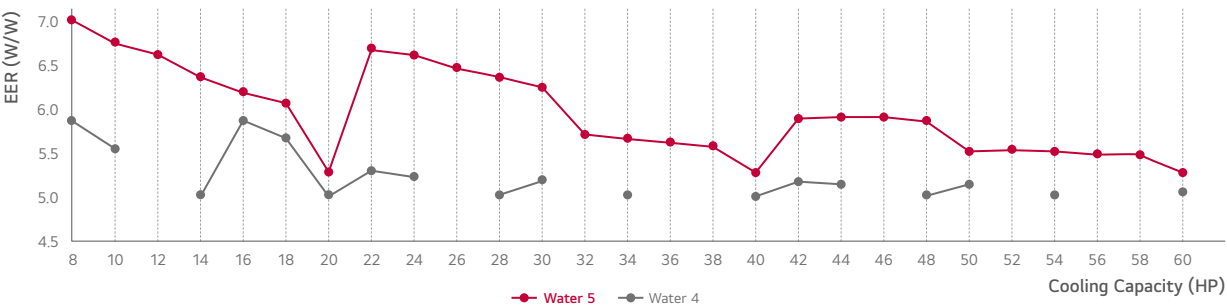
Economical, Highly Efficient System

LG's key technologies are integrated into the inverter compressor

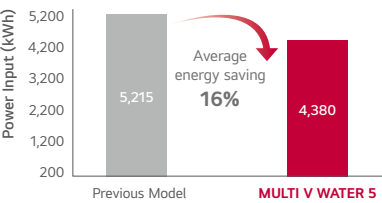
With 5th generation inverter compressor, the MULTI V WATER 5 boasts top-class energy efficiency.



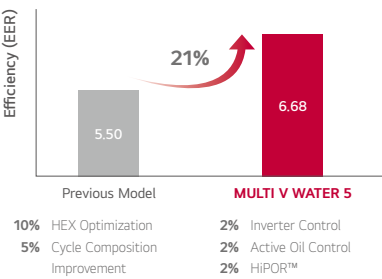
EER Comparison



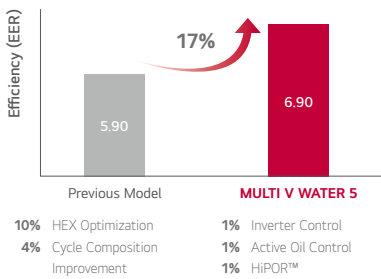
Economical, Highly Efficient System



Energy Efficiency Ratio (Cooling)



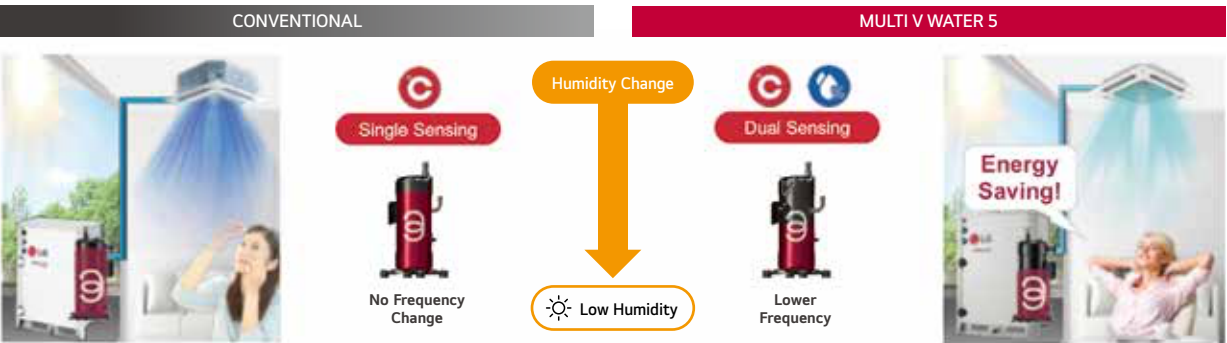
Coefficient of Performance (Heating)



※ Comparison between 10HP (28kW)

Dual Sensing Control

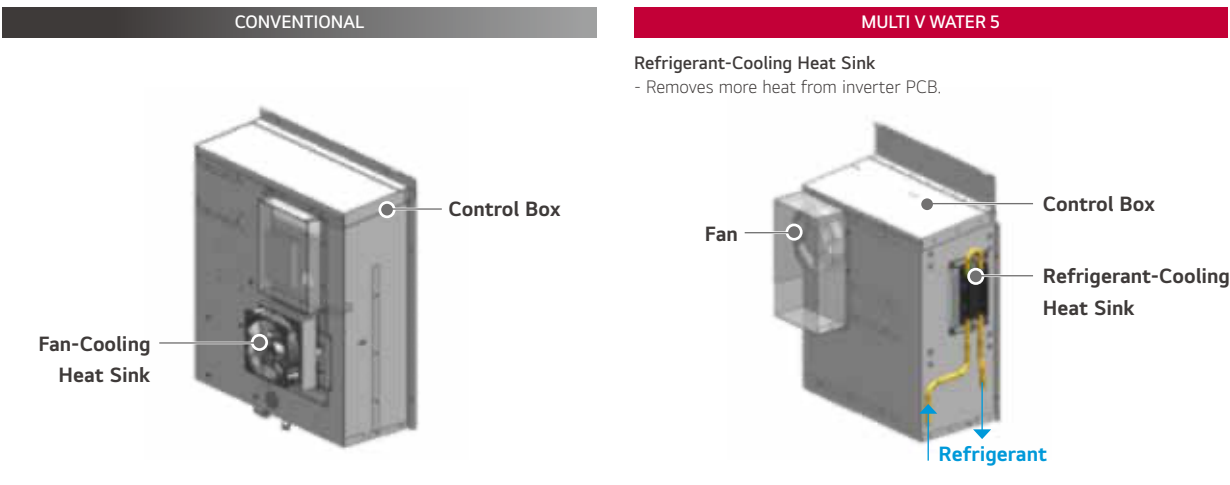
MULTI V WATER 5 can operate more appropriately in low humidity conditions by referring to the indoor temperature and humidity.



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

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

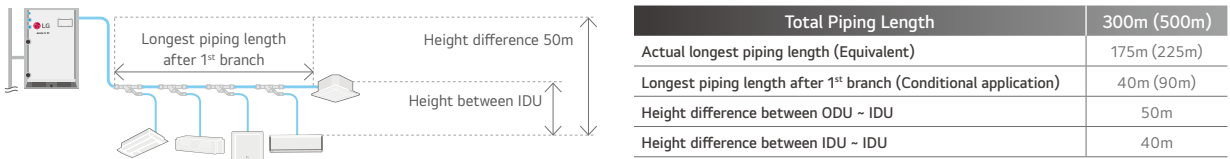
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 60HP (168kW) by combination.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--|----|------|------|------|------|----|---|------|------|------|----|------|------|---|-------|-----|-------|-------|-------|-------|-----|-------|-------|-------|-------|-----|
| 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 | <div></div> <div>1 Unit</div> | | | | | | | <div></div> <div>2 Units</div> | | | | | | | <div></div> <div>3 Units</div> | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Longest Piping Length

Sufficient pipe length limitation in design and installation for various buildings

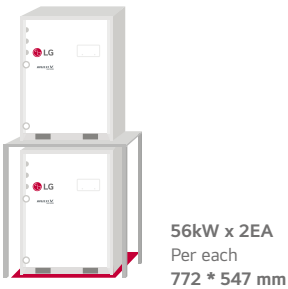
Provides flexible installation up to 300m (500m) of total piping length. As water pipes are not connected to indoor units, users are free from water leakage problems.



Compact Size

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

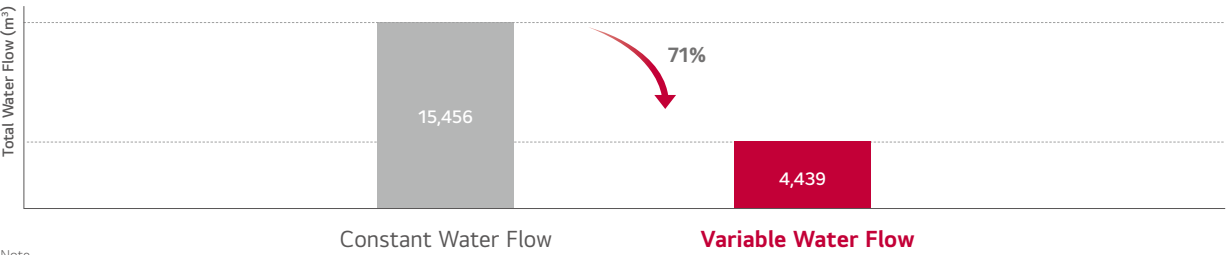
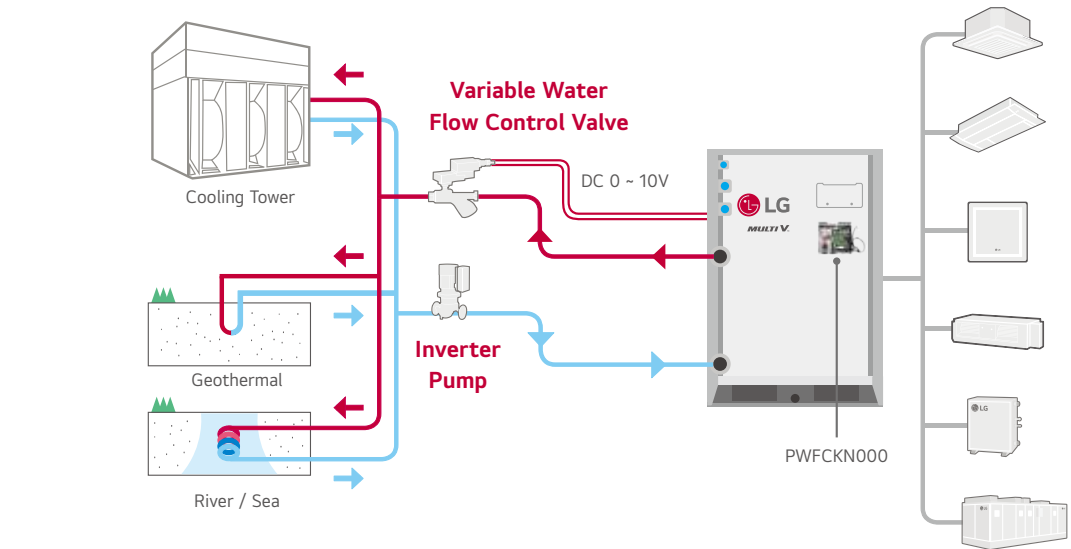
The optimal design of the compact, lightweight outdoor unit enables double stacking, which results in 50% savings in installation space.



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.

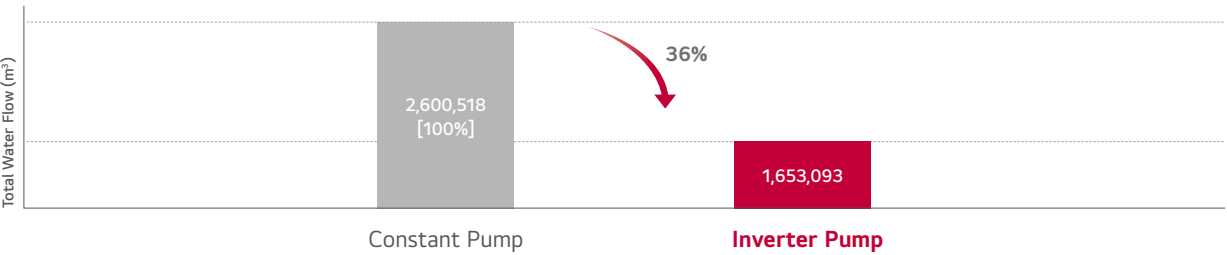


Note
1. Location : Paris, France
2. Office, 68,000m²
3. Operation time : 1,344 hours (Cooling period)

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

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

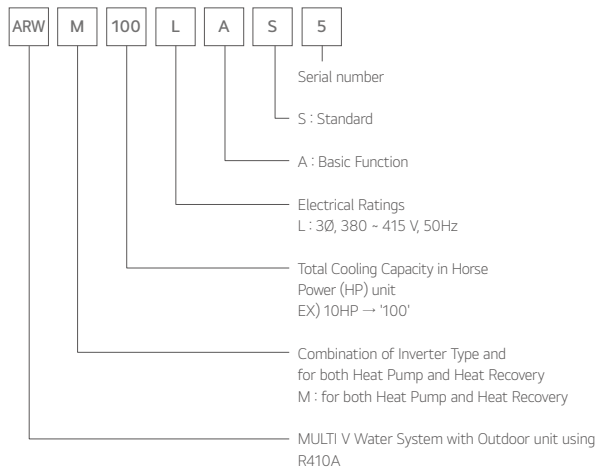
10 years energy cost (\$)



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

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

Nomenclature



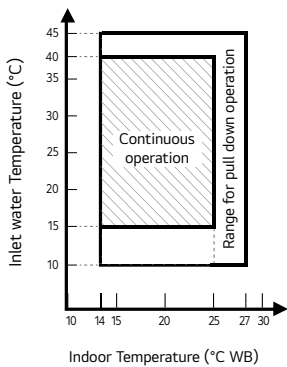
Outdoor Units Function

| Category | Functions | MULTI V WATER 5 |
|----------------------------|-----------------------------------|-----------------|
| Key Refrigerant Components | HiPOR™ (High Pressure Oil Return) | ○ |
| | Oil Sensor | ○ |
| Reliability | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| | Restart Delay (3-minutes) | ○ |
| | Self Diagnosis | ○ |
| | Soft Start | ○ |
| Central Controller | AC Ez | PQCSZ250S0 |
| | 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 | PQNFBI7C0 |
| | ACP5 (w U60FT) | ○ |
| | Cloud Gateway | PWFMDB200 |
| | Modbus RTU | PMBUSB00A |
| Intergration Device | IO Module | PVDSMN000 |
| | Variable Water Flow Control Kit | PWFCKN000 |
| | Cool / Heat Selector | PRDSMB |
| | AHU comm. Kit | PAHCMR000 |
| | | PAHCM5000 |
| | AHU Controller Module | PAHCMC000 |
| | | PAHCMM000 |
| | AHU Control Kit | PAHCNM000 |
| | EEV Kit | PRLK048A0 |
| | | PRLK096A0 |
| | | PRLK396A0 |
| | | PRLK594A0 |
| | | - |
| | Water comm. Module | - |
| | PDI Standard | PPWRDB000 |
| PDI Premium | PQNUD1S40 | |
| ETC | DS (Data Saving) Module | PVADTN000 |

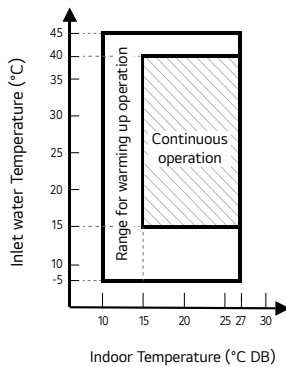
※ ○ : Applied, - : Not Applied

Operation Limits

Cooling



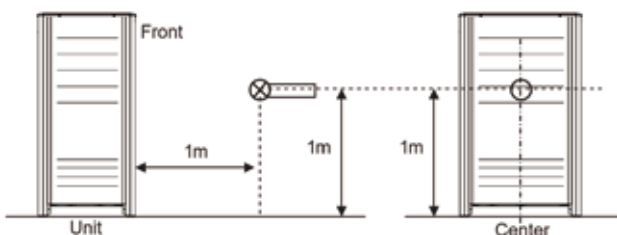
Heating



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

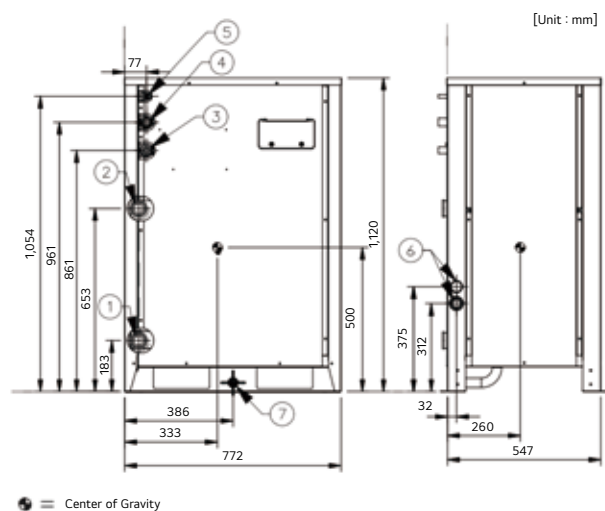
1. Data is valid at diffuse field condition.
2. Data is valid at nominal operating condition.
3. Reference acoustic pressure 0 dB = 20μPa.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions. (Power 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 | | ARBLB01621 |
| | | for | ARBLB03321 |
| | | Heat Recovery | ARBLB07121 |
| | | | ARBLB14521 |
| | | | ARBLN01621 |
| | | for | ARBLN03321 |
| | | Heat Pump | ARBLN07121 |
| | | | ARBLN14521 |
| 2 | Header | 4 branch | ARBL054 |
| | | 7 branch | ARBL057 |
| | | 4 branch | ARBL104 |
| | | 7 branch | ARBL107 |
| | | 10 branch | ARBL1010 |
| | | 10 branch | ARBL2010 |
| 3 | Connection pipe of Outdoor Units | | ARCNN21 |
| | | | ARCNN31 |

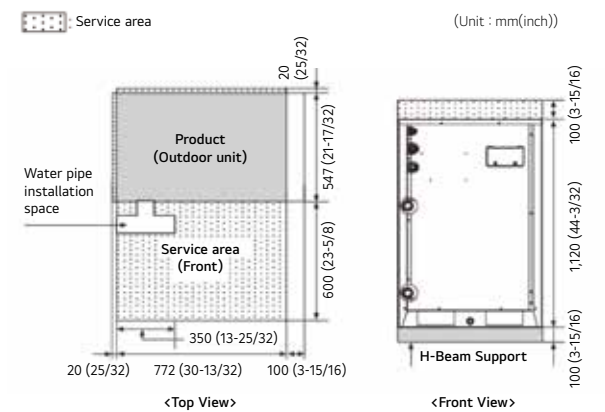
Dimensions

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

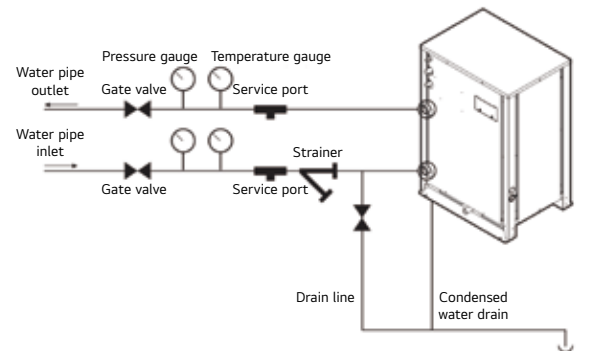


| No. | Part Name | Description |
|-----|----------------------------------|--------------|
| 1 | Water inlet connection | PT 40 Female |
| 2 | Water outlet connection | PT 40 Female |
| 3 | High pressure pipe connection | - |
| 4 | Low pressure pipe connection | - |
| 5 | Liquid pipe connection | -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

Individual Installation



Water Piping Installation



Precaution of Installation

1. Do not install the unit at the outdoors.
 - Otherwise it may cause fire, electric shock and trouble.
2. Keep the water temperature between **10 ~ 45°C** Other it may cause the breakdown.
 - Standard water supply temperature is **30°C** for Cooling and **20°C** for heating.
3. Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
4. Be careful of the **Water Purity Control**. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control' in Installation manual.)
5. The water pressure resistance of the water pipe system of this product is **1.98MPa**.
6. Always install **a trap** so that the drained water does not back flush.
7. Install **a pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
8. **Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
9. Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
10. 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.)
11. When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is 50 %.
Reference flow rate : 10 HP - 96 LPM, 20 HP - 192 LPM)
12. 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.
 - 1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
 - 2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
 - 3) When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of coolant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
 - 4) And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
 - 5) As a result of the damage of the heat exchanger from the freezing, the 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 | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm ² | 45 | 45 | 45 |
| | Head Loss | kPa | 10.6 | 15.9 | 22.1 |
| | Rated Water Flow | LPM | 77 | 96 | 115 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 5,300 x 1 | 5,300 x 1 | 5,300 x 1 |
| | Oil Type | | FVC68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | cc | 3,400 | 3,400 | 3,400 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø12.7 (1/2) |
| | Gas Pipe | mm (inch) | Ø19.05 (3/4) | Ø22.22 (7/8) | Ø28.58 (1-1/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 (Internal Thread) | PT 40 (Internal Thread) | PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 (Internal Thread) | PT 40 (Internal Thread) | PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | 772 x 1,120 x 547 | 772 x 1,120 x 547 | 772 x 1,120 x 547 |
| Dimensions (W x H x D) - Shipping | | mm | 820 x 1,245 x 645 | 820 x 1,245 x 645 | 820 x 1,245 x 645 |
| Net Weight | | kg | 149 x 1 | 149 x 1 | 149 x 1 |
| Shipping Weight | | kg | 157 x 1 | 157 x 1 | 157 x 1 |
| Sound Pressure Level | Cooling / Heating | dB(A) | 45.0 / 48.0 | 48.0 / 48.0 | 48.0 / 51.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 57.0 / 60.0 | 60.0 / 60.0 | 60.0 / 63.0 |
| Communication Cable | | mm ² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | - | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 3.5 | 3.5 | 3.5 |
| | t-CO ₂ eq | - | 7.306 | 7.306 | 7.306 |
| | 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 | | | 13 (20) | 16 (25) | 20 (30) |

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.)

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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.6 | 37.7 | 24.6 |
| | Rated Water Flow | LPM | 135 | 154 | 173 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 | (Inverter) x 1 |
| | Motor Output x Number | W x No. | 5,300 x 1 | 5,300 x 1 | 5,300 x 1 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | cc | 3,400 | 3,400 | 3,400 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Gas Pipe | mm (inch) | Ø28.58 (1-1/8) | Ø28.58 (1-1/8) | Ø28.58 (1-1/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 (Internal Thread) | PT 40 (Internal Thread) | PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 (Internal Thread) | PT 40 (Internal Thread) | PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | 772 x 1,120 x 547 | 772 x 1,120 x 547 | 772 x 1,120 x 547 |
| Dimensions (W x H x D) - Shipping | | mm | 820 x 1,245 x 645 | 820 x 1,245 x 645 | 820 x 1,245 x 645 |
| Net Weight | | kg | 149 x 1 | 149 x 1 | 158 x 1 |
| Shipping Weight | | kg | 157 x 1 | 157 x 1 | 166 x 1 |
| Sound Pressure Level | Cooling / Heating | dB(A) | 52.0 / 53.0 | 52.0 / 56.0 | 54.0 / 57.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 64.0 / 65.0 | 64.0 / 68.0 | 66.0 / 69.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | - | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 3.5 | 3.5 | 4.5 |
| | t-CO ₂ eq | - | 7.306 | 7.306 | 9.394 |
| | 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 | | | 23 (35) | 26 (40) | 29 (45) |

Note

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

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

3. Performances are based on the following conditions

- Cooling : Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
- Heating : Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

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

Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.

Therefore, these values can be increased owing to ambient conditions during operation.

5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)

6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.9 | 22.1 + 15.9 | 22.1 + 22.1 |
| | Rated Water Flow | LPM | 192 | 115 + 96 | 115 + 115 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 1 | (Inverter) x 2 | (Inverter) x 2 |
| | Motor Output x Number | W x No. | 5,300 x 1 | 5,300 x 2 | 5,300 x 2 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | cc | 3,400 | 6,800 | 6,800 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Gas Pipe | mm (inch) | Ø28.58 (1-1/8) | Ø28.58 (1-1/8) | Ø34.9 (1-3/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | 772 x 1,120 x 547 | (772 x 1,120 x 547) x 2 | (772 x 1,120 x 547) x 2 |
| Dimensions (W x H x D) - Shipping | | mm | 820 x 1,245 x 645 | (820 x 1,245 x 645) x 2 | (820 x 1,245 x 645) x 2 |
| Net Weight | | kg | 158 x 1 | 149 x 2 | 149 x 2 |
| Shipping Weight | | kg | 166 x 1 | 157 x 2 | 157 x 2 |
| Sound Pressure Level | Cooling / Heating | dB(A) | 55.0 / 56.0 | 51.0 / 53.0 | 51.0 / 54.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 67.0 / 68.0 | 64.0 / 66.0 | 64.0 / 67.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | - | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 4.5 | 3.5 + 3.5 | 3.5 + 3.5 |
| | t-CO ₂ eq | - | 9.394 | 14.613 | 14.613 |
| | 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 | | | 32 (50) | 35 (44) | 39 (48) |

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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.6 + 22.1 | 37.7 + 22.1 | 24.6 + 22.1 |
| | Rated Water Flow | LPM | 135 + 115 | 154 + 115 | 173 + 115 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 2 |
| | Motor Output x Number | W x No. | 5,300 x 2 | 5,300 x 2 | 5,300 x 2 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | cc | 6,800 | 6,800 | 6,800 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø34.9 (1-3/8) | Ø34.9 (1-3/8) | Ø34.9 (1-3/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | (772 x 1,120 x 547) x 2 | (772 x 1,120 x 547) x 2 | (772 x 1,120 x 547) x 2 |
| Dimensions (W x H x D) - Shipping | | mm | (820 x 1,245 x 645) x 2 | (820 x 1,245 x 645) x 2 | (820 x 1,245 x 645) x 2 |
| Net Weight | | kg | 149 x 2 | 149 x 2 | (158 x 1) + (149 x 1) |
| Shipping Weight | | kg | 157 x 2 | 157 x 2 | (166 x 1) + (157 x 1) |
| Sound Pressure Level | Cooling / Heating | dB(A) | 53.0 / 55.0 | 53.0 / 57.0 | 55.0 / 58.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 66.0 / 68.0 | 66.0 / 70.0 | 68.0 / 71.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | | - | R410A | R410A |
| | Precharged Amount in Factory | kg | 3.5 + 3.5 | 3.5 + 3.5 | 4.5 + 3.5 |
| | t-CO ₂ eq | - | 14.613 | 14.613 | 16.700 |
| | 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 | | | 42 (52) | 45 (56) | 49 (60) |

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 conditons 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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.9 + 22.1 | 29.9 + 29.6 | 29.9 + 37.7 |
| | Rated Water Flow | LPM | 192 + 115 | 192 + 135 | 192 + 154 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 2 |
| | Motor Output x Number | W x No. | 5,300 x 2 | 5,300 x 2 | 5,300 x 2 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | cc | 6,800 | 6,800 | 6,800 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø34.9 (1-3/8) | Ø34.9 (1-3/8) | Ø41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | (772 x 1,120 x 547) x 2 | (772 x 1,120 x 547) x 2 | (772 x 1,120 x 547) x 2 |
| Dimensions (W x H x D) - Shipping | | mm | (820 x 1,245 x 645) x 2 | (820 x 1,245 x 645) x 2 | (820 x 1,245 x 645) x 2 |
| Net Weight | | kg | (158 x 1) + (149 x 1) | (158 x 1) + (149 x 1) | (158 x 1) + (149 x 1) |
| Shipping Weight | | kg | (166 x 1) + (157 x 1) | (166 x 1) + (157 x 1) | (166 x 1) + (157 x 1) |
| Sound Pressure Level | Cooling / Heating | dB(A) | 56.0 / 57.0 | 57.0 / 58.0 | 57.0 / 59.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 69.0 / 70.0 | 70.0 / 71.0 | 70.0 / 72.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | | - | R410A | R410A |
| | Precharged Amount in Factory | kg | 4.5 + 3.5 | 4.5 + 3.5 | 4.5 + 3.5 |
| | t-CO ₂ eq | - | 16.700 | 16.700 | 16.700 |
| | 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 | | | 52 (64) | 55 (64) | 58 (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 conditons 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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.9 + 24.6 | 29.9 + 29.9 | 29.9 + 29.6 + 10.6 |
| | Rated Water Flow | LPM | 192 + 173 | 192 + 192 | 192 + 135 + 77 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 2 | 5,300 x 2 | 5,300 x 3 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | | 6,800 | 6,800 | 10,200 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | 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 | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | | - | R410A | R410A |
| | Precharged Amount in Factory | kg | 4.5 + 4.5 | 4.5 + 4.5 | 4.5 + 3.5 + 3.5 |
| | t-CO ₂ eq | | - | 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 conditons 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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.9 + 29.6 + 15.9 | 29.9 + 29.6 + 22.1 | 29.9 + 29.6 + 29.6 |
| | Rated Water Flow | LPM | 192 + 135 + 96 | 192 + 135 + 115 | 192 + 135 + 135 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 3 | 5,300 x 3 | 5,300 x 3 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | | 10,200 | 10,200 | 10,200 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | 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 | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | | - | 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 ₂ eq | | - | 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 conditons 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/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 29.9 + 29.9 + 15.9 | 29.9 + 29.9 + 22.1 | 29.9 + 29.9 + 29.6 |
| | Rated Water Flow | LPM | 192 + 192 + 96 | 192 + 192 + 115 | 192 + 192 + 135 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 3 | 5,300 x 3 | 5,300 x 3 |
| | Oil Type | | FW68D (PVE) | FW68D (PVE) | FW68D (PVE) |
| | Oil Charge | | 10,200 | 10,200 | 10,200 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | (772 x 1,120 x 547) x 3 | (772 x 1,120 x 547) x 3 | (772 x 1,120 x 547) x 3 |
| Dimensions (W x H x D) - Shipping | | mm | (820 x 1,245 x 645) x 3 | (820 x 1,245 x 645) x 3 | (820 x 1,245 x 645) x 3 |
| Net Weight | | kg | (158 x 2) + (149 x 1) | (158 x 2) + (149 x 1) | (158 x 2) + (149 x 1) |
| Shipping Weight | | kg | (166 x 2) + (157 x 1) | (166 x 2) + (157 x 1) | (166 x 2) + (157 x 1) |
| Sound Pressure Level | Cooling / Heating | dB(A) | 59.0 / 59.0 | 59.0 / 60.0 | 59.0 / 60.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 73.0 / 73.0 | 73.0 / 74.0 | 73.0 / 74.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | - | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 4.5 + 4.5 + 3.5 | 4.5 + 4.5 + 3.5 | 4.5 + 4.5 + 3.5 |
| | t-CO ₂ eq | - | 26.094 | 26.094 | 26.094 |
| | 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 conditons 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/cm² | 45 | 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 | | 10,200 | 10,200 | 10,200 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) | Ø41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) |
| | Outlet | mm | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) | PT 40 + PT 40 + PT 40 (Internal Thread) |
| | Drain Outlet | mm | PT 20 (External Thread) | PT 20 (External Thread) | PT 20 (External Thread) |
| Dimensions (W x H x D) - Net | | mm | (772 x 1,120 x 547) x 3 | (772 x 1,120 x 547) x 3 | (772 x 1,120 x 547) x 3 |
| Dimensions (W x H x D) - Shipping | | mm | (820 x 1,245 x 645) x 3 | (820 x 1,245 x 645) x 3 | (820 x 1,245 x 645) x 3 |
| Net Weight | | kg | (158 x 2) + (149 x 1) | 158 x 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 | 60.0 / 61.0 |
| Sound Power Level | Cooling / Heating | dB(A) | 73.0 / 75.0 | 74.0 / 75.0 | 74.0 / 75.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Refrigerant | Refrigerant Name | - | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 4.5 + 4.5 + 3.5 | 4.5 + 4.5 + 4.5 | 4.5 + 4.5 + 4.5 |
| | t-CO ₂ eq | - | 26.094 | 28.181 | 28.181 |
| | 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 conditons 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.)

124 ~ 201

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.

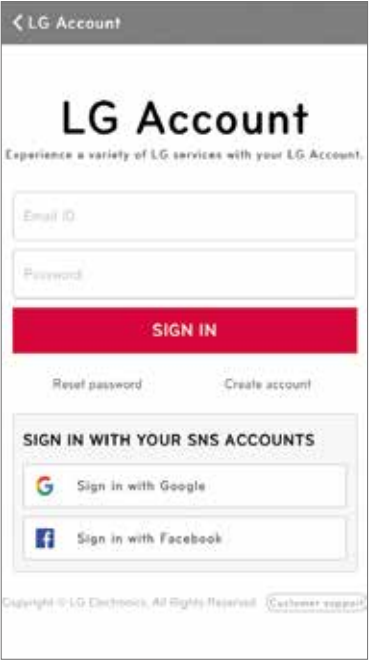
Integrated Home Appliances Control

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

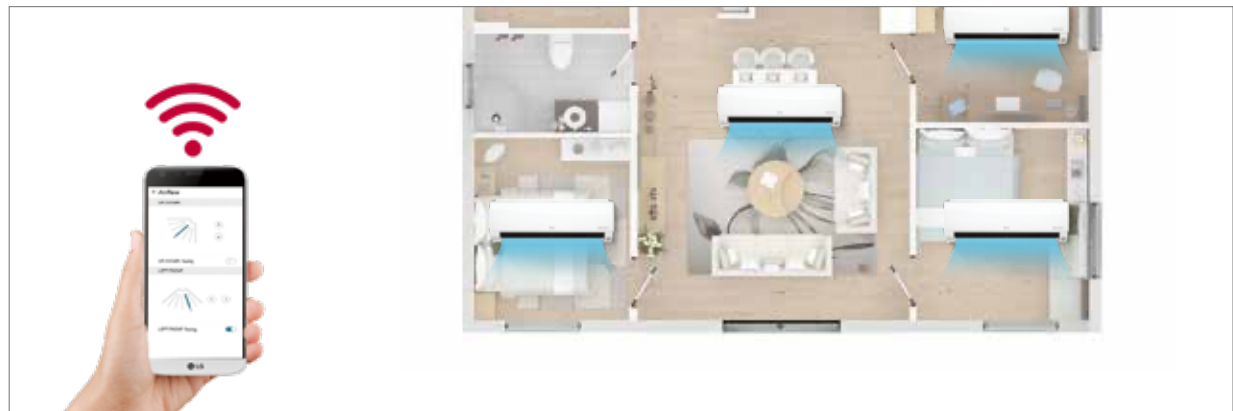
Each user can set and save temperature and fan speed preferences in the ThinQ app. If a household has more than one indoor unit, separate temperature settings can be set for each.

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.

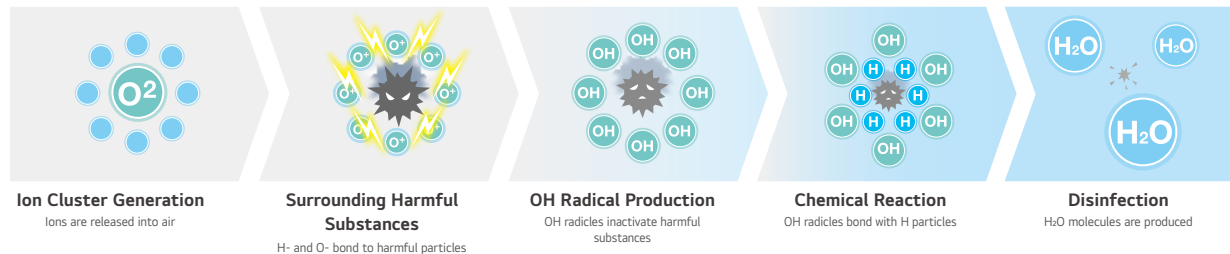
Ionizer^{PLUS}

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.

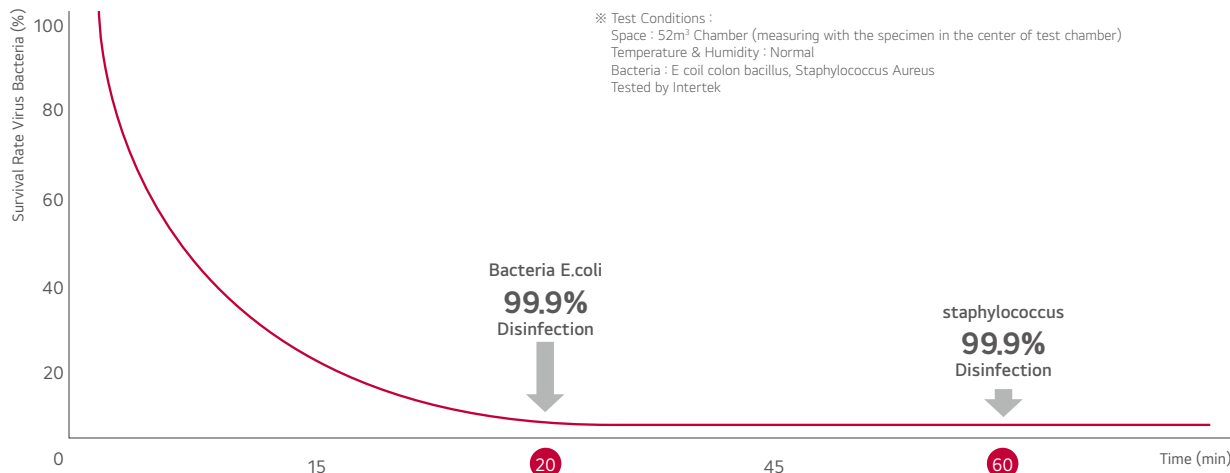
Reduction and Deodorization (Utilizes Over 8 Million Ions)

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



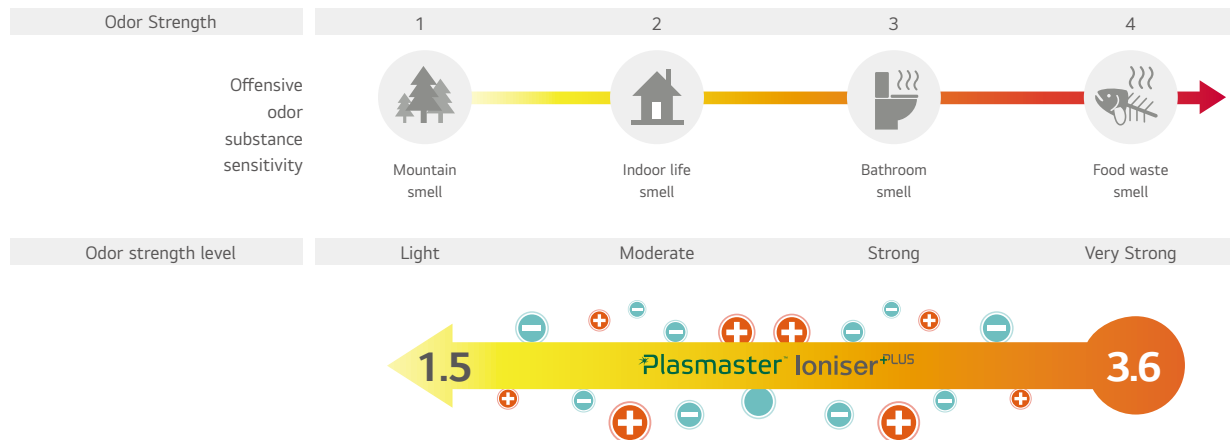
Reduction Performance Evaluations

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/m³) 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: 8m³ 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.

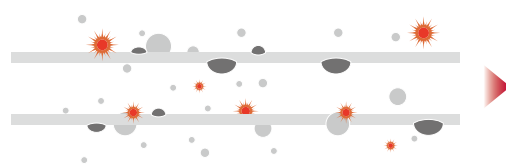
Pain Point

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.

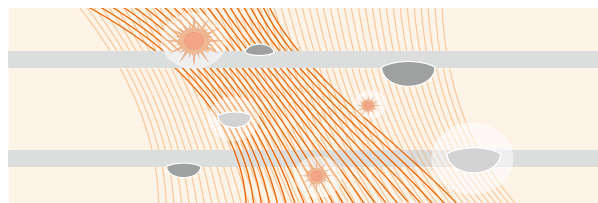


Cleans Filter with Regular Airflow

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.



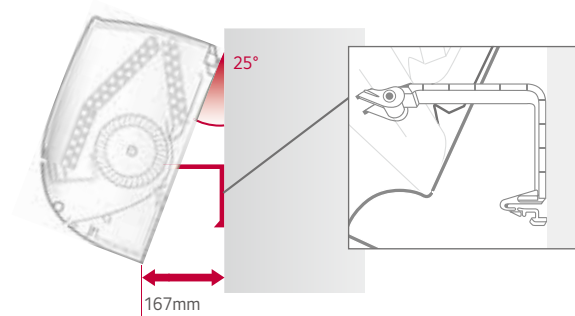
The indoor environment remains odorless with the advanced deodorizing function.



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.

Installation Support Clip

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



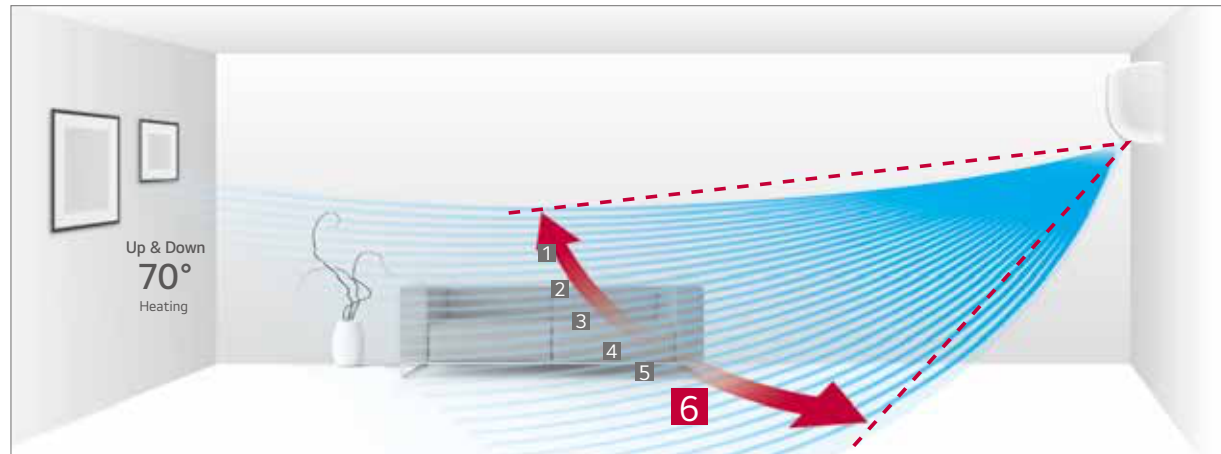
Auto Swing

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

※ Specifications may vary for each model.

6-Step Vane Control up to 70°

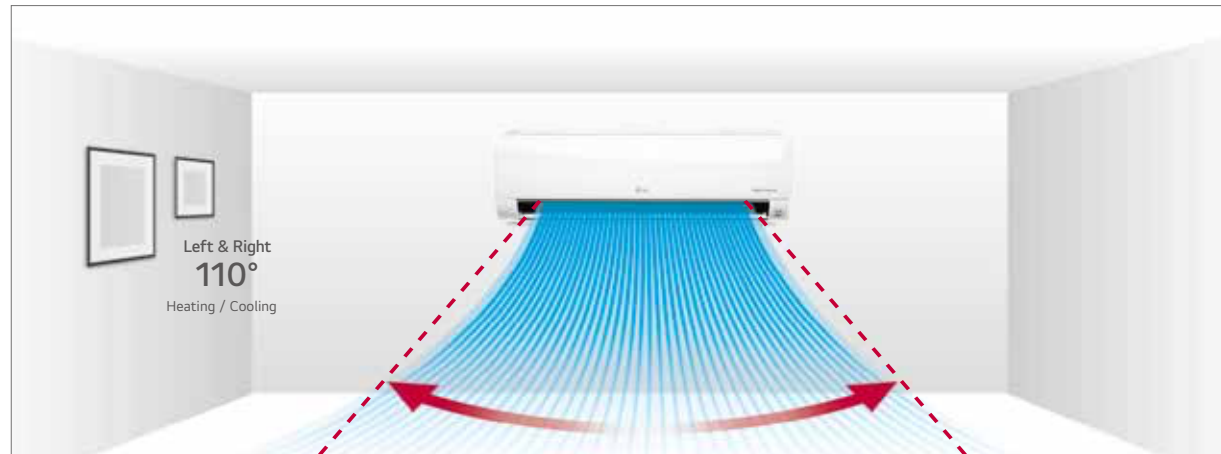
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control up to 110°

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



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

Easy and Simple Control

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

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



Up / Down Swing

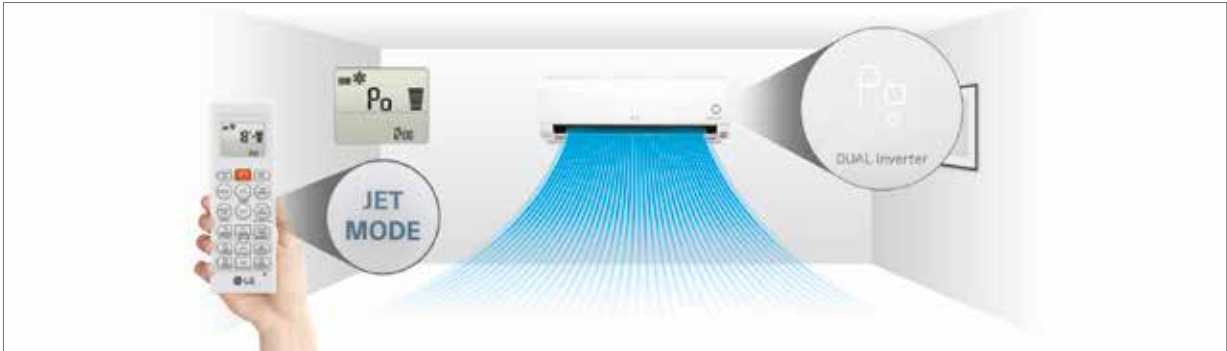
Jet Cool

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

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

One Click “Jet Mode”

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



More Powerful Performance

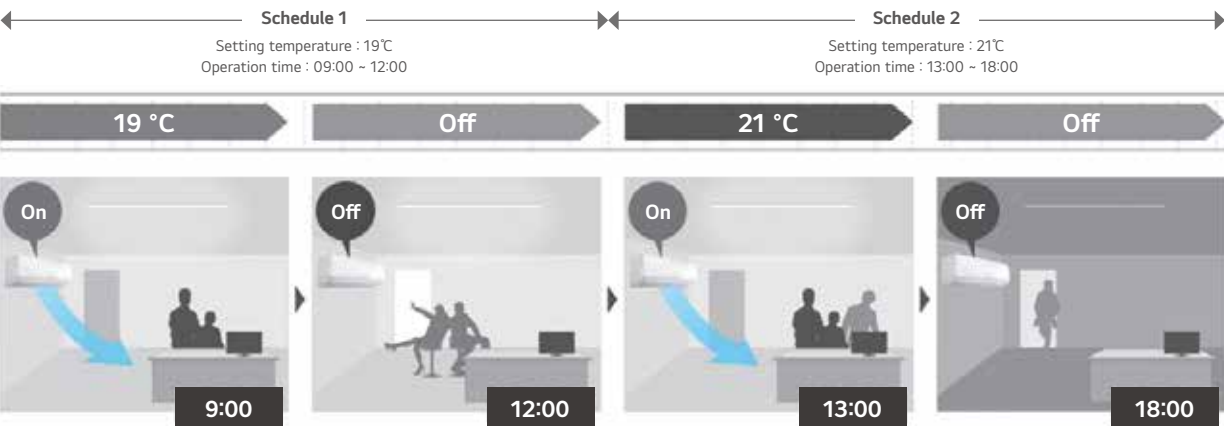
By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of air flow is increased to 13 CMM.



Scheduled Operation

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

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



Two Thermistors Control

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



Group Control

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) | Mirror (Black) | Mirror (Black) | Mirror (Black) | Mirror (Black) |
| RAL Code | | | RAL 9005 | RAL 9005 | RAL 9005 | RAL 9005 | RAL 9005 |
| Dimensions (W x H x D) | Body | mm | 837 x 308 x 192 | 837 x 308 x 192 | 837 x 308 x 192 | 837 x 308 x 192 | 837 x 308 x 192 |
| | Shipping | mm | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 |
| Fan | Type | | Cross Flow Fan | 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 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 6.8 / 6.5 / 5.9 | 7.2 / 6.8 / 5.9 | 7.8 / 7.2 / 5.9 | 8.5 / 7.8 / 6.8 | 10.5 / 9.5 / 6.8 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

Accessories

| CHASSIS | ARNU05GSJR4 | ARNU07GSJR4 | ARNU09GSJR4 | ARNU12GSJR4 | ARNU15GSJR4 |
|---|-------------|--|-------------|-------------|-------------|
| Drain Pump | | | - | | |
| Cassette Cover | | | - | | |
| Refrigerant Leak Detector | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | |
| EEV Kit | | | PRGK024A0 | | |
| Multi-tenant Power Module | | | PINPMB001 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (Washable) | | | ○ | | |
| Ion Generator | | | ○ | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | ○ | | |

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

ARNU18GSKR4 / ARNU24GSKR4



| MODEL | | UNIT | ARNU18GSKR4 | ARNU24GSKR4 |
|-----------------------------------|----------------------------|------------|-------------------------|-------------------------|
| Cooling Capacity | | kW | 5.6 | 7.1 |
| Heating Capacity | | kW | 6.3 | 7.5 |
| Power Input (H / M / L) | Nominal | W | 32 / 26 / 16 | 39 / 26 / 16 |
| | | | | |
| Exterior Color | | | Mirror (Black) | Mirror (Black) |
| RAL Code | | | RAL 9005 | RAL 9005 |
| Dimensions (W x H x D) | Body | mm | 998 x 345 x 212 | 998 x 345 x 212 |
| | Shipping | mm | 1,063 x 420 x 274 | 1,063 x 420 x 274 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 58 x 1 | 58 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 14.0 / 12.0 / 10.5 | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

Accessories

| CHASSIS | ARNU18GSKR4 | ARNU24GSKR4 |
|---|--|-------------|
| Drain Pump | | - |
| Cassette Cover | | - |
| Refrigerant Leak Detector | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | | PRGK024A0 |
| Multi-tenant Power Module | | PINPMB001 |
| Robot Cleaner | | - |
| Pre Filter (Washable) | | ○ |
| Ion Generator | | ○ |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | - |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ |
| Wi-Fi | | ○ |

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

ARNU07GSF14 / ARNU09GSF14
ARNU12GSF14



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

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | | PRGK024A0 | |
| Multi-tenant Power Module | | PINPMB001 | |
| Robot Cleaner | | - | |
| Pre Filter (Washable) | | ○ | |
| Ion Generator | | - | |
| CO ₂ Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ | |
| Wi-Fi | | PWFMD200 ¹⁾ | |

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

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



| MODEL | | UNIT | ARNU05GSJ*4 | ARNU07GSJ*4 | ARNU09GSJ*4 | ARNU12GSJ*4 | ARNU15GSJ*4 |
|-----------------------------------|----------------------------|------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Cooling Capacity | | kW | 1.6 | 2.2 | 2.8 | 3.6 | 4.5 |
| Heating Capacity | | kW | 1.8 | 2.5 | 3.2 | 4.0 | 5.0 |
| Power Input (H / M / L) | Nominal | W | 11 / 10 / 9 | 12 / 11 / 9 | 13 / 12 / 9 | 15 / 13 / 11 | 23 / 18 / 11 |
| | | | | | | | |
| Exterior Color | | | White | White | White | White | White |
| RAL Code | | | RAL 9016 | RAL 9016 | RAL 9016 | RAL 9016 | RAL 9016 |
| Dimensions (W x H x D) | Body | mm | 818 x 316 x 189 | 818 x 316 x 189 | 818 x 316 x 189 | 818 x 316 x 189 | 818 x 316 x 189 |
| | Shipping | mm | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 | 892 x 381 x 249 |
| Fan | Type | | Cross Flow Fan | 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 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 6.8 / 6.5 / 5.9 | 7.2 / 6.8 / 5.9 | 7.8 / 7.2 / 5.9 | 8.5 / 7.8 / 6.8 | 10.5 / 9.5 / 6.8 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 30 / 29 / 28 | 32 / 30 / 28 | 34 / 32 / 28 | 37 / 34 / 30 | 42 / 39 / 32 |
| Sound Power Levels (H / M / L) | | dB(A) | 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 | | mm² | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | |
| EEV Kit | | | PRGK024A0 | | |
| Multi-tenant Power Module | | | PINPMB001 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (Washable) | | | ○ | | |
| Ion Generator | | | ○ | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | ○ | | |

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

ARNU18GSK*4 / ARNU24GSK*4



| MODEL | | UNIT | ARNU18GSK*4 | ARNU24GSK*4 |
|-----------------------------------|----------------------------|------------|-------------------------|-------------------------|
| Cooling Capacity | | kW | 5.6 | 7.1 |
| Heating Capacity | | kW | 6.3 | 7.5 |
| Power Input (H / M / L) | Nominal | W | 32 / 26 / 16 | 39 / 26 / 16 |
| | Exterior Color | | White | White |
| RAL Code | | | RAL 9016 | RAL 9016 |
| Dimensions (W x H x D) | Body | mm | 975 x 354 x 209 | 975 x 354 x 209 |
| | Shipping | mm | 1,063 x 420 x 274 | 1,063 x 420 x 274 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 58 x 1 | 58 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 14.0 / 12.0 / 10.5 | 15.2 / 12.7 / 10.5 |
| | Motor Type | | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 12.2 | 12.2 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 43 / 39 / 34 | 46 / 41 / 34 |
| Sound Power Levels (H / M / L) | | dB(A) | 59 / 56 / 52 | 63 / 56 / 52 |
| Power Supply | | V / Ø / Hz | 220-230-240 / 1 / 50-60 | 220-230-240 / 1 / 50-60 |
| Transmission Cable | | mm² | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | - |
| Pre Filter (Washable) | ○ | |
| Ion Generator | ○ | |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | ○ | |

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

ARNU30GSVA4 / ARNU36GSVA4



| MODEL | | UNIT | ARNU30GSVA4 | ARNU36GSVA4 |
|-----------------------------------|----------------------------|------------|-------------------------|-------------------------|
| Cooling Capacity | | kW | 8.8 | 10.4 |
| Heating Capacity | | kW | 9.4 | 10.8 |
| Power Input (H / M / L) | Nominal | W | 54 / 43 / 31 | 85 / 51 / 36 |
| | Exterior Color | | White | White |
| RAL Code | | | RAL 9016 | RAL 9016 |
| Dimensions (W x H x D) | Body | mm | 1,190 x 346 x 265 | 1,190 x 346 x 265 |
| | Shipping | mm | 1,265 x 432 x 335 | 1,265 x 432 x 335 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 113 x 1 | 113 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 23.0 / 20.0 / 17.0 | 26.0 / 23.0 / 19.0 |
| | Motor Type | | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 16.6 | 16.6 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 49 / 44 / 42 | 52 / 47 / 43 |
| Sound Power Levels (H / M / L) | | dB(A) | 60 / 60 / 56 | 63 / 60 / 58 |
| Power Supply | | V / Ø / Hz | 220-230-240 / 1 / 50-60 | 220-230-240 / 1 / 50-60 |
| Transmission Cable | | mm² | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | - | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | - |
| Pre Filter (Washable) | ○ | |
| Ion Generator | - | - |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMD200 ¹⁾ | |

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

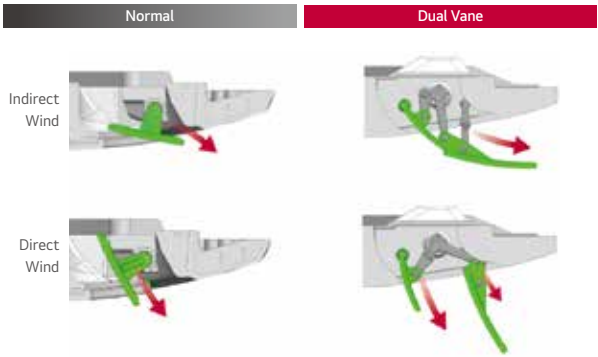


4 Way Air Flow with New Design

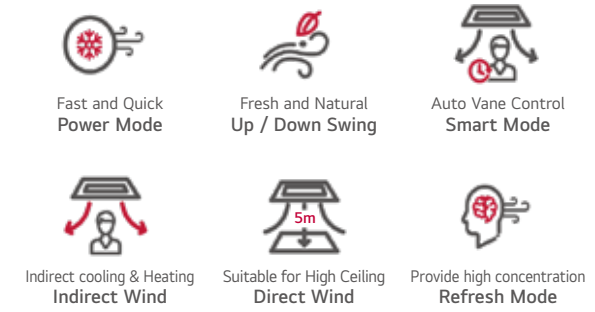
New Excellent Technology (NET) certifies the new 4 way dual vane design that promotes comfortable and convenient airflow.



*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

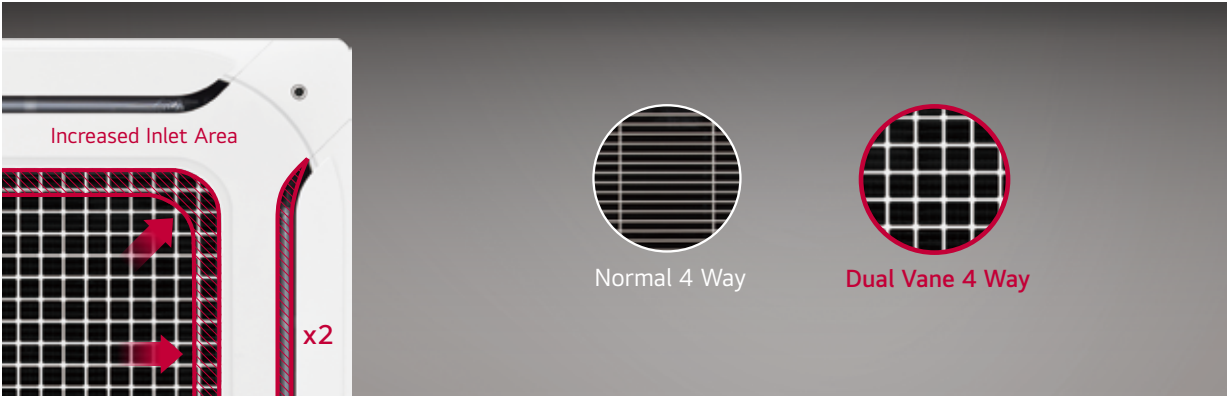
- Retail
- School
- Office
- Hotel
- Dormitory
- Restaurant

| CASSETTE | | 4 WAY | 2 WAY | 1 WAY |
|-------------------|------------------------|-------|-------|-------|
| Smart | Wi-Fi | ○ | ○ | ○ |
| Energy Efficiency | Human Detect Sensor | ○ | - | - |
| Comfort | Drain Pump | ○ | ○ | ○ |
| | 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.



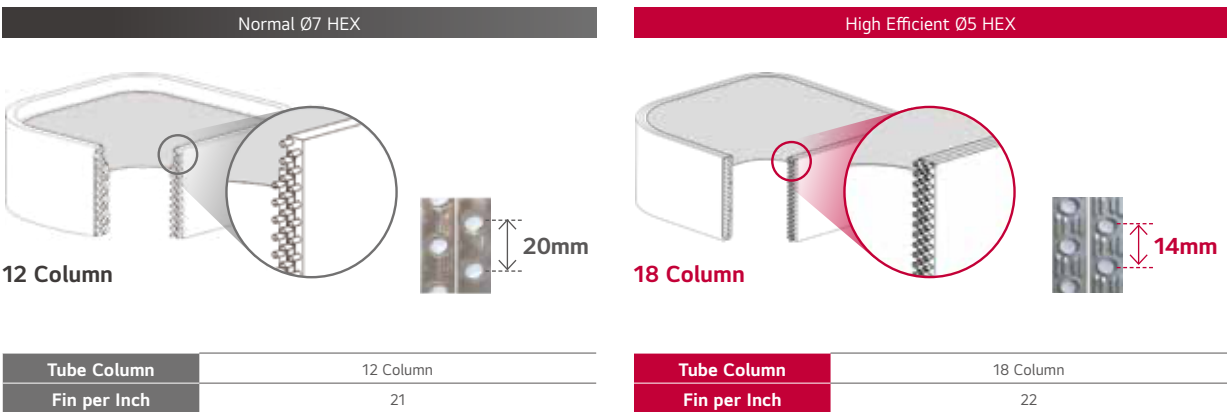
Full 3D Turbo Fan

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%.



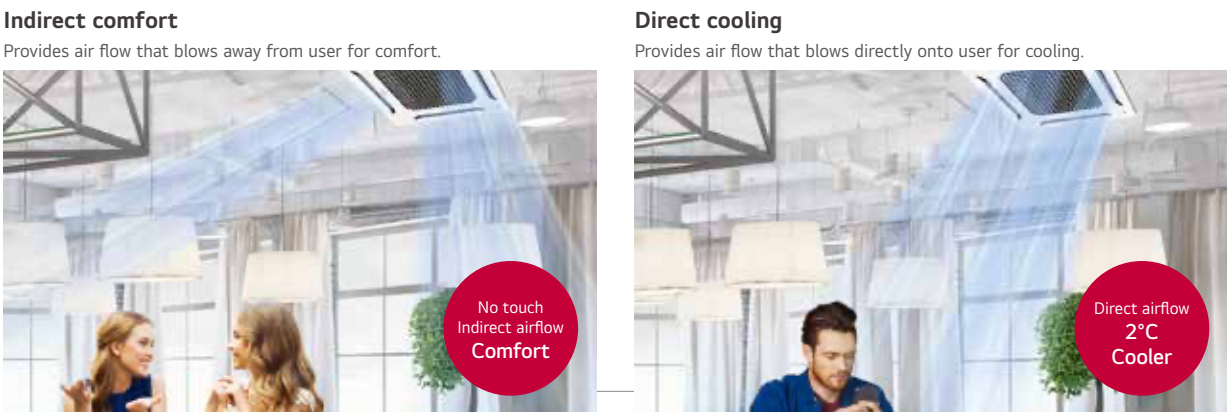
Ceiling to Floor Temperature Sensing

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



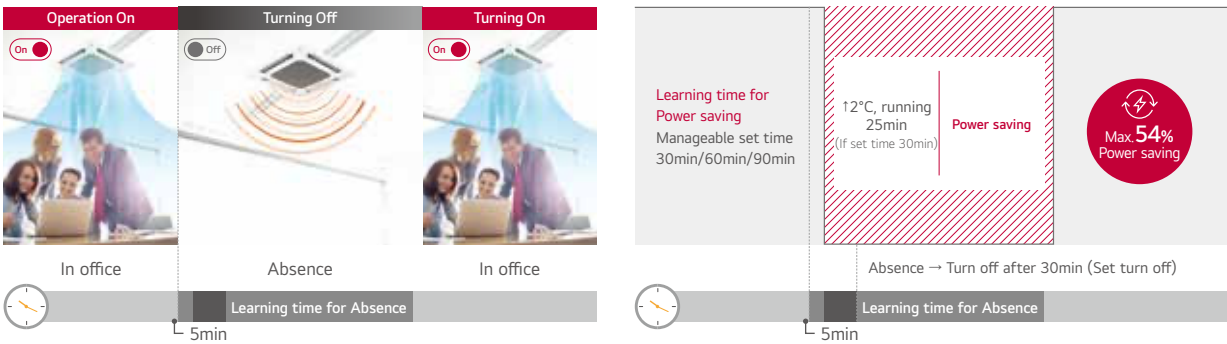
Human Detection Air Flow

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

Real-time indoor air quality level displayed on indoor unit

② Remote controller

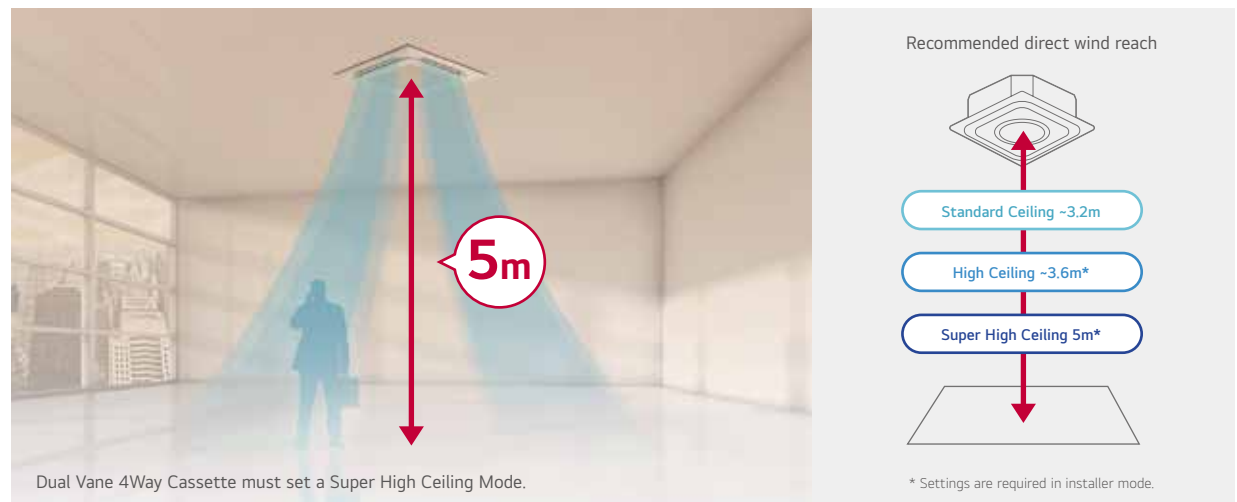
Air quality level displayed on remote controller

③ Mobile

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.

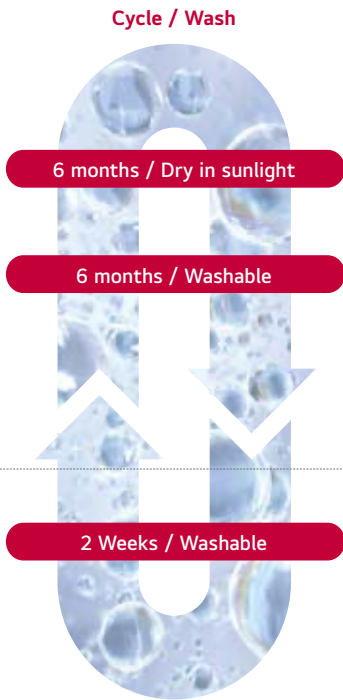
Easy Filter Cleaning for Air Purification

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.

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.

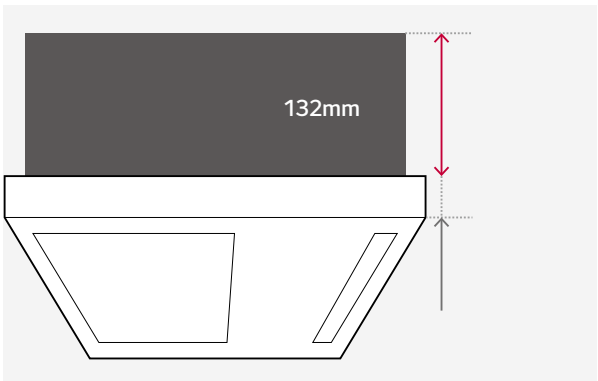


Cooler on a hot day.



Minimized Height (1 Way)

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



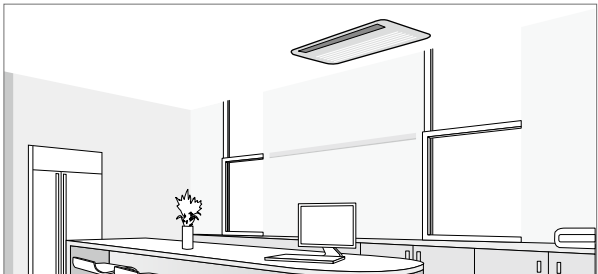
Size Comparison

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

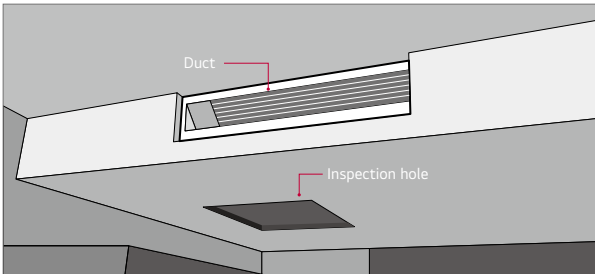
Flexible Installation (1 Way)

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

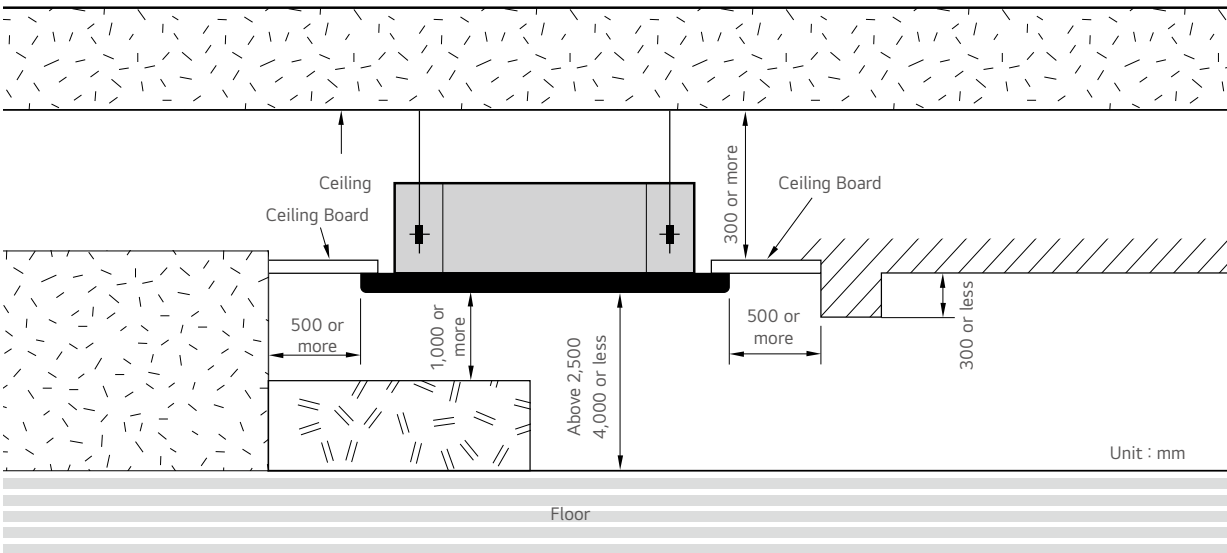
1 Way cassette



Duct



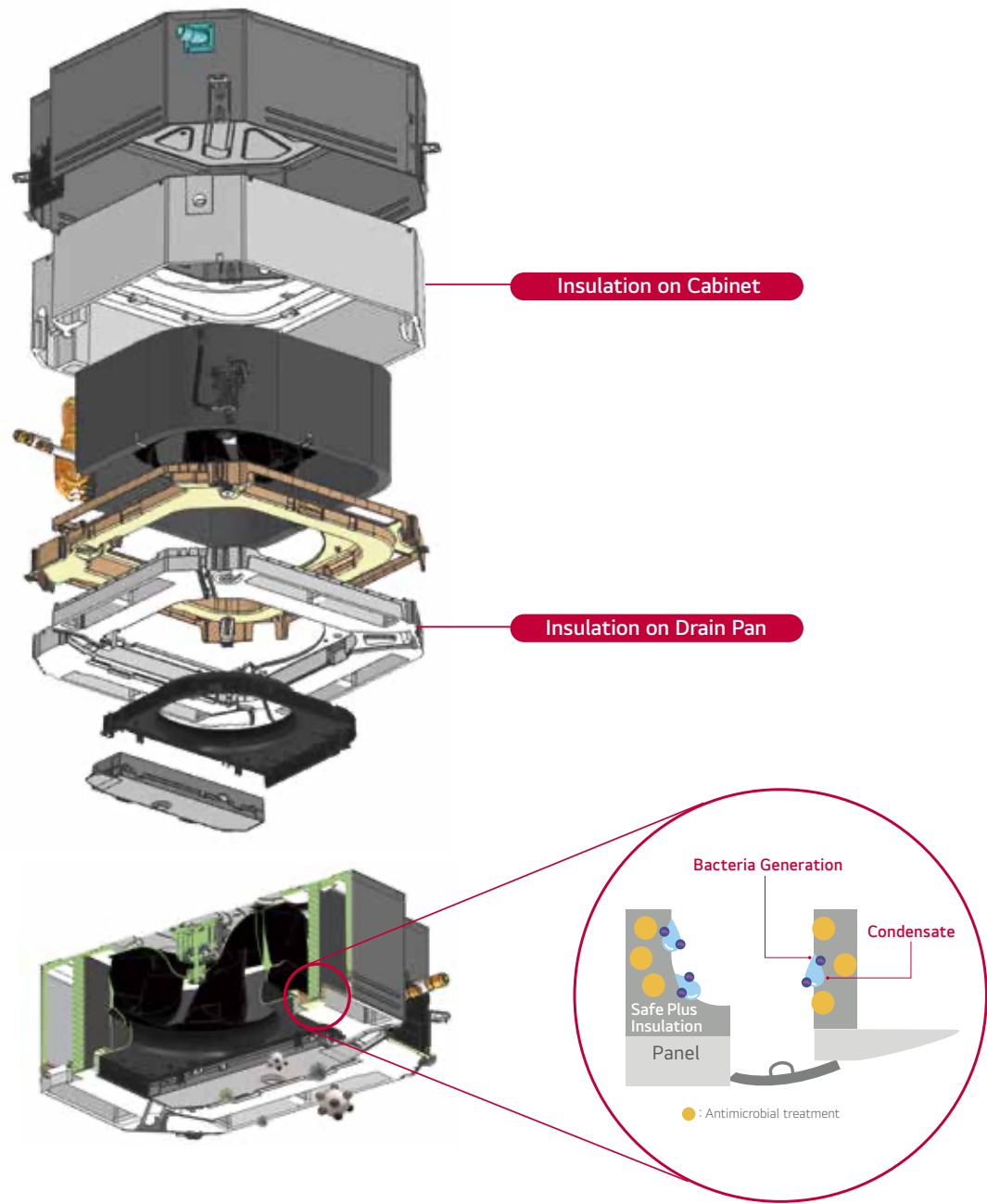
Installation Standard (1 Way)



Safe Plus Insulation

Why LG Safe Plus Insulation?

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



What's the hygiene inside of your air conditioner?



Example of EPS Pollution case.

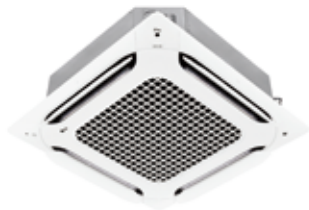
Today's air conditioners all generally provide fast cooling and energy saving features, as well as the ability to filter bacteria, dust and mold for purified air. However, how hygienic is the inside of the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

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



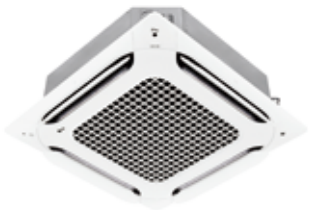
| MODEL | | UNIT | ARNU24GTBB4 | ARNU28GTBB4 | ARNU30GTBB4 |
|------------------------------------|-------------------------------|-------------|----------------------|----------------------|----------------------|
| Cooling Capacity | | kW | 7.1 | 8.2 | 9.0 |
| Heating Capacity | | kW | 8.0 | 9.2 | 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 |
| Decoration Panel (Accessory) | Model Name | | PT-AAGW0 PT-AFGW0 | PT-AAGW0 PT-AFGW0 | PT-AAGW0 PT-AFGW0 |
| | 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℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 ₂ 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 | | PTVSAA0 | |
| 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 |
| Decoration Panel (Accessory) | Model Name | | PT-AAGW0 PT-AFGW0 | PT-AAGW0 PT-AFGW0 | PT-AAGW0 PT-AFGW0 |
| | 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 |
| | | | | | |

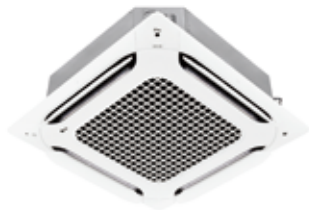
Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 ₂ 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 | | PTVSAA0 | |
| 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 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | Shipping | mm | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 |
| Fan | Type | | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan |
| | Motor Output x Number | W | 166 x 1 | 166 x 1 | 166 x 1 | 166 x 1 | 166 x 1 | 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 | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | 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 | 1.0 ~ 1.5 x 2 | 1.0~1.5 x 2 | 1.0 ~ 1.5 x 2 |
| Decoration Panel (Accessory) | Model Name | | PT-AAGW0 | PT-AAGW0 | PT-AAGW0 | PT-AAGW0 | PT-AAGW0 | PT-AAGW0 |
| | | | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 |
| | Exterior Color | | White | White | White | White | White | White |
| | RAL Code | | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 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 |

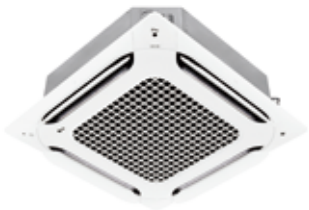
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | | | |
| EEV Kit | - | | | | | |
| Multi-tenant Power Module | PINPMB001 | | | | | |
| Robot Cleaner | - | | | | | |
| Pre Filter (Washable) | ○ | | | | | |
| Ion Generator | PAS-NATDR2 | | | | | |
| CO ₂ 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 | PTVSAA0 | | | | | |
| 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 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | Shipping | mm | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 | 922 x 360 x 917 |
| Fan | Type | | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan |
| | Motor Output x Number | W | 166 x 1 | 166 x 1 | 166 x 1 | 166 x 1 | 166 x 1 |
| | Running Current | A | 0.38 | 0.46 | 0.60 | 0.80 | 0.88 |
| | Air Flow Rate (H / M / L) | m³/min | 23 / 21 / 19 | 24 / 22 / 20 | 28 / 24 / 21 | 31 / 28 / 24 | 33 / 28 / 26 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| | | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | 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-AAGW0 | PT-AAGW0 | PT-AAGW0 | PT-AAGW0 |
| | | | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 | PT-AFGW0 |
| | Exterior Color | | White | White | White | White | White |
| | RAL Code | | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 |
| | Net Weight | kg | 7.1 / 7.5 | 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℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | | |
| EEV Kit | - | | | | |
| Multi-tenant Power Module | PINPMB001 | | | | |
| Robot Cleaner | - | | | | |
| Pre Filter (Washable) | ○ | | | | |
| Ion Generator | PAS-NATDR2 | | | | |
| CO ₂ 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 | PTVSAA0 | | | | |
| 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) | m³/min | 7.5 / 7.0 / 6.6 | 7.5 / 7.0 / 6.6 | 8.0 / 7.5 / 7.1 | 8.7 / 8.0 / 7.0 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| | | | | | | |
| | | | | | | |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 12.6 | 12.6 | 13.7 | 13.7 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 29 / 27 / 26 | 29 / 27 / 26 | 30 / 29 / 27 | 32 / 30 / 27 |
| Sound Power Levels (H / M / L) | | dB(A) | 47 / 46 / 45 | 47 / 46 / 45 | 48 / 46 / 45 | 51 / 48 / 45 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-QAGW0 | PT-QAGW0 | PT-QAGW0 | PT-QAGW0 |
| | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | |
| EEV Kit | | PRGK024A0 (~4.5kW) | | |
| Multi-tenant Power Module | | PINPMB001 | | |
| Robot Cleaner | | - | | |
| Pre Filter (Washable) | | ○ | | |
| Ion Generator | | PAS-NATDR2 | | |
| CO ₂ 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) | m³/min | 11.0 / 10.0 / 9.3 | 11.2 / 11.0 / 10.0 | 12.0 / 11.1 / 9.4 |
| | Motor Type | | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 15.0 | 15.0 | 15.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 36 / 34 / 32 | 37 / 35 / 34 | 40 / 38 / 34 |
| Sound Power Levels (H / M / L) | | dB(A) | 52 / 50 / 46 | 52 / 50 / 46 | 54 / 52 / 46 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-QAGW0 | PT-QAGW0 | PT-QAGW0 |
| | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | | PRGK024A0 (~4.5kW) | |
| Multi-tenant Power Module | | PINPMB001 | |
| Robot Cleaner | | - | |
| Pre Filter (Washable) | | ○ | |
| Ion Generator | | PAS-NATDR2 | |
| CO ₂ 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 |
| | Type | | Turbo Fan | Turbo Fan |
| Fan | Motor Output x Number | W x No. | 37 x 1 | 37 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 10.8 / 9.8 / 9.1 | 11.1 / 10.3 / 9.1 |
| | Motor Type | | BLDC | BLDC |
| | | | | |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 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 | | mm² | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Decoration Panel (Accessory) | Model Name | | PT-USC | PT-USC |
| | Exterior Color | | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 1,100 x 28 x 690 | 1,100 x 28 x 690 |
| | Net Weight | kg | 4.7 | 4.7 |
| | | | | |

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

Accessories

| CHASSIS | ARNU09GTSC4 | ARNU12GTSC4 |
|---|--|-------------|
| Drain Pump | ○ | |
| Cassette Cover | - | |
| Refrigerant Leak Detector | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 (~5.6kW) | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | |
| Pre Filter (Washable) | ○ | |
| Ion Generator | - | |
| CO ₂ Sensor | - | |
| Ventilation Kit | - | |
| IR Receiver | - | |
| Zone Controller | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), 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 |
| | Type | | Turbo Fan | Turbo Fan |
| Fan | Motor Output x Number | W x No. | 37 x 1 | 37 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 11.8 / 10.8 / 9.8 | 14.5 / 12.4 / 10.3 |
| | Motor Type | | BLDC | BLDC |
| | | | | |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 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 | | mm² | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Decoration Panel (Accessory) | Model Name | | PT-USC | PT-USC |
| | Exterior Color | | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 1,100 x 28 x 690 | 1,100 x 28 x 690 |
| | Net Weight | kg | 4.7 | 4.7 |
| | | | | |

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

Accessories

| CHASSIS | ARNU18GTSC4 | ARNU24GTSC4 |
|---|--|-------------|
| Drain Pump | ○ | |
| Cassette Cover | - | |
| Refrigerant Leak Detector | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 (~5.6kW) | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | |
| Pre Filter (Washable) | ○ | |
| Ion Generator | - | |
| CO ₂ Sensor | - | |
| Ventilation Kit | - | |
| IR Receiver | - | |
| Zone Controller | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), 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 |
| | | | | | |
| Dimensions (W x H x D) | Body | mm | 860 x 132 x 450 | 860 x 132 x 450 | 860 x 132 x 450 |
| | Shipping | mm | 1,129 x 259 x 538 | 1,129 x 259 x 538 | 1,129 x 259 x 538 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 30 x 1 | 30 x 1 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 8.2 / 7.3 / 6.4 | 9.2 / 8.6 / 8.2 | 10.0 / 9.2 / 8.2 |
| | Motor Type | | BLDC | BLDC | BLDC |
| | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UAHG0, PT-UAHW0, PT-UPHG0 | PT-UAHG0, PT-UAHW0, PT-UPHG0 | PT-UAHG0, 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 |
| | | | 1,100 x 34 x 500 | 1,100 x 34 x 500 | 1,100 x 34 x 500 |
| | | | 1,160 x 34 x 500 | 1,160 x 34 x 500 | 1,160 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 ₂ 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 | | PTAHTP0 | |
| 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 |
| | | | | |
| Dimensions (W x H x D) | Body | mm | 1,180 x 132 x 450 | 1,180 x 132 x 450 |
| | Shipping | mm | 1,499 x 259 x 538 | 1,499 x 259 x 538 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 30 x 1 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 13.3 / 12.1 / 10.9 | 14.6 / 13.3 / 11.5 |
| | Motor Type | | BLDC | BLDC |
| | | | | |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 15.3 | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-TAHG0, PT-TAHW0, PT-TPHG0 | PT-TAHG0, PT-TAHW0, PT-TPHG0 |
| | Exterior Color | | Noble White | Noble White |
| | RAL Code | | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 1,480 x 34 x 500 | 1,480 x 34 x 500 |
| | | | 1,420 x 34 x 500 | 1,420 x 34 x 500 |
| | | | 1,480 x 34 x 500 | 1,480 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 ₂ 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 | PTAHTP0 | |
| 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 | ○ |
| Comfort | Sleep Mode | ○ |
| | Timer (On / Off) | ○ |
| | Timer (Weekly) | ○ |
| | Two Thermistor Control | ○ |
| | Group Control | ○ |

※ ○: Applied, -: Not applied

Slim and Compact Design

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

Other Brand

384mm

330mm

※ Product : 48 kBtu

15% less body height helps the ceilings remain high

Minimal Exposure Design

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

Other Brand

① Drain Pipe

② Refrigerant Pipe

Exposed Hanger

Piping in One Direction Only

Hanger Cover

Perfect Round Air Flow

Perfect round flow without blind spots.

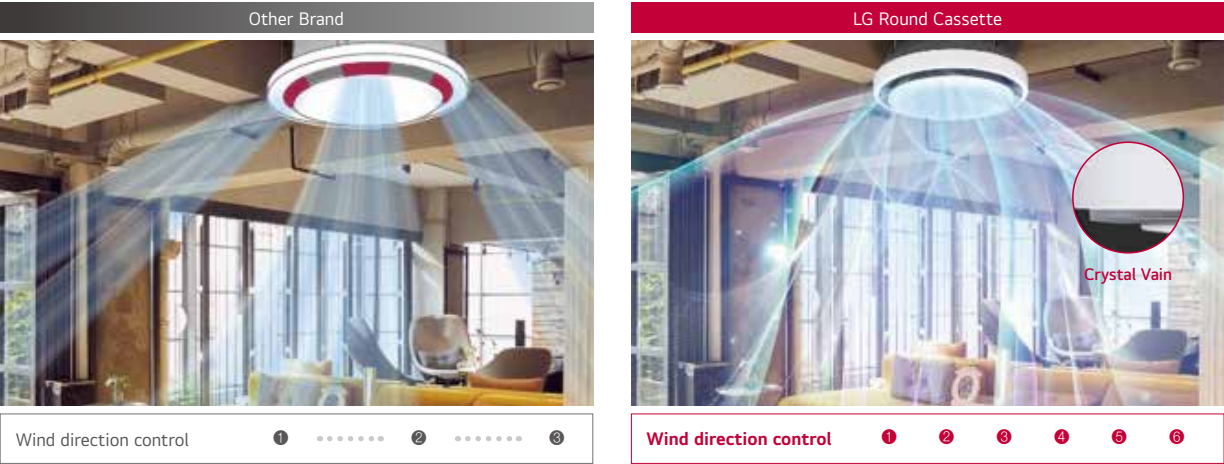
Other Brand

3 Way airflow with blind spot.

Perfect circular airflow without blind spots.

Visible Air Flow

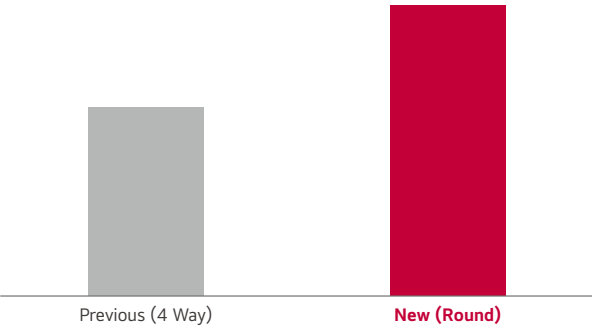
With crystal vein for 6-step precision control, you can send cool / heated air wherever you want.



Powerful and Quiet Air Flow

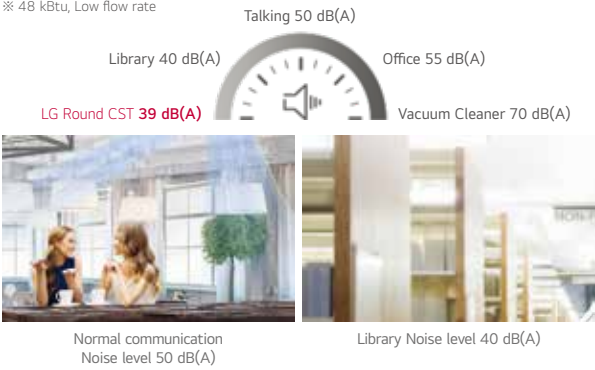
3D fan increases airflow by 5% and noise reduction technology makes a quieter, more comfortable space.

Full 3D Fan, Air flow rate 5% ↑



Full 3D Fan, Low noise

※ 48 kBTu, Low flow rate



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 | W | 157 x 1 | 157 x 1 | 157 x 1 |
| | Air Flow Rate (H / M / L) | m3/min | 22 / 21 / 19 | 27 / 24 / 21 | 32 / 28 / 23 |
| | Motor Type | | BLDC | BLDC | BLDC |
| Air Filter | | | Long Life | Long Life | Long Life |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe(Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | 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 ² 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | | - | |
| Multi-tenant Power Module | | PINPMB001 | |
| Robot Cleaner | | - | |
| Pre Filter (Washable) | | ○ | |
| Ion Generator | | - | |
| CO ₂ Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 Point) | | ○ | |
| Wi-Fi | | PWFMDD200 | |
| Human Detection Sensor | | - | |
| Floor Temperature Sensor | | - | |
| Air Purification Kit | | PTAHYP0 | |
| 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 | ○ | ○ | ○ |
| Comfort | Timer (On / Off) | ○ | ○ | ○ |
| | Timer (Weekly) | ○ | ○ | ○ |
| | Two Thermistor Control | ○ | ○ | ○ |
| | Group Control | ○ | ○ | ○ |

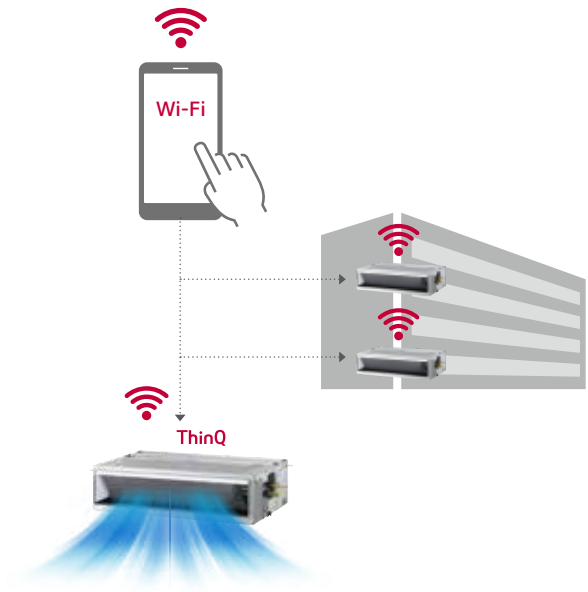
※ ○: Applied, - : Not applied

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.



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

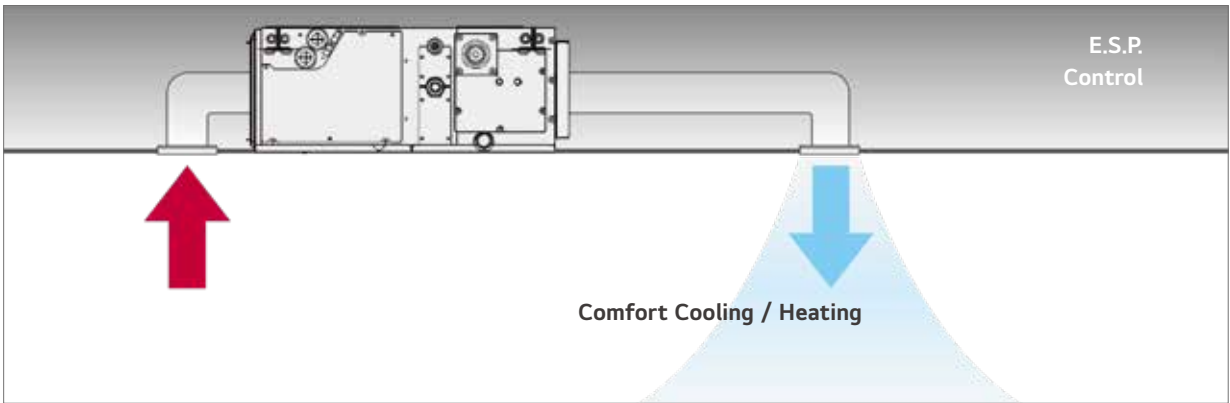
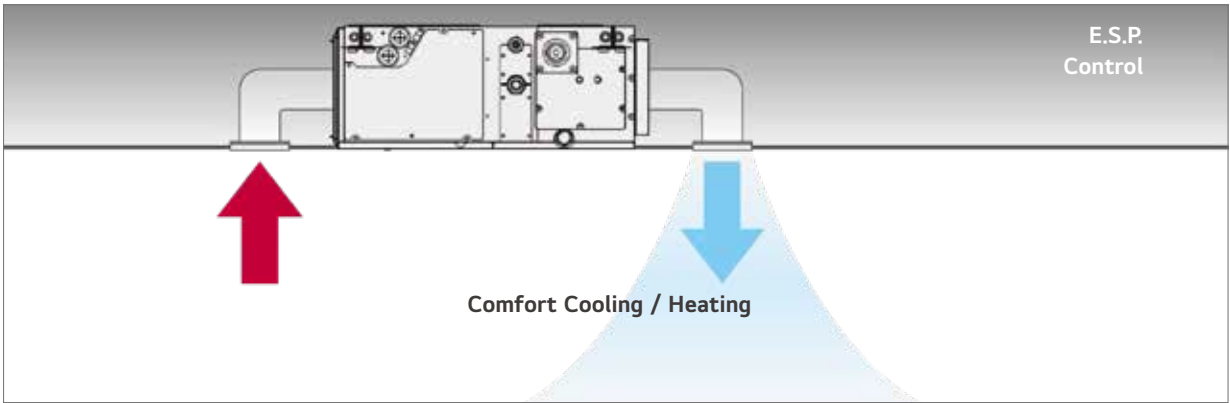


Zone Control

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

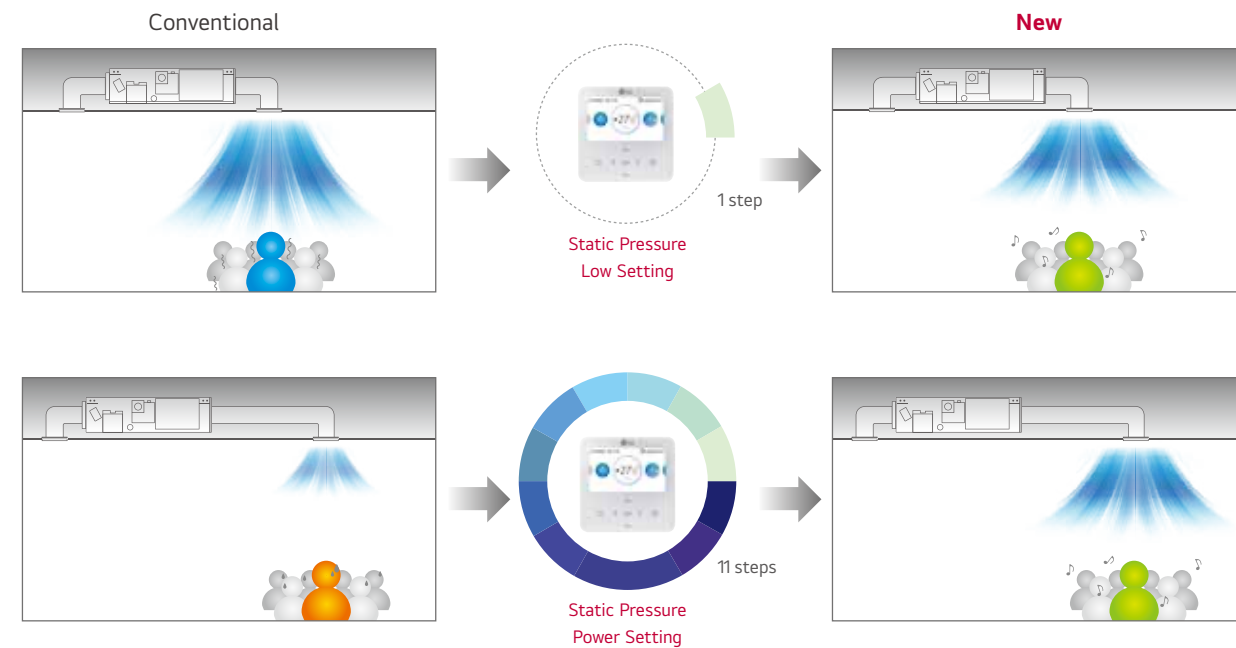
External Static Pressure (ESP) Control

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

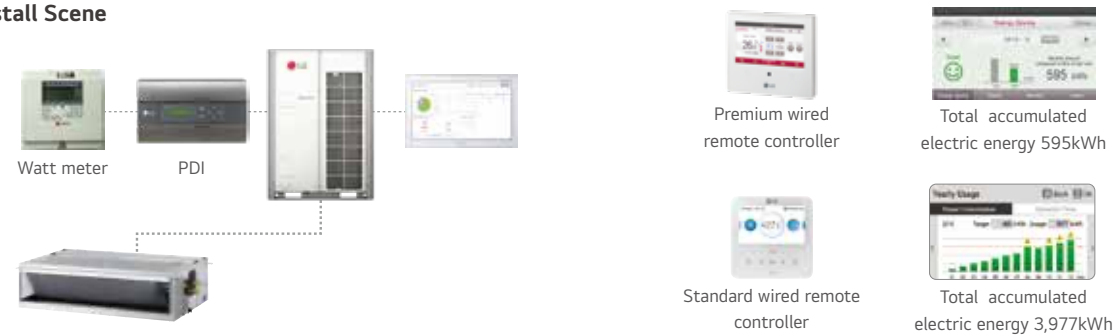
Depending on the installation environment, LG's ceiling concealed duct controls the static pressure with 11 steps to provide maximized comfort to any environment.



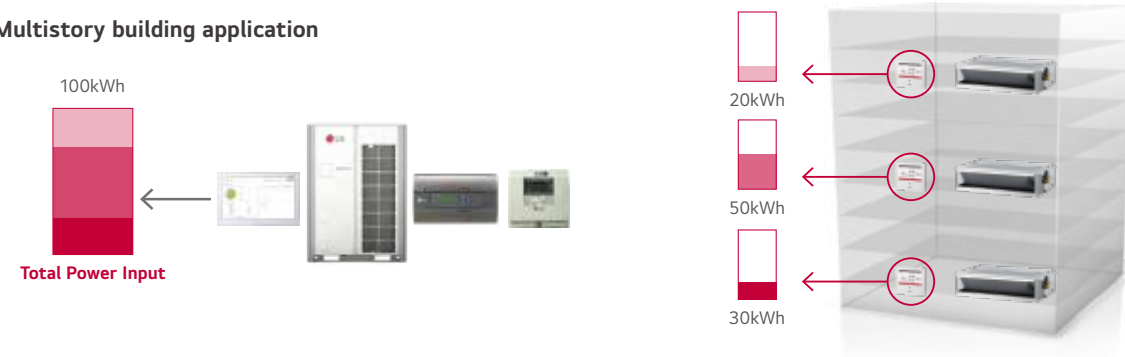
Energy Monitoring

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

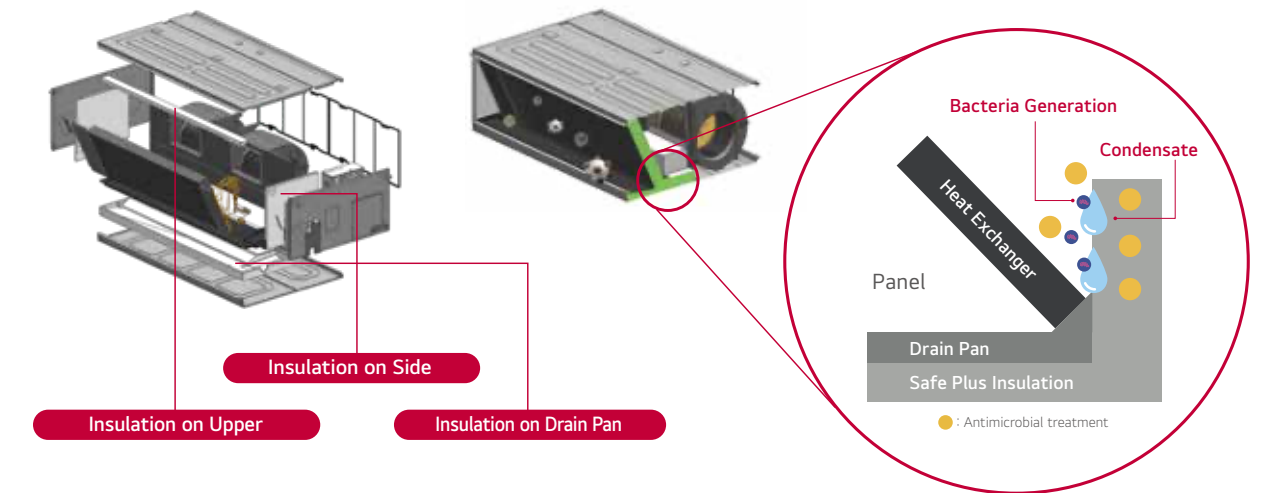


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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



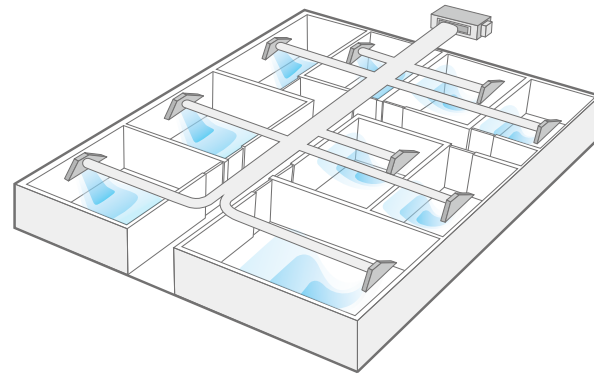
Example of EPS Pollution case.

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.

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.



Standard wired remote controller



Remain time for indoor filter cleaning 1,729hr.

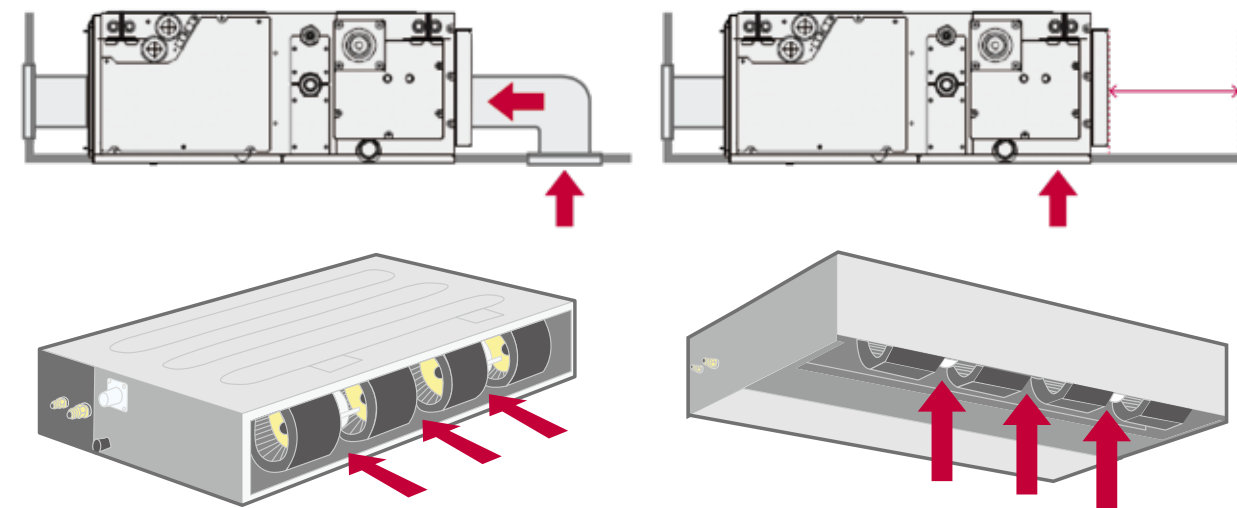


Premium wired remote controller

Flexible Installation (Low Static Duct Slim Only)

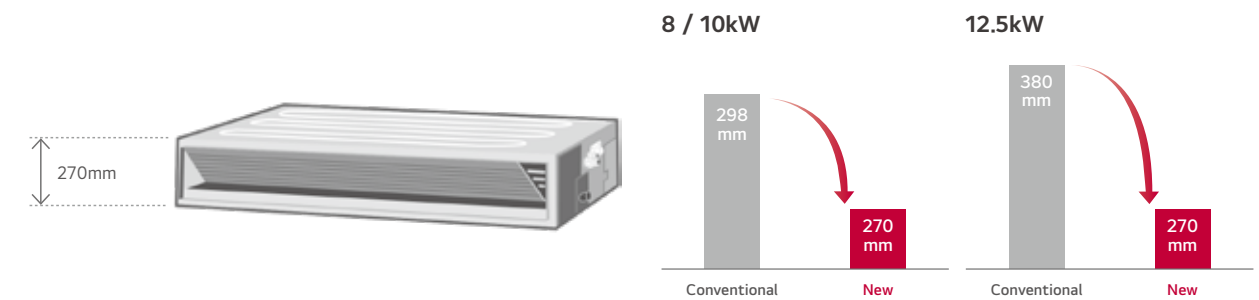
The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.

Air intake at the rear or bottom



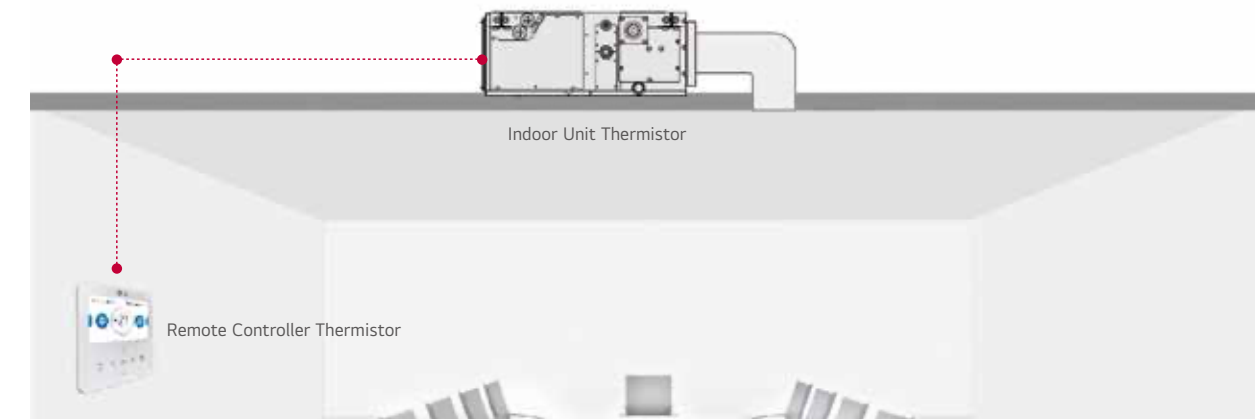
Minimized Height (For Mid Static Duct)

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



Two Thermistors Control

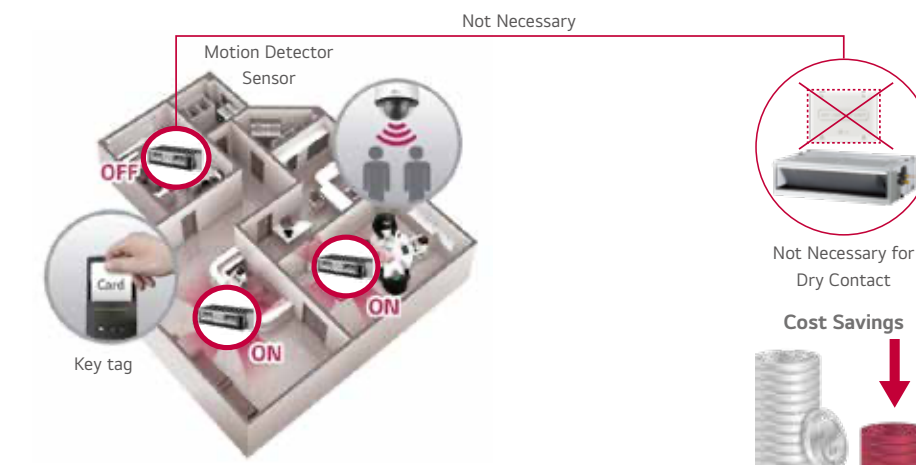
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



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 | mm | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 |
| | Shipping | mm | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 9.0 / 7.5 / 6.0 | 9.5 / 7.5 / 6.0 | 11.0 / 9.0 / 7.0 | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 6 (59) | 6 (59) | 6 (59) | 6 (59) | 6 (59) | 6 (59) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 9.0 / 7.5 / 6.0 | 9.5 / 7.5 / 6.0 | 11.0 / 9.0 / 7.0 | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 25.0 | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0~1.5 x 2C |

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

Accessories

| CHASSIS | ARNU07GM1A4 | ARNU09GM1A4 | ARNU12GM1A4 | ARNU15GM1A4 | ARNU18GM1A4 | ARNU24GM1A4 |
|---|-------------|-------------|---|-------------|-------------|-------------|
| Drain Pump | | | | ○ | | |
| Cassette Cover | | | | - | | |
| Refrigerant Leak Detector | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | |
| EEV Kit | | | PRGK024A0 (~5.6kW) | | | |
| Multi-tenant Power Module | | | PINPMB001 | | | |
| Robot Cleaner | | | - | | | |
| Pre Filter (Washable) | | | ○ | | | |
| Ion Generator | | | - | | | |
| CO ₂ Sensor | | | - | | | |
| Ventilation Kit | | | - | | | |
| IR Receiver | | | PWLRVN000 | | | |
| Zone Controller | | | ABZCA | | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), 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 | mm | 1,250 x 270 x 700 | 1,250 x 270 x 700 | 1,250 x 270 x 700 | 1,250 x 360 x 700 | 1,250 x 360 x 700 |
| | Shipping | mm | 1,450 x 338 x 773 | 1,450 x 338 x 773 | 1,450 x 338 x 773 | 1,450 x 428 x 773 | 1,450 x 428 x 773 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 350 x 1 | 350 x 1 | 350 x 1 | 400 x 1 | 400 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 28.0 / 24.0 / 21.0 | 32.0 / 28.0 / 24.0 | 38.0 / 33.0 / 28.0 | 40.0 / 34.0 / 28.0 | 50.0 / 45.0 / 40.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 6 (59) | 6 (59) | 6 (59) | 6 (59) | 6 (59) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 28.0 / 24.0 / 21.0 | 32.0 / 28.0 / 24.0 | 38.0 / 33.0 / 28.0 | 40.0 / 34.0 / 28.0 | 50.0 / 45.0 / 40.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 5 (49) | 5 (49) | 5 (49) | 5 (49) | 5 (49) |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø19.05 (3/4) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

Accessories

| CHASSIS | ARNU28GM2A4 | ARNU36GM2A4 | ARNU42GM2A4 | ARNU48GM3A4 | ARNU54GM3A4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | | ○ | |
| Cassette Cover | | | | - | |
| Refrigerant Leak Detector | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | |
| EEV Kit | | | - | | |
| Multi-tenant Power Module | | | PINPMB001 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (Washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | PWLRVN000 | | |
| Zone Controller | | | ABZCA | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), 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 | mm | 1,562 x 460 x 688 | 1,562 x 460 x 688 |
| | Shipping | mm | 1,806 x 537 x 825 | 1,806 x 537 x 825 |
| Fan | Type | | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 375 x 2 | 375 x 2 |
| | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min | 60.0 / 50.0 / 50.0 | 72.0 / 64.0 / 64.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 22 (216) | 22 (216) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 64.0 / 50.0 / 50.0 | 76.0 / 64.0 / 64.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 15 (147) | 15 (147) |
| | Motor Type | | BLDC | BLDC |
| | | | | |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø19.05 (3/4) | Ø22.2 (7/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 87.0 | 87.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 45 / 41 / 40 | 47 / 42 / 41 |
| Sound Power Levels (H / M / L) | | dB(A) | 67 / 62 / 60 | 68 / 64 / 62 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 ₂ Sensor | - | |
| Ventilation Kit | - | |
| IR Receiver | PWLRVN000 | |
| Zone Controller | ABZCA | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMDD200 | |

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

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 | mm | 700 x 190 x 460 | 700 x 190 x 460 | 700 x 190 x 460 | 900 x 190 x 460 |
| | Shipping | mm | 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 | 19 x 1+5x 1 |
| | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min | 7.0 / 6.5 / 5.5 | 7.5 / 6.5 / 5.5 | 9.0 / 7.0 / 5.5 | 10.0 / 8.5 / 7.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 1 (10) | 1 (10) | 1 (10) | 1 (10) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 7.0 / 6.5 / 5.5 | 7.5 / 6.5 / 5.5 | 9.0 / 7.0 / 5.5 | 10.0 / 8.5 / 7.0 |
| | 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) | 6.35 (1/4) | 6.35 (1/4) |
| | Gas Side | mm (inch) | 12.7 (1/2) | 12.7 (1/2) | 12.7 (1/2) | 12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25.4 (1) | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 ₂ Sensor | - | | | |
| Ventilation Kit | - | | | |
| IR Receiver | PWLRVN000 | | | |
| Zone Controller | - | | | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | |
| External Input (1 point) | ○ | | | |
| Wi-Fi | PWFMDD200 | | | |

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

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 | mm | 900 x 190 x 460 | 900 x 190 x 460 | 1,100 x 190 x 460 | 1,100 x 190 x 460 |
| | Shipping | mm | 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) | m³/min | 12.5 / 10.0 / 8.5 | 15.0 / 12.5 / 10.0 | 17.5 / 14.0 / 12.0 | 20.0 / 16.0 / 12.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 1 (10) | 1 (10) | 1 (10) | 1 (10) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 12.5 / 10.0 / 8.5 | 15.0 / 12.5 / 10.0 | 17.5 / 14.0 / 12.0 | 20.0 / 16.0 / 12.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 0 (0) | 0 (0) | 0 (0) | 0 (0) |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC |
| | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | 6.35 (1/4) | 6.35 (1/4) | 9.52 (3/8) | 9.52 (3/8) |
| | Gas Side | mm (inch) | 12.7 (1/2) | 12.7 (1/2) | 15.88 (5/8) | 15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25.4 (1) | Ø25.4 (1) | Ø25.4 (1) | Ø25.4 (1) |
| Weight | Body | kg | 20 | 20 | 22 | 22 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 32 / 29 / 27 | 35 / 32 / 29 | 35 / 30 / 29 | 36 / 33 / 29 |
| Sound Power Levels (H / M / L) | | dB(A) | 38.4 / 35.1 / 32.7 | 42.1 / 38.4 / 35.1 | 42.5 / 38.3 / 36.0 | 45.0 / 40.7 / 36.0 |
| Power Supply | | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | |
| EEV Kit | | - | | |
| Multi-tenant Power Module | | PINPMB001 | | |
| Robot Cleaner | | - | | |
| Pre Filter (Washable) | | ○ | | |
| Ion Generator | | - | | |
| CO ₂ Sensor | | - | | |
| Ventilation Kit | | - | | |
| IR Receiver | | PWLRVN000 | | |
| Zone Controller | | - | | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), 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 × 270 × 700 | 1,250 × 270 × 700 | 1,250 × 270 × 700 | 1,250 × 270 × 700 | 1,250 × 360 × 700 |
| | Type | | Sirocco Fan | 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 | 350 x 1 | 500 x 1 |
| | Air Flow Rate (H / M / L) (High static Mode - factory set) | m³/min | 13.3 / 9.4 / 6.8 | 13.3 / 9.4 / 6.8 | 14.8 / 10.2 / 7.4 | 14.8 / 10.2 / 7.4 | 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) | m³/min | 13.3 / 9.4 / 6.8 | 13.3 / 9.4 / 6.8 | 14.8 / 10.2 / 7.4 | 14.8 / 10.2 / 7.4 | 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) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

Accessories

| CHASSIS | ARNU07GM2A4 | ARNU09GM2A4 | ARNU12GM2A4 | ARNU15GM2A4 | ARNU18GM3A4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | ○ | | |
| Cassette Cover | | | - | | |
| Refrigerant Leak Detector | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | |
| EEV Kit | | | - | | |
| Multi-tenant Power Module | | | PINPMB001 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (Washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | PWLRVN000 | | |
| Zone Controller | | | ABZCA | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), 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 × 360 × 700 | 1,250 × 360 × 700 | 1,562 × 460 × 688 | 1,562 × 460 × 688 | 1,562 × 460 × 688 |
| | Type | | Sirocco Fan | 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 | 375 x 2 |
| | Air Flow Rate (H / M / L) (High static Mode - factory set) | m³/min | 35.5 / 30.6 / 26.2 | 35.5 / 30.6 / 26.2 | 49.0 / 37.3 / 30.2 | 54.2 / 41.3 / 31.8 | 57.2 / 43.0 / 34.0 |
| | External Static Pressure | mmAq (Pa) | 6 (59) | 6 (59) | 18 (176) | 18 (176) | 18 (176) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 35.5 / 30.6 / 26.2 | 35.5 / 30.6 / 26.2 | 53.7 / 49.5 / 43.9 | 55.6 / 50.6 / 45.0 | 58.0 / 52.3 / 47.3 |
| | External Static Pressure | mmAq (Pa) | 5 (49) | 5 (49) | 9 (88) | 9 (88) | 9 (88) |
| | Motor type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | - | - | - | - | - |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø19.05 (3/4) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :

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

2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

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

4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.

- Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB

- Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB

- Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

5. Sound levels are measured at 50Pa External Static Pressure condition.

6. * : Air flow rate could be different in accordance with External Static Pressure and setting value.

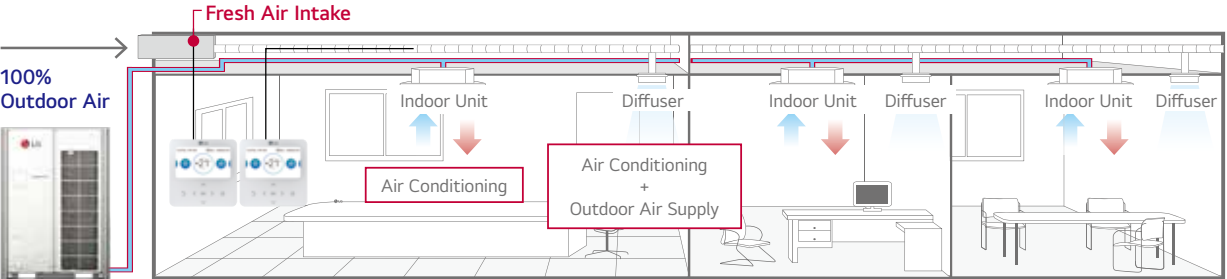
Accessories

| CHASSIS | 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 ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | PWLRVN000 | | | |
| Zone Controller | | ABZCA | | | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | |
| External Input (1 point) | | ○ | | | |
| Wi-Fi | | PWFMDD200 | | | |

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

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.

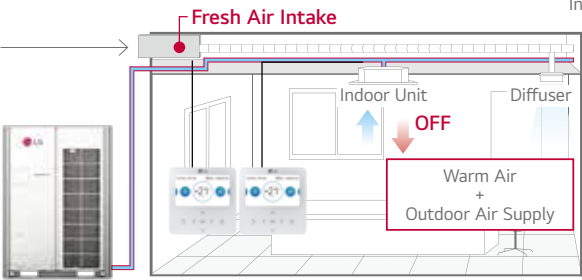


MULTI V i Outdoor unit

Economic Operation

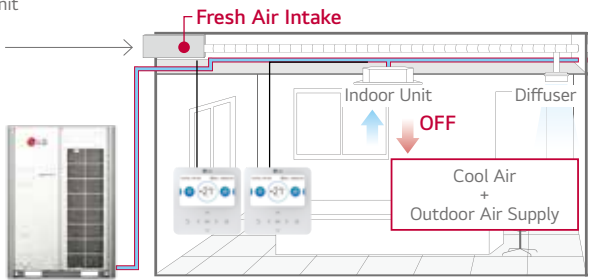
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



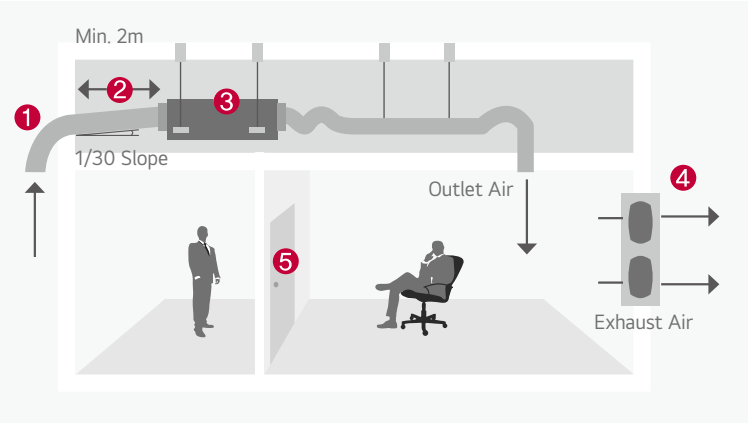
MULTI V i Outdoor unit

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 |
|-----------------------------------|---|------------|--------------------|--------------------|
| Cooling Capacity | | kW | 22.4 | 28.0 |
| Heating Capacity | | kW | 21.4 | 26.7 |
| Power Input (H / M / L) | Nominal | W | 230 / 200 / 200 | 360 / 230 / 230 |
| | | | | |
| Dimensions (W x H x D) | Body | mm | 1,562 x 460 x 688 | 1,562 x 460 x 688 |
| | Shipping | mm | 1,806 x 537 x 825 | 1,806 x 537 x 825 |
| Fan | Type | | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 375 x 1 | 375 x 1 |
| | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min | 23.7 / 13.2 / 13.2 | 35.7 / 23.7 / 23.7 |
| | External Static Pressure | mmAq (Pa) | 22 (216) | 22 (216) |
| | Motor Type | | BLDC | BLDC |
| Air Filter | | | Long Life Filter | Long Life Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø19.05 (3/4) | Ø22.2 (7/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 73.0 | 73.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 45 / 43 / 43 | 47 / 45 / 45 |
| Sound Power Levels (H / M / L) | | dB(A) | 70 / 67 / 67 | 72 / 70 / 70 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6ℱ) DB / 19℃ (66.2ℱ) WB, Outdoor temp. 35℃ (95ℱ) DB / 24℃ (75.2ℱ) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68ℱ) DB / 15℃ (59ℱ) WB, Outdoor temp. 7℃ (44.6ℱ) DB / 6℃ (42.8ℱ) 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℃ ~ 43℃, Heating : -5℃ ~ 43℃) 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 ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | PWLRVN000 | |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ |
| Wi-Fi | PWFMDD200 | |

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



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 | ○ | ○ |
| Comfort | Sleep mode | ○ | ○ |
| | Timer (On / Off) | ○ | ○ |
| | Timer (Weekly) | ○ | ○ |
| | Two thermistor control | ○ | ○ |
| | Group control | ○ | ○ |

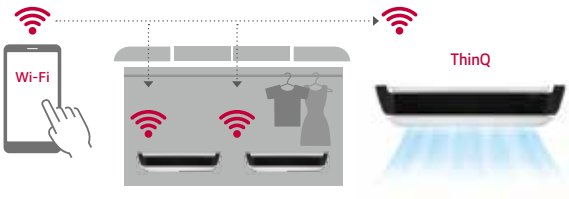
※ ○: Applied, - : Not applied

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

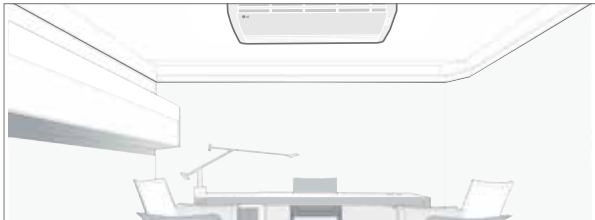
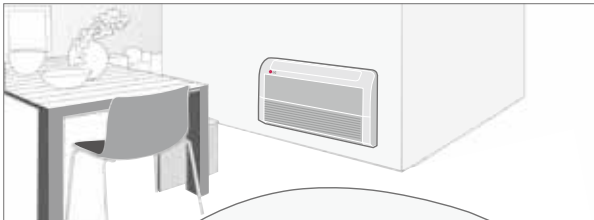
Follow the easy set-up steps that will activate ThinQ's impressive feature.



※ 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.



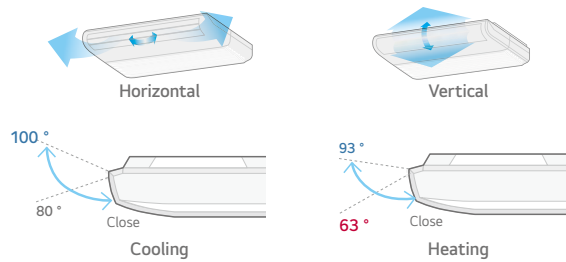
Filter Change Alarm

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.



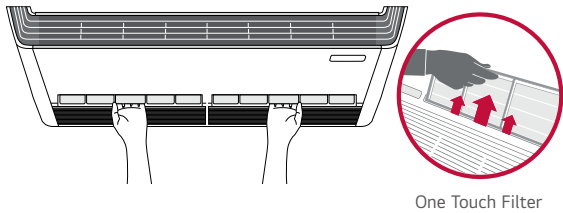
Powerful Cooling & Heating

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



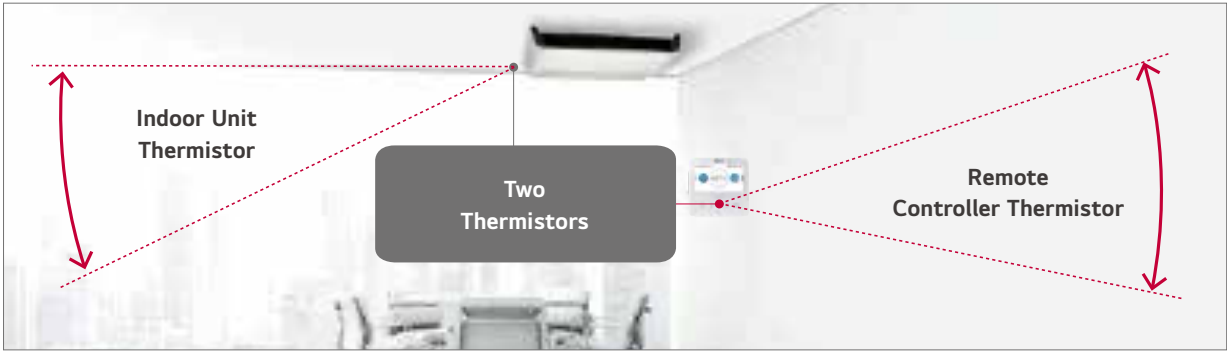
One Touch & 2 Piece Filter

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



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 |
| Power Input (H / M / L) | Nominal | W | 19 / 15 / 11 | 28 / 19 / 15 |
| | | | | |
| Exterior Color | | | Morning Fog | Morning Fog |
| RAL Code | | | RAL 9001 | RAL 9001 |
| Dimensions (W x H x D) | Body | mm | 900 x 490 x 200 | 900 x 490 x 200 |
| | Shipping | mm | 975 x 562 x 279 | 975 x 562 x 279 |
| Fan | 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) | m³/min | 7.6 / 6.9 / 6.2 | 9.2 / 7.6 / 6.9 |
| | | cfm | 268 / 244 / 219 | 325 / 268 / 244 |
| | 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) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 13.3 | 13.3 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 36 / 32 / 28 | 38 / 36 / 30 |
| Sound Power Levels (H / M / L) | | dB(A) | 55 / 51 / 45 | 56 / 55 / 49 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² x cores | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 ₂ 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 ¹⁾ | |

※ ○ : 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 |
| Power Input (H / M / L) | 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 |
| Dimensions (W x H x D) | 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 |
| Fan | 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) | m³/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 |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 29.0 | 29.0 | 37.0 | 37.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 36 / 34 / 33 | 37 / 35 / 33 | 45 / 44 / 40.5 | 47 / 44 / 40.5 |
| Sound Power Levels (H / M / L) | | dB(A) | 61 / 59 / 56 | 62 / 59 / 56 | 68 / 66 / 64 | 68 / 67 / 66 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² x cores | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) 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 ₂ 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 | ○ | ○ |

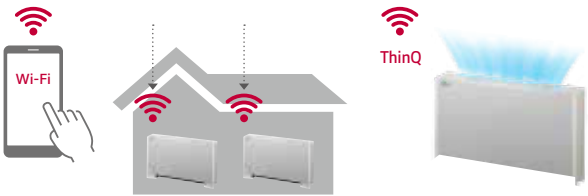
※ ○: Applied, -: Not applied

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.

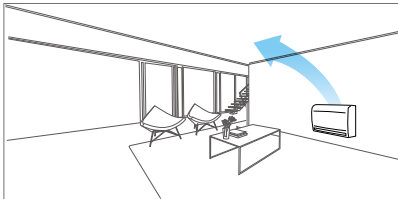


※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

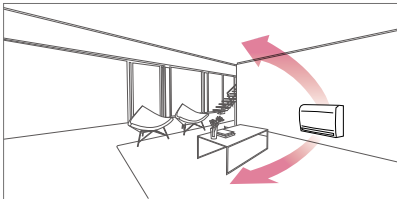
Air Flow Direction Change

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.

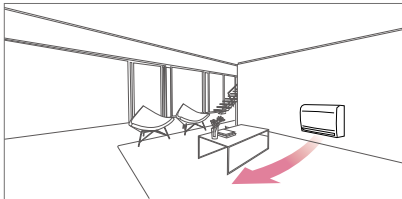
Cooling



Heating (Normal)



Heating (Option)



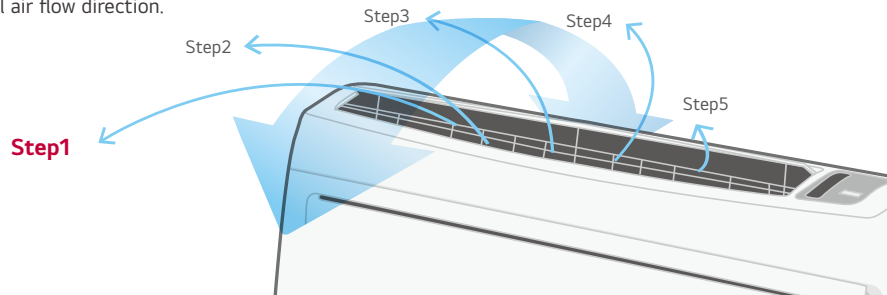
Cold Draft Protection

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



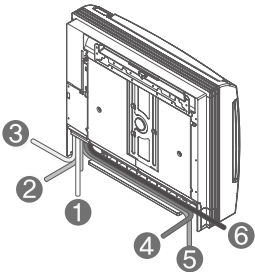
5-Step Vane Control

There are 5 different stages to control air flow direction.



6 Way Flexible Piping

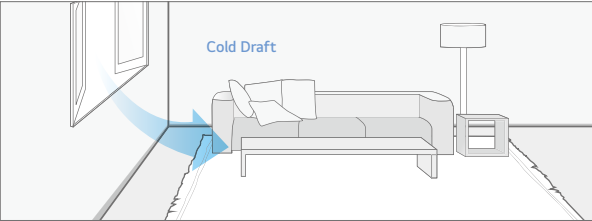
It is possible to install and connect the outdoor unit in 6 different ways. (Right Side, Right Back, Right Floor, Left Side, Left Back, Left Floor)



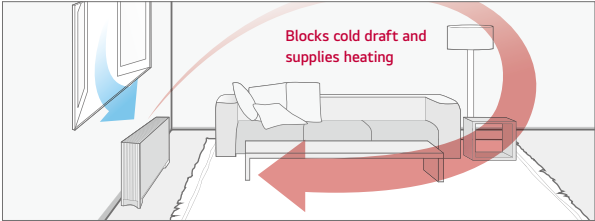
Protect Cold Draft

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

Without Floor Standing

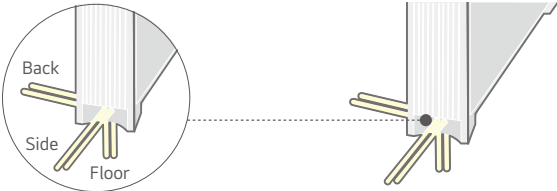


With Floor Standing



3 Way Flexible Piping

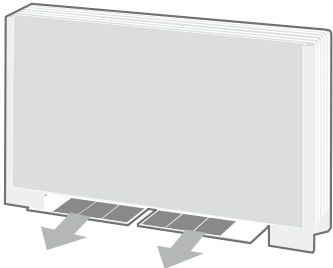
It is possible to install and connect the outdoor unit in 3 different ways. (Side, Back, Floor)



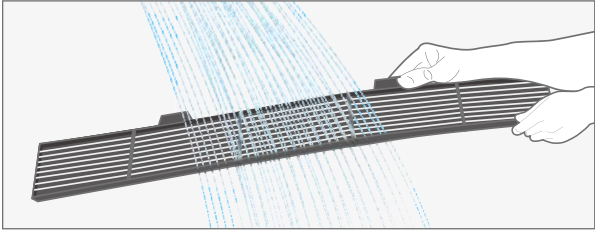
Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.

Sliding type



Easy cleaning



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 | 48 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 6.7 / 5.9 / 4.8 | 6.7 / 5.9 / 4.8 |
| | Motor Type | | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø12 (15/32) | Ø12 (15/32) |
| Weight | Body | kg | 14.0 | 14.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 37 / 34 / 28 | 37 / 34 / 28 |
| Sound Power Levels (H / M / L) | | dB(A) | 53 / 50 / 44 | 53 / 50 / 44 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

Accessories

| CHASSIS | ARNU07GQAA4 | ARNU09GQAA4 |
|---|--|-------------|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leak Detector | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | - |
| Pre Filter (Washable) | ○ | |
| Ion Generator | ○ | |
| CO ₂ Sensor | - | |
| Ventilation Kit | - | |
| IR Receiver | - | |
| Zone Controller | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMDD200 | |

※ ○ : 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) | m³/min | | 7.5 / 5.9 / 4.8 | 8.7 / 6.7 / 5.9 |
| | Motor Type | | | BLDC | BLDC |
| Air Filter | | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | | Ø12 (15/32) | Ø12 (15/32) |
| Weight | Body | | kg | 14.0 | 14.0 |
| Sound Pressure Levels (H / M / L) | | | dB(A) | 39 / 34 / 28 | 42 / 37 / 31 |
| Sound Power Levels (H / M / L) | | | dB(A) | 56 / 50 / 44 | 58 / 53 / 50 |
| Power Supply | | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Transmission Cable | | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 | |
| Multi-tenant Power Module | PINPMB001 | |
| Robot Cleaner | - | |
| Pre Filter (Washable) | ○ | |
| Ion Generator | ○ | |
| CO ₂ Sensor | - | |
| Ventilation Kit | - | |
| IR Receiver | - | |
| Zone Controller | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), 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
ARNU18GCFA4 / ARNU24GCFA4



※ A : Floor Standing with case

| MODEL | | | UNIT | ARNU07GCEA4 | ARNU09GCEA4 | ARNU12GCEA4 | ARNU15GCEA4 | ARNU18GCFA4 | ARNU24GCFA4 |
|-----------------------------------|----------------------------|-----------|------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cooling Capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating Capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Power Input (H / M / L) | Nominal | | W | 24 / 17 / 14 | 30 / 24 / 17 | 36 / 30 / 24 | 44 / 35 / 28 | 54 / 41 / 29 | 84 / 54 / 41 |
| | | | | | | | | | |
| Exterior Color | | | | Morning Fog | Morning Fog | Morning Fog | Morning Fog | Morning Fog | Morning Fog |
| RAL Code | | | | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 |
| Dimensions (W x H x D) | Body | mm | | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,345 x 635 x 203 | 1,345 x 635 x 203 |
| | Shipping | mm | | 1,154 x 705 x 289 | 1,154 x 705 x 289 | 1,154 x 705 x 289 | 1,154 x 705 x 289 | 1,432 x 705 x 289 | 1,432 x 705 x 289 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 2 | 19 x 2 |
| | Air Flow Rate (H / M / L) | m³/min | | 8.5 / 7.5 / 6.5 | 9.5 / 8.5 / 7.5 | 10.5 / 9.5 / 8.5 | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
| | Motor Type | | | BLDC | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) | 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 | | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 | ARNU18GCFA4 | ARNU24GCFA4 |
|---|--|-------------|-------------|-------------|----------------------------------|-------------|
| Drain Pump | | | | | - | |
| Cassette Cover | | | | | - | |
| Refrigerant Leak Detector | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | PRGK024A0 | | | | - | |
| Multi-tenant Power Module | PINPMB001 | | | | PINPMB001 | |
| Robot Cleaner | | | | | - | |
| Pre Filter (Washable) | ○ | | | | ○ | |
| Ion Generator | | | | | - | |
| CO ₂ Sensor | | | | | - | |
| Ventilation Kit | | | | | - | |
| IR Receiver | PWLRVN000 | | | | PWLRVN000 | |
| Zone Controller | | | | | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | | | |
| External Input (1 point) | ○ | | | | ○ | |
| Wi-Fi | PWFMD200 | | | | PWFMD200 | |

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

ARNU07GCEU4 / ARNU09GCEU4
ARNU12GCEU4 / ARNU15GCEU4
ARNU18GCFU4 / ARNU24GCFU4



※ U : Floor Standing without case

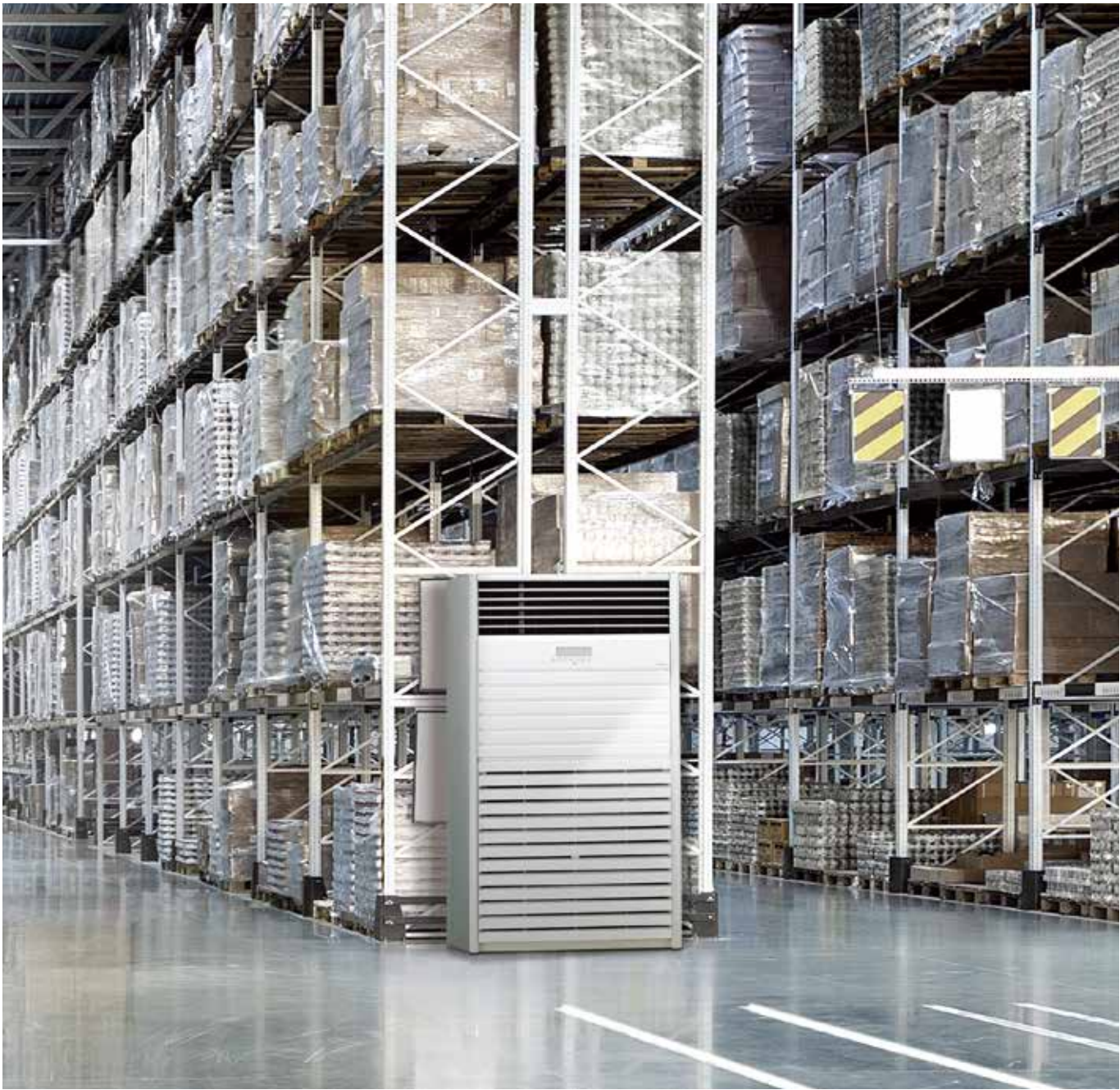
| MODEL | | UNIT | ARNU07GCEU4 | ARNU09GCEU4 | ARNU12GCEU4 | ARNU15GCEU4 | ARNU18GCFU4 | ARNU24GCFU4 |
|-----------------------------------|----------------------------|------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| 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 | 84 / 54 / 41 |
| | | | | | | | | |
| Dimensions (W x H x D) | Body | mm | 978 x 639 x 190 | 978 x 639 x 190 | 978 x 639 x 190 | 978 x 639 x 190 | 1,256 x 639 x 190 | 1,256 x 639 x 190 |
| | Shipping | mm | 1,055 x 702 x 260 | 1,055 x 702 x 260 | 1,055 x 702 x 260 | 1,055 x 702 x 260 | 1,333 x 702 x 260 | 1,333 x 702 x 260 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 1, 5 x 1 | 19 x 2 | 19 x 2 |
| | Air Flow Rate (H / M / L) | m³/min | 8.5 / 7.5 / 6.5 | 9.5 / 8.5 / 7.5 | 10.5 / 9.5 / 8.5 | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) | Ø12 (15/32) |
| Weight | Body | kg | 21.0 | 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 | 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 | 59 / 57 / 53 | 63 / 59 / 57 |
| 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 | | mm² | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6°F) DB / 19℃ (66.2°F) WB, Outdoor temp. 35℃ (95°F) DB / 24℃ (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68°F) DB / 15℃ (59°F) WB, Outdoor temp. 7℃ (44.6°F) DB / 6℃ (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 | | PRLDNVS0 (R410A), PLDRNV1S (R32) | | | PRLDNVS0 (R410A), PLDRNV1S (R32) | |
| EEV Kit | | PRGK024A0 | | | - | |
| Multi-tenant Power Module | | PINPMB001 | | | PINPMB001 | |
| Robot Cleaner | | - | | | - | |
| Pre Filter (Washable) | | ○ | | | ○ | |
| Ion Generator | | - | | | - | |
| CO ₂ 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 | | ○ |
| Comfort | Sleep Mode | | ○ |
| | Timer (On / Off) | | ○ |
| | Timer (Weekly) | | - |
| | Two Thermistor Control | | ○ |
| | Group Control | | ○ |

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

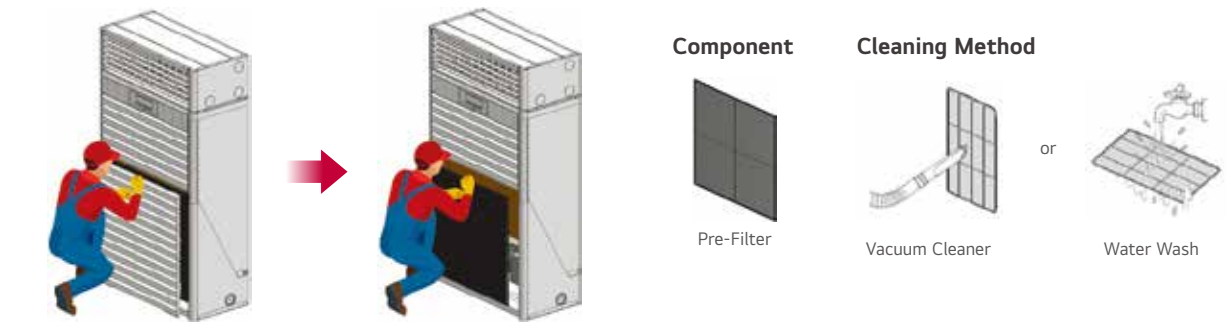
Airflow to Distant Spaces

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



Easy Filter Cleaning

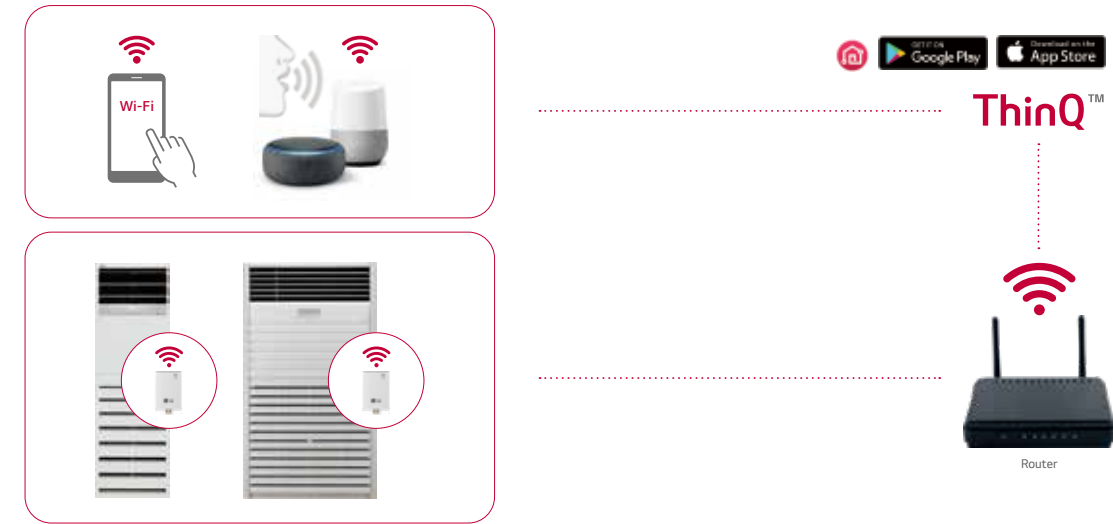
Standing on the floor, customers can easily separate the filter from the indoor unit. They can also easily clean the filter with a vacuum cleaner or water.



※ 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) | W | 260 / 190 / 140 / 110 | 400 / 280 / - / 180 |
| | Heating (SH / H / M / L) | W | 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 | m² | 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) | m³ / 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(ID) | 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 |
| Power Supply | V / Ø / Hz | | 220 / 1 / 60 | 220 / 1 / 60 |
| | V / Ø / Hz | | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Refrigerant Control | | | EEV | |
| Communication Cable | | mm² (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

| NO. | NEW FUNCTION NAME (4 TH 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. | ○ | ○ | * The alarm activates on the central controller, but the remaining time is not displayed. |
| 14 | Auto restart function Disable / Enable | After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off | ○ | - | |
| 15 | Indoor Humidity display | Monitoring indoor humidity Wired Remote Controller | ○ | ○ | * Available only with MULTI V <i>i</i> |
| 16 | Comfort Cooling setting | set the outdoor unit comfort cooling operation value | ○ | ○ | * Available only with MULTI V <i>i</i> |
| 17 | Smart Load Control setting | Change the outdoor unit's Smart Load Control stage value. | ○ | ○ | * Available only with MULTI V <i>i</i> |
| 18 | ODU Refrigerant Noise Reduction setting | set the outdoor unit's refrigerant noise reduction function | ○ | ○ | * Available only with MULTI V <i>i</i> |
| 19 | Low noise mode time setting | set the start and end time of the outdoor unit's low noise mode operation | ○ | ○ | * Available only with MULTI V <i>i</i> |

Note : 1) No.1, 2, 3, 8 : Functions are available to use together with 4th generation Indoor units only. If used together 2nd generation indoor unit and 4th generation indoor unit functions will not be activate. 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 2nd generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor
3) 2nd 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) (PREMTBB11) | STANDARD II (PREMTB01) (PREMTB001) | SIMPLE | | AC EZ (PQCSZ250S0) | AC EZ TOUCH (PACEZA000) | AC SMART 5 (PACS5A000) | ACP 5 (PACPSA000) | AC MANAGER 5 (PACMSA000) |
| | | | | SIMPLE FOR HOTEL (PQRCHCA0Q / QW) | SIMPLE (PQRCVCLOQ / QW) | | | | | |
| ○ | ○ | ○ | ○ | - | - | - | ○ | ○ | ○ | ○ |
| - | - | - | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | - | - | - | - | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | ○ | - | - | - | - | ○ | ○ | - |
| ○ | ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ (4 step) | ○ (4 step) | ○ (4 step) | ○ (3 step) | ○ (3 step) | ○ (3 step) | - | - | - | - | - |
| ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - |
| ○ | ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | ○ | - | - | ○ | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | - | - | - | - | - | ○ | ○ | - |
| ○ | ○ | ○ | - | - | - | - | - | ○ | ○ | - |
| ○ | ○ | ○ | - | - | - | - | ○ | ○ | ○ | - |

※ ○ : Applied, - : Not applied

MULTI V

1) It has a separate remote controller

| | | | | | | | | |
|-----------|------------|-----------|------------|-----------------|---------------------------------|-----------------------------------|---|--------------------------------------|
| PQRCVCL0Q | PQRCVCL0QW | PQRCHCA0Q | PQRCHCA0QW | PWLSSB21H (H/P) | Simple Dry Contact PDRYCB000 | 2 points Dry Contact PDRYCB400 | Dry Contact for Thermostat PDRYCB320 | For Modbus PDRYCB500 PDRYCB510 |
|-----------|------------|-----------|------------|-----------------|---------------------------------|-----------------------------------|---|--------------------------------------|

| Controller Name | | Wired Remote Controller | | | | | | Wireless Remote Controller |
|-----------------|---|---|---|---|---|--|--|---|
| | | Deluxe | Premium | Standard III | Standard II | Simple | Simple (Hotel) | |
| Model Name | | <div><div>NEW</div></div> <div>PREMTA201</div> | <div></div> <div>PREMTA000 PREMTA000A PREMTA000B</div> | <div></div> <div>PREMTB101 PREMTBB11</div> | <div></div> <div>PREMTB001 PREMTBB01</div> | <div></div> <div>PQRCVCL0Q PQRCVCL0QW</div> | <div></div> <div>PQRCHCA0Q PQRCHCA0QW</div> | <div></div> <div>PWLSSB21H (H/P)</div> |
| Basic | On / Off | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Fan Speed Control | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Temperature Setting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Mode 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"/> | <input type="radio"/> |
| | Vane Control (Louver Angle) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | ESP (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"/> | <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 ²⁾ / Weekly-Yearly | Weekly - Yearly | Weekly - Yearly | Weekly | - | - | Sleep / On / Off |
| | Additional Mode Setting ¹⁾ | <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 ³⁾ | <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"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | - | <input type="radio"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | - |
| | 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 / PACSSA000 / PACPSA000) 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)

202 ~ 213

HOT WATER SOLUTION

HYDRO KIT



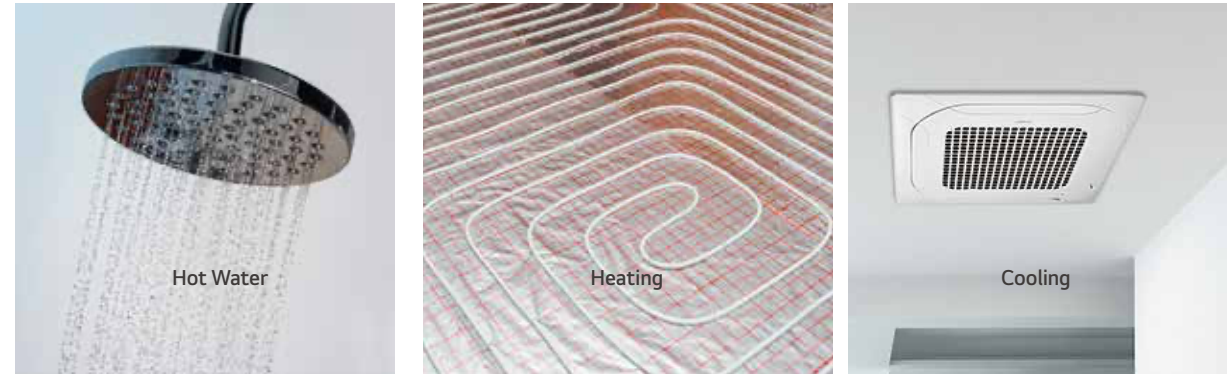
HYDRO KIT

Features & Benefits

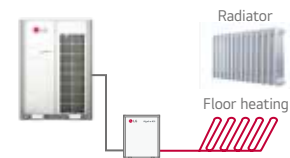
- Lower operation costs compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V heat recovery system.

Key Applications

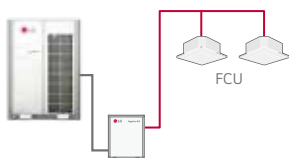
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiators. Or where cold water is needed, such as a fan coil unit and chilled beam.



Radiant Heating / Cooling



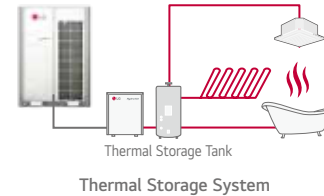
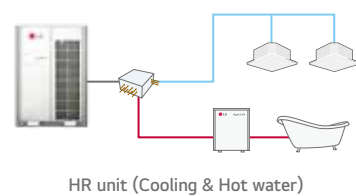
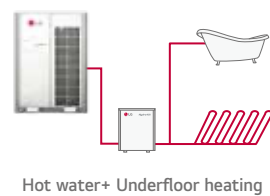
Fan Coil Unit Heating / Cooling



Hot Water / Cold Water

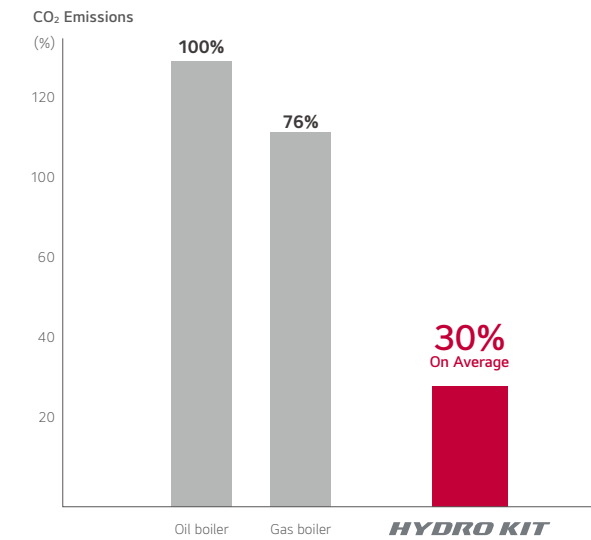


Combination



Eco-conscious Solution

Green energy solution through the reduction of CO₂ emissions.



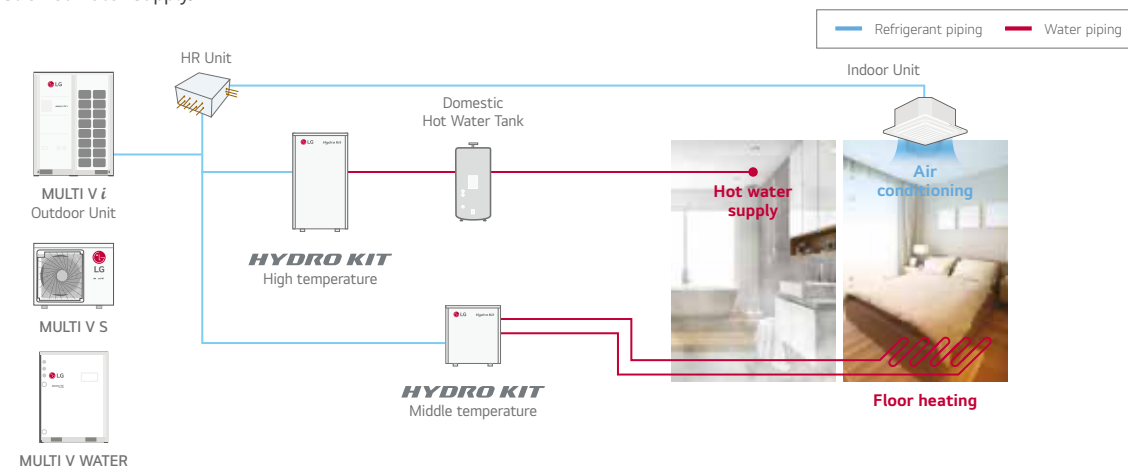
Space Saving

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



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.



Compatible with compact R32 MULTI V S

Product Volume (m³)



Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

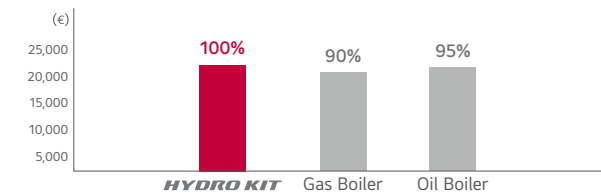
1st Proposal MULTI V i HYDRO KIT

(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)

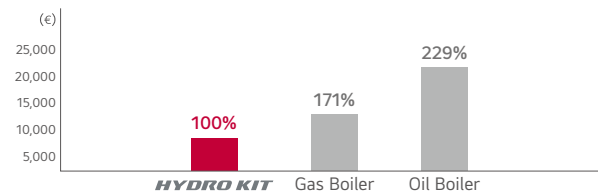
Analysis Conditions

- 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

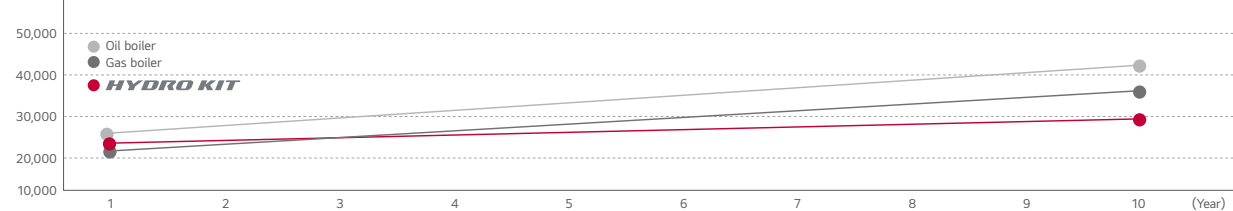
Initial Costs



Annual Operating Costs



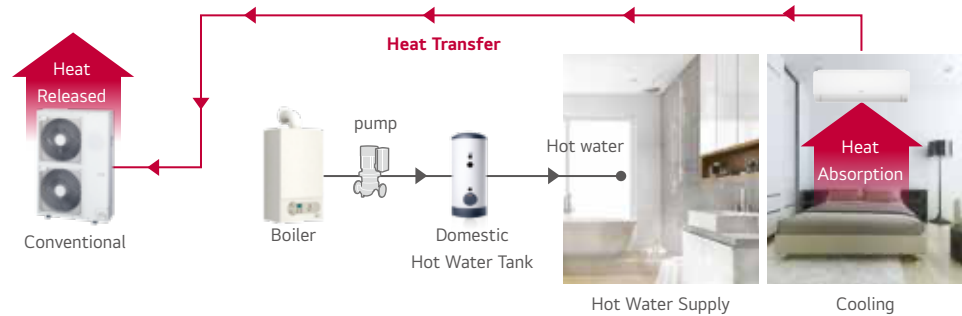
LCC



Energy Savings through Heat Recovery

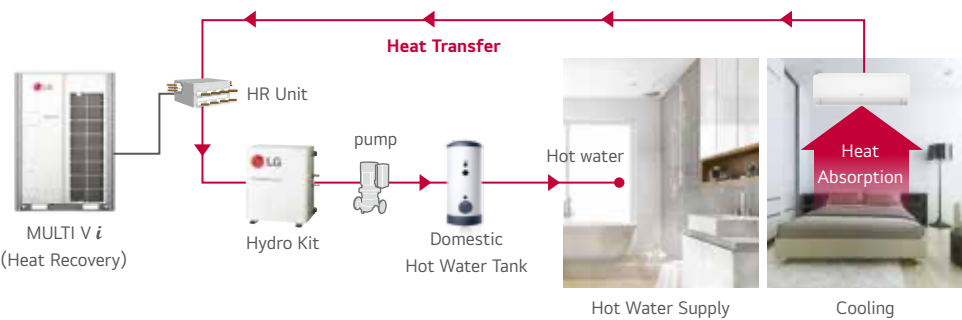
Conventional

Absorbed heat is released to outdoor air.



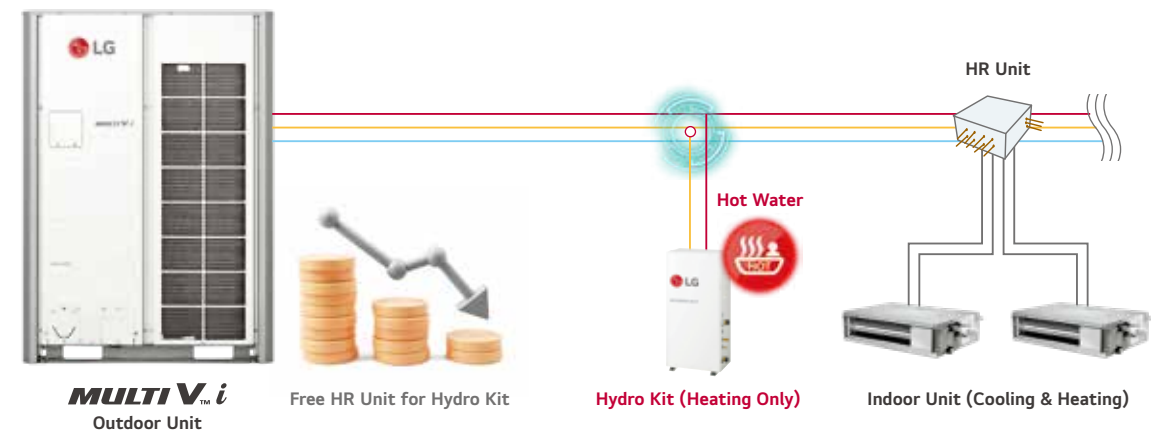
HYDRO KIT

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



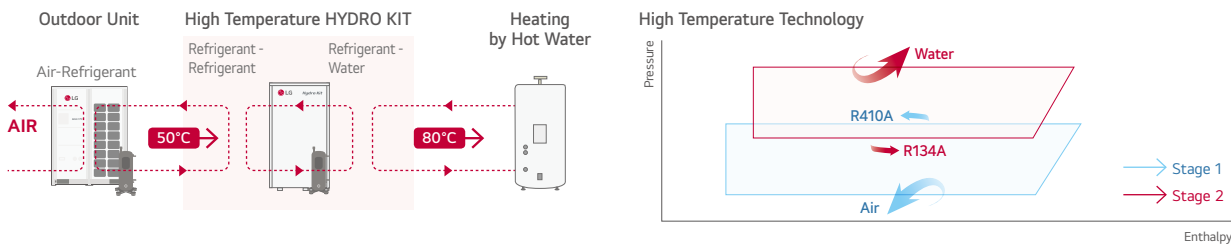
Free HR Unit for Hydro Kit

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) | Cooling | | kW | 5.6 | 7.1 | 9.0 | |
| | | | kcal/h | 4,800 | 6,100 | 7,700 | |
| | | | Btu/h | 19,100 | 24,200 | 30,700 | |
| | Heating | | kW | 5.6 | 7.1 | 9.0 | |
| | | | kcal/h | 4,800 | 6,100 | 7,700 | |
| | | | Btu/h | 19,100 | 24,200 | 30,700 | |
| Input (Rated) | Cooling | | W | 75 | 75 | 75 | |
| | Heating | | W | 75 | 75 | 75 | |
| Running Current (220 - 230 - 240V) | | Cooling / Heating | A | 0.70 - 0.67 - 0.64 | 0.70 - 0.67 - 0.64 | 0.70 - 0.67 - 0.64 | |
| Casing | Material | | - | Painted Steel Plate | Painted Steel Plate | Painted Steel Plate | |
| | RAL (Classic) | | - | RAL 9003 | RAL 9003 | RAL 9003 | |
| Dimensions | Net(W x H x D) | | mm | 490 x 850 x 315 | 490 x 850 x 315 | 490 x 850 x 315 | |
| | Shipping(W x H x D) | | mm | 1,082 x 563 x 375 | 1,082 x 563 x 375 | 1,082 x 563 x 375 | |
| Weight | Net | | kg | 42.0 | 42.0 | 42.0 | |
| | Shipping | | kg | 47.0 | 42.0 | 42.0 | |
| Heat Exchanger | Refrigerant to Water | Type | - | Brazed Plate HEX | Brazed Plate HEX | Brazed Plate HEX | |
| | | 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 |
| | Power Cable (H07RN-F) (Included Earth) | | | mm² x cores | 4.0 x 3C | 4.0 x 3C | 4.0 x 3C |
| Flow Sensor | Type | | | - | Vortex | Vortex | Vortex |
| | Model | | | - | SIKA VVX20 | SIKA VVX20 | SIKA VVX20 |
| | Measuring Range Min. ~ Max. | | | ℓ/min | 5 ~ 80 | 5 ~ 80 | 5 ~ 80 |
| | Flow (Trigger Point) | Min. | | ℓ/min | 7.0 | 7.0 | 7.0 |
| Temperature Control | | | | - | Microprocessor, Thermostat for Cooling and Heating | Microprocessor, Thermostat for Cooling and Heating | Microprocessor, Thermostat for Cooling and Heating |
| Water Tank Temperature Sensor | Type(Sensor Holder) | | | - | Male PT 1/2 inch | Male PT 1/2 inch | Male PT 1/2 inch |
| | Length | | | m | 12 | 12 | 12 |
| Sound Absorbing Thermal Insulation Material | | | | - | Foamed Polystrene | Foamed Polystrene | Foamed Polystrene |
| Safety Device | | | | - | Fuse | Fuse | Fuse |
| 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) | | | | mm² x cores | 2.5 x 3C | 2.5 x 3C | 2.5 x 3C |
| Communication Cable (VCTF-SB) | | | | mm² x cores | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C | 1.0 ~ 1.5 × 2C |
| Sound Pressure Level | Cooling / Heating | Rated | | dB(A) | 35 | 35 | 35 |
| Sound Power Level | Cooling / Heating | Rated | | dB(A) | 44 | 44 | 44 |

Note

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

2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

3. 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.

4. This product contains Fluorinated greenhouse gases.

5. 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 | Canned Type for Hot Water Circulation | Canned Type for Hot Water Circulation |
| | Model (Maker, Name) | - | GRUNDFOS (UPM3K 20-75 CHBL) | GRUNDFOS (UPM3K 20-75 CHBL) | GRUNDFOS (UPM3K 20-75 CHBL) |
| | 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 |
| Satey Vavle (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 Comnination | kW | 3 | 3 | 3 |
| | Power Supply Cable (H07RN-F) | ■ x cores | 2.5 x 3C | 2.5 x 3C | 2.5 x 3C |
| Heat Exchanger (Refrigerant to Water) | Type | - | Brazed Plate HEX | Brazed Plate HEX | Brazed Plate HEX |
| | Quantity | EA | 1 | 1 | 1 |
| | Number of Plate | Sheet | 52 | 52 | 52 |
| Refrigerant Piping Connection | 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) |
| Sound Power Level | 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 ² x cores | 1.5 x 3C | 1.5 x 3C | 1.5 x 3C |
| | Communication Cable (VCTF-SB) | mm ² 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 ¹⁾ | W | 10 | 10 |
| Exterior Color | | | | Morning Gray | Morning Gray |
| RAL Code | | | | RAL 7030 | RAL 7030 |
| Dimensions (W x H x D) | Body | | mm | 520 x 631 x 330 | 520 x 631 x 330 |
| | Shipping | | mm | 677 x 687 x 418 | 677 x 687 x 418 |
| Pipe Connections | Liquid Side | | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | | mm (inch) | Ø15.88 (5/8) | Ø22.2 (7/8) |
| | Drain Pipe (Internal Dia.) | | A (inch) | 25A (Male PT 1) | 25A (Male PT 1) |
| | | | | | |
| Water Pipe Connections | Inlet | | A (inch) | 25A (Male PT 1) | 25A (Male PT 1) |
| | Outlet | | A (inch) | 25A (Male PT 1) | 25A (Male PT 1) |
| Weight | Body | | kg | 29.2 | 33.7 |
| Sound Pressure Levels (H / M / L) | | | dB(A) | 26 | 26 |
| Power Supply | | | V / Ø / Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Communication Cable | | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

1) Nominal : Performance tested under EN14511
Note :
1. Capacities are based on the following conditions :
- Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
- Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to Hydro Kit.
5. MULTI V Water S cannot be connected to Hydro Kit.
6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.
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 | | PRLDNVS0 |
| EEV Kit | | - |
| Multi-tenant Power Module | | ○ |
| Robot Cleaner | | - |
| Pre Filter (Washable) | | - |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | - |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB320 |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMDD200 |

※ ○ : 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 ¹⁾ | 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 | | mm | 520 x1,074 x 330 | 520 x 1,080 x 330 | 520 x 1,074 x 330 | 520 x1,074 x 330 |
| | Shipping | | mm | 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 | | 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) | 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) | 25A (Male PT 1) |
| | | | | | | | |
| Water Pipe Connections | Inlet | | A (inch) | 25A (Male PT 1) | 25A (Male PT 1) | Male PT1 | Male PT 1 |
| | Outlet | | A (inch) | 25A (Male PT 1) | 25A (Male PT 1) | Male PT1 | Male PT 1 |
| Weight | Body | | 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 | | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

1) 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 | | | | PRLDNVS0 |
| EEV Kit | | | | - |
| Multi-tenant Power Module | | | | ○ |
| Robot Cleaner | | | | - |
| Pre Filter (Washable) | | | | - |
| Ion Generator | | | | - |
| CO ₂ Sensor | | | | - |
| Ventilation Kit | | | | - |
| IR Receiver | | | | - |
| Zone Controller | | | | - |
| Dry Contact (with additional accessory) | | | | PDRYCB000 (1 point contact), PDRYCB320 |
| External Input (1 point) | | | | ○ |
| Wi-Fi | | | | PWFMDD200 |

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

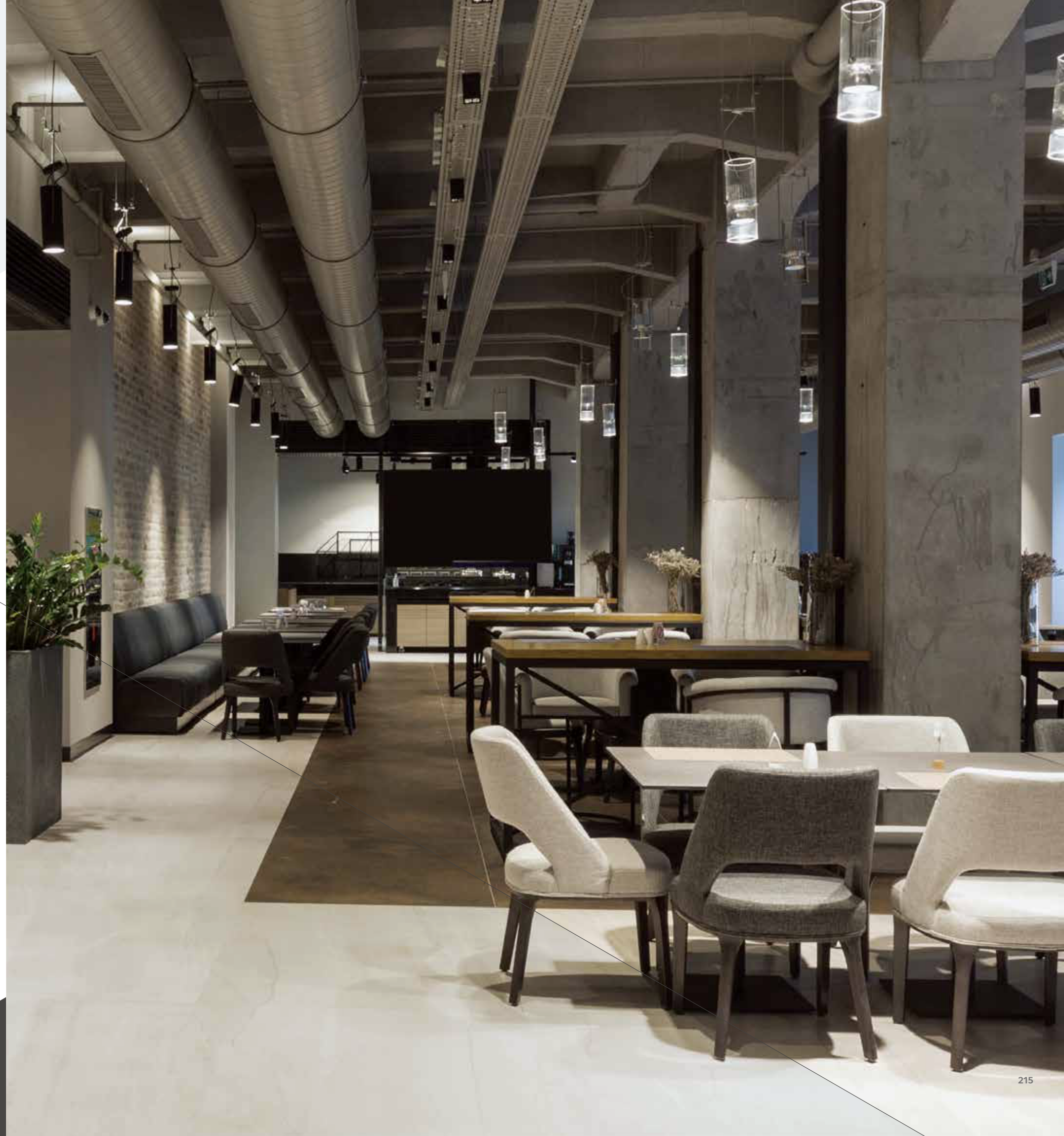
214 ~ 231

VENTILATION SOLUTIONS

ERV

ERV WITH DX COIL

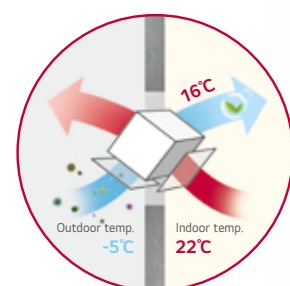
RESIDENTIAL ERV



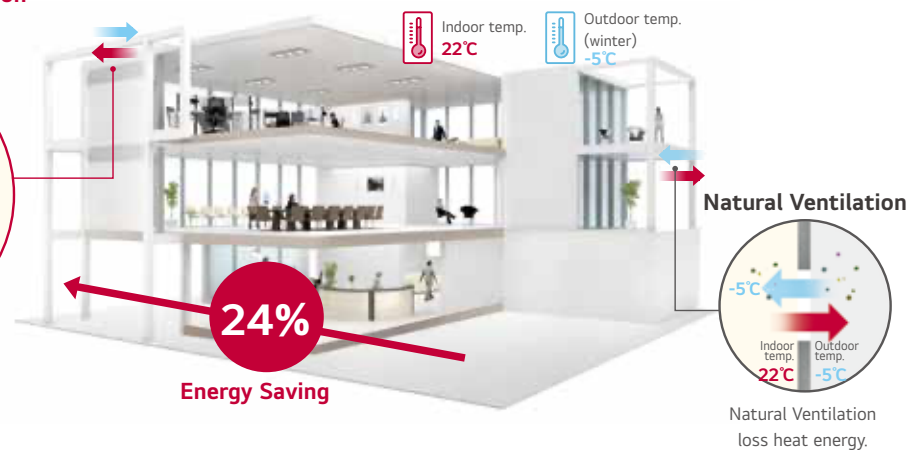


Necessity of ERV

Energy Recovery Ventilation (ERV)

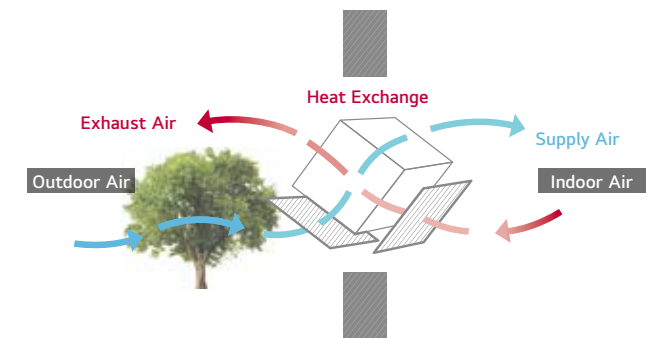


Comfort air + Energy Saving
Compared to natural ventilation
Heat exchanger collects wasted
energy while ventilating.



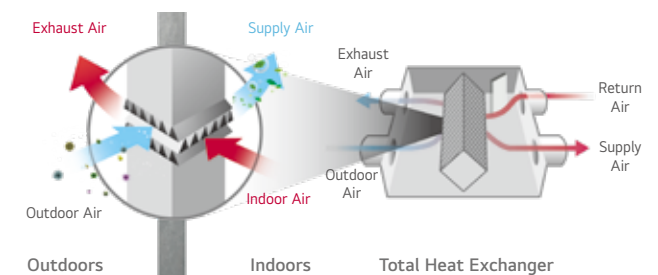
High Efficiency Heat Exchanger

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.



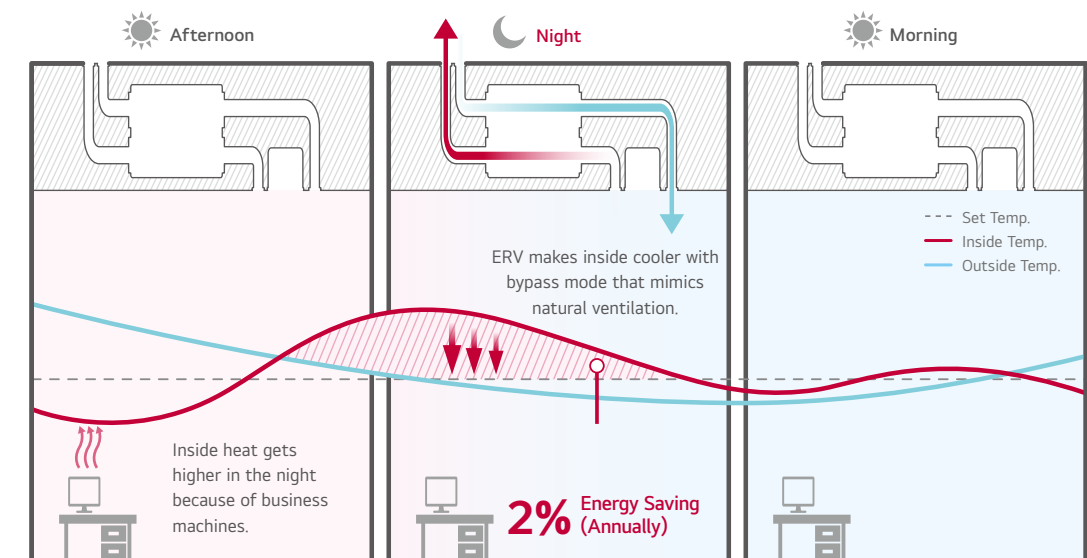
Cross Flow System

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

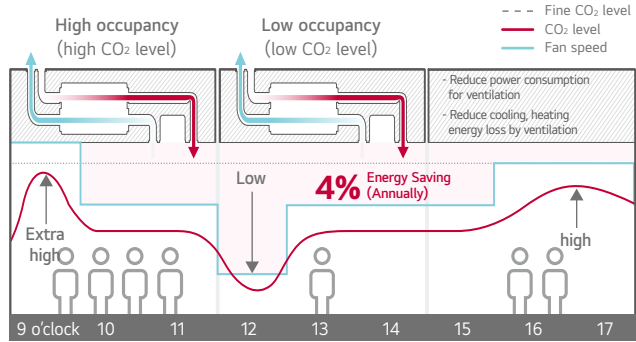
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



※ 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 (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM.

CO₂ Auto Operation

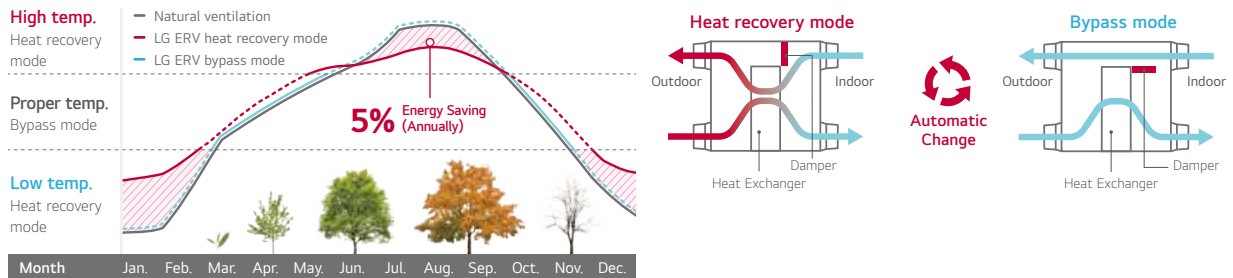
LG ERV reduces energy loss with auto fan speed control following CO₂ level.



※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

Seasonal Auto Operation

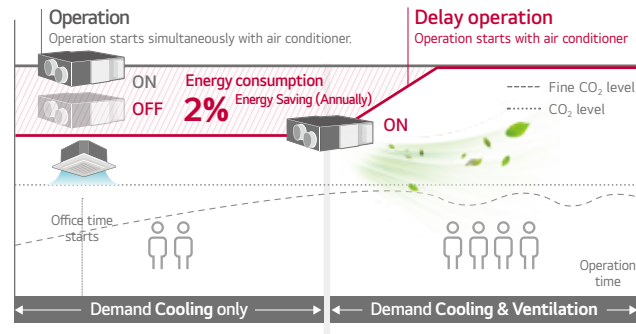
LG ERV senses outdoor temperature and operates automatically following weather conditions.



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

Delay Operation

When 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 (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

CO₂ Level Monitoring

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

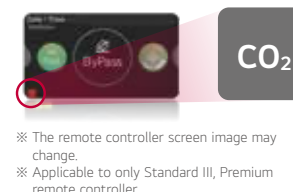
CO₂ Level Visualization

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



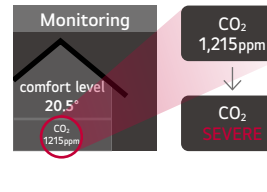
Main display

If the CO₂ level is above 900ppm in the room, the red mark appears.



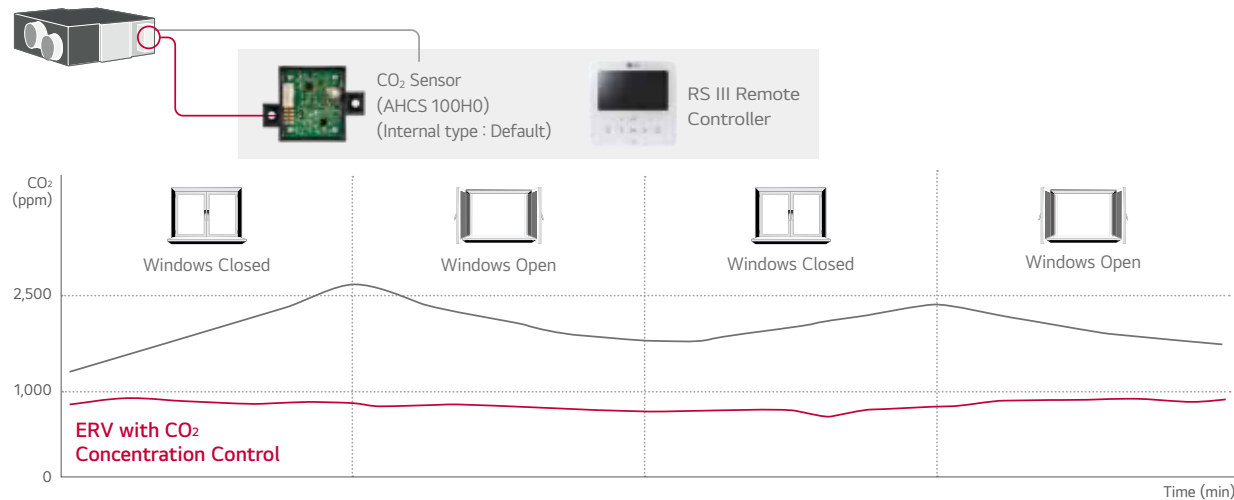
Further information

CO₂ level and room condition are displayed continuously.



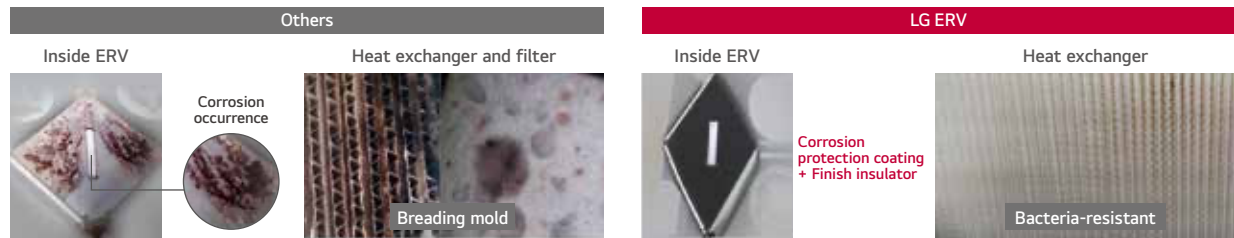
CO₂ Concentration Control

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



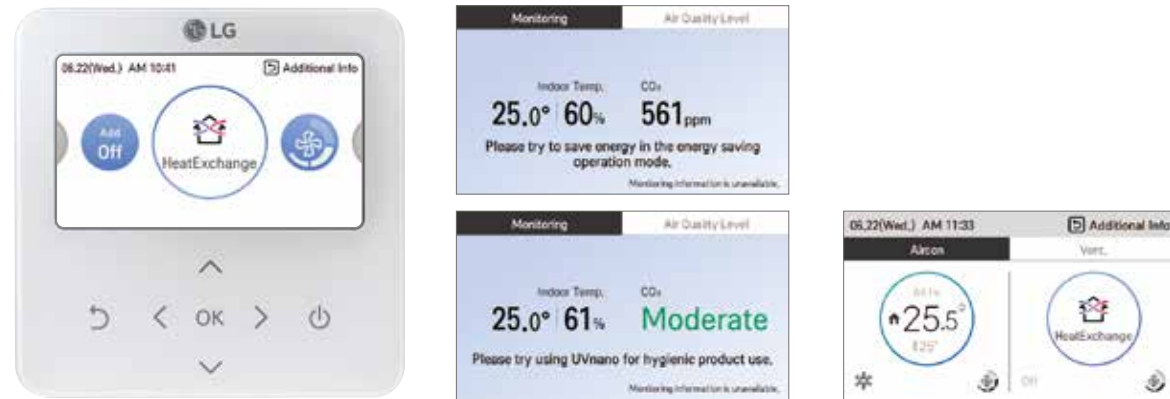
High Durability

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 CO₂ level
- Alarm for filter change / remaining time to change filters

Convenient

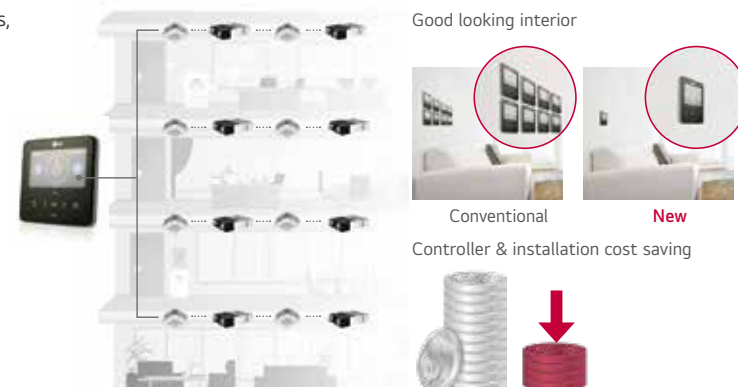
- Flexible display
- Dual display with air conditioner
- Zoom selected directory to increase legibility

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.

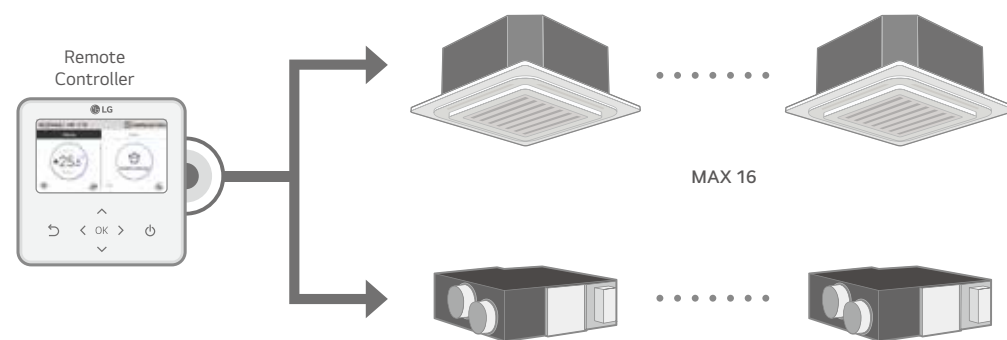
Combine several units

16 units group control is available with 1 remote controller.



Interlocking with Air Conditioning System

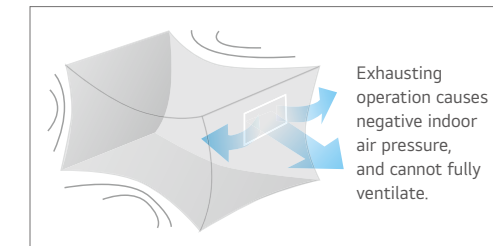
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



Fast Ventilation Mode

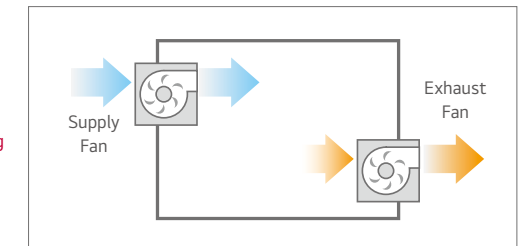
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



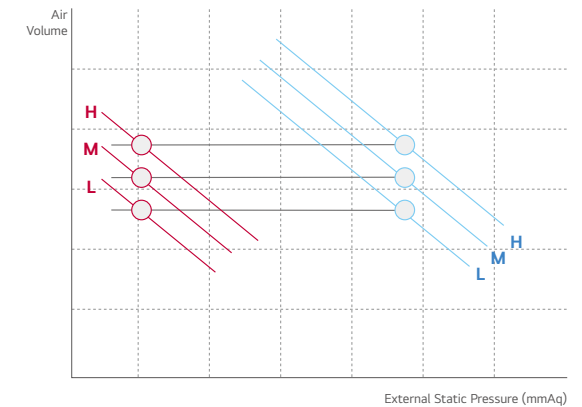
Exhausting and Supplying Simultaneously

Fast Ventilation Mode



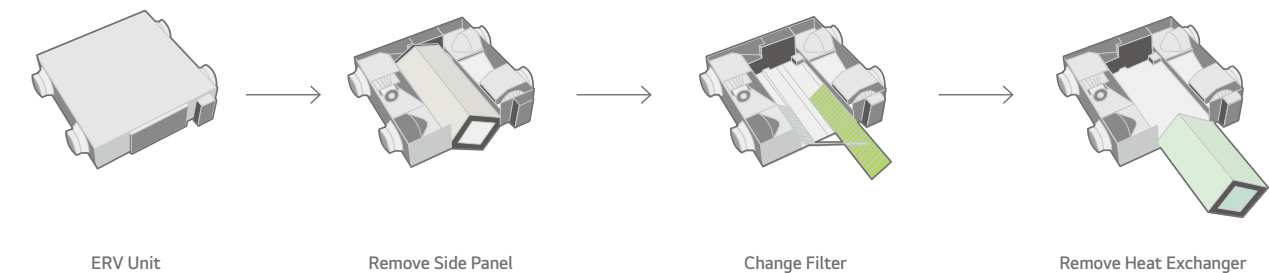
External Static Pressure Control

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

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 | 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 ₂ Sensor | | ○ | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | - | |
| Wi-Fi | | - | |

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

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

Note :
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 | 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 ₂ Sensor | | ○ | | |
| Ventilation Kit | | - | | |
| IR Receiver | | - | | |
| Zone Controller | | - | | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) | | | |
| External Input (1 point) | | - | | |
| Wi-Fi | | - | | |

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

ZE050GUCCA0 / ZE080GUCCA0
ZE100GUCCA0



※ 2Q Launching

- Ventilation with sensible and latent heat recovery
- Air flow coverage from 500 to 1,000 m³/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 CO₂ concentration sensor
 - CO₂ Auto Operation based on CO₂ 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 x 365 x 1,240 | |
| | Weight | kg | 41.7 | 54.4 | 54.4 |
| Power Supply | | V / Ø / Hz | 220-240 / 1 / 50-60 | | |
| Normal Airflow Rate | | m³/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 m³/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.

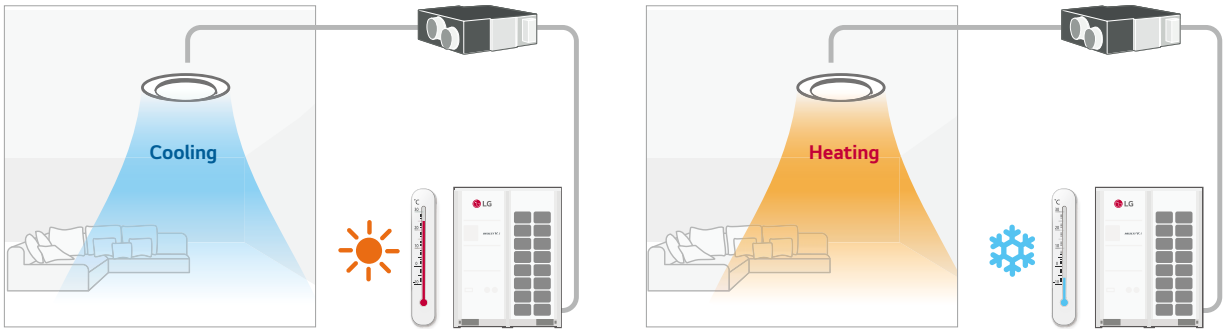
Accessories

| CHASSIS | ZE050GUCCA0 | ZE080GUCCA0 | ZE100GUCCA0 |
|---|---|-------------|-------------|
| Filter | | M5, F7, F9 | |
| CO ₂ Sensor | | Embedded | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) | | |
| Wi-Fi | | PWFMDD200 | |

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

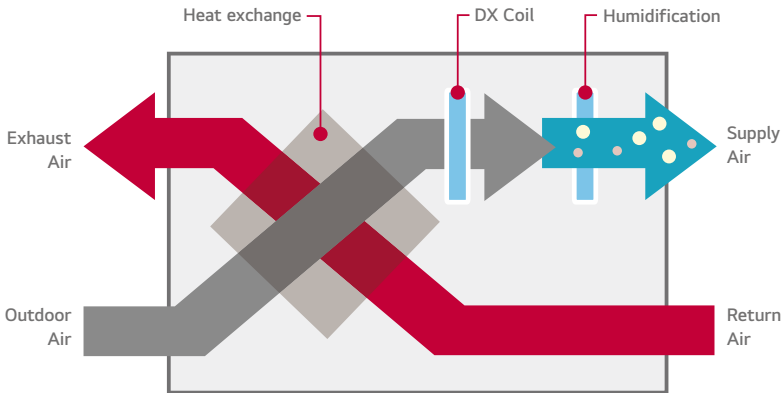
Providing Cool & Warm Fresh Air

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.



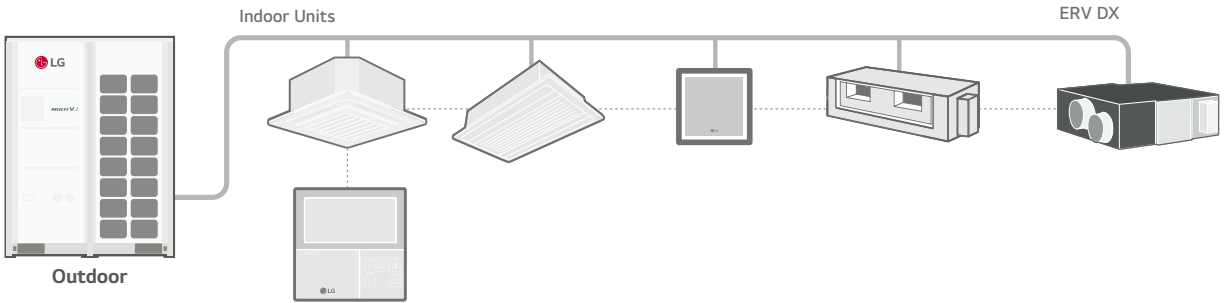
Total Air Conditioning Solution

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 Conditioning Load | Cooling | kW | 4.93 | 7.46 | 9.12 | 4.93 | 7.46 | 9.12 |
| | 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 | | | - | | |
| Connection Duct Diameter | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | | | Ø25 (1) | | |
| | | 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 | | | PRLDNVSO | | | |
| EEV Kit | | | | - | | |
| Multi-tenant Power Module | | | | - | | |
| Robot Cleaner | | | | - | | |
| Pre Filter (Washable) | | | | - | | |
| Ion Generator | | | | - | | |
| CO ₂ Sensor | | | AHCS100HO | | | |
| Ventilation Kit | | | | - | | |
| IR Receiver | | | | - | | |
| Zone Controller | | | | - | | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB500 (Modbus) | | | | |
| External Input (1 point) | | | ○ | | | |
| Wi-Fi | | | | - | | |


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


Clean Air Supply

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

UVnano™

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





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.



One Touch Button

Filter Handle

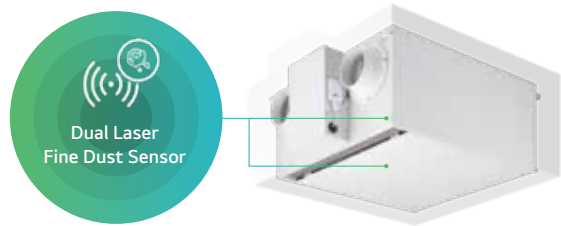
After pressing the one-touch button, unhook the safety hooks that holds door from failing to fully open the door.

Hold the filter handle and pull it out down.

Smart Control

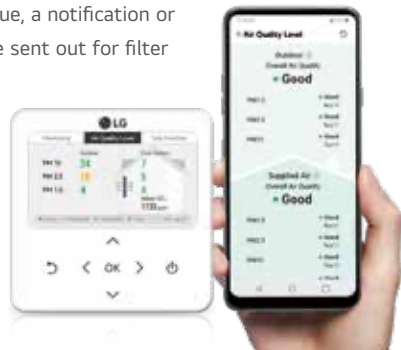
① Dual Laser Fine Dust Sensor

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



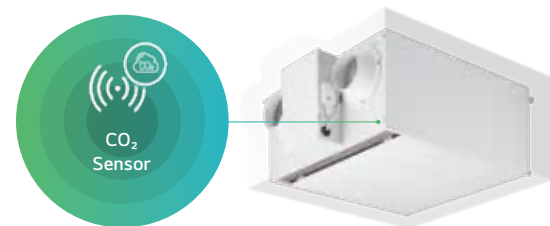
When the measured dust concentration in the air supplied to the room is higher than the pre-set value, a notification or text message will be sent out for filter replacement.

* Wi-Fi Modem is Optional.



② CO₂ Monitoring

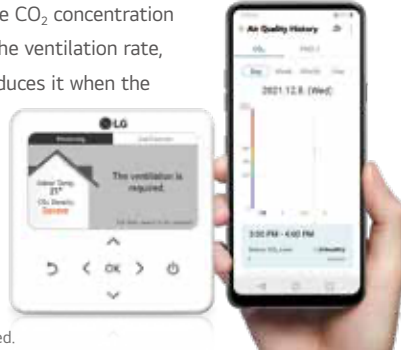
The embedded CO₂ sensor monitors the carbon dioxide concentration in the room in real time and automatically controls the ventilation rate.





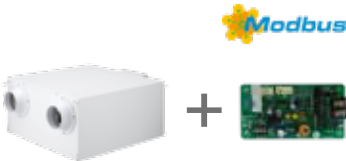
The system monitors the CO₂ concentration in the room and adjusts the ventilation rate accordingly. When the CO₂ concentration is high, it increases the ventilation rate, and automatically reduces it when the concentration is low.

* Wi-Fi Modem is Optional.

* CO₂ Sensor is Embedded.



③ Control ERV Anytime, Anywhere

| Wired Remote Control | Mobile | Third-Party Compatibility |
|---|---|---|
|  |  |  |
| - Indoor CO ₂ concentration - Dust concentration in the supply air - Dust concentration in outdoor air | Check and control the Indoor air conditioner anytime, anywhere | With the dry contact connected, Modbus protocol is available. |

* To use 3rd 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 | 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 | Cooling (SH / H / L) (JIS) % | 74 / 74 / 83 | 70 / 70 / 81 |
| | | Heating (SH / H / L) (JIS) % | 79 / 79 / 83 | 75 / 75 / 81 |
| | Energy Label | Cooling (SH / H / L) (JIS) % | 74 / 74 / 80 | 68 / 68 / 76 |
| | | A+ to G Scale | A | A |
| | Sound Power Level | SH / H / L dB(A) | 53 / 51 / 45 | 55 / 53 / 46 |
| Bypass Mode | Sound Pressure Level | SH / H / L dB(A) | 28 / 26 / 21 | 30 / 28 / 22 |
| | 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 |
| 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 ⁽¹⁾ | - | ePM ₁ 95% | ePM ₁ 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.

LZ-H015GBA6 / LZ-H020GBA6



Accessories

| CHASSIS | LZ-H015GBA6 | LZ-H020GBA6 |
|---|-------------|-------------|
| CO ₂ Sensor | | Embedded |
| UVnano | | Embedded |
| Pre Filter (Washable) | | Embedded |
| Dual Laser Fine Dust Sensor | | Embedded |
| Remote Controller (PREMTB101 / PREMTBB11) | | ○ |
| Wi-Fi Modem (PWFMD200) | | ○ |

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

Functions

| MODEL | | LZ-H015GBA6 | LZ-H020GBA6 |
|------------------|-------------------------------------|-------------|-------------|
| Air Purification | UVnano | ○ | ○ |
| | Pre-Filter | ○ | ○ |
| | Fine Filter (ePM ₁ 95%) | ○ | ○ |
| Reliability | Self Diagnosis | ○ | ○ |
| Convenience | Auto Restart | ○ | ○ |
| | Child Lock* | ○ | ○ |
| | Forced Operation | ○ | ○ |
| | Group Control* | ○ | ○ |
| | Turn On / Off Reservation | ○ | ○ |
| | Schedule* | ○ | ○ |
| | Night Silent Cooling Operation | ○ | ○ |
| | Delayed Operation | ○ | ○ |
| | Airflow Amount Customized Operation | ○ | ○ |
| | Seasonal Customized Operation | ○ | ○ |
| | Seasonal Auto Operation | ○ | ○ |
| Installation | E.S.P. Control* | ○ | ○ |
| ETC | Central Control (LGAP) | ○ | ○ |
| | Filter Alarm | ○ | ○ |
| | CO ₂ Sensor | ○ | ○ |
| | Wi-Fi | Accessory | Accessory |

Note
1. ○ : 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.
2. Some functions can be limited by remote controller.
3. * : These functions need to connect the wired remote controller

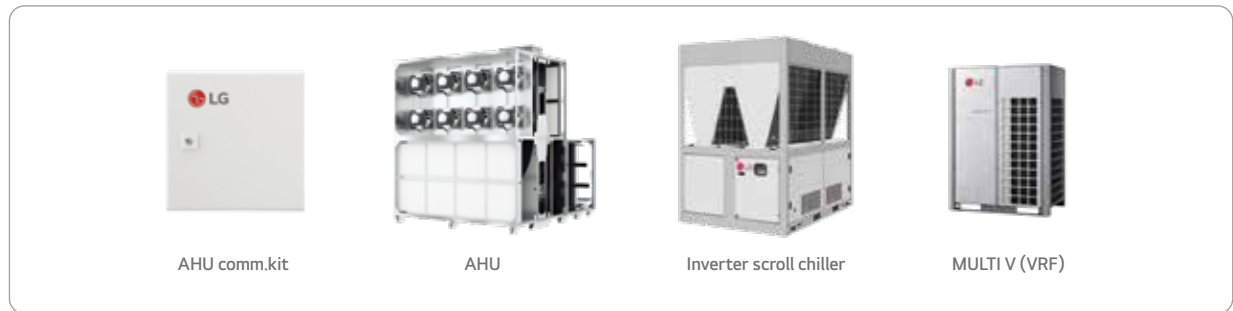
232 ~ 243

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

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.

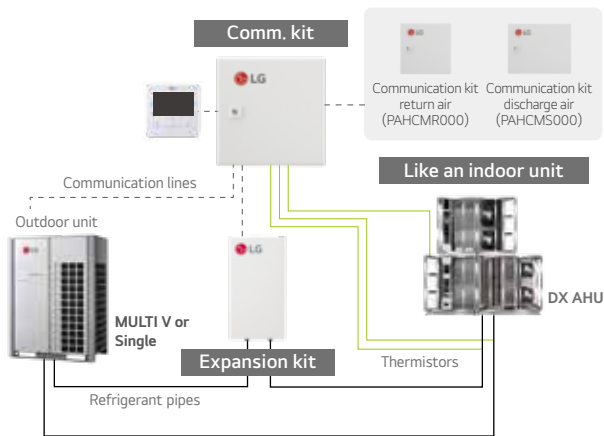
High reliability

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

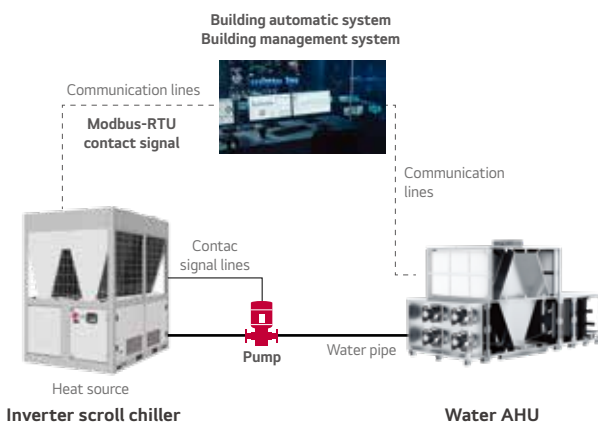
MULTI V inverter compressor MULTI V corrosion resistant H/X (Black fin)

Application scene

DX AHU type



Water AHU type



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



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

- 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

| Number of hours | Resistance of new coating applied to OneAir |
|-----------------|---|
| 162 | 2,412 |

Zinc coating 20 Mu Z275 Aluzinc coating 20 Mu AZ150
Salt spray test in accordance to ASTM B-117 standard

Structure and tightness

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 ePM₁₀ 50% (M5) / ePM_{2.5} 65% (F7) / ePM₁ 70% (F9*)
- * F9 is available as secondary filter

Compact type (Floor mounted)

Casing

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

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

Mini-pleat or bag filters

- Air filters with extended high efficiency filtration surface
- ISO ePM₁₀ 50%(M5) / ePM_{2.5} 65% (F7) / ePM₁ 70% (F9*)
- * F9 is available as secondary filter

EC motor

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

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

Dimension

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

Mini-pleat or bag filters

- Air filters with extended high efficiency filtration surface
- ISO ePM₁₀ 50% (M5) / ePM_{2.5} 65% (F7) / ePM₁ 70% (F9*)
- * F9 is available as secondary filter

Counter flow heat exchanger

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

Control

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

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

EC motor

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

Mini-pleat filters

- Air filters with extended high efficiency filtration surface
- ISO ePM₁₀ 50% (M5) / ePM_{2.5} 65% (F7) / ePM₁ 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 m³/h
to 70,850 m³/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/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)

Compact type (Floor mounted)



Key Features



Energy saving
and silent fans with
ec motors



Plug & play
product



Highly efficient
rotary and hex counter
flow heat exchanger

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

Base unit overall data

| Unit Size | Nominal Airflow (m ³ /h) | Airflow Range (m ³ /h) | Height (mm) | Width (mm) | Duct Connection Heigh (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) | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|
| 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 (m³/h) | Airflow Range (m³/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 (m³/h) | Airflow Range (m³/h) | Height (mm) | Width (mm) | Duct Connection Heigh (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 |

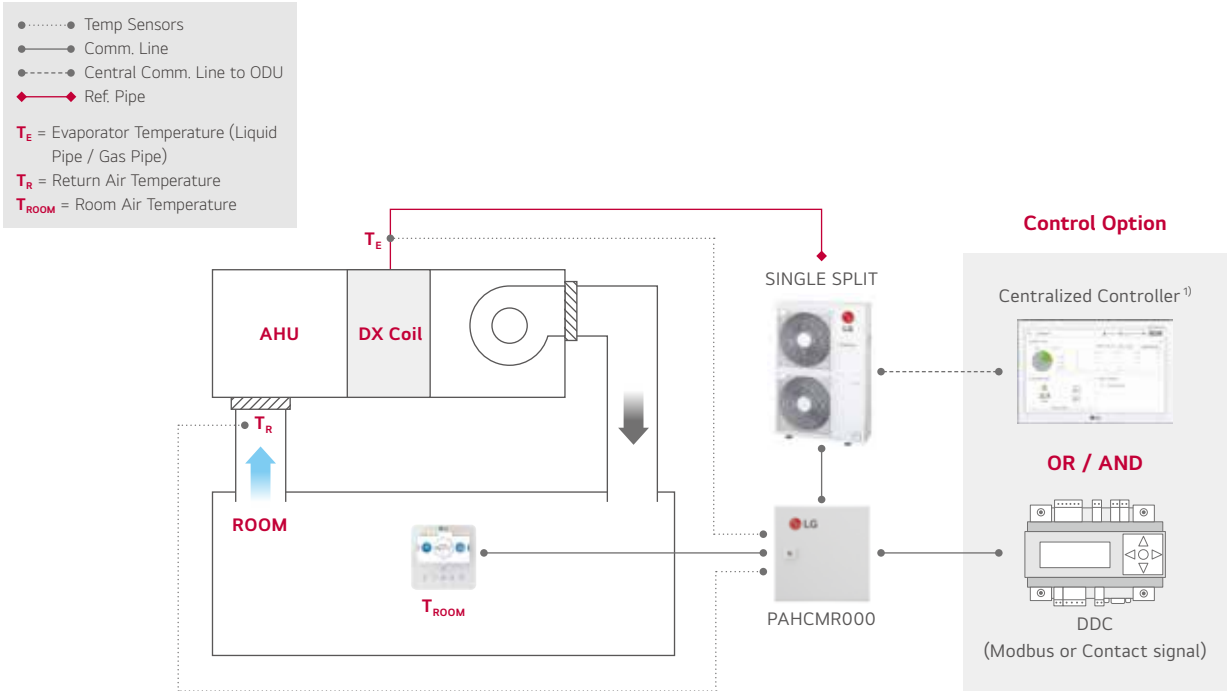
Section length

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

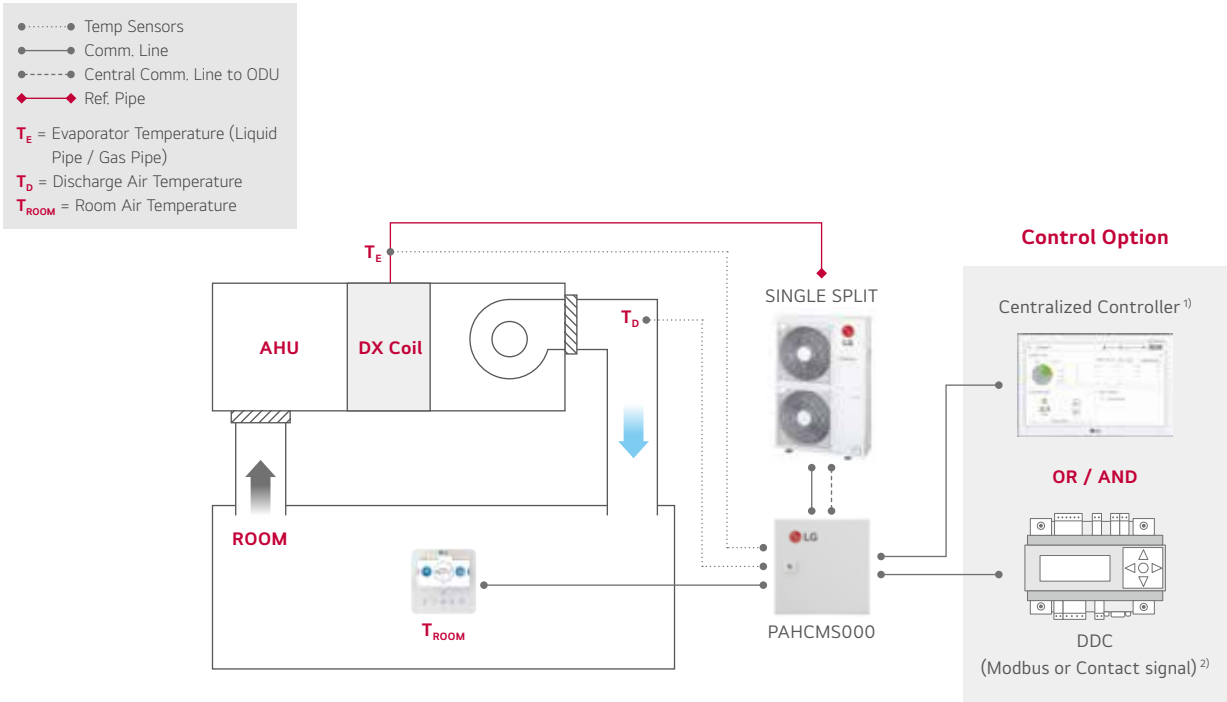
Air Handling Applications

Economically feasible solution for paired application with air handling units.

Return/Room Air Temperature Control



Discharge Air Temperature Control



1) PI485(PMNFP14A1) 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 ¹⁾ | Cooling / Heating | Cooling / Heating | |
| Return (room) Air Temperature | 16~30°C | - | |
| Discharge Air Temperature ²⁾ | - | 16~30°C | Available in case of using DDC with Modbus or LG Control system |
| Fan Speed ³⁾ | 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 ¹⁾ | 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 ULO | 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

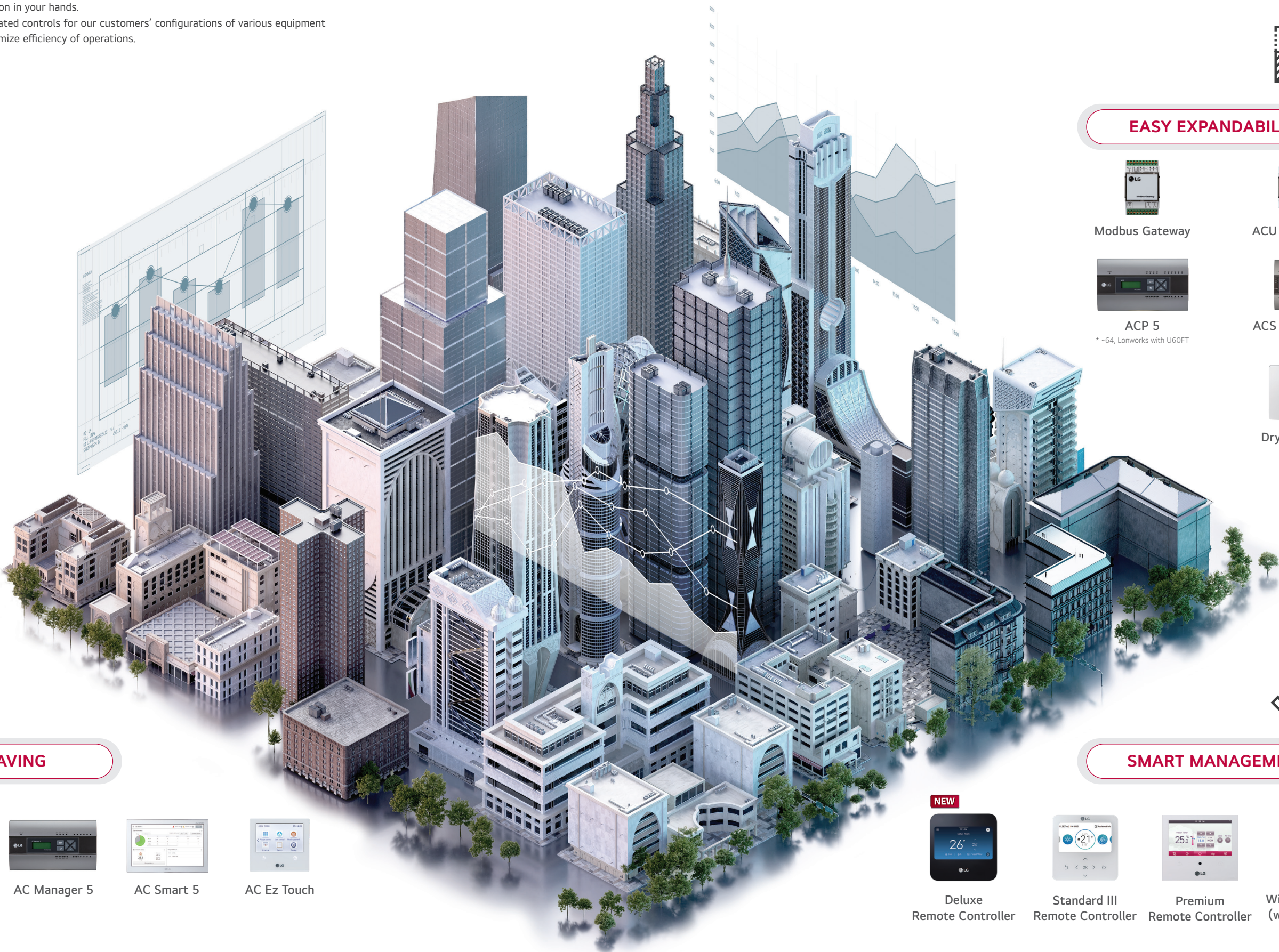
INTEGRATION DEVICE



The Perfect Choice for Innovative Building Management

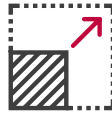
LG BECON HVAC SOLUTION

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.



ENERGY SAVING

- 
PDI
- 
AC Manager 5
- 
AC Smart 5
- 
AC Ez Touch







EASY EXPANDABILITY

- 
Modbus Gateway
- 
ACU IO Module
- 
ACP 5
* -64, Lonworks with U60FT
- 
ACS IO Module
- 
Dry Contact

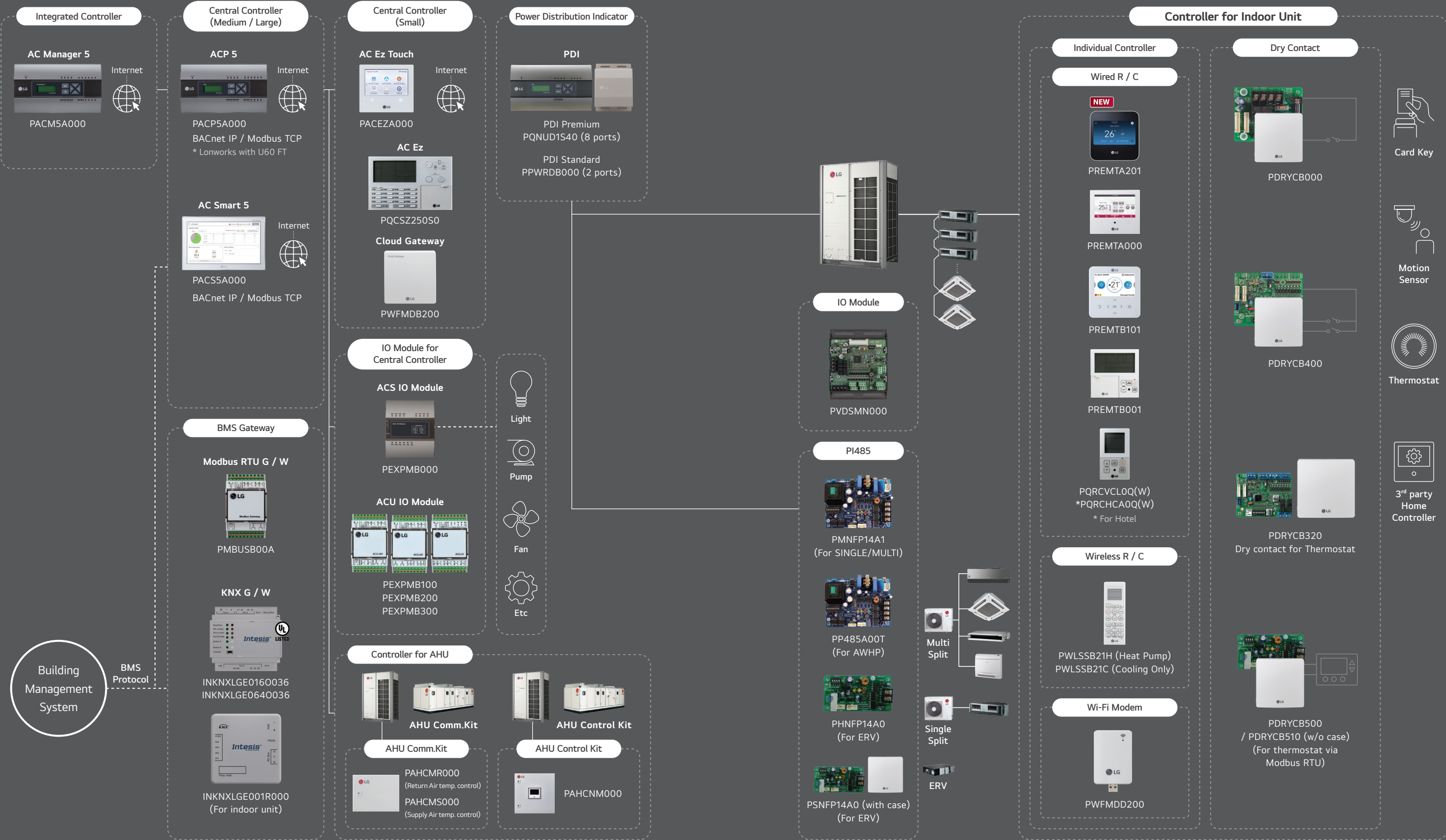


SMART MANAGEMENT

- 
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 | | <div><div>NEW</div></div> <div>PREMTA201</div> | <div></div> <div>PREMTA000 PREMTA000A PREMTA000B</div> | <div></div> <div>PREMTB101 PREMTBB11</div> | <div></div> <div>PREMTB001 PREMTBB01</div> | <div></div> <div>PQRCVCL0Q PQRCVCL0QW</div> | <div></div> <div>PQRCHCA0Q PQRCHCA0QW</div> | <div></div> <div>PWLSSB21H (H/P)</div> |
| Basic | On / Off | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Fan Speed Control | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Temperature Setting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | Mode 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"/> | <input type="radio"/> |
| | Vane Control (Louver Angle) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | E.S.P (External Static Pressure) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | - |
| | Electric Failure Compensation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | - |
| | Indoor Temperature Display | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | ALL Button Lock (Child Lock) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | - |
| Advanced | Schedule / Timer | Pre-set Schedule Mode ²⁾ / Weekly-Yearly | Weekly - Yearly | Weekly - Yearly | Weekly | - | - | Sleep / On / Off |
| | Additional Mode Setting ¹⁾ | <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 ³⁾ | <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"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | - | <input type="radio"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | <input type="radio"/> ⁴⁾ | - |
| | 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 |
| ETC | 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 / PACS5A000 / 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 ¹⁾ | 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) ²⁾ | ○ |
| Reservation | Simple / Sleep / On & Off Timer / Weekly / Yearly / Holiday |
| Time Display | ○ |
| Electric Failure Compensation | ○ |
| Lock | All / On & Off / Mode / Set Temperature Range |
| Filter Sign | ○ (Remain time + Alarm) |
| Energy Management ³⁾ | AI Energy Control ¹⁾ / Check Energy Usage, Operation Time / Target Setting |
| Proximity Sensor | ○ |
| Operation Status LED | - |
| Air Purify Control ⁴⁾ | ○ |
| 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 / PPWRDB000) to be installed.
4) This function is available for indoor units that provide corresponding function.
Note :
1. Indoor unit needs to have functions requested by the controller.
2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.

* 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)



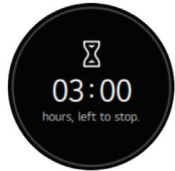
- **Menu**
Schedule, Energy, Settings
- **Current Schedule**
- **Advanced Function**
Wind Direction, Air Purify, Fan Auto, Electric heater, Ventilation kit etc.
- **Target Temperature**
The set temperature area for the current operation mode is displayed (1set / 2set)
- **Fan Speed**
- **Operation Mode**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

Residential

User Interface

- Friendly GUI

Simple Timer



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

Quick On / Off button

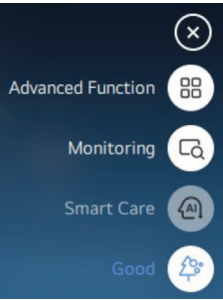


On



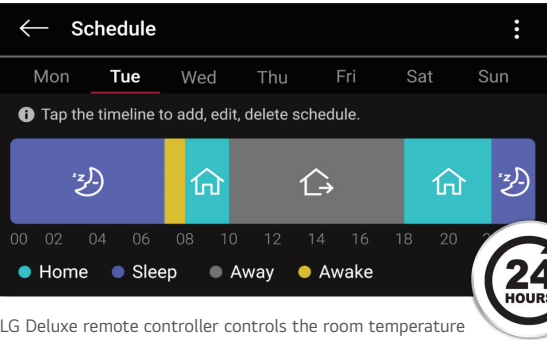
Off

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 Leve [(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

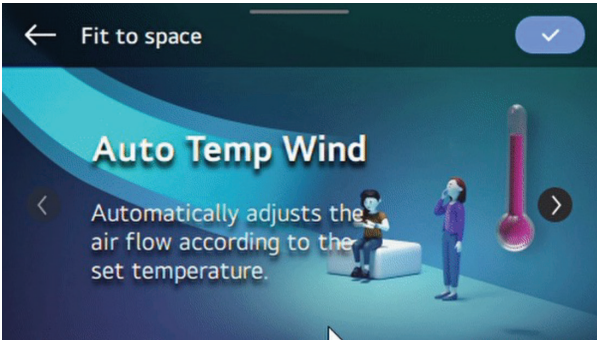
Deluxe Wired Remote Controller

Adding Value to the Indoor Space

User Interface

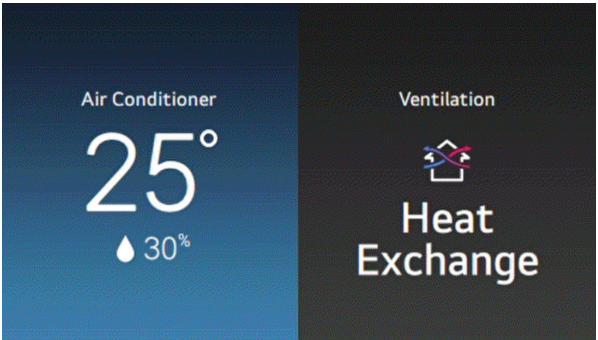
- The world's first remote controller to incorporate airflow animation, facilitating a better understanding of the operation modes.

Intuitive Airflow Visualization



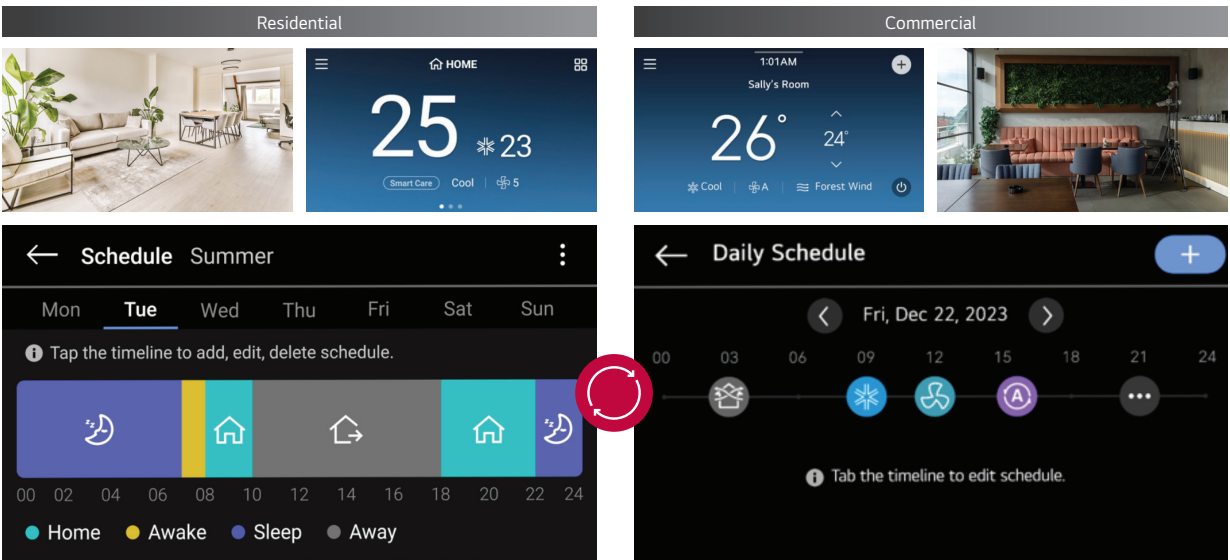
With animations applied, the customer intuitively understands the settings.

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

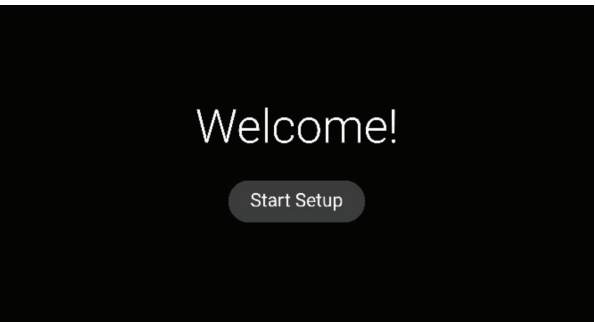
- Built-in Wi-Fi - Easily connect to and start using ThinQ
- Possible to control anytime and from anywhere through ThinQ App.
- Compatible with popular smart home and voice speakers (Google Assistant & Amazon Alexa)



Easy to Install

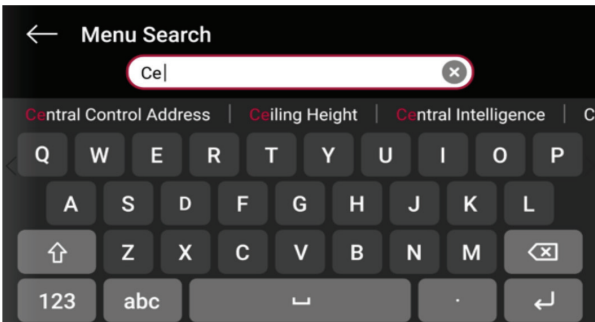
- Starting from the installation wizard, the GUI is intuitive and easy to understand.
- Saves time

Installation Wizard (Welcome function)



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

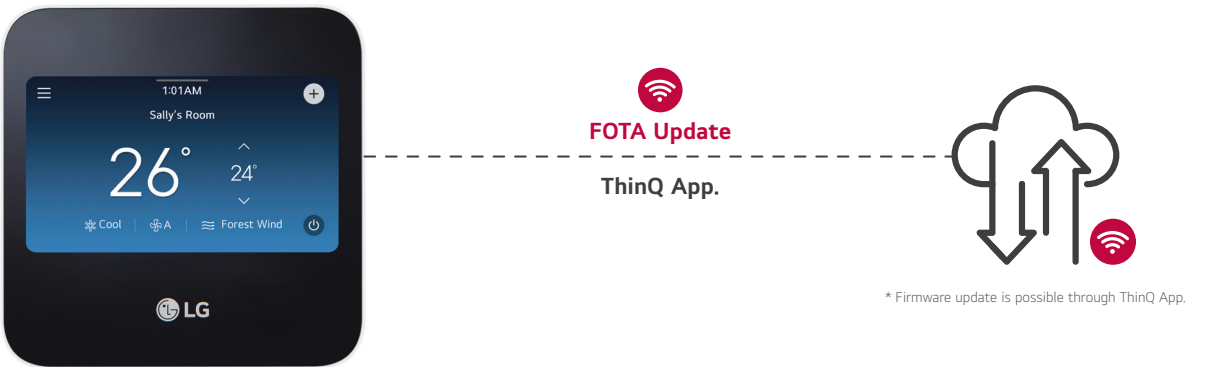
Function Search Tool



- 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.



* Firmware update is possible through ThinQ App.

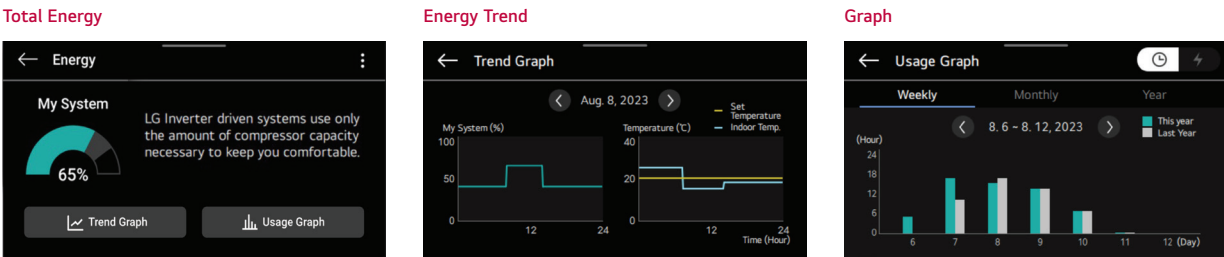
Deluxe Wired Remote Controller

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.

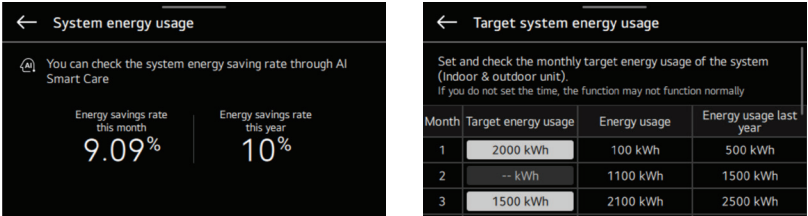
AI Smart Care Control

- Uses AI¹⁾ 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 function²⁾.

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

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

Standard III Wired Remote Controller

Design

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



Touch Button



Cool



Heat



Dry



Fan



Auto

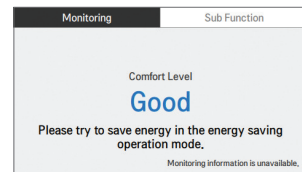
Comfort & Air Purification

- CO₂ level monitoring (For ERV)
- Air quality level monitoring
- Air purify control



Energy Contents

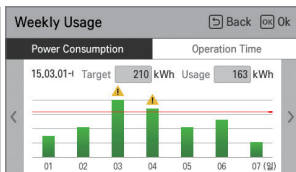
- Power consumption monitoring
- Operation time monitoring
- Temperature setback
- Time limit control



Comfort Level

Advanced Functions

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



Energy Contents

| Error History | |
|---------------|---|
| 06:19 21:15 | > |
| 06:19 21:15 | > |
| 06:19 14:08 | > |
| 06:19 14:04 | > |

Error History

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

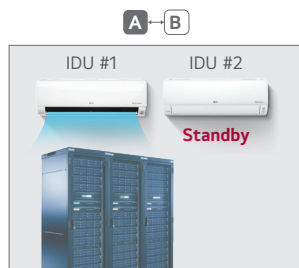
With Duty Rotation



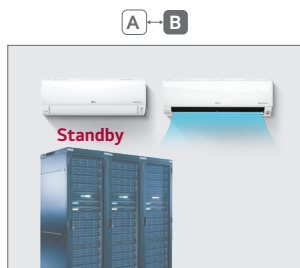
Stable & Safe Operation

- 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



24h



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

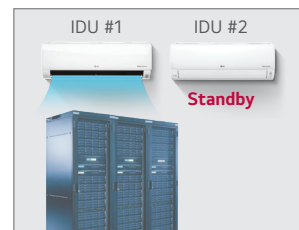
With Failure Back-up



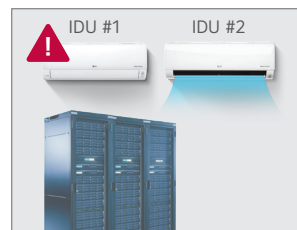
Stable & Safe Operation

- 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

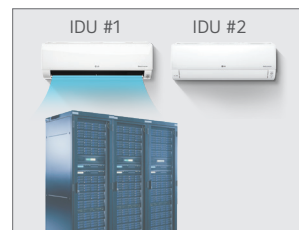
Operation Scenario



24h



24h



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

'Good'

'Moderate'

'Unhealthy'

'Poor'

| 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 / CO₂ concentration

MonitoringSub Function

Comfort Level
22.5° | 61%
Please try to save energy in the energy saving operation mode.
Monitoring information is unavailable.

MonitoringSub Function

Comfort Level
Good
Please try to save energy in the energy saving operation mode.
Monitoring information is unavailable.

MonitoringAir Quality Level

Indoor Temp. CO₂
25.0° | 61%
Moderate
Please try using UVnano for hygienic product use.
Monitoring information is unavailable.

Dual Set Point

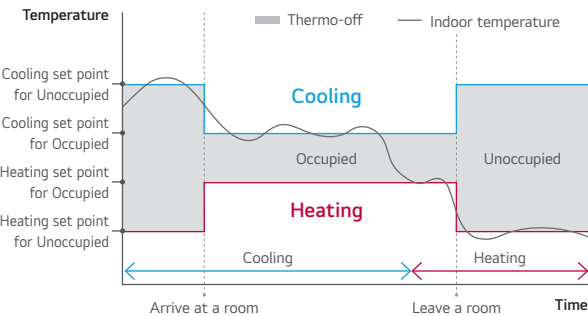
Auto changeover for convenience

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

Setback for energy savings and comfort

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

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



Energy Savings

Energy Management

- Energy Monitoring & Alarm

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

※ PDI (PQNUD1S40 / PPWRDB000) is required.

Instantaneous Power

Target 600 kW
Current 300 kW
Total 1000 kW
Usage against target 50%

Weekly Usage

Power Consumption 16.05.01-07 Target 20 kWh Usage 38 kWh
Operation Time

Instantaneous Power Check

Energy Usage Target Setting

Schedule Function

Simple Schedule Status

Standard III remote controller provides clock type daily schedule.

Schedules & Edit

18: 12:00 AM Everyday | 20.05.17 ~ 20.05.17
Off 06:00 AM Weekday | 20.05.17 ~ 20.05.17
12:00 PM Weekend | 20.05.17 ~ 20.05.17

Daily Schedule Status

Apr30 May01 May02
00:00 AM - 03:00 AM 18 20

External Device On / Off

External Equipment Control

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

Heater On

Time Limit Control

- Monitoring the unit's continuous running time.
Prevents wasted energy by turning the unit off automatically.

2:00 PM ON

7:00 PM OFF

Exception Day Settings

Possible to set up exception days on regular schedule.

Exception Day

+Add exception day

2023.12.25

2024.03.01

2024.09.03

2024.11.06

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.

On Condition

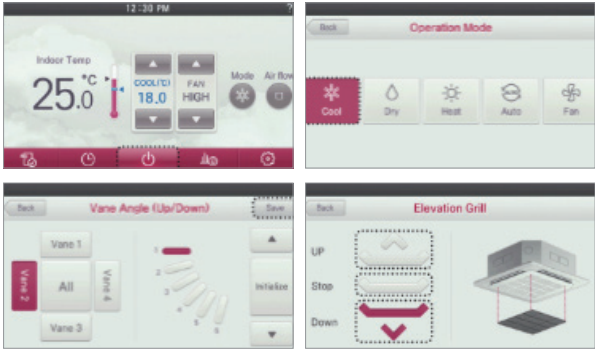
Condition Control

Curr. Temp. 10° Under Heater On

Premium Wired Remote Controller



Full Touch Screen



PREMTA000 ¹⁾ / PREMTA000A ²⁾ / PREMTA000B ³⁾

5-inch full touch screen with a premium design.



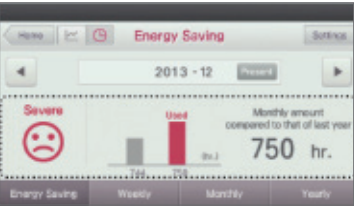
* Supported languages list
1) English / Portuguese / Spanish / French
2) English / Italian / Russian / Chinese
3) English / German / Polish / Czech

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

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product.
2) This function is available for duct type.
3) This function requires PDI (PQNUD1540 / 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

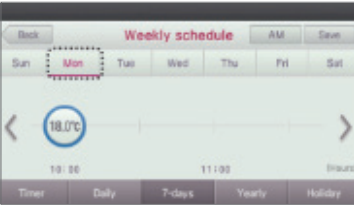
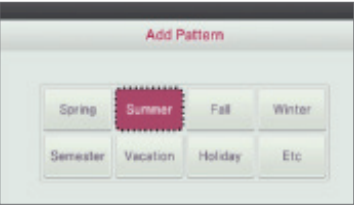
Easy Energy Management

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



Easy Scheduling

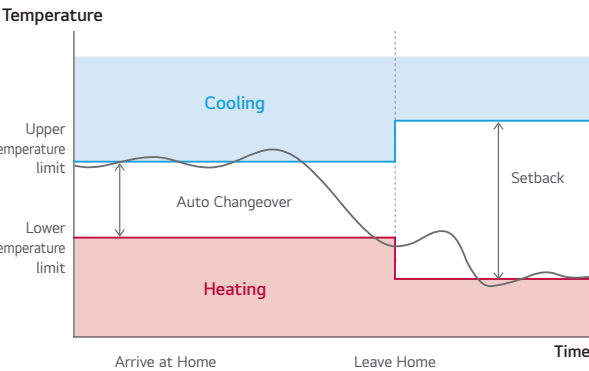
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy



Dual Set Point

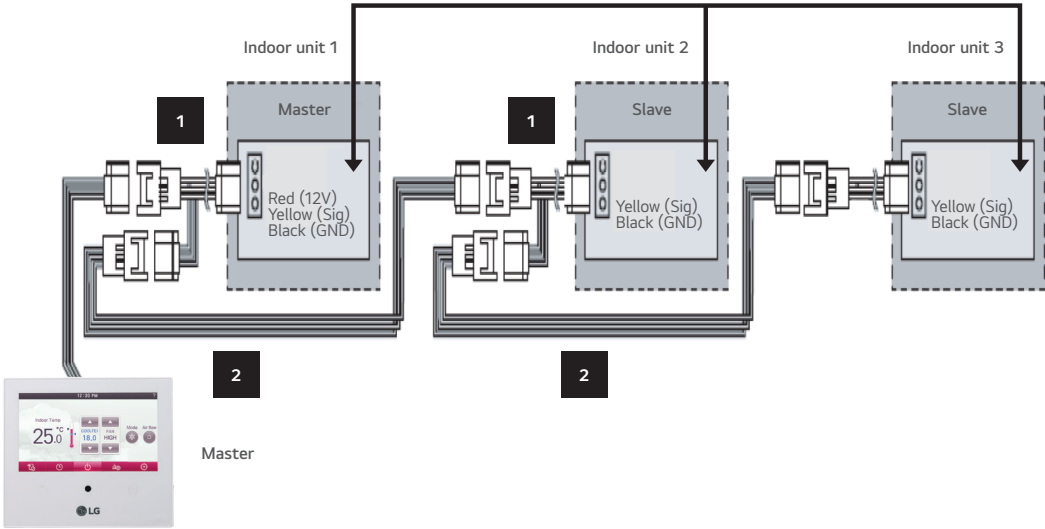
- Auto changeover switches the operation mode automatically
- Setback (Leave Home) Changing status by occupied / unoccupied

* 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 | ○ ¹⁾ |
| Size (W x H x D, mm) | 120 x 121 x 16 |
| Black Light | ○ |
| Power Consumption Monitoring | ○ ²⁾ |
| Check Model Information | ○ |

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

Simple Wired Remote Controller

PQRCVCL0QW (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 | ○ ¹⁾ | ○ ¹⁾ |
| 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.



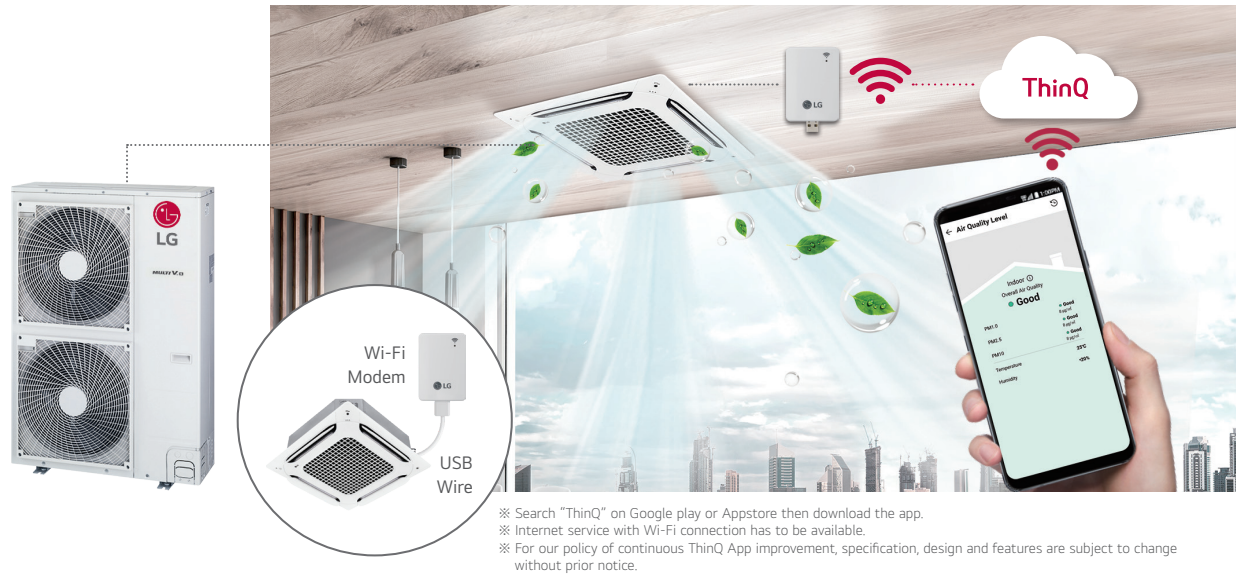
Features & Benefits

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

| MODEL NAME | PWLSSB21H (H/P), PWLSSB21C (C/O) |
|---------------------------------|--|
| On / Off | ○ |
| Fan Speed Control | ○ ¹⁾ |
| 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



PWFMD200

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



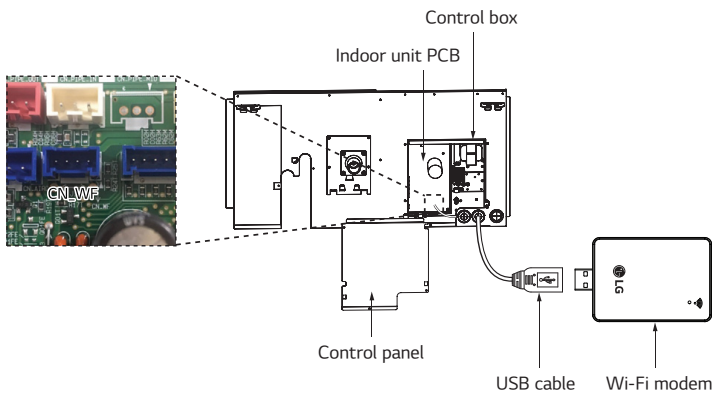
Features & Benefits

- 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 ¹⁾
 - Reservation (Sleep, Weekly On / Off)
 - Energy Monitoring ²⁾
 - Filter Management
 - Error Check
 - Air Purify ³⁾

| MODEL NAME | PWFMD200 |
|--------------------------|---|
| Size (W x H x D, mm) | 48 x 68 x 14 |
| Interfaceable Products | System Air Conditioner ³⁾ |
| Connection Type | Indoor unit 1:1 |
| Communication Frequency | 2.4 GHz |
| Wireless Standards | IEEE 802.11b / g / n |
| Mobile Application | LG ThinQ (Android 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



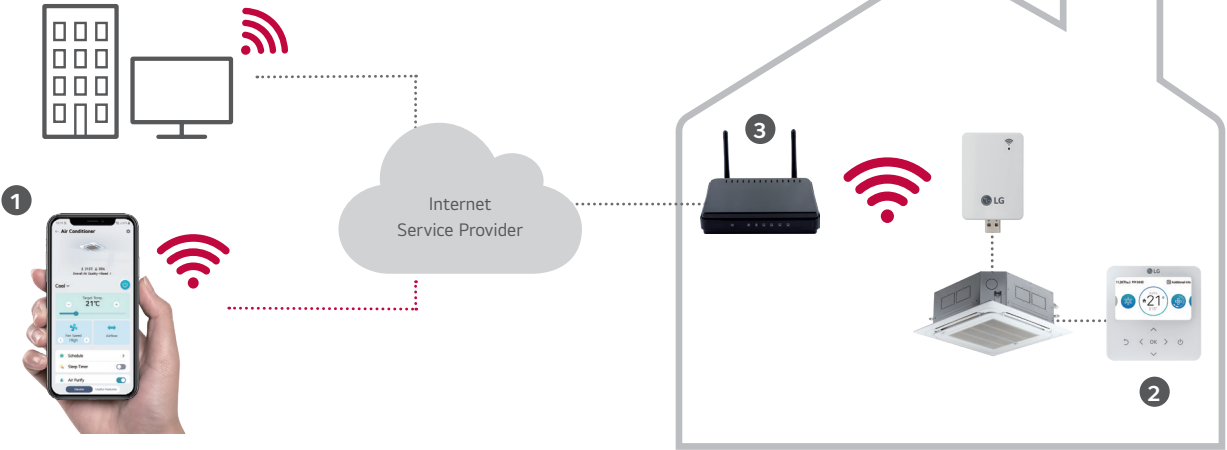
※ The Wi-Fi communication distance and reliability may be vary due to the type of Wi-Fi router and the installation environment, Please refer to the manual.

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.

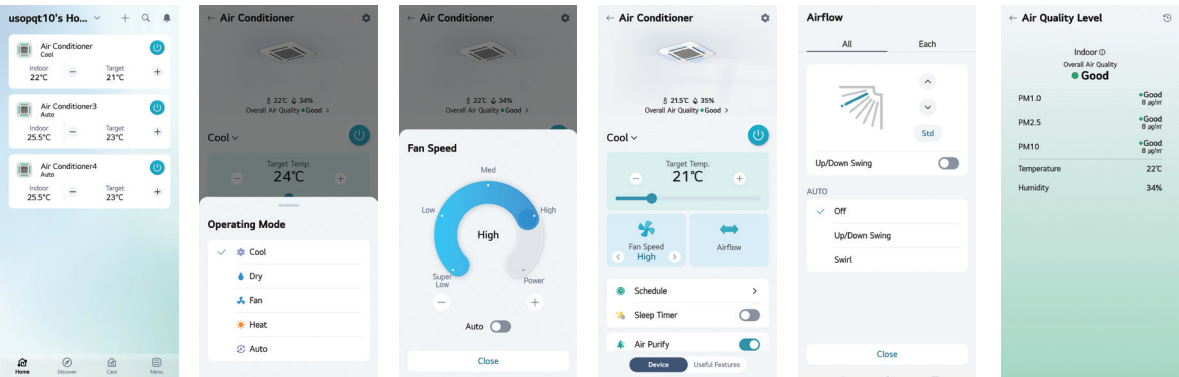
4 ThinQ



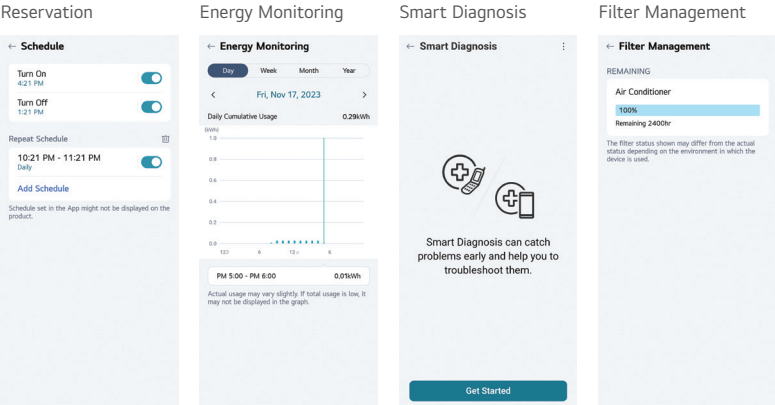
ThinQ Mobile App

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.

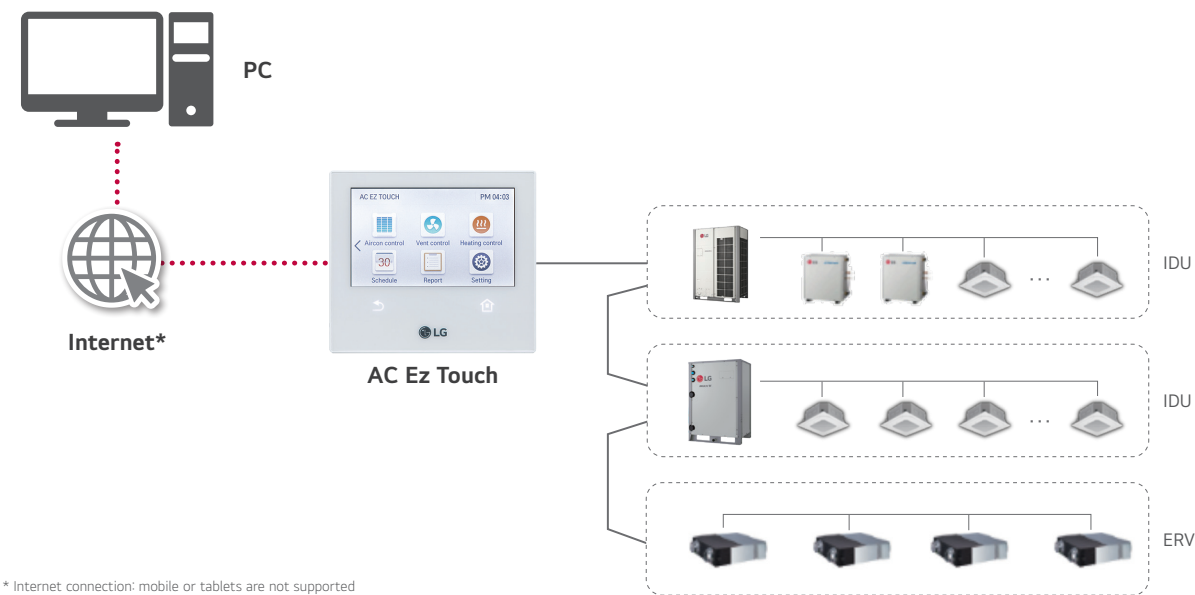


Feature Functions

| Controller Name | | | AC Ez | AC Ez Touch | AC Smart 5 ⁶⁾ | ACP 5 ⁶⁾ | | AC Manager 5 ⁷⁾ | 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 ⁵⁾ | 16 x 32 | - |
| | | Chiller | - | - | 5 | 10 | - | 10 x 32 | - |
| | Commercial Air Purifier ¹⁾ | - | - | 64 | 128 | - | 128 x 32 | - | |
| Compatibility | Air Conditioner | | ○ ³⁾ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Ventilation (ERV / ERV DX) | | ○ ⁴⁾ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Heating | | - | ○ | ○ | ○ | ○ | ○ | ○ ⁸⁾ |
| | AHU | | - | - | ○ | ○ | ○ | ○ | - |
| | Chiller | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | - | ○ | - |
| | Commercial Air Purifier ¹⁾ | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | - | ○ | - |
| | ACS IO | | - | - | ○ | ○ | ○ ⁵⁾ | ○ | - |
| Additional Function | Add Drawing | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Group Management | | - | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Auto Changer Over | | - | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Set Back | | - | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Dual Setpoint | | - | ○ | ○ | ○ | ○ ⁵⁾ | ○ | - |
| | Change Alarm | | - | Filter | Filter | Filter | Filter | Filter | - |
| | Indoor Unit Lock | | ○ ²⁾ | ○ | ○ | ○ | ○ ⁵⁾ | - | - |
| | Cycle Monitoring | | - | - | ○ | ○ | ○ ⁵⁾ | ○ | ○ |
| | Air Purify | | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | - | ○ | - |
| Schedule | | | ○ | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | ○ ⁹⁾ |
| Auto Control | Peak Control | Energy & Priority Control | - | ○ | ○ | ○ | ○ ⁵⁾ | ○ | - |
| | | Outdoor Unit Capacity Control | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Time limit control | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Interlocking | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Energy Navigation | | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | - | ○ |
| Energy Report | Power | | - | ○ | ○ | ○ | ○ ⁵⁾ | ○ | ○ ⁸⁾ |
| | Gas | | - | - | ○ | ○ | ○ ⁵⁾ | ○ | - |
| | Run time | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Save to PC / USB (Excel) | | - | - | PC / USB ⁵⁾ | PC | PC | PC | - |
| Trend Reporting | | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | - | ○ | - |
| History | Report (Control / Error) | | - | Error | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | ○ |
| | Send Email | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Save to PC / USB (Excel) | | - | - | PC / USB | PC | ○ ⁵⁾ | PC | - |
| etc | Summer Time | | - | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | Outdoor Unit Oil-Return Operation | | - | - | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | - | - |
| | User Authority | | - | Password | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |
| | PC Access | | - | ○ | ○ ⁵⁾ | ○ ⁵⁾ | ○ ⁵⁾ | ○ | - |

※ ○ : 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 PI485 should be used according to PDB.

PACEZA000

Smart management with 5-inch touch screen for small sites.

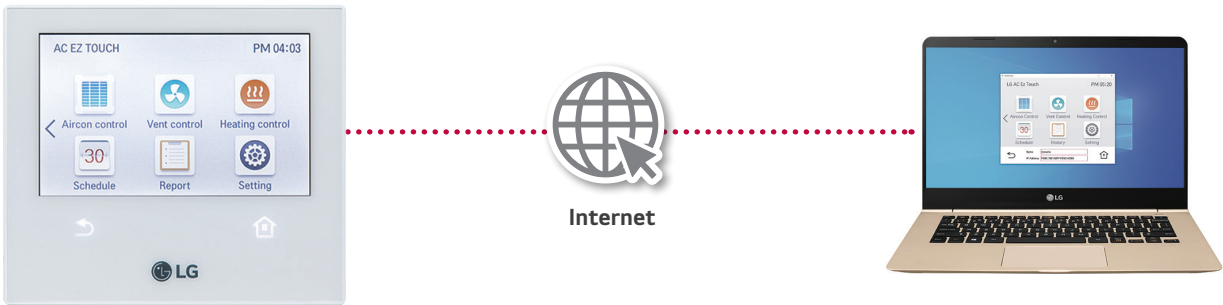


| MODEL NAME | PACEZA000 |
|--|---|
| Size (W x H x D, mm) | 137 x 121 x 25 |
| Interfaceable Products | MULTI V / ERV / ERV DX / Hydro Kit / THERMA V |
| Maximum number of units | 64 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / 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 ¹⁾ | ○ |
| Daylight Saving Time | ○ |
| External IO Port | DI 1 |
| IPv6 Support | ○ |
| Air Purify Control | ○ |
| Air Quality Level | ○ |

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

PC Access

Users can control each space efficiently through PC access.



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

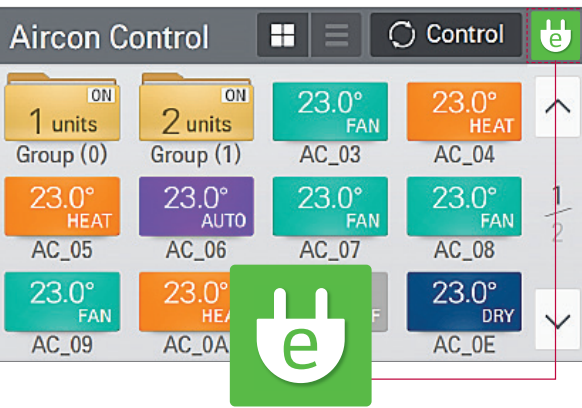
Energy Statistics (with PDI)

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

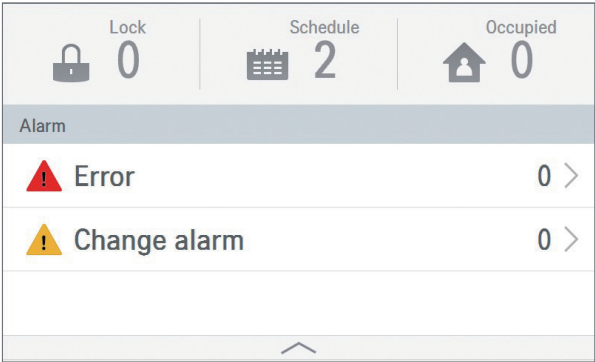
| AC_UNIT_00 | | | |
|------------------|---------------------|--------|-------|
| Room temp | Now working | UVnano | Lock |
| 23.0° | | ON | Clear |
| Air Purification | Overall Air Quality | PM10 | 30 |
| ON | | PM2.5 | 10 |
| | | PM1.0 | 10 |

| Aircon control(1unit) | | | |
|-----------------------|-----------|----------------|------------|
| Set temp | Air Clean | Clear | UVnano |
| -- | ON | | ON |
| 23.0° | Swing | Set temp range | 2set point |
| | OFF | 16.0°~30.0° | OFF |
| Cancel | | Apply | |

AC Ez Touch

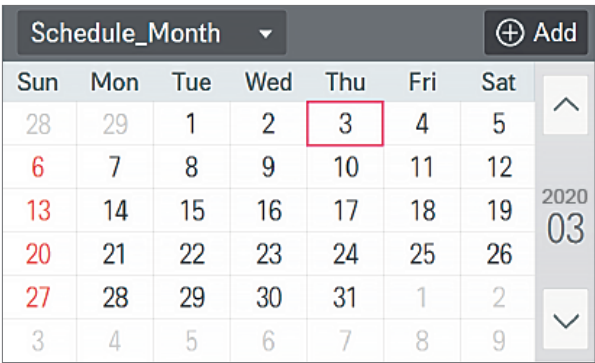
Alarm Indicator

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



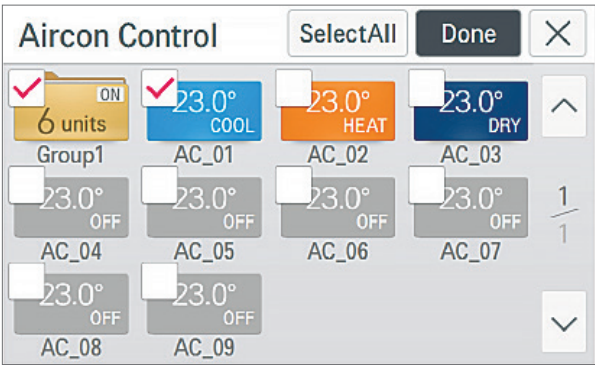
Schedule

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.

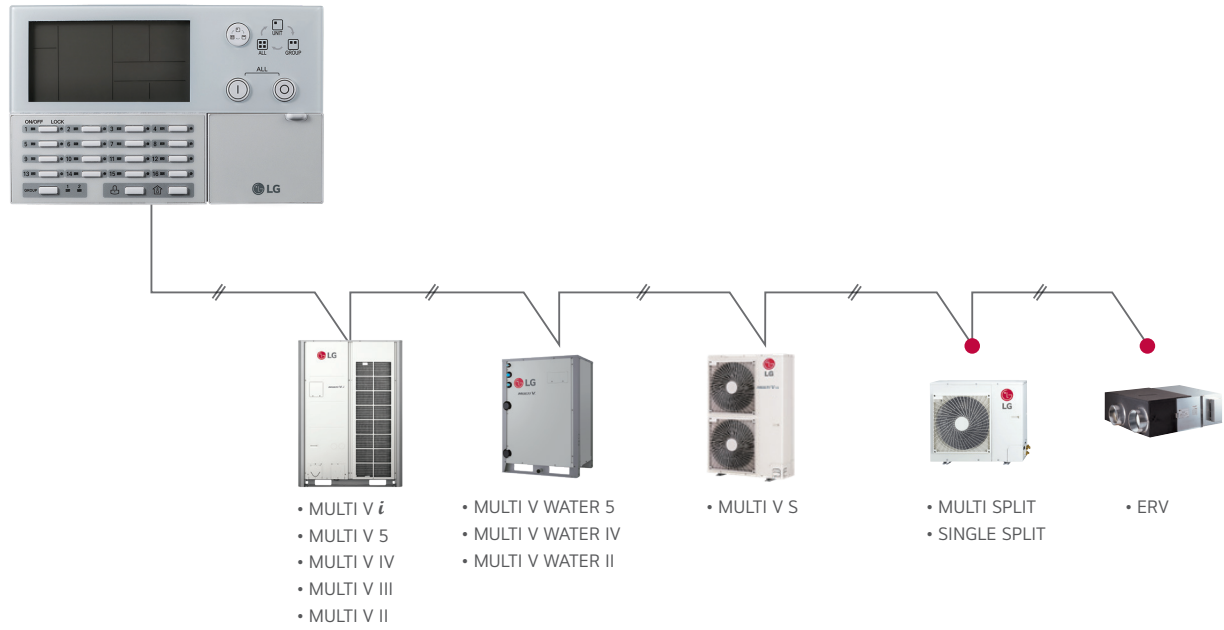


Group / Individual Control

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.



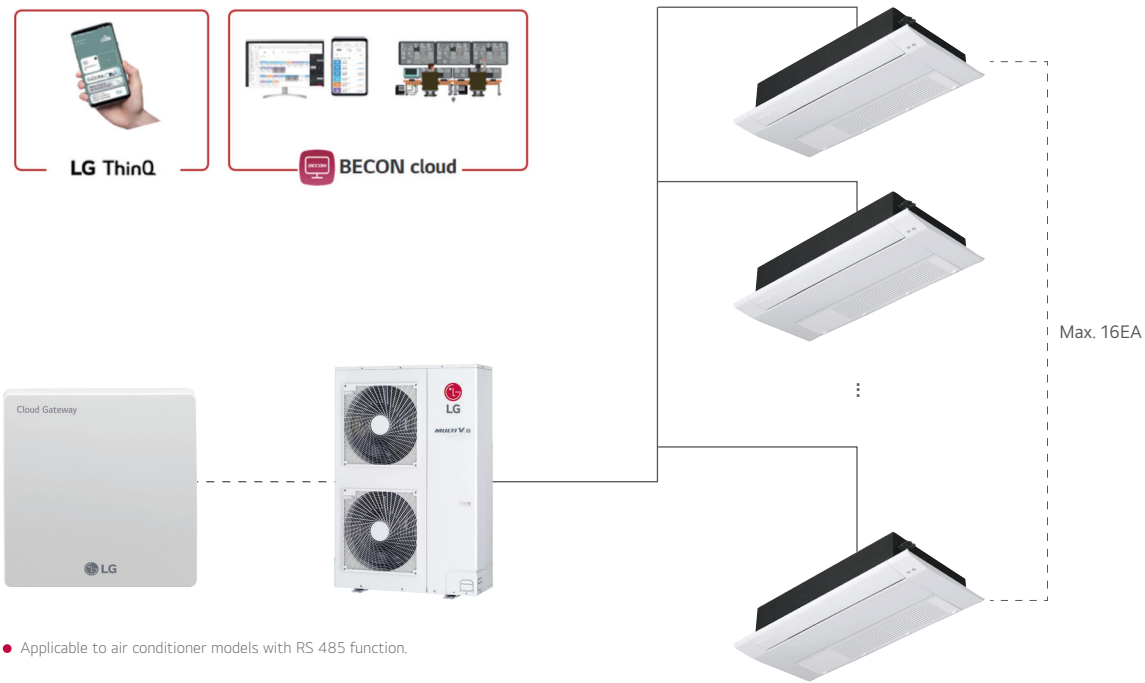
Features & Benefits

- 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

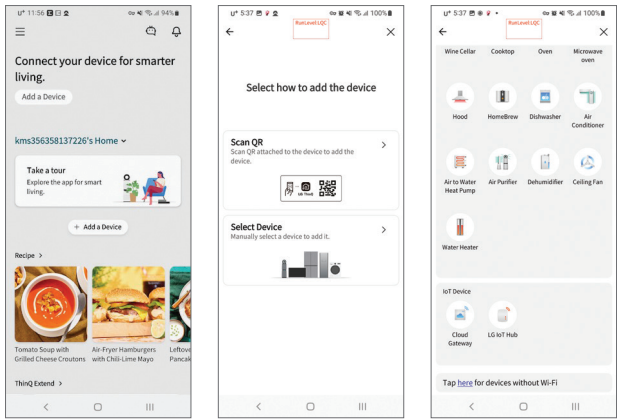


● Applicable to air conditioner models with RS 485 function.

PWFMDB200

Cloud Gateway can remotely control up to 16 indoor units through LG ThinQ or BECON Cloud.

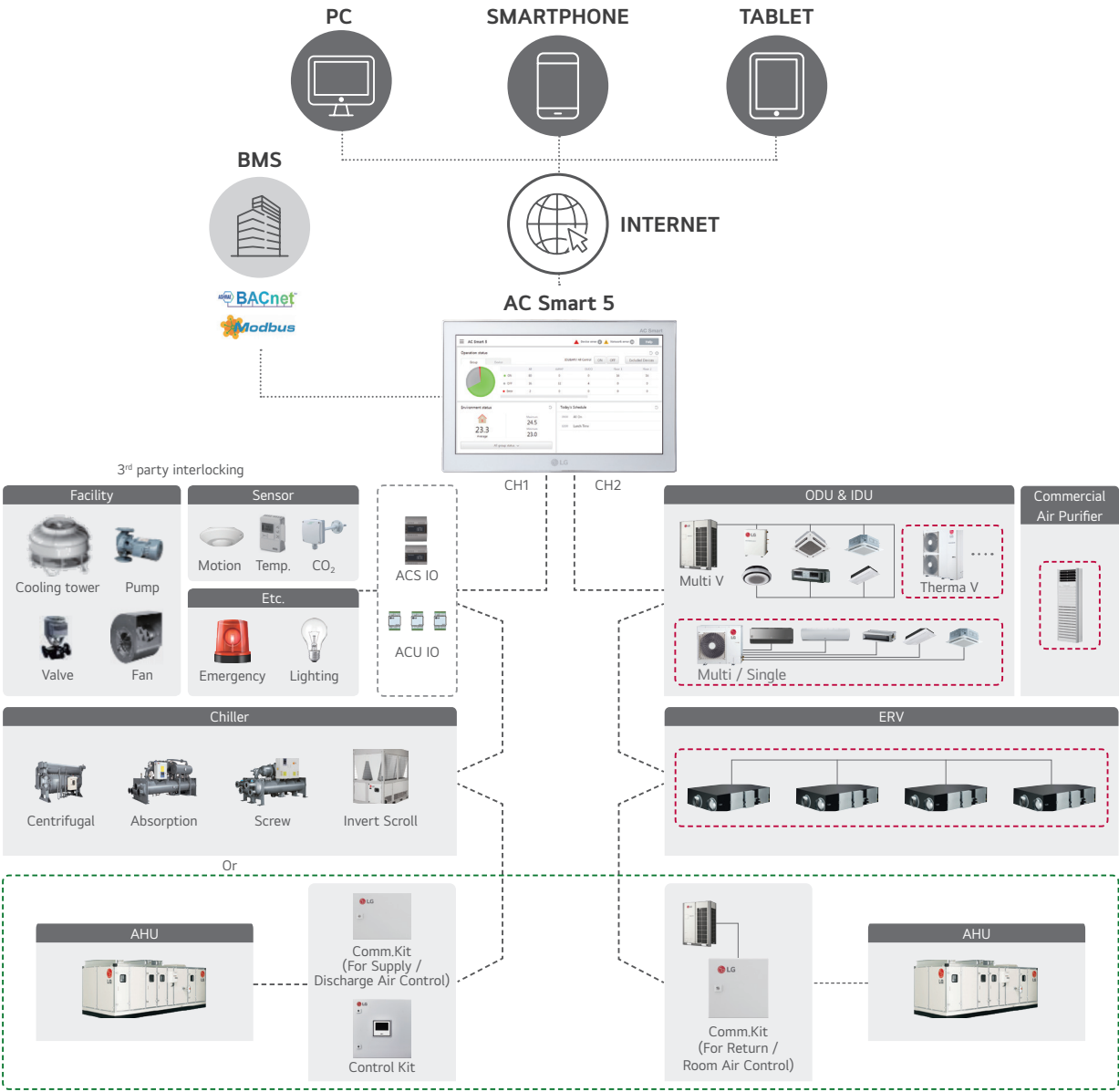
Cloud Gateway



| 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 ¹⁾ |
|----------------------|------------------------|-----------------|---------------------------|
| Max. number of unit | | 16 | |
| Remote Control | Operation Start / Stop | ○ | ○ |
| | Operation Mode | ○ | ○ |
| | Target Temperature | ○ | ○ |
| | Fan Speed | ○ | ○ |
| | Swing | ○ | ○ |
| | Air Purify | ○ | ○ |
| Interlocking Product | MULTI V | ○ ²⁾ | ○ |
| | GHP | ○ | ○ |
| | MULTI | ○ | ○ |
| | Single | ○ | ○ |
| | ERV | X | ○ |
| | Heating | X | ○ ³⁾ |
| Etc | Schedule | ○ | △ ⁴⁾ |
| | Electricity Monitoring | X | ○ ³⁾ |
| | 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.

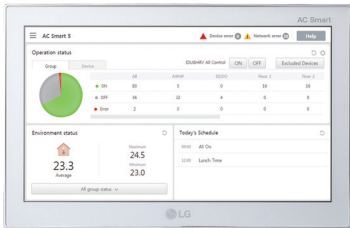


1) According to CH1 setting, normal ODU can be connected to CH1.
(Flexible wiring design with 2 ports)
2) Appropriate PI485 should be used according to PDB (Product Data Book).
3) For details, refer to the product PDB or manual.

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

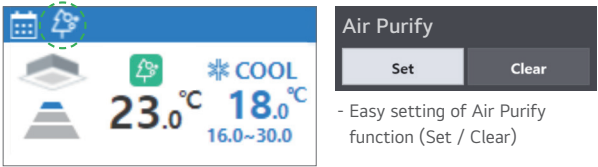
| MODEL NAME | PACS5A000 |
|--|--|
| Size (W x H x D, mm) | 253.2 x 167.7 x 28.9 |
| Interfaceable Products | MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier |
| Maximum number of units | 128 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Advanced Function Setting and Display ¹⁾ | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check | ○ |
| Slave Mode (Interlocking with higher level controller) | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Web Access | ○ |
| Emergency Stop & Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation Time Limit | ○ |
| Visual Navigation | ○ |
| Operation Trend | ○ |
| 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 ²⁾ | 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.

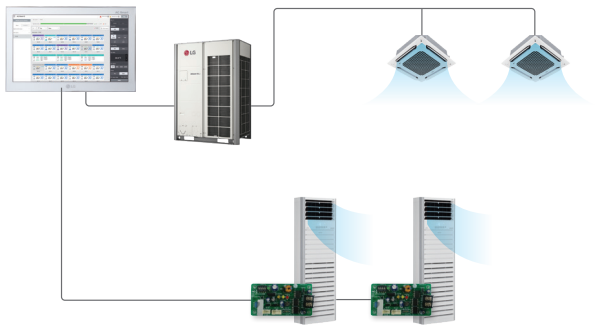
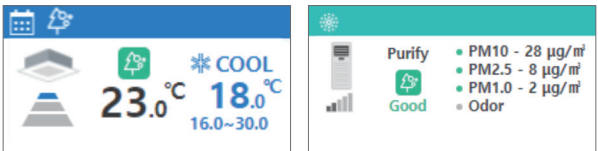
AC Smart 5

A Total Air Purification Solution

Air Purify Control



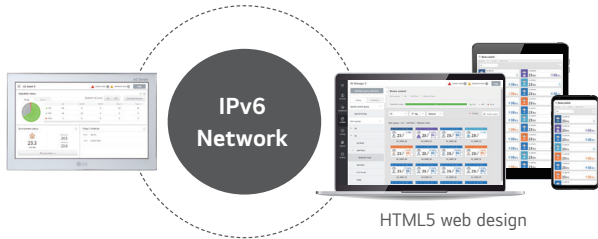
Air Quality Level Monitoring



* The Commercial Air purifier must additionally install PI485(PHNFP14A0).

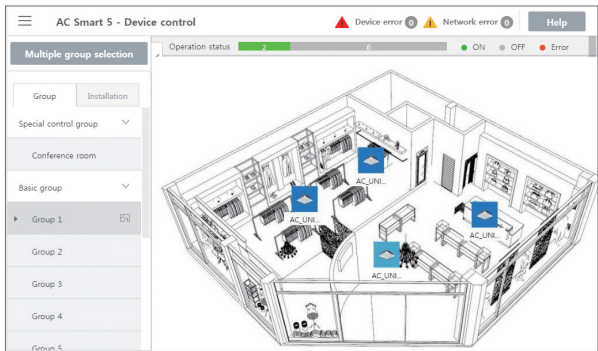
Advanced Network Accessibility

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.



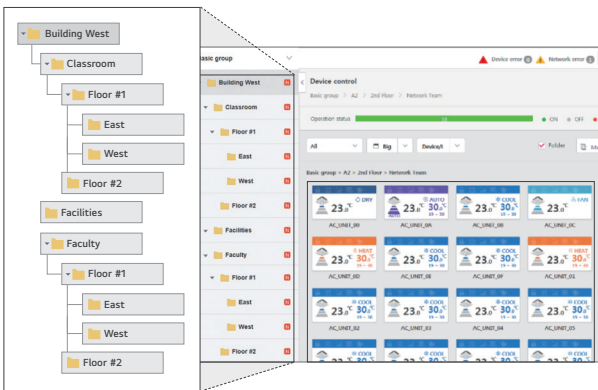
Visualized Control

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



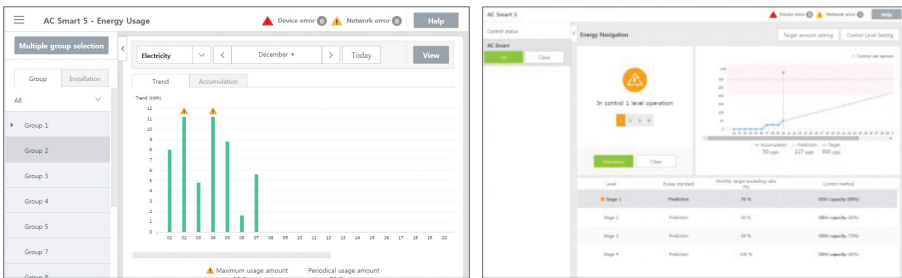
Multi Level Group Composition

Users can create frequency or multi-level groups, making it easier to control and monitor the devices.



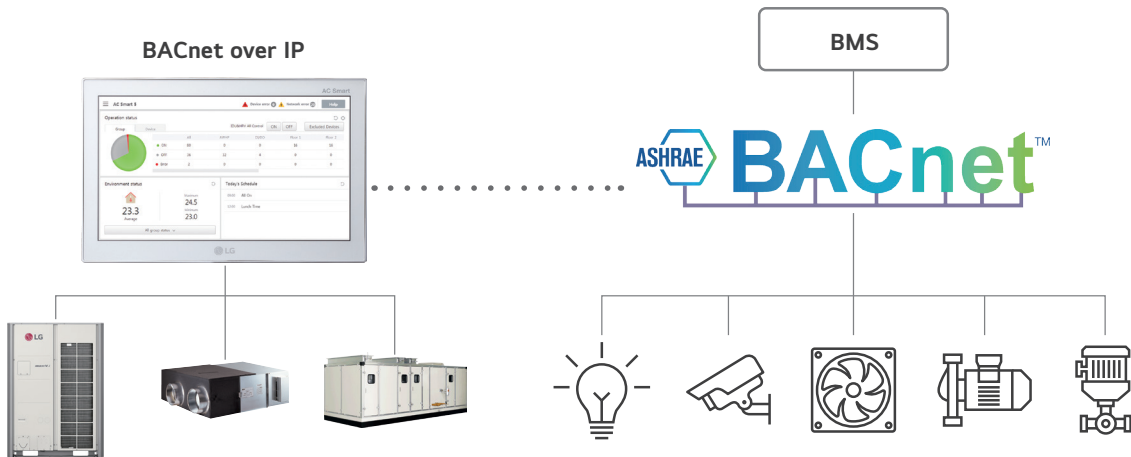
Energy Management

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.



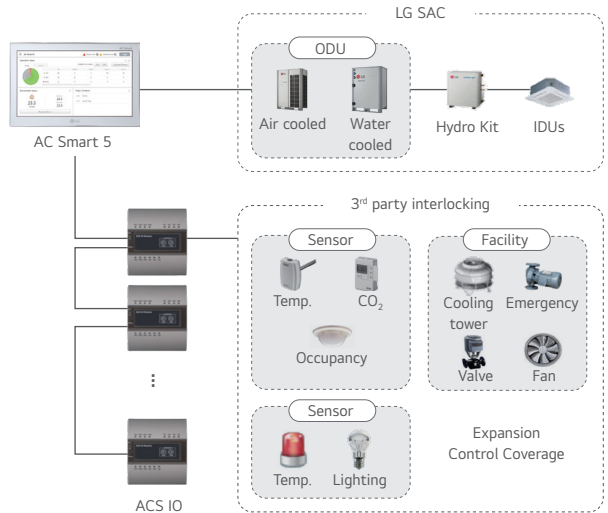
Building Management System (BMS) Integration

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

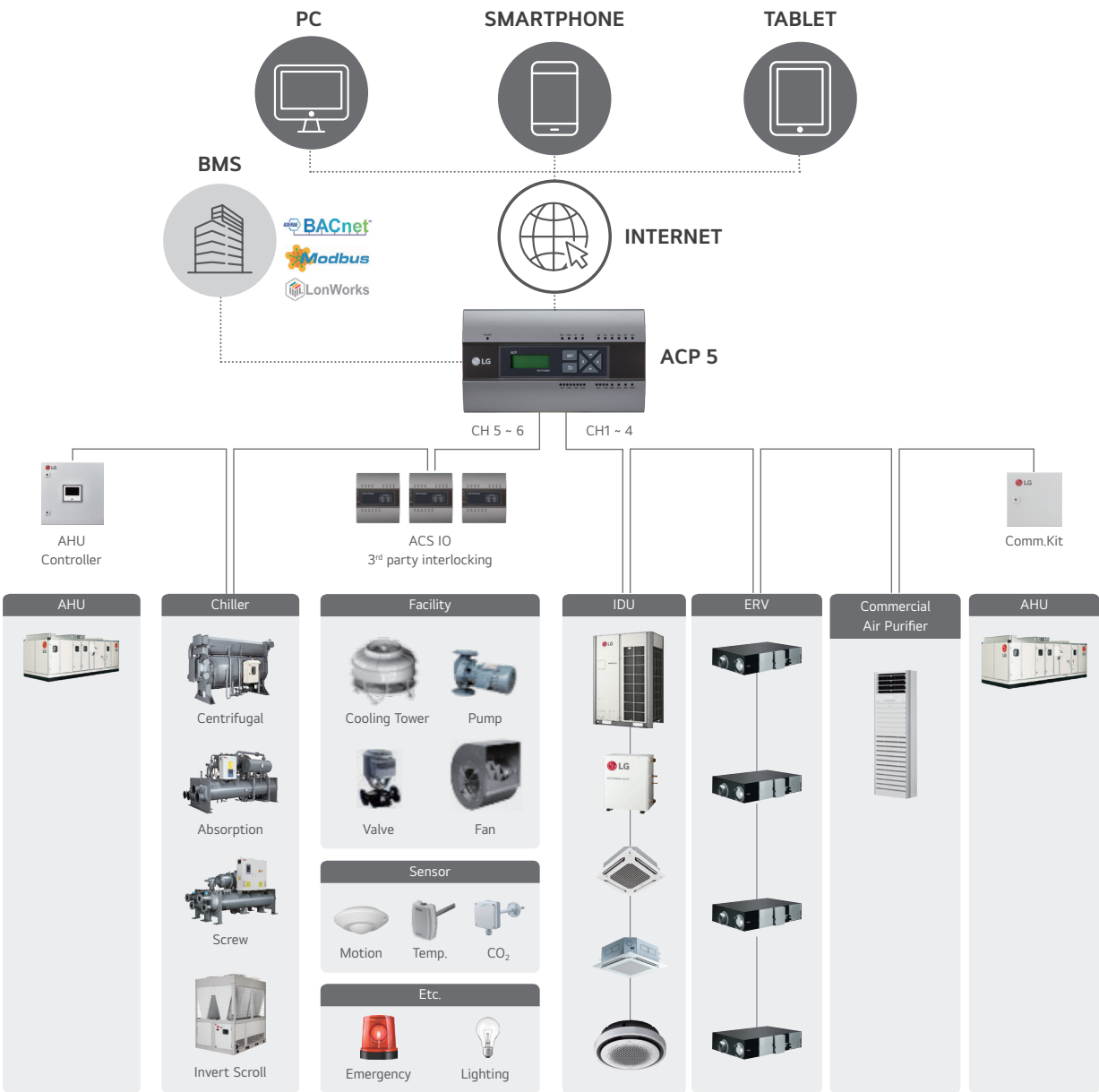


Interlocking with 3rd Party Equipment

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

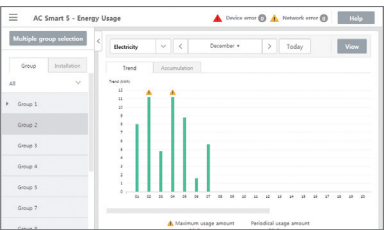


Advanced Network Accessibility

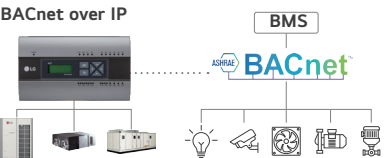


* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

Energy Navigation



BACnet IP & Modbus TCP



PACP5A000

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



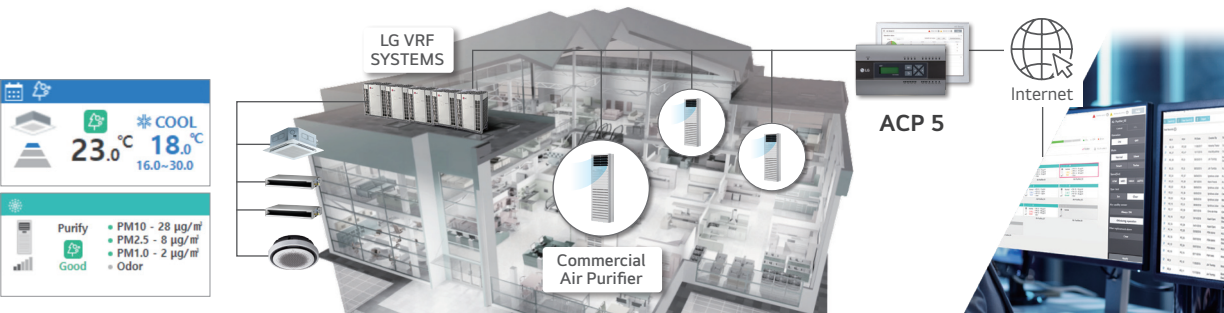
| MODEL NAME | PACP5A000 |
|---|--|
| Size (W x H x D, mm) | 270 x 155 x 65 |
| Interfaceable Products | MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier |
| Maximum number of units | 256 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Advanced Function Setting and Display ¹⁾ | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Web Access | ○ |
| Emergency Stop & Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation Time Limit | ○ |
| Visual Navigation | ○ |
| Operation Trend | ○ |
| 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 ²⁾ | 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.

Air Purify Control / Monitoring

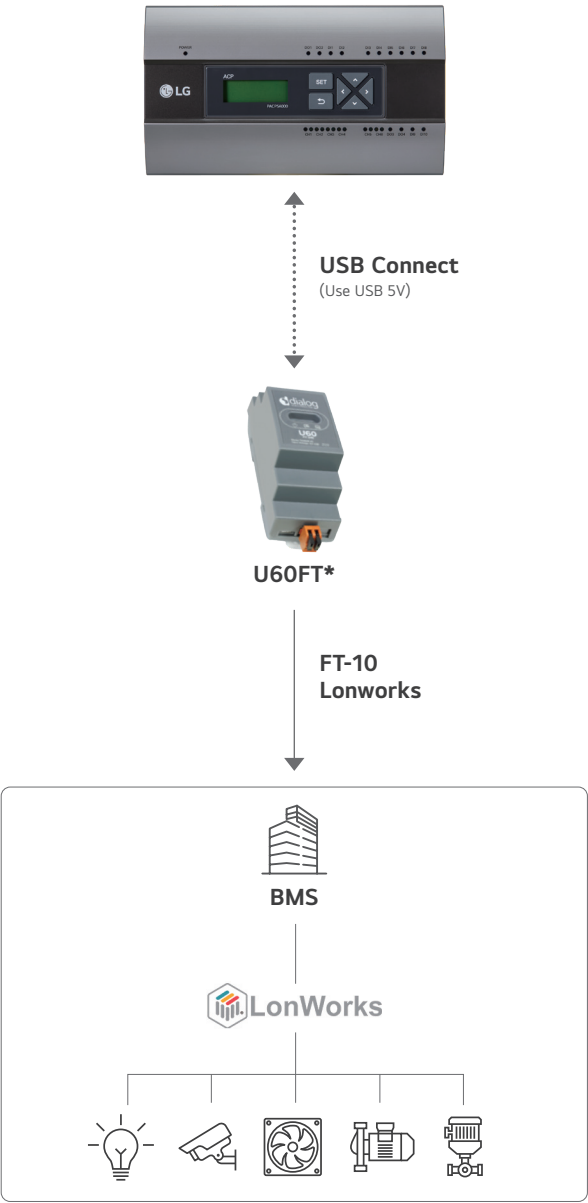
Integrated Management

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.

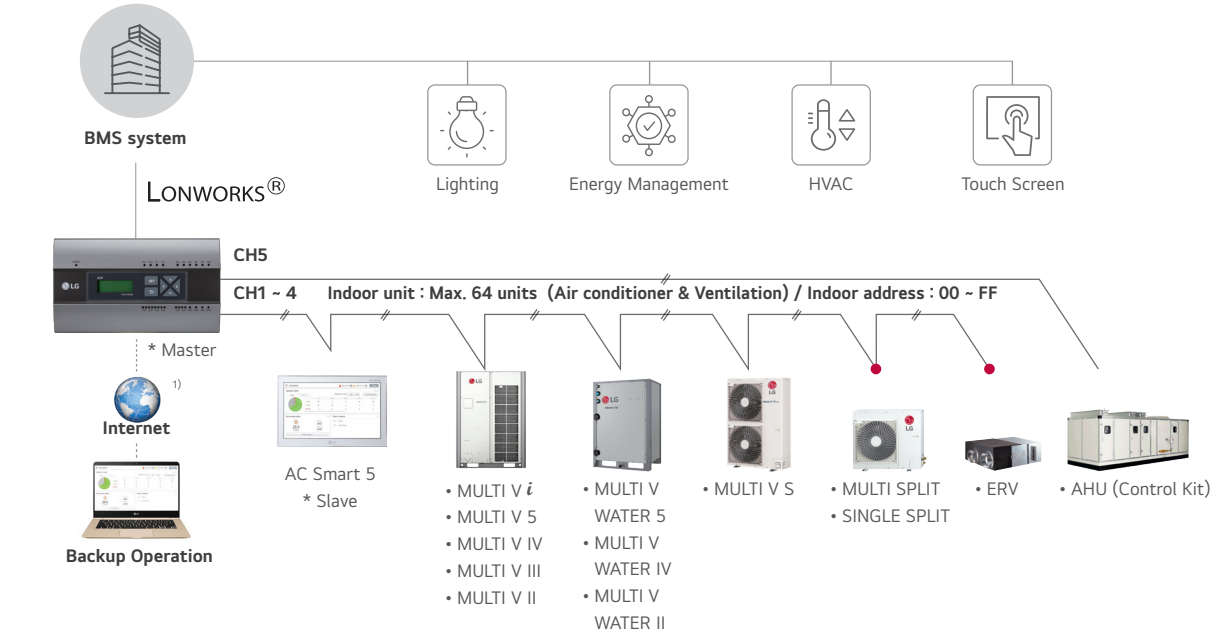


| UNIT TYPE | BACNET IP | MODBUS TCP | LONWORKS |
|---------------------|-----------------|------------|----------|
| IDU | ○ | ○ | ○ |
| ERV, DX ERV | ○ | ○ | ○ |
| ODU | Monitoring Only | - | - |
| Heating | ○ | ○ | ○ |
| AHU | ○ | ○ | - |
| Scroll Air Inv Gen2 | ○ | - | - |
| EXP I/O | ○ | - | - |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

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

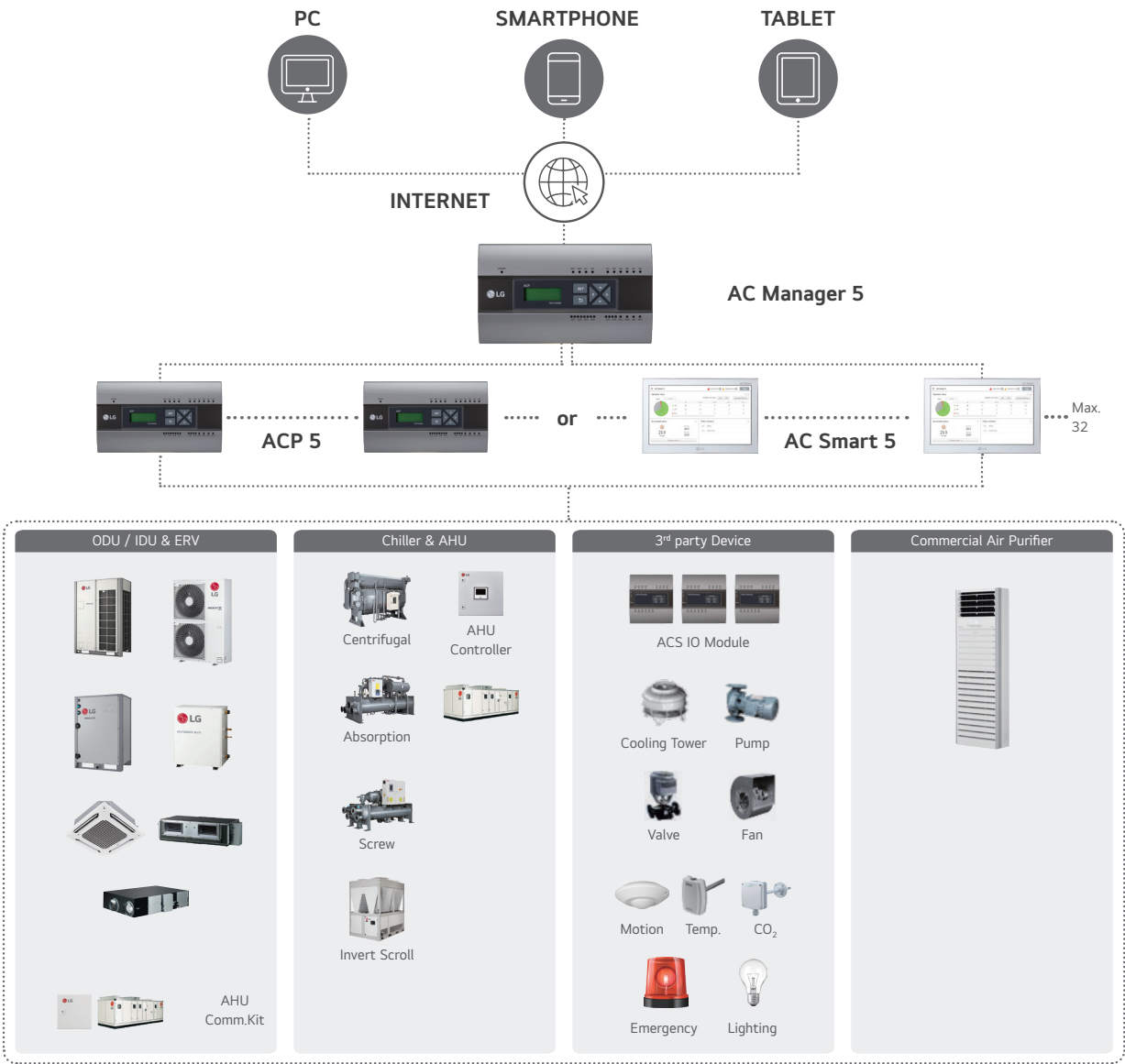
| CONTROL | MONITORING |
|--------------------------|--------------------------------|
| On / Off Command | On / Off |
| Operation Mode Setting | Operation Mode |
| Lock | Lock |
| Temperature | Temperature |
| Fan Level | Fan Level |
| Fan Direction Auto | Fan Direction Auto |
| Mode Lock | Mode Lock |
| 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 PI485 should be used according to PDB (Product Data Book).

AC Manager 5



PACM5A000

Multiple ACP and AC Smart integration solution to manage multi sites 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.

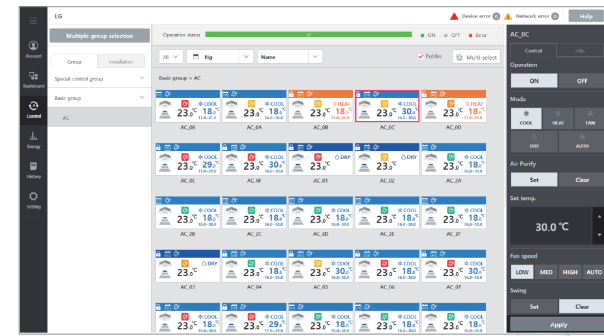


AC Manager 5

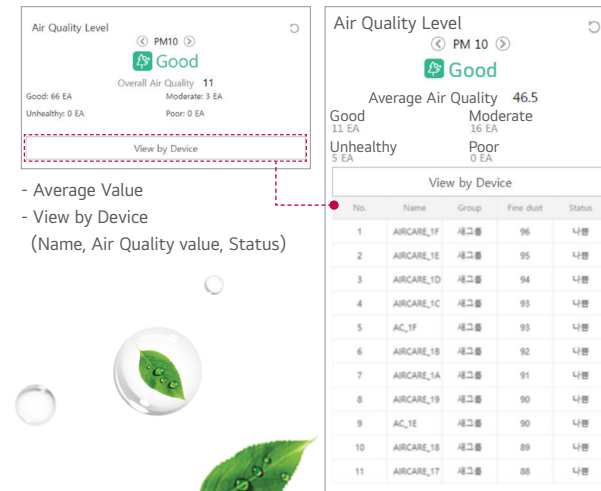
Smart Air Purify Solution

Total management of the air purification function creates a clean environment everyday.

Air Quality Multi Status view

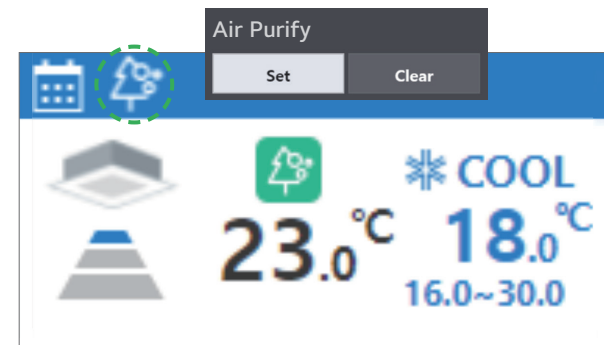


Air Quality Summary Widget



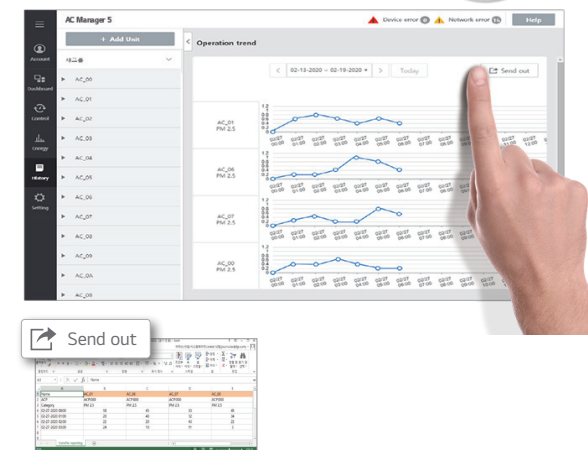
- Average Value
- View by Device (Name, Air Quality value, Status)

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

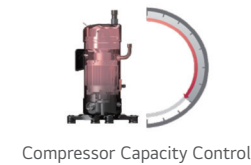
As an advanced central controller, AC Manager 5 offers a flexible interface for each user by assessing the device screen and automatically customizing the layout to provide the most optimized interface.



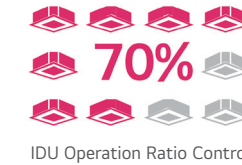
reddot award
User Interface Design

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.



Compressor Capacity Control



IDU Operation Ratio Control



IDU Operation Level

Peak Control

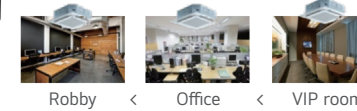
This function can reduce electricity use. There are two kinds of control logic: energy saving effect by indoor unit operation control rate, and load management effect by outdoor unit capacity control.

Operation ratio (IDUs) Control

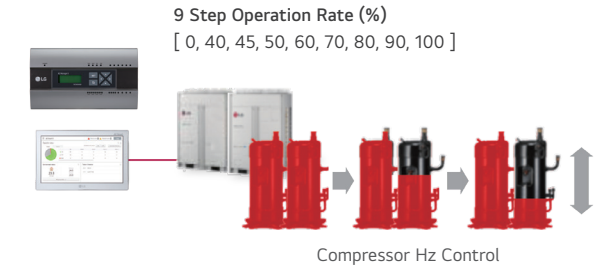


Indoor unit Priority Control

gradually stop depending on importance of room.



ODU Capacity Control

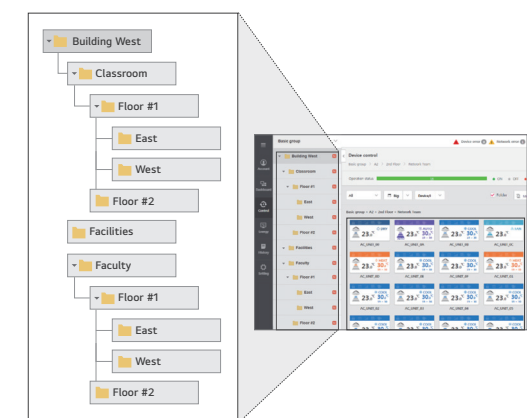


9 Step Operation Rate (%)
[0, 40, 45, 50, 60, 70, 80, 90, 100]

Compressor Hz Control

Multi Level Group Composition

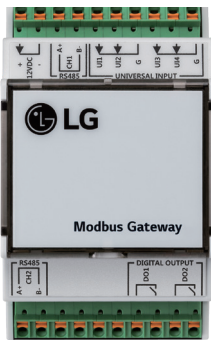
Users can create frequency or multi-level groups, making it easier to control and monitor the devices.



MODBUS RTU Gateway

PMBUSB00A

Providing MODBUS RTU connection between LG Air conditioners and BMS.



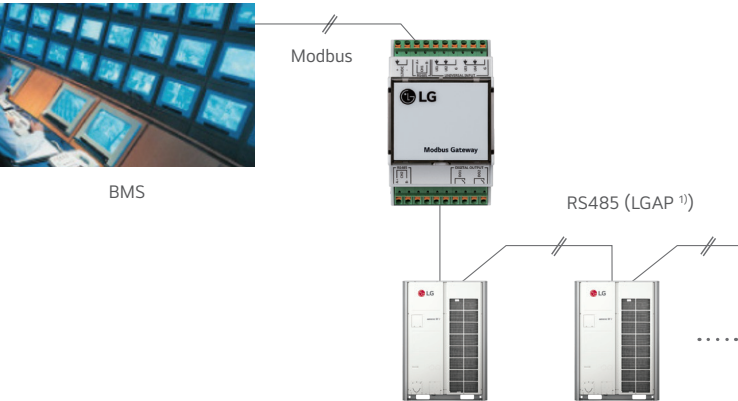
Features & Benefits

- 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

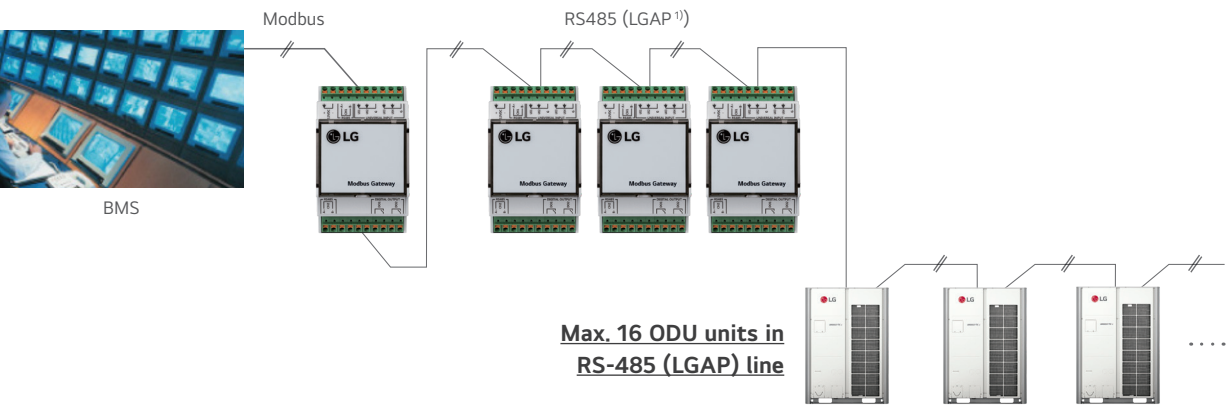
Single Module

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 ¹⁾ | Reserved | 0 : Normal / 1 : Alarm Release | |
| 4 | Lock Remote Controller | Lock Remote Controller | Lock Remote Controller | 0 : UnLock / 1 : Lock | |
| 5 | Lock Operate Mode | Lock Operate Mode ¹⁾ | Reserved | 0 : UnLock / 1 : Lock | |
| 6 | Lock Fan Speed | Lock Fan Speed ¹⁾ | Reserved | 0 : UnLock / 1 : Lock | |
| 7 | Lock Target Temp. | Lock Target Temp. ¹⁾ | Reserved | 0 : UnLock / 1 : Lock | |
| 8 | Lock IDU Address | Lock IDU Address ¹⁾ | Reserved | 0 : UnLock / 1 : Lock | |
| 9 | Reserved | Quick Ventilate | Reserved | 0 : Disable / 1 : Enable | |
| 10 | Reserved | Energy Save | Reserved | 0 : Disable / 1 : Enable | |

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

Discrete Register (0 x 02)

| NO. | DATA BIT | | | FUNCTION | REGISTER |
|-----|-----------------|----------------------------|------------------------------|---|--|
| | AIR CONDITIONER | 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 ¹⁾ | Hot Water Only ²⁾ | • 0 : Normal / 1 : Alarm Hydro Kit • 0 : Normal / 1 : Hot Water Only | |
| 4 | Reserved | Reserved | Target Temp. Select | 0 : Air / 1 : Water | |
| 5 | Reserved | Reserved | Error Division ²⁾ | 0 : CH type error / 1 : BC type error | |

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

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

Holding Register (0 x 03)

| NO. | DATA BIT | | | FUNCTION | REGISTER |
|-----|----------------------------|--|--------------------------------|---|--|
| | AIR CONDITIONER | 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 ²⁾ | 1 : Low, 2 : Mid, 3 : High, 4 : Auto | |
| 3 | Target Temp. | Target Temp. ¹⁾ | Target Temp. ²⁾ | 16.0 ~ 30.0 [°C] x 10 | |
| 4 | Target Temp. Limit (Upper) | Target Temp. Limit ¹⁾ (Upper) | Reserved | 16.0 ~ 30.0 [°C] x 10 | |
| 5 | Target Temp. Limit (Lower) | Target Temp. Limit ¹⁾ (Lower) | Reserved | 16.0 ~ 30.0 [°C] x 10 | |
| 6 | Reserved | Vent. Operate Mode | Reserved | 0 : HEX, 1 : Auto, 2 : Normal | |

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

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

Input Register (0 x 04)

| NO. | DATA BIT | | | FUNCTION | REGISTER |
|-----|-----------------|------------------------------|---------------------------|---|--|
| | AIR CONDITIONER | ERV / DX ERV | 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. ¹⁾ | Water Inlet Temp. | -99.0 ~ 99.0 [°C] x 10 | |
| 4 | Pipe Out Temp. | SA Temp. ¹⁾ | Water Outlet Temp. | -99.0 ~ 99.0 [°C] x 10 | |
| 5 | Reserved | Pipe In Temp. ¹⁾ | Sanitary Tank Temp. | -99.0 ~ 99.0 [°C] x 10 | |
| 6 | Reserved | Pipe Out Temp. ¹⁾ | Solar Temp. ²⁾ | -99.0 ~ 99.0 [°C] x 10 | |

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

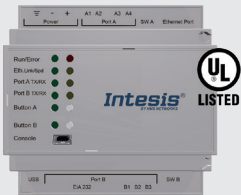
2) : This register value is applied 'AWHP' ONLY.

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

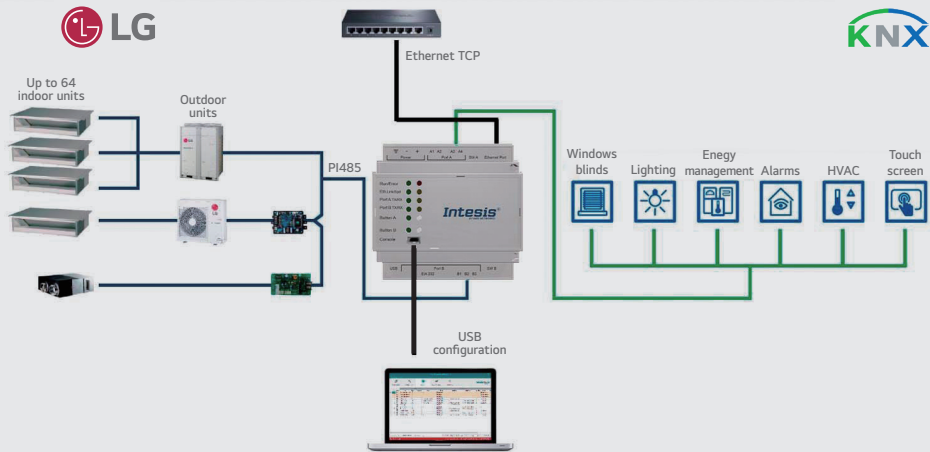
Easy to use tool for the configuration of Intesis gateway, in a fast and effective way.
It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.



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



Integration of LG VRF systems into KNX control systems

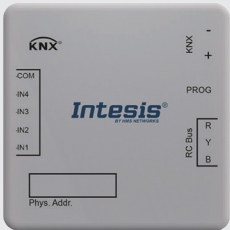
Direct download
of INTESIS MAPS
configuration software



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.

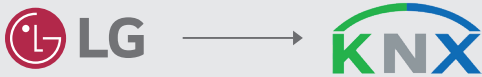
Key benefits

- Optimization cost for small or medium installations.
- Decentralized device control : one gateway connected to each indoor unit.
- Easy integration on KNX installations
- Intuitive configuration

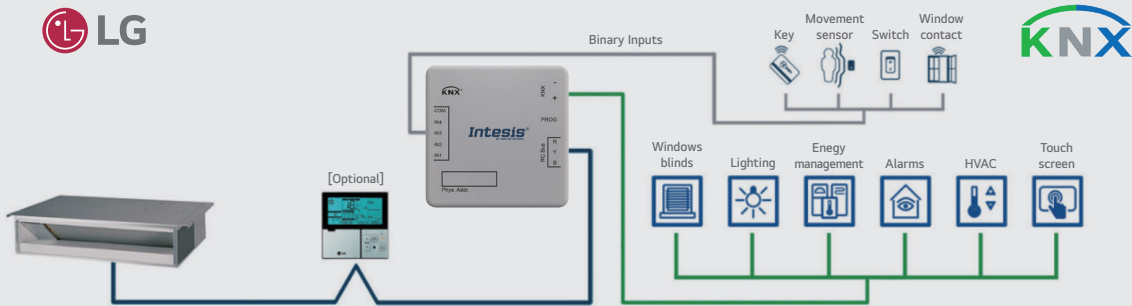
Key messages

- 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

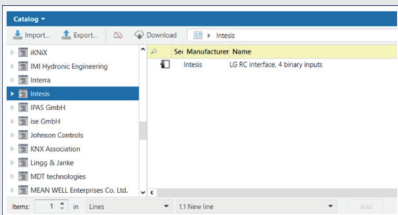


Installation Scene & LG Topology

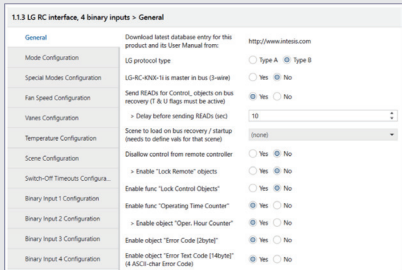


KNX Product

Database available directly on ETS5/6
under INTESIS manufacturer



Configuration by ETS Data Base



Web landing page
of the product

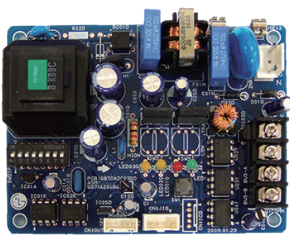


PI485

PI485 converts LG Air conditioner's protocol to the RS485 protocol for the central controller.

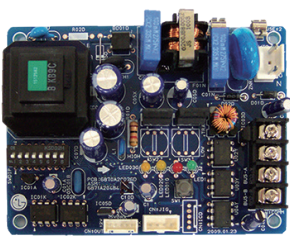
PMNFP14A1

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



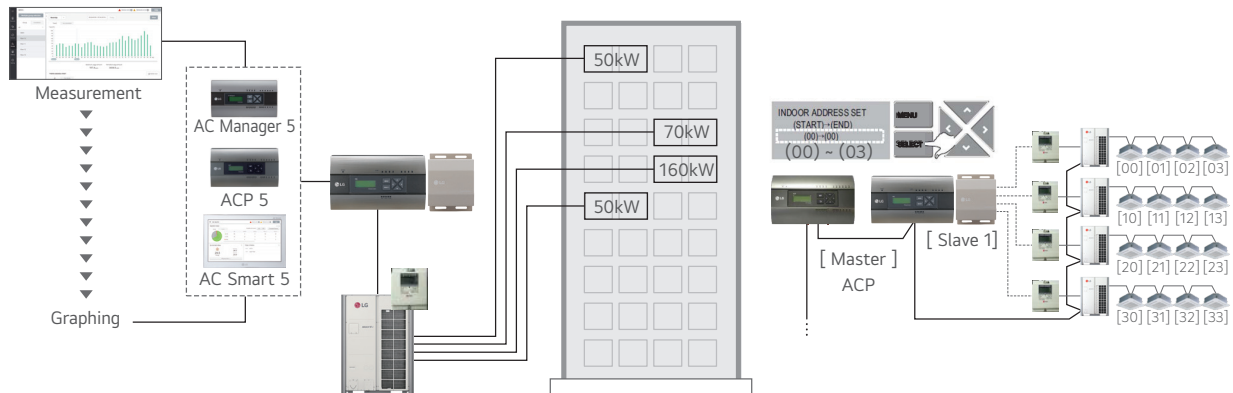
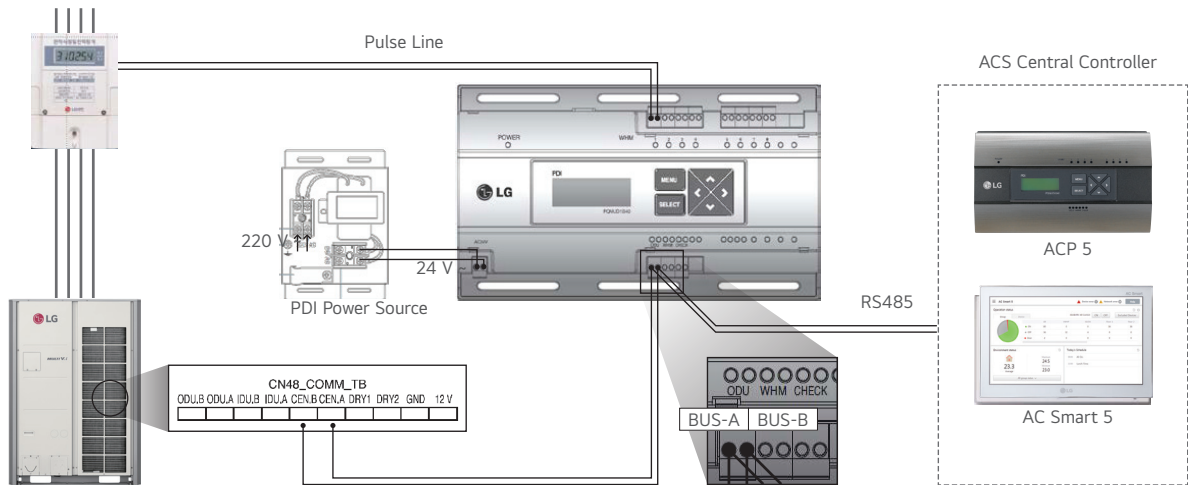
- Power : Connected with the Indoor Units
- **1 for Each Indoor Unit**
 - ERV

PSNFP14A0 (with case)



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





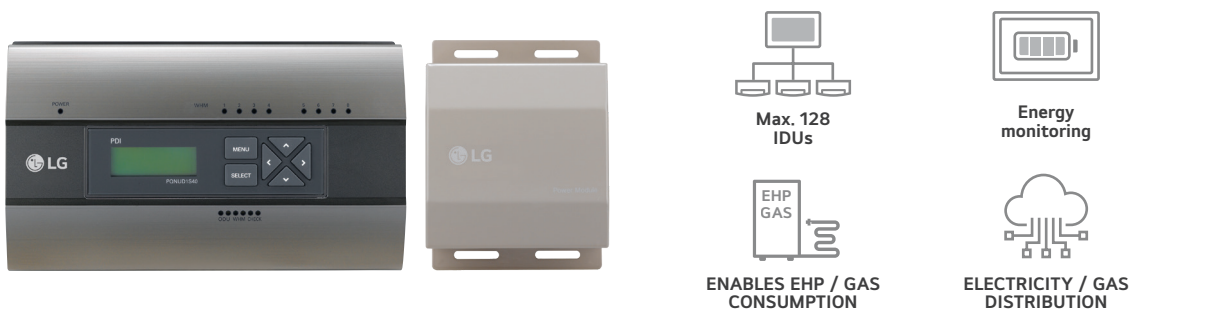
Note :

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

PDI (Power Distribution Indicator)

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

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



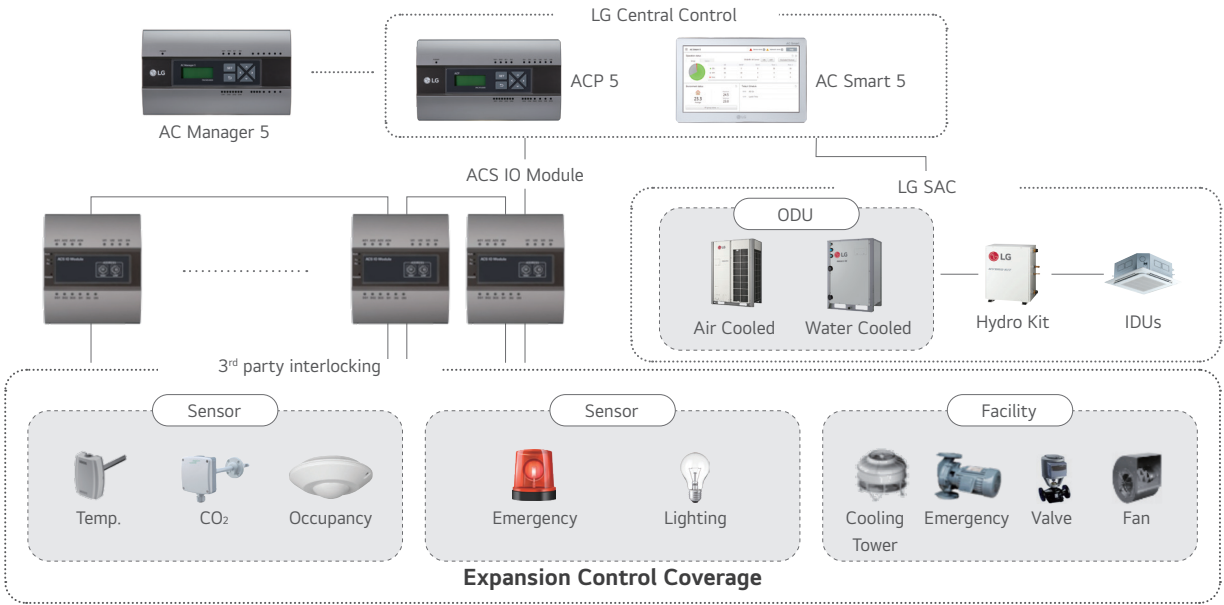
Features & Benefits

- 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

ACS IO Module

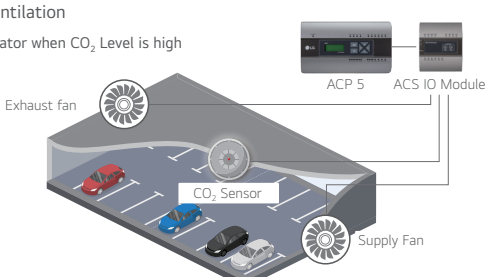


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output

Case. 1

Parking Lot Ventilation

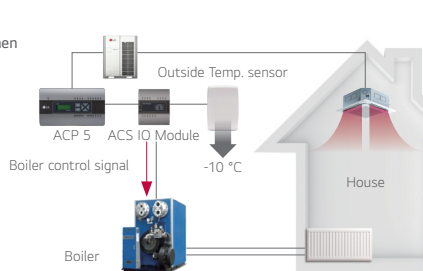
Turning on ventilator when CO₂ Level is high



Case. 1

Auxiliary Heater

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



PEXPMB000

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



Features & Benefits

- Interlocking with 3rd party equipment, LG Central controller can make operation scenario with 3rd party equipment by ACS IO Module.
- Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : AC 24V (60Hz / 500mA)

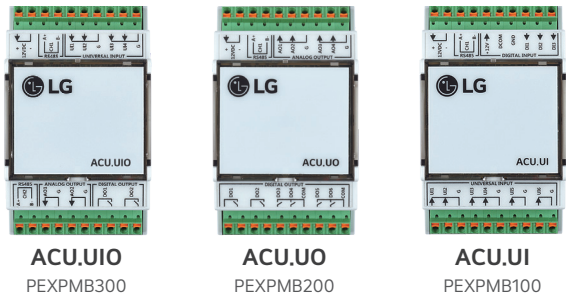
| MODEL NAME | | PEXPMB000 | |
|-------------------|-------------------------------|----------------------|-------------------|
| Linkable Products | | PACSSA000, PACPSA000 | |
| I / O | Communication | RS-485 | 1 ch |
| | Digital Input | | 3 ports |
| | Digital Output | | 3 ports |
| | Universal Input ¹⁾ | | 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 3rd party devices control and monitoring are needed.



Features & Benefits

- Interlocking with 3rd party equipment LG Central controller can make operation scenario with 3rd party equipment by ACU IO Module.
- Applicable devices are expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches ...)
- Power : 12VDC / 250mA (External Power)

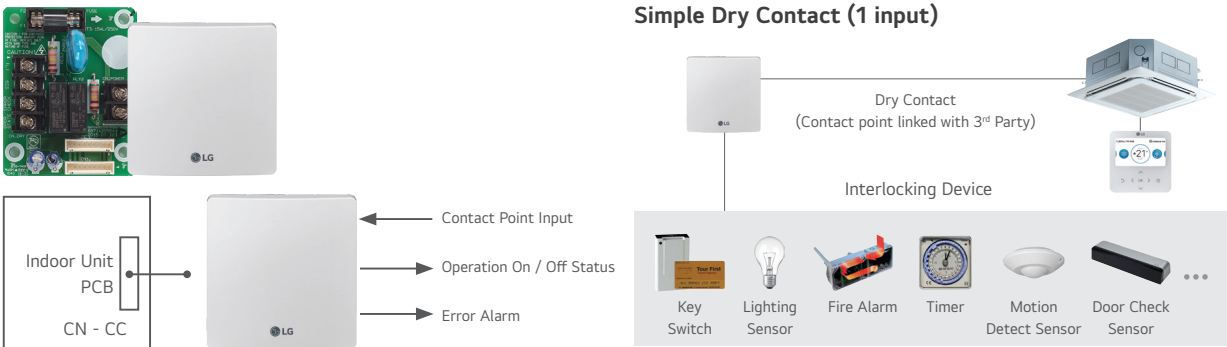
| MODULE NAME | PEXPMB300 | PEXPMB200 | PEXPMB100 |
|-------------------------------|----------------------|-----------|-----------|
| Linkable Products | PACSSA000, PACPSA000 | | |
| Communication RS-485 | 1 ch | 1 ch | 1 ch |
| Digital Input | - | - | 3 ports |
| Digital Output | 2 ports | 6 ports | - |
| Universal Input ¹⁾ | 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 |

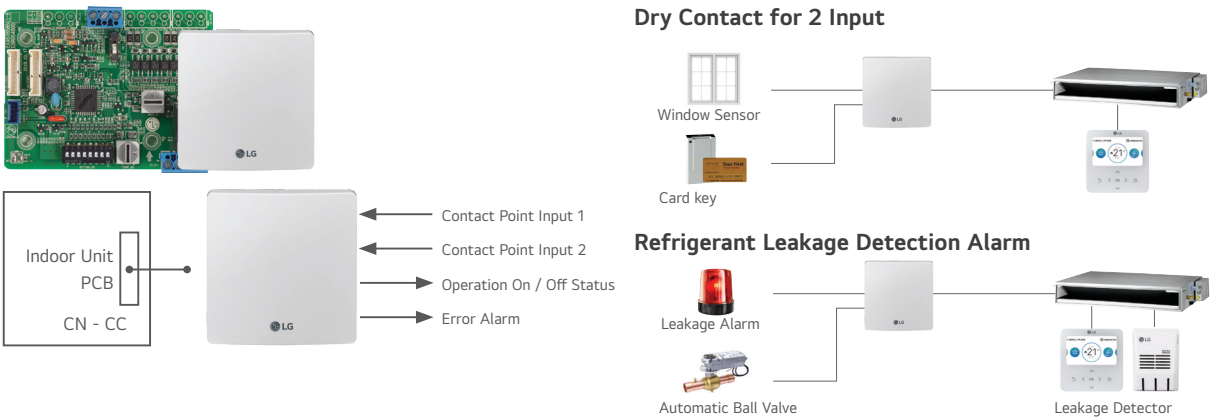
※ ○ : Applied, - : Not Applied
1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

DRY CONTACT

PDRYCB000



PDRYCB400

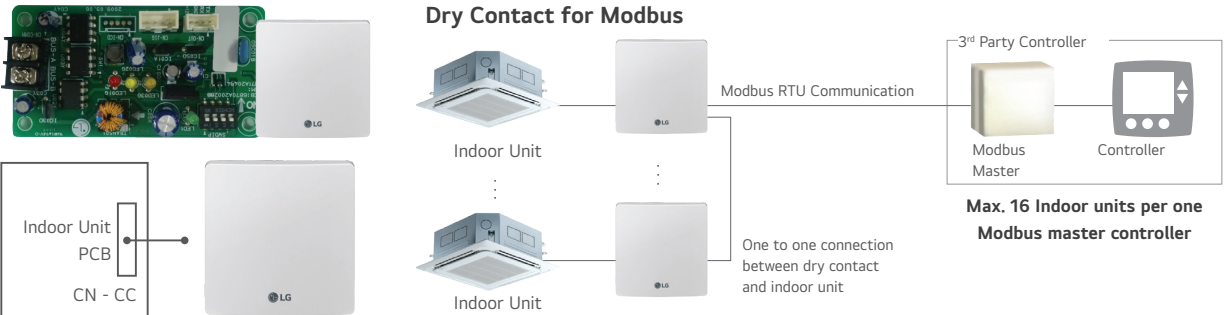


PDRYCB320



※ 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 | | |
| Control | IDU | On / Off | ○ | ○ | ○ |
| | | Operation Mode | - | ○ | ○ |
| | | Set Temp. | - | (Select & Fix) | ○ |
| | | Fan Speed | - | - | ○ |
| | | Thermo-Off | - | (Select & Fix) | - |
| | | Energy Saving | - | (Select & Fix) | - |
| | | Lock / Unlock | - | (Select & Fix) | - |
| | Heating | On / Off | ○ | - | ○ |
| | | DHW On / Off | - | - | ○ |
| | | Thermo-Off | - | - | ○ |
| Control | Heating | Operation Mode | - | - | ○ |
| | | Silent Mode | - | - | ○ |
| | | Emergency Mode | - | - | ○ |
| | ERV | On / Off | ○ | - | ○ |
| | | Operation Mode | - | - | ○ |
| Output | ERV | Aircon Mode | - | - | ○ |
| | | Additional Mode | - | - | ○ |
| | | Fan Speed | - | - | ○ |
| | | Operation Status | ○ | ○ | ○ |
| | | Error | ○ | ○ | ○ |
| Output | | Room Temp. | - | - | ○ |

※ ○ : 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.

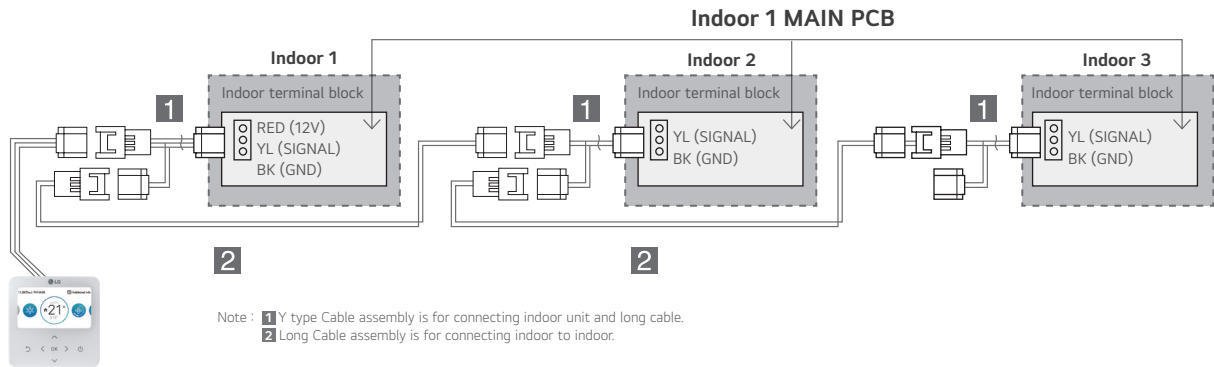
Group Control Wire

PZCWRCG3



| MODEL NAME | PZCWRCG3 |
|----------------|--------------|
| 1 Y-type Cable | 0.25m Length |
| 2 Long Cable | 9.6m Length |

Installation Scene



Remote Temperature Sensor

PQRSTA0

Sensor for detecting a room's temperature.

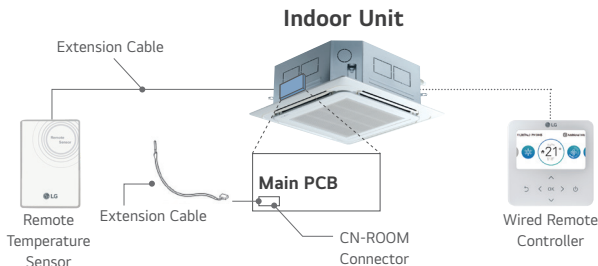


Features & Benefits

- 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

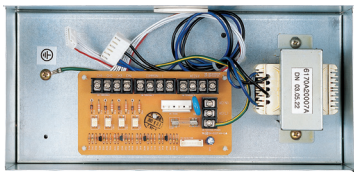
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



Zone Controller

ABZCA

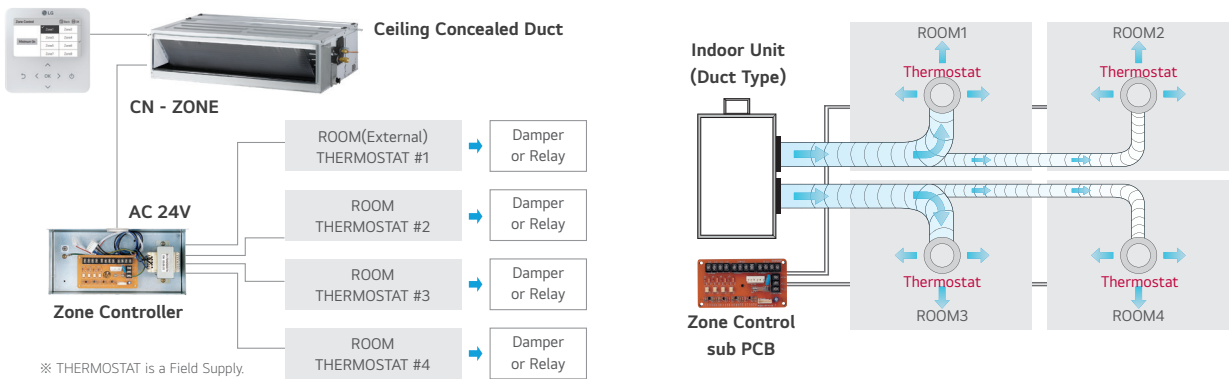
Controls air conditioning in up to 4 zones by external thermostat.



Features & Benefits

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

Installation Scene



IO Module

PVDSMN000

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



Features & Benefits

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

Description

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

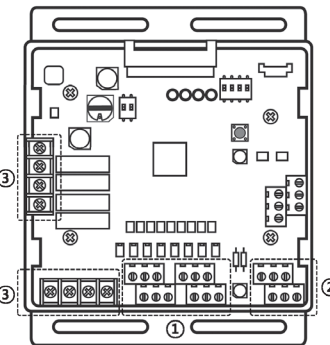
Models Applied

- 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

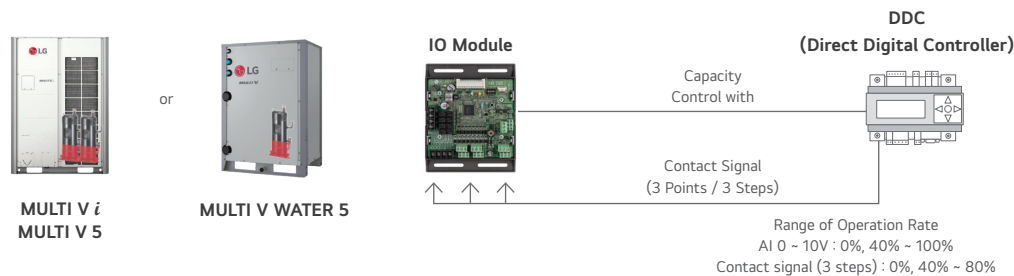
- 1) Digital Input Part (DI : Dry Contact Input)
 - Demand control by contact input (3 Step)
 - Low Noise Operation input
 - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
 - Open : External 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

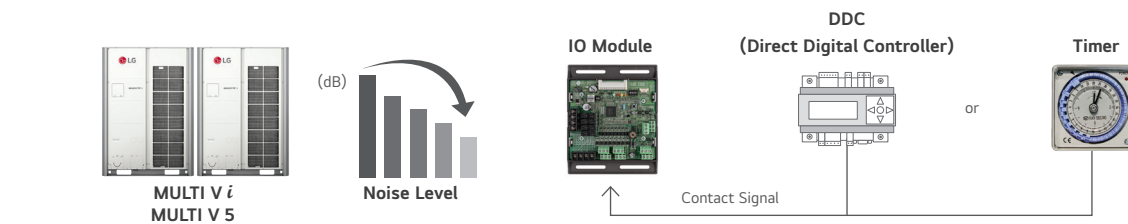
ODU Capacity Control

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

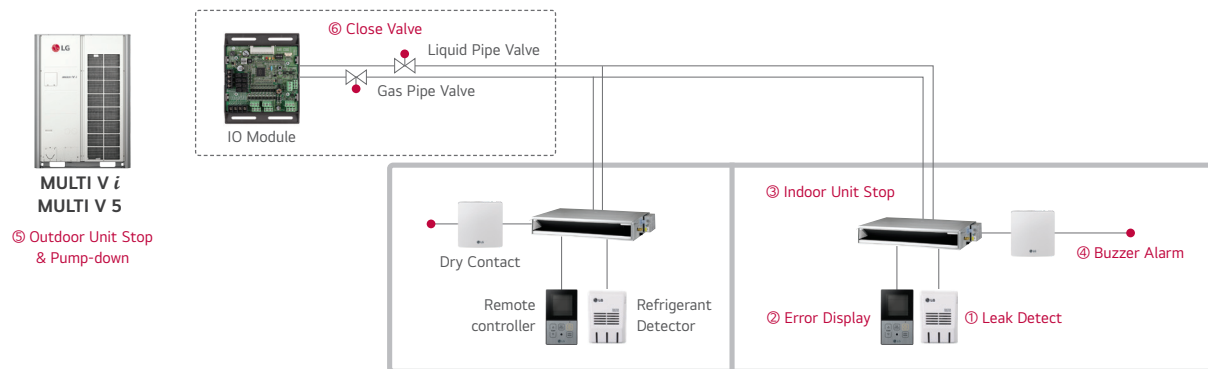
To reduce noise level, control outdoor unit's fan speed by dry contact input.



※ 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.

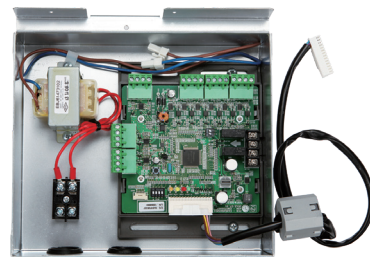


※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence which written in red, 1~6)

Variable Water Flow Control Kit

PWFCKN000 (MULTI V WATER 5)

Accessory for controlling the water flow.



Features

Function

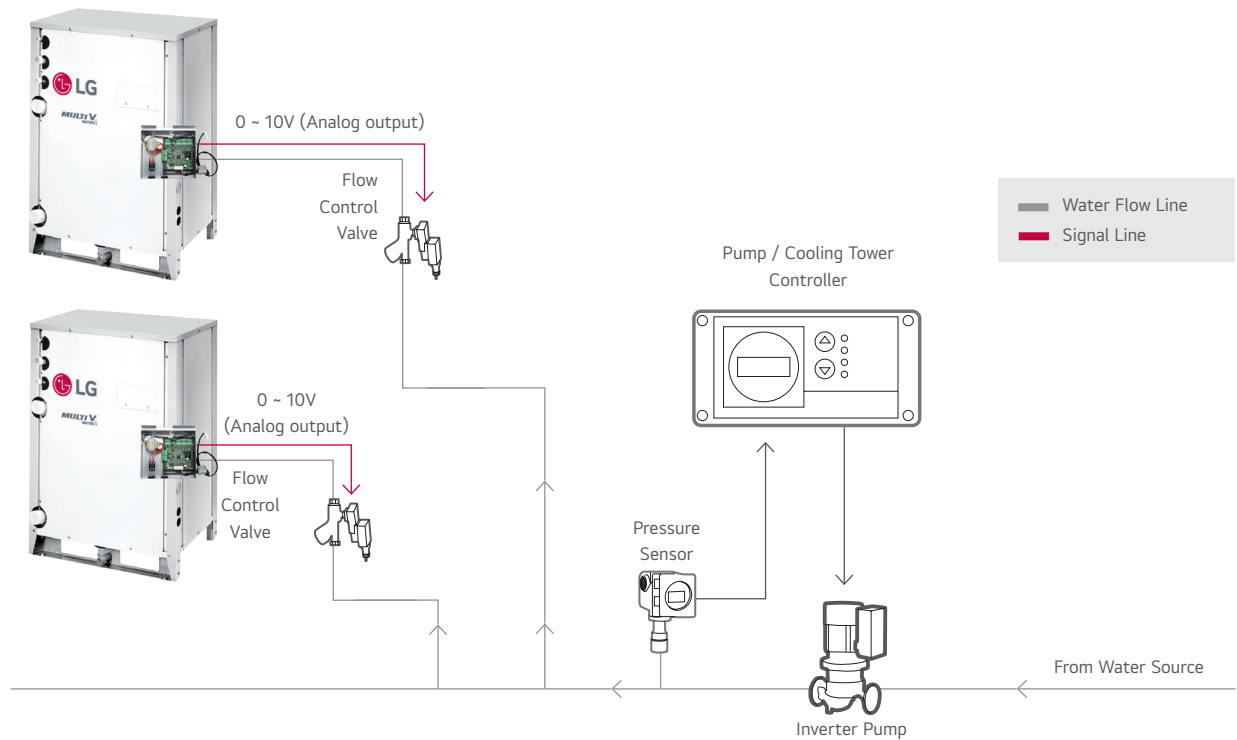
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

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

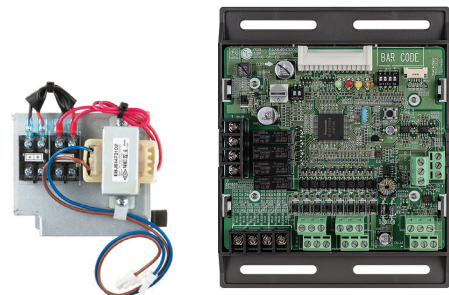
- Flow Control Valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube.
(The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
- Pressure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

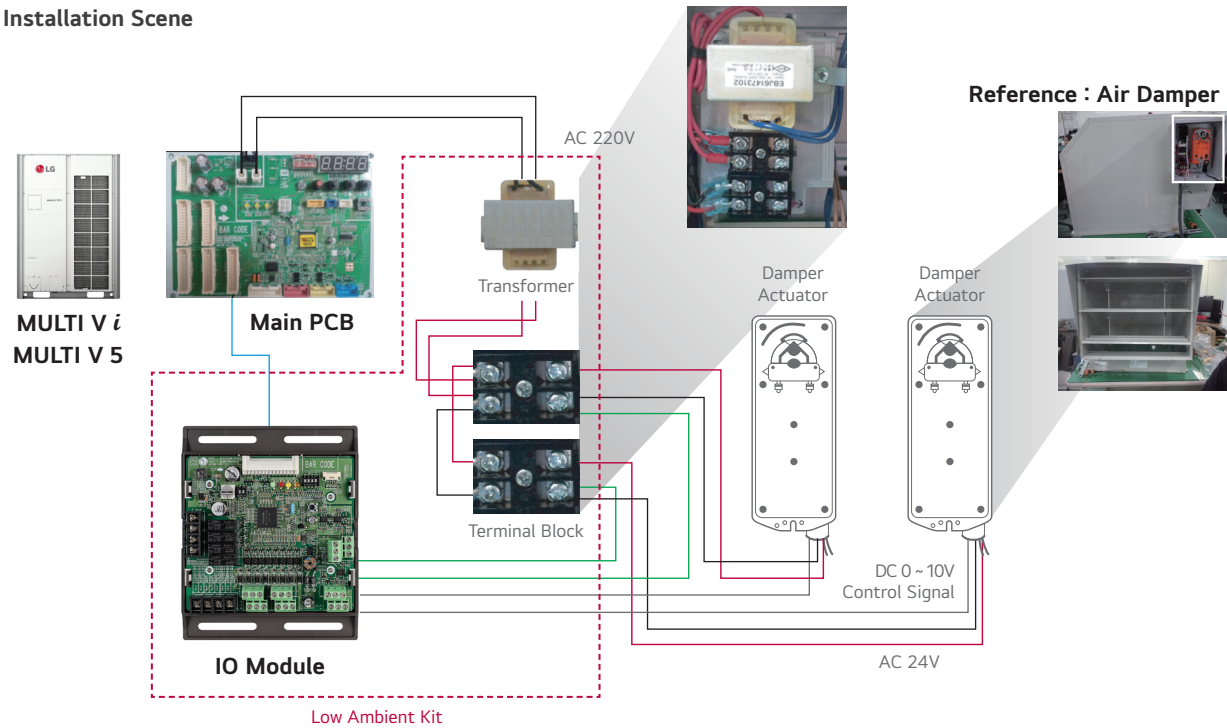
Description

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

Note : Cool / Heat Selector is not compatible for Multi V S R32.

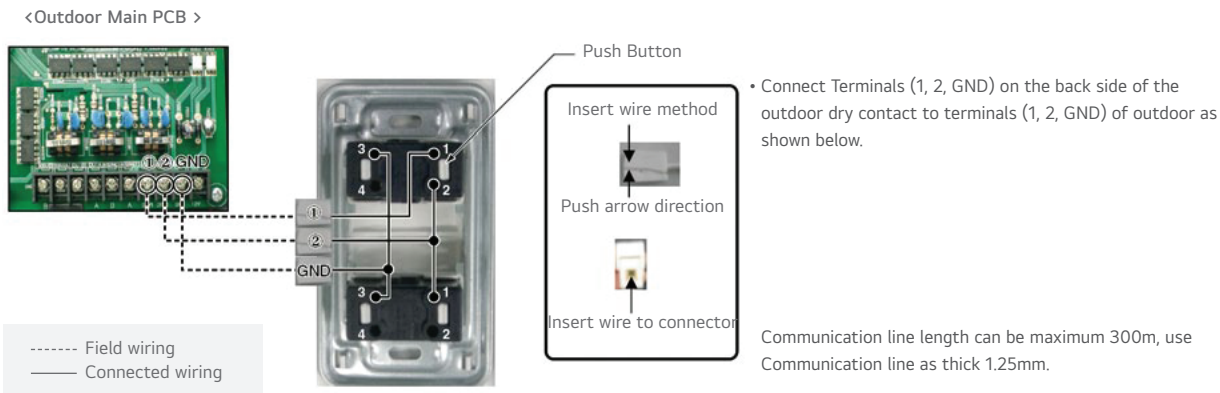
Fan Mode

Cooling only

Mode

Heating only

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

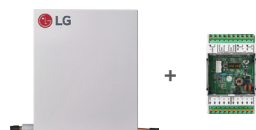
CONTROL KIT



PRLK048A0
PRLK096A0

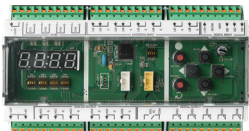


PRLK396A0

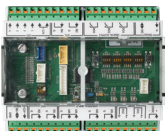


PRLK594A0

CONTROLLER MODULE



PAHCMM000



PAHCMC000

Specification

Control Application Kit

| TYPE | MODEL | DIMENSIONS (MM) | | | POWER SUPPLY | IP RATING | DESCRIPTION |
|-------------------|-----------|-----------------|-----|-----|-----------------------------|-----------|---|
| | | W | H | D | | | |
| Communication Kit | PAHCMR000 | 300 | 300 | 155 | 1Ø, 220 ~ 240 V, 50 / 60 Hz | IP66 | Return / Room air temperature control by DDC or LG individual / centralized controller. |
| | PAHCMS000 | 380 | 300 | 155 | 1Ø, 220 ~ 240 V, 50 / 60 Hz | IP66 | Discharge air / Supply air temperature control by DDC or LG individual / centralized controller |
| Controller Module | PAHCMM000 | 162 | 90 | 61 | DC 12V | IP20 | Main Controller module |
| | PAHCMC000 | 108 | 90 | 61 | DC 12V | IP20 | Communication Controller module |
| Control Kit | PAHCNM000 | 500 | 500 | 210 | 1Ø, 220 ~ 240 V, 50 / 60 Hz | | Various AHU control functions with multiple DX coils (Maximum connectable ODU is 3 units) |

Expansion Application Kit

| TYPE | MODEL | DIMENSIONS (MM) | | | PIPE DIAMETER (MM) | CAPACITY INDEX RANGE |
|---------|-----------|-----------------|-------|-----|--------------------|----------------------|
| | | W | H | D | LIQUID | |
| EEV Kit | PRLK048A0 | 217 | 404 | 83 | 12.7 | 3.6 ~ 28 kW |
| | PRLK096A0 | 217 | 404 | 83 | 12.7 | 28.1 ~ 56 kW |
| | PRLK396A0 | 349.5 | 345.5 | 180 | 19.05 | 56.1 ~ 112 kW |
| | PRLK594A0 | 409.5 | 345.5 | 180 | 19.05 | 112.1 ~ 168 kW |

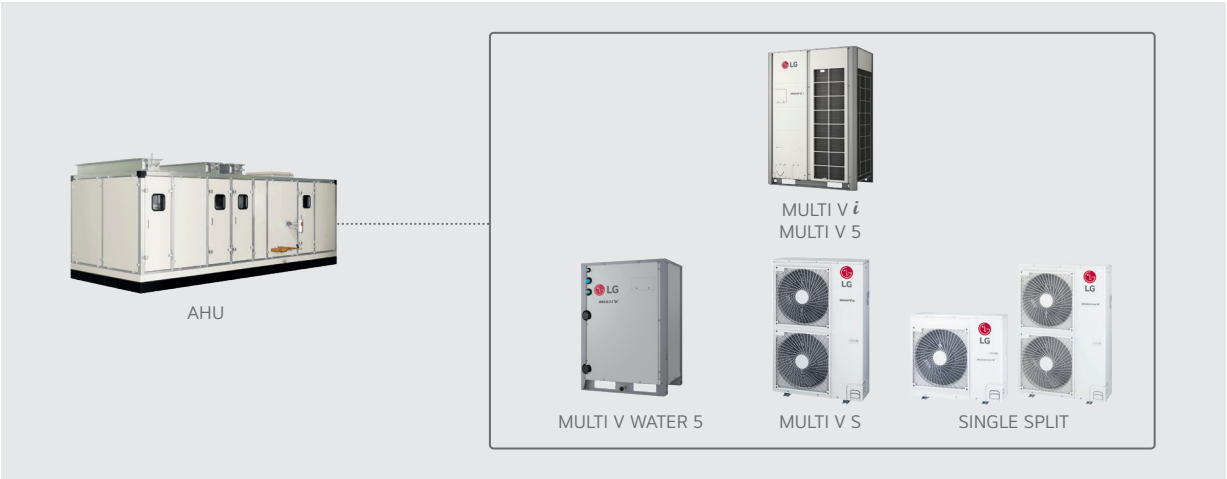
Communication Kit

High Energy Efficiency

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

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

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



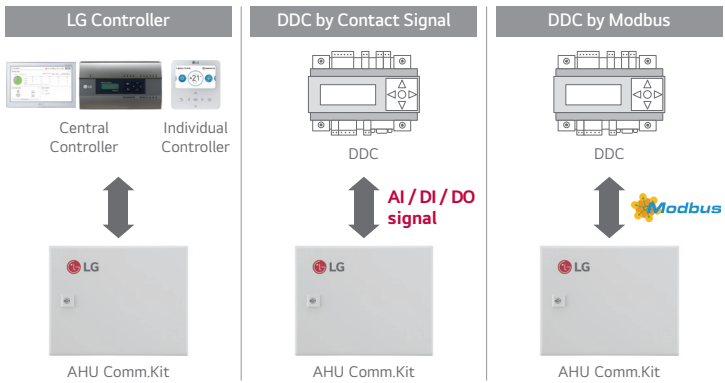
Diverse Options for Control

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

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

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

1) DDC : Direct Digital Controller



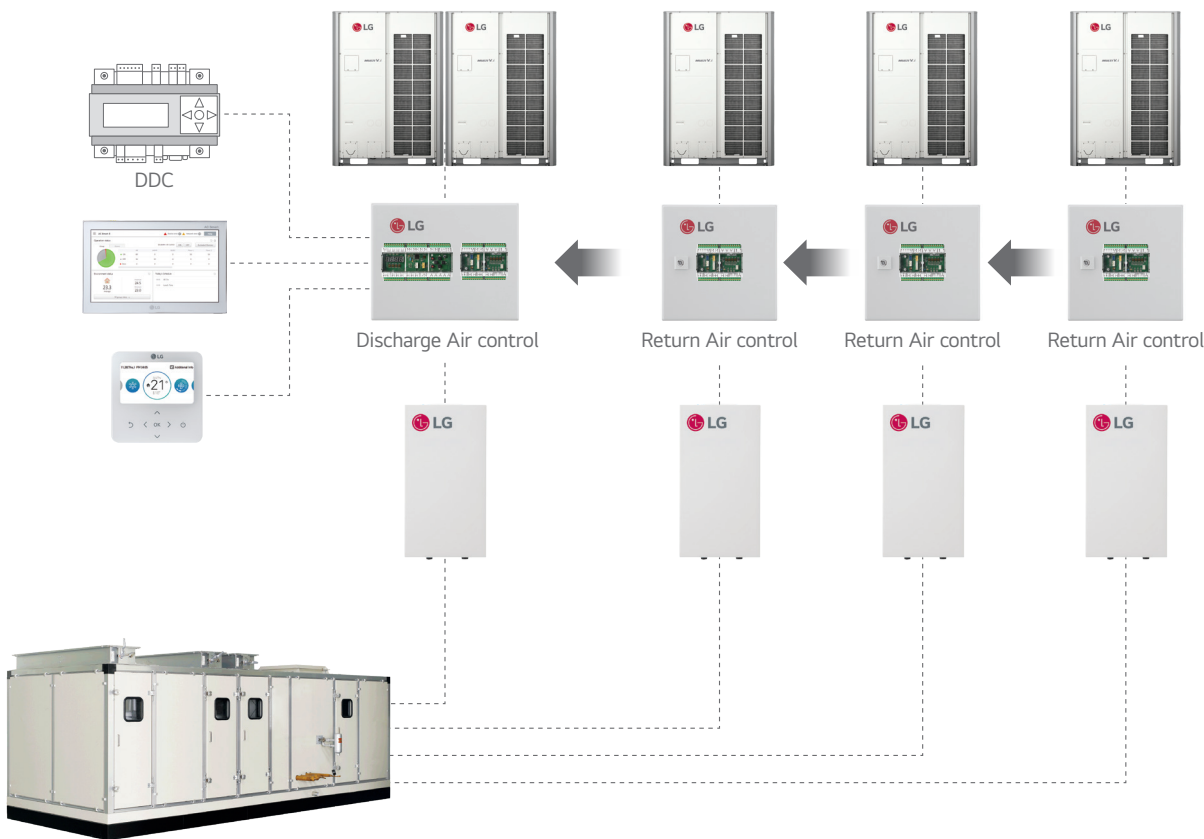
AHU Kit

Communication Kit

Expandable System Design

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

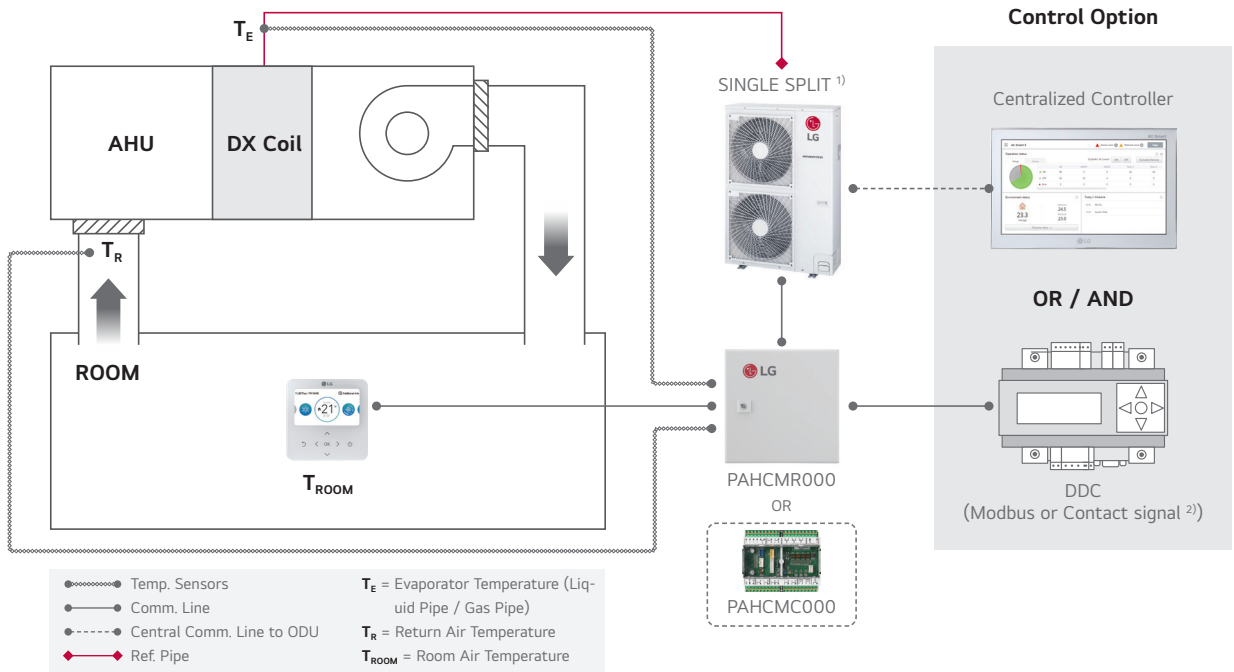
- Multiple module combination for large capacity AHU



Communication Kit & Controller Module

Single Split Application

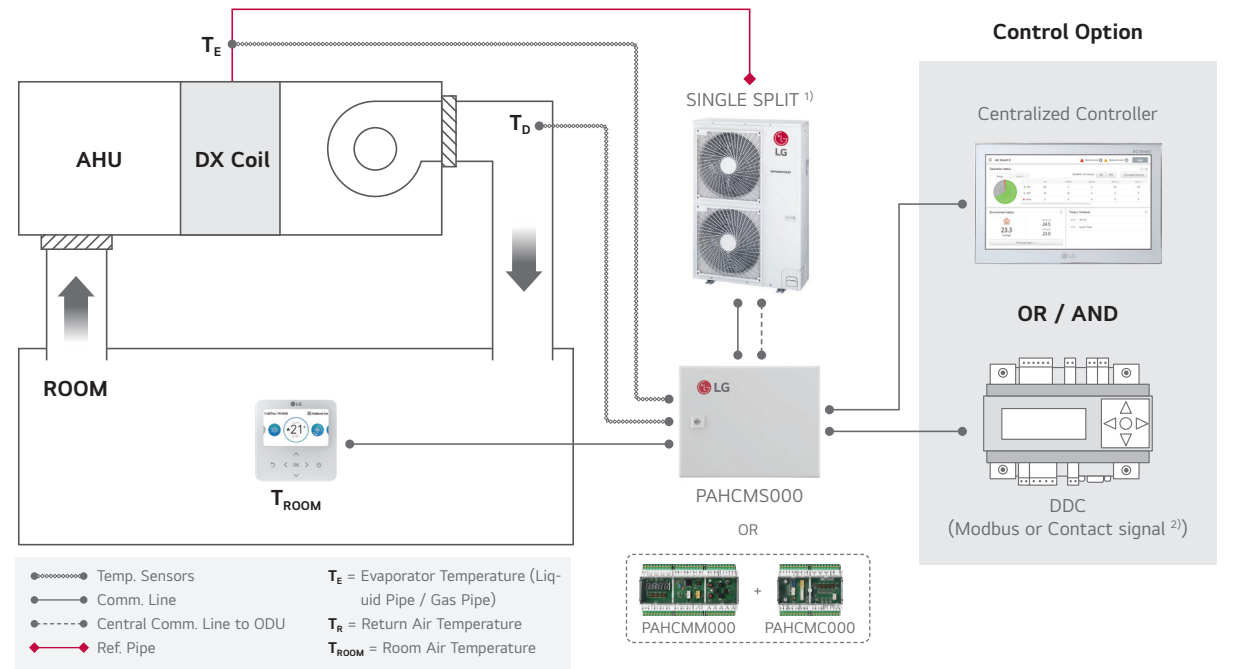
Single Split + Return / Room Air Temperature Control



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

Single Split Application

Single Split + Discharge Air Temperature Control



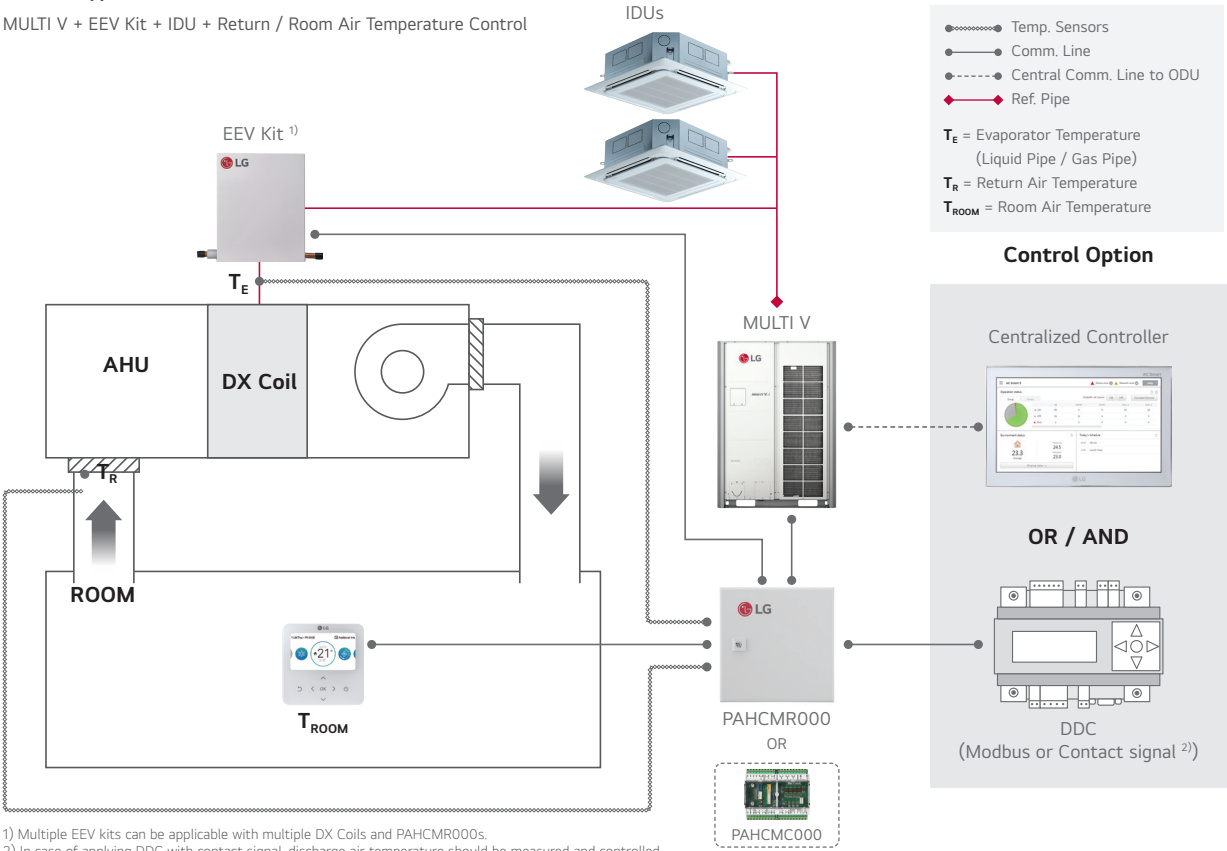
- 1) PI485 (PMNFP14A1) is required for centralized controller.
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
 Note : For more detail, please refer to the PDB.

AHU Kit

Communication Kit & Controller Module

MULTI V Application

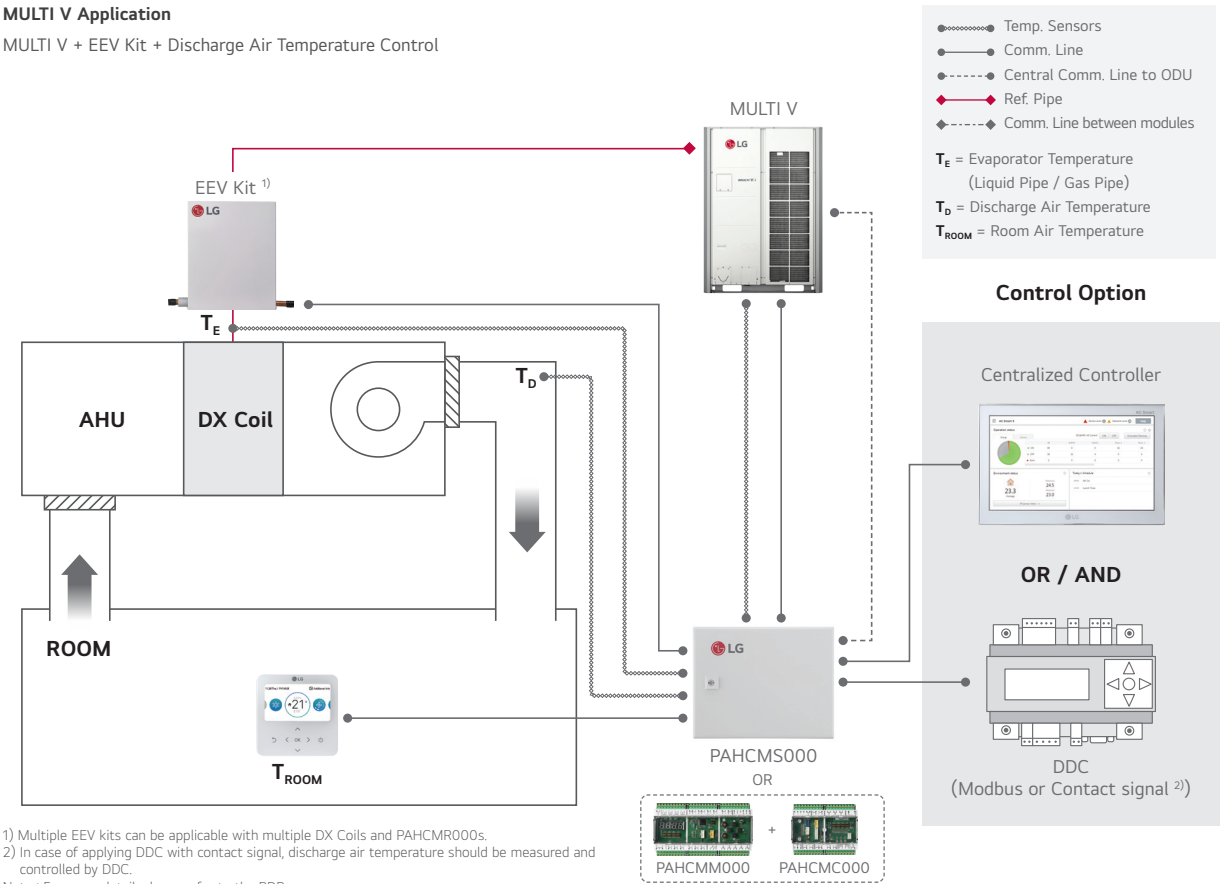
MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control



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

MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control



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

Communication Kit Function

Communication with DDC via Contact Signal

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

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

Communication with DDC via Modbus protocol

| FUNCTION LIST | | PAHCMR000 (PAHCMC000) | PAHCMS000 (PAHCMM000 + PAHCMC000) | NOTE |
|-----------------------|---|----------------------------|--------------------------------------|--|
| Control ¹⁾ | Operation On / Off | On / Off | On / Off | |
| | Operation Mode | Cooling / Heating / Fan | Cooling / Heating / Fan | |
| | Return (Room) Air Temperature | 16 ~ 30 °C | - | |
| | Discharge Air Temperature ²⁾ | - | ○ | Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C Standard III ⁴⁾ : 12 ~ 50 °C |
| | Fan Speed ³⁾ | High / Middle / Low | - | |
| | Forced Thermal On / Off | - | - | |
| | ODU Capacity Control ²⁾ | - | 10 ~ 100% | Dip SW1-2 Discharge Temp. Control Type should be set 'On' |
| Monitor | 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 | |
| Monitor | Error Alarm | Error / Normal, Error code | Error / Normal, Error code | |
| | Compressor On / Off | On / Off | On / Off | |

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

AHU Kit











Communication Kit Function

With LG Control System (Individual & Centralized Controller)

| FUNCTION LIST | | PAHCMR000 (PAHCMC000) | PAHCMS000 (PAHCMM000 + PAHCMC000) | NOTE |
|-----------------------|---|--------------------------|--------------------------------------|---|
| Control ¹⁾ | Operation On / Off | On / Off | On / Off | - |
| | Operation Mode | Cooling / Heating / Fan | Cooling / Heating / Fan | Available operation mode can vary depending on the settings of Communication Kit |
| | Return (Room) Air Temperature ²⁾ | 16 ~ 30 °C | - | - |
| | Discharge Air Temperature ²⁾ | - | ○ | Standard II : 16 ~ 30 °C Standard III ⁴⁾ : 12 ~ 50 °C Central Controllers : 12 ~ 50 °C |
| | Fan Speed ³⁾ | High / Mid / Low | High / Mid / Low | To control the AHU fan, dip switch 1-3 'DO type' should be set 'On (Fan Speed)' (PAHCMR000) |
| Monitor | Operation | On / Off | On / Off | - |
| | Operation Mode | Cooling / Heating / Fan | Cooling / Heating / Fan | - |
| | Return (Room) Air Temperature | ○ | - | - |
| | Discharge Air Temperature | | ○ | Standard II : 11 ~ 39.5 °C Standard III ⁴⁾ : 0 ~ 100.0 °C Central : -50.0 ~ 100.0 °C |
| | Fan Speed | High / Middle / Low | High / Middle / Low | - |
| | Defrost Operation | On / Off | On / Off | Only with Individual Controller |
| | Error Alarm | Error Code | Error Code | Error code will be displayed on the screen |
| | Compressor On / Off | On / Off | On / Off | Only with Individual Controller |

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

Compatibility with LG HVAC Controllers

| CONTROLLER | INDIVIDUAL CONTROLLER | | | | CENTRALIZED CONTROLLER | | | | | PDI |
|------------|---|---|---|---|---|---|--|---|---|---|
| | DELUXE | PREMIUM | STANDARD III | STANDARD II | AC EZ | AC EZ TOUCH | AC SMART 5 | ACP 5 | AC MANAGER 5 ¹⁾ | PREMIUM STANDARD |
| |  |  |  |  |  |  |  |  |  |  |
| Model no. | PREMTA201 | PREMTA000 PREMTA000A PREMTA000B | PREMTB101 PREMTBB11 | PREMTB001 | PQCSZ250S0 | PACEZA000 | PACSSA000 | PACP5A000 | PACM5A000 | 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) 1) | UUB1 (5.0 ~ 8.0 kW) 1) | UUC1 (7.1 ~ 10.0 kW) 1) | UUD1 / UUD3 (10.0 ~ 15.0 kW) ¹⁾ |
|--|--------------------------------------|---------------------------|---------------------------|----------------------------|---|
| Communication Kit (Controller Module) | PAHCMR000 (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>i</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 changed according to system design condition.

AHU Kit

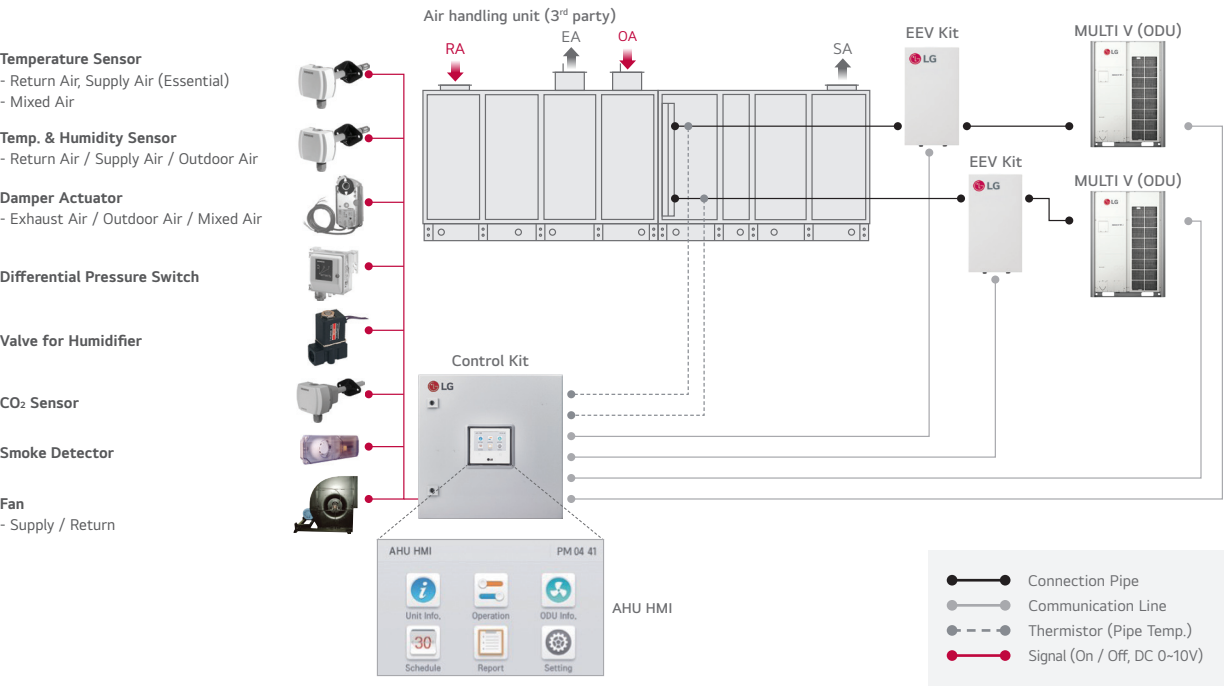
Control Kit

Field Supplied Item

| LIST | REQUIRED SPECIFICATION | APPLY LOCATION |
|-------------------------------------|---|--|
| Temperature / Humidity Sensor | - Power : AC 24 V - 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 ₂ Sensor | - Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 2,000 ppm | Return air duct |
| Smoke Detector | - Power : AC 24 V - Type : Contact | Return air duct |

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

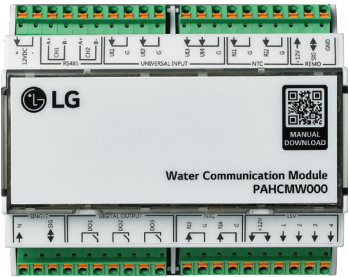
Field Supplied Item



Water Communication Module

PAHCMW000

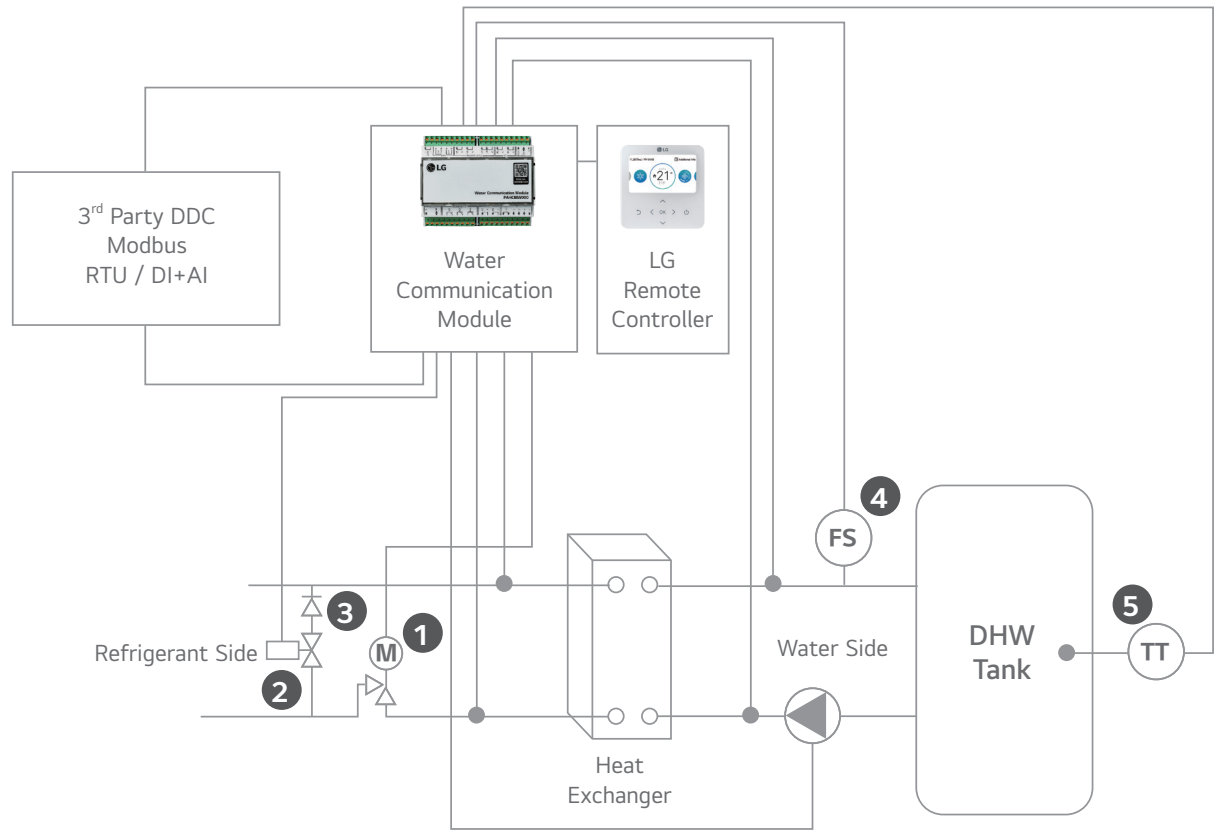
This module is intended to connect 3rd party plate heat exchangers to LG outdoor units with the ability to control water temperature from a 3rd party DDC or LG remote controller.



Overview

Interlocking with 3rd 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



• 3rd 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 3rd parties can make various solutions with LG MULTI V outdoor unit.

Interlocking with 3rd 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 3rd 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

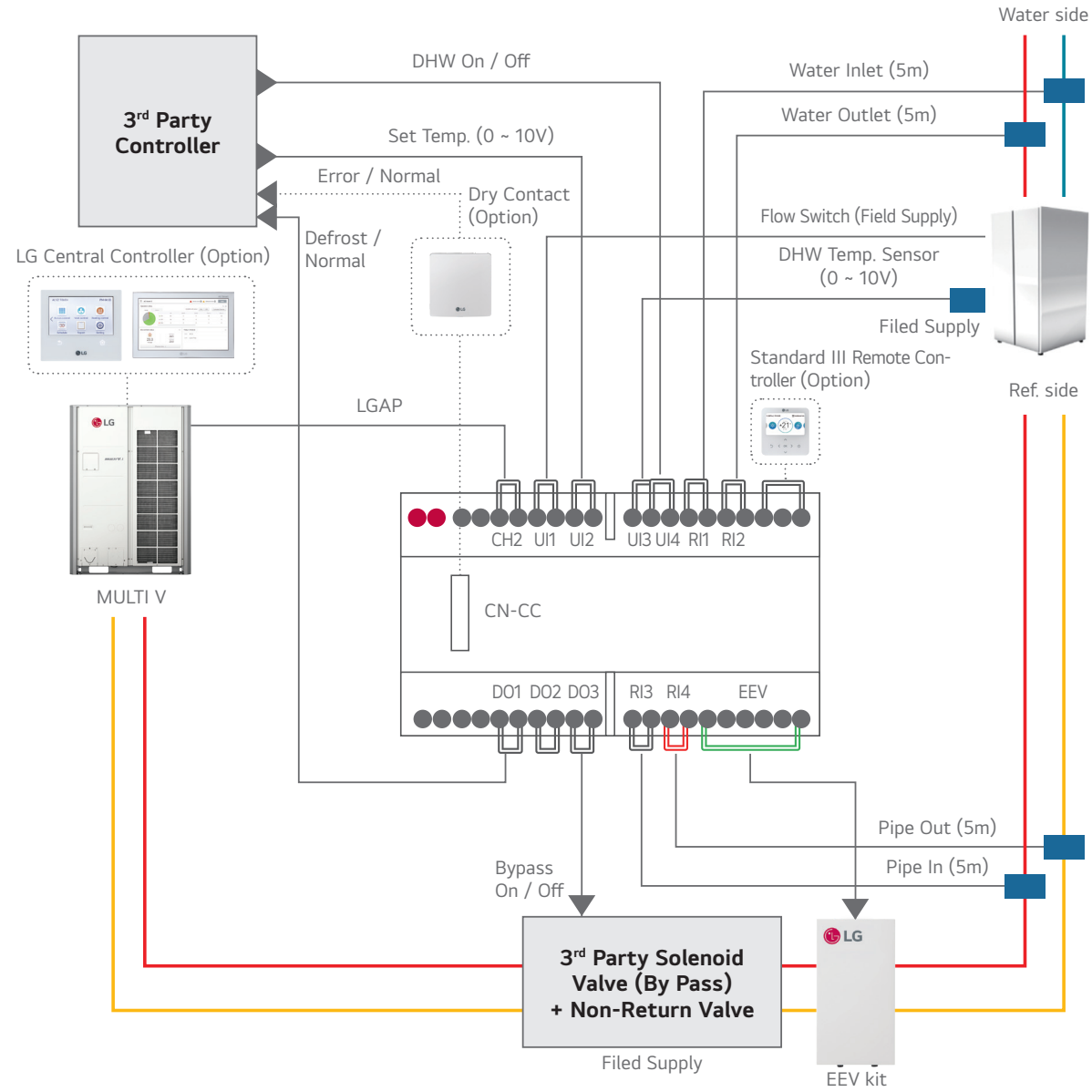
- The nominal flow and cut of flow can be calculated using the values below.

| 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

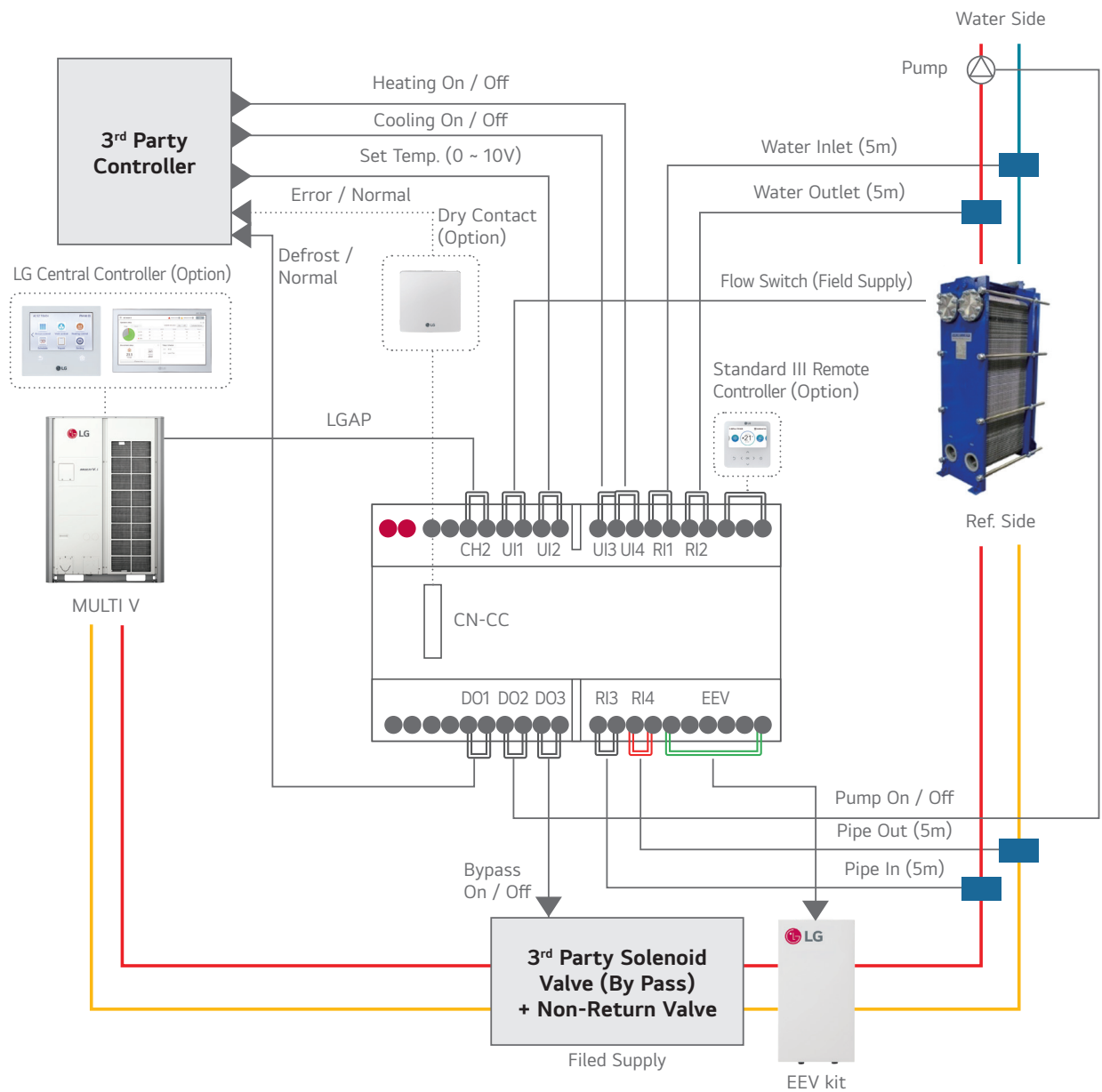
Contact signal + DHW Only Setting



Water Communication Module

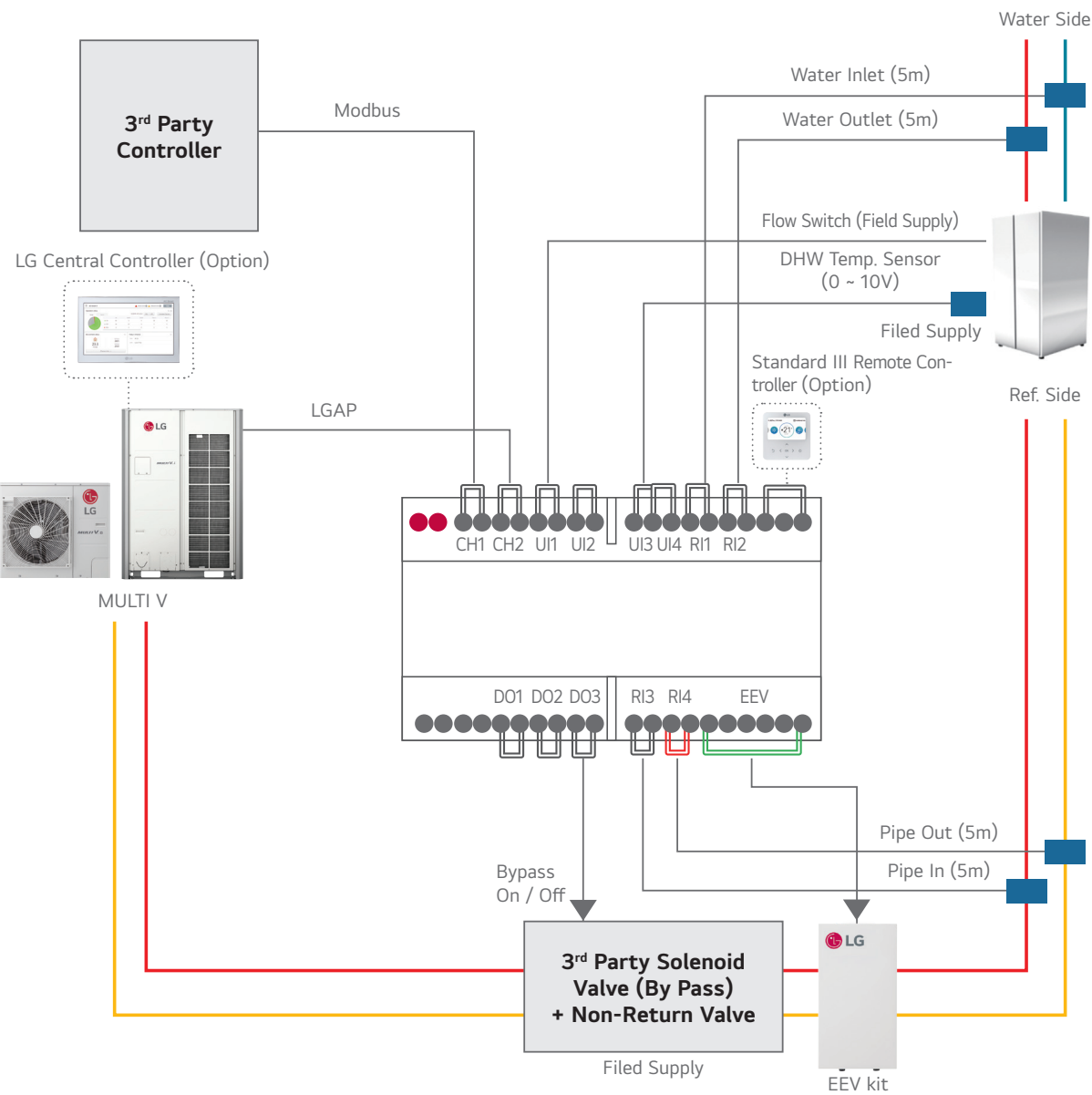
Installation Scene with Contact Connection

Contact signal + Heating / Cooling Setting



Installation Scene with Modbus / LG Control (Optional) Connection

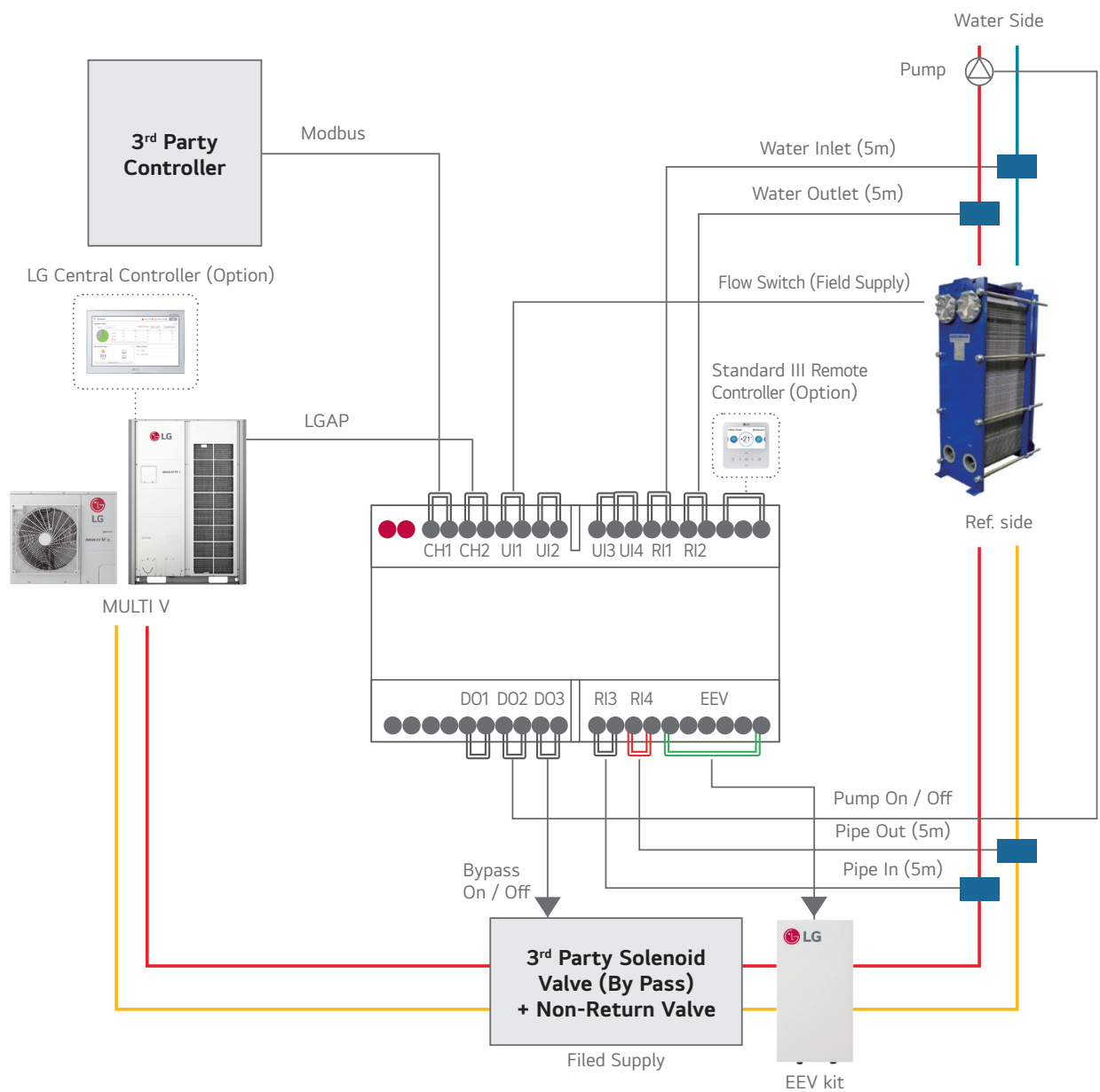
Modbus + DHW Only Setting



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

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 |
|  |  |  |  |  |
| PDRYCB400 2 contact point | PDRYCB500 / PDRYCB510 (w/o case) | PDRYCB320 8 contact point | PLDRNV1S R32 Refrigerant leak detector • 5,000ppm PRLDNV50 Refrigerant leak detector • 6,000ppm PREMTB101 Wired remote controller • 4.3 inch color LCD • Touch button | PAC5SA000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) |
| Input <ul style="list-style-type: none">• Operation On / Off Output <ul style="list-style-type: none">• Operation On / Off status• Error alarm | Function <ul style="list-style-type: none">• Operation• Indoor temperature• Error alarm• Set run mode• Set temperature• Set fan speed | Input <ul style="list-style-type: none">• Universal Input• Operation On / Off• Thermo On / Off• Operation mode (Fan / Heat / Cool)• Fan speed (Low / Middle / High) Output <ul style="list-style-type: none">• Operation On / Off status• Error alarm | | |

Shopping Mall Control Solution



Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alarms

Maintenance Office

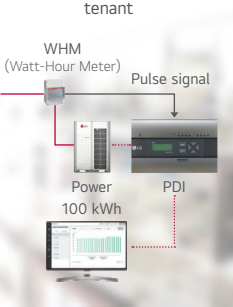
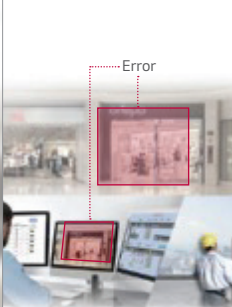
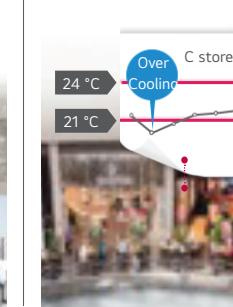
Reduces energy by checking operational trends

Atrium

Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

Design Proposal

| RETAIL | MAINTENANCE OFFICE | ATRIUM |
|---|---|---|
| Proportionally distribute and manage power consumption by the tenant | Fast problem detection and alarms | Reduces energy by checking operational trends |
|  |  |  |
| PPWRDB000 PDI Standard (2 ports) • Max. 128 IDU | PAC5SA000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) | PAHCMR000 AHU Comm.Kit • Return air PAHCMS000 AHU Comm.Kit • Discharge air |
| PQNUD1S40 PDI Premium (8 ports) • Max. 128 IDU | PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) | PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) |

Hospital Control Solution



Hospital Ward
Proper airflow management for patients




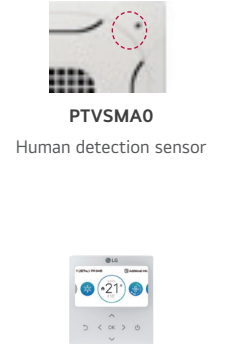
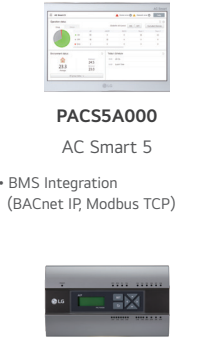
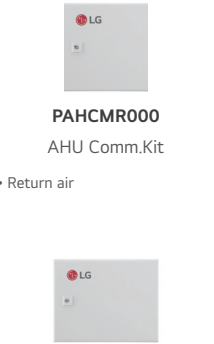

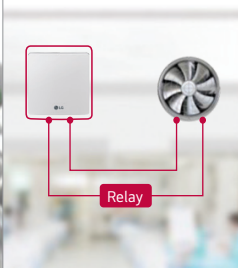
Monitor the comfort level for each hospital ward

Control fan speed and air volume

Service Zone
Energy savings based on flexible scheduling

Lobby
Centralized management of AHU for large spaces

Design Proposal

| HOSPITAL WARD | SERVICE ZONE | LOBBY |
|---|---|--|
| Proper airflow management for patients Monitor the comfort level for each hospital ward External device interlock control | Energy savings based on flexible scheduling | Centralized management of AHU for large space |
|  PTVSMa0 Human detection sensor |  PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) |  PAHCMR000 AHU Comm.Kit • Return air |
|  PREMTB101 Wired remote controller • 4.3 inch color LCD • Touch button |  PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) |  PAHCMS000 AHU Comm.Kit • Discharge air |
|  PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) | | |
|  PDRYCB400 2 contact point Input • Operation On / Off Output • Operation On / Off status • Error alarm | | |

Academic Institution Control Solution



Classroom
Automatically save energy in the absence of students

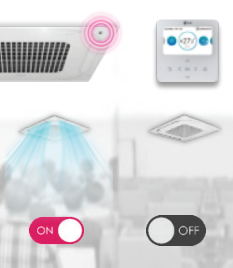


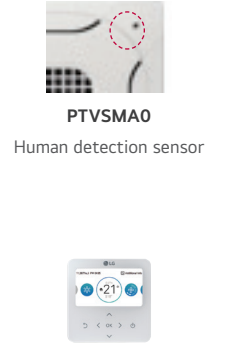

Central controls prevent students from arbitrary control

Lecture Hall
Schedule management according to academic plan


Maintenance Office
Integrated management of distributed buildings

Centralized management with multiple interfaces

Design Proposal

| 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 |
|  PTVSMa0 Human detection sensor |  PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) |  PACM5A000 AC Manager 5 |
|  PREMTB101 Wired remote controller • 4.3 inch color LCD • Touch button |  PACP5A000 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





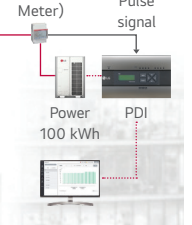
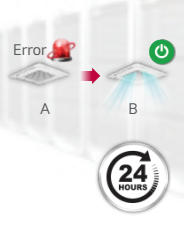













Reduce costs by replacing BMS

Office Room
Reasonable power distribution to tenants

Server Room
24-hour backup management

Meeting Room
Energy savings based on occupancy detection

Design Proposal

| MAINTENANCE OFFICE | OFFICE ROOM | SERVER ROOM | MEETING ROOM | | |
|--|--|--|--|---|--|
| <p>Energy savings and management throughout the building</p>  <p>Target Forecasting</p> | <p>Integrated management of HVAC with BMS system</p> <p>BMS Protocol</p>  <p>BMS System</p>  | <p>Reduce costs by replacing BMS</p>  <p>Pump Lighting Fan Sensor</p> | <p>Reasonable power distribution to tenants</p>  <p>WHM (Watt-Hour Meter) Pulse signal</p> <p>Power 100 kWh PDI</p> | <p>Main equipment 24 hours back up management</p>  <p>Error 24 HOURS</p> | <p>Energy savings based on occupancy detection</p>  <p>Human detection sensor</p> |
|  <p>PACS5A000 AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> |  <p>PACP5A000 ACP 5</p> |  <p>PEXPMB000 ACS IO Module</p> |  <p>PPWRDB000 PDI Standard (2 ports)</p> <p>• Max. 128 IDU</p> |  <p>PACS5A000 AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> |  <p>PTVSM40 Human detection sensor</p> |
|  <p>PACP5A000 ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> |  <p>PMBUSB00A Modbus RTU gateway</p> |  <p>PEXPM300 PEXPM200 PEXPM100 ACU IO Module</p> |  <p>PQNUD1S40 PDI Premium (8 ports)</p> <p>• Max. 128 IDU</p> |  <p>PACP5A000 ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> |  <p>PREMTB101 Wired remote controller</p> <p>• 4.3 inch color LCD • Touch button</p> |

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

| HOME | BED ROOM | | | APARTMENT |
|---|---|---|---|---|
| Control your home air conditioner anytime, anywhere | Build a Smart house | Use a familiar residential thermostat | Simple interlocking control by remote control | Stable system operation when indoor unit power is lost |
|  |  |  |  |  |
|  |  |  |  |  |
| PWFMD200 Wi-Fi modem | PDRYCB500 Modbus RTU (9,600bps) | PDRYCB320 8 contact point | PREMTB101 Wired remote controller | PINPMB001 Multi-tenant Power Module |
| Function <ul style="list-style-type: none">• On / Off• Fan speed• Operation mode• Vane control• Reservation (Sleep, Weekly On / Off)• Error check | Function <ul style="list-style-type: none">• Operation• Indoor temperature• Error alarm• Set operation mode• Set temperature• Set fan speed | Input <ul style="list-style-type: none">• Universal Input• Operation On / Off• Thermo On / Off• Operation mode (Fan / Heat / Cool)• Fan speed (Low / Middle / High) Output <ul style="list-style-type: none">• Operation On / Off status• Error alarm | <ul style="list-style-type: none">• 4.3 inch color LCD• Touch button | <ul style="list-style-type: none">• EEV full close function |

330 ~ 355

ACCESSORIES

MECHANICAL ACCESSORIES

PIPING ACCESSORIES



Cassette Panel

The independent vane operation ensures comfortable air flow.



PT-QAGW0



PT-USC



PT-UAHG0, PT-TAHG0
PT-UPHG0, PT-TPHG0



PT-UAHW0, PT-TAHW0

Model Name & Applied Products

4 Way Cassette (Mini, 570x570)
PT-QAGW0

2 Way Cassette
PT-USC

1 Way Cassette (Grill Type)
PT-UAHG0 / PT-TAHG0 (Glossy)
PT-UAHW0 / PT-TAHW0 (Non-Glossy)

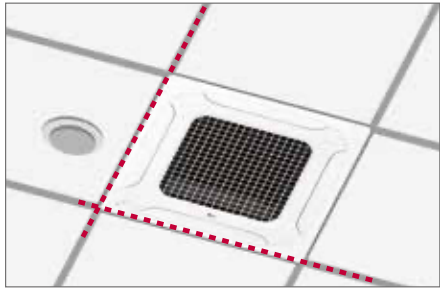
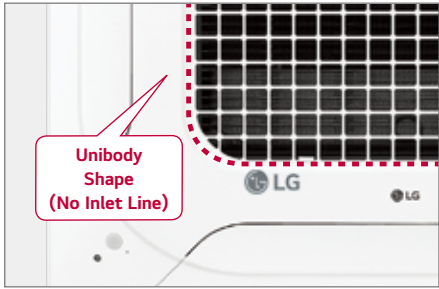
1 Way Cassette (Air Purification)
PT-UPHG0 / PT-TPHG0 (Glossy)

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.

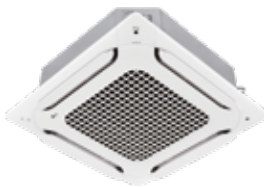


Specification

| | Model | Suction Type | Color (RAL) | Gloss | Weight (kg) | Dimension (mm) | | | Applied Model Capacity (kW)* | | | | | |
|-------|----------|--------------|------------------------|-------|-------------|----------------|----|-----|------------------------------|---------|-------------|---------|---------|---------|
| | | | | | | | | | Single Split | | Multi Split | | Multi V | |
| | | | | | | W | H | D | R32 | R410A | R32 | R410A | R32 | R410A |
| 4 Way | PT-QAGW0 | Grid | White (RAL 9003) | X | 2.9 | 620 | 35 | 620 | 2.5-5.0 | 2.5-5.0 | 1.5-5.3 | 1.5-5.3 | 1.6-6.2 | 1.6-6.2 |
| 2 Way | PT-USC | Grid | Morning Fog (RAL 9001) | X | 4.7 | 1,100 | 28 | 690 | | | | | 2.8-7.1 | 2.8-7.1 |
| 1 Way | PT-UAHG0 | Grill | White (RAL 9003) | O | 3.9 | 1,160 | 34 | 500 | | | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
| | PT-TAHG0 | Grill | White (RAL 9003) | O | 4.8 | 1,480 | 34 | 500 | | | | | 5.6-7.1 | 5.6-7.1 |
| | PT-UAHW0 | Grill | White (RAL 9003) | X | 3.3 | 1,100 | 34 | 500 | | | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
| | PT-TAHW0 | Grill | White (RAL 9003) | X | 4.5 | 1,420 | 34 | 500 | | | | | 5.6-7.1 | 5.6-7.1 |
| | PT-UPHG0 | Grill | White (RAL 9003) | O | 4.1 | 1,160 | 34 | 500 | | | 2.6-3.5 | 2.6-3.5 | 2.2-3.6 | 2.2-3.6 |
| | PT-TPHG0 | Grill | White (RAL 9003) | O | 4.9 | 1,480 | 34 | 500 | | | | | 5.6-7.1 | 5.6-7.1 |

* Based on cooling capacity
※ ○ : 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 PT-AFGW0 | O | Optional | Optional | X | Optional |
| | O | Optional | Optional | Optional (Dust Sensor, Tact Switch) | Optional |

Specification

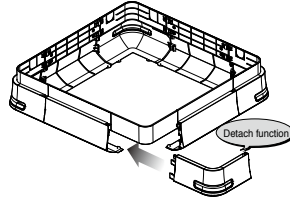
| Model | Suction Type | Color (RAL) | Gloss | Weight (kg) | Dimension (mm) | | |
|----------------------|--------------|------------------|-------|-------------|----------------|----|-----|
| | | | | | W | H | D |
| PT-AAGW0 PT-AFGW0 | Grid | White (RAL 9003) | - | 7.1 | 950 | 35 | 950 |
| | Grid |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

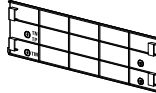
4 Way Cassette (for chassis TP-B, TM-A)

Included Parts

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



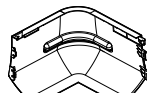
Cover A (4 units)



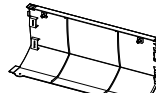
Cover B (4 units)



Screw (28 units)



Cover C (4 units)



Cover D (4 units)



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.

Conventional



LG Elevation Grille Panel



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 |
| Panel Accessory | Air Purification Kit | - | 0 |
| | Elevation Grille Kit | - | PTVK440 |
| | Floor Detection Sensor | - | 0 |
| | Human Detection Sensor | - | PTVSAA0 |
| | | - | |

* 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

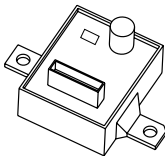
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is “on” when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is “off”.
- When the 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 | Average power consumption (mA) | 35 |
| | Cable length (m) | 10 |
| Sensor protective cover | Dimensions of Front Plate (W x H x D, mm) | 80 x 110 x 44.6 |
| | Dimension of Backplate (W x H x D, mm) | 80 x 110 x 6.5 |

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

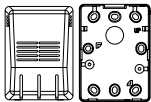
Included Parts



Sensor



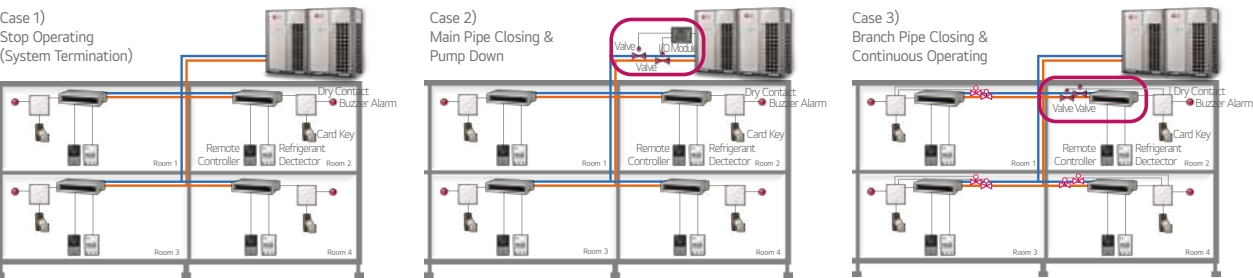
Connecting Cable



Sensor Protective Cover

Key Application

Refrigerant leak detector has three application methods.



Accessory Specification (To realize the case 2 application)



I/O Module
PVD5MN000

※ Necessary accessory



PRLDNV50
(Refrigerant leak detector)



[Optional / Field Supply]
Automatic Ball Valve¹⁾

1) Please contact to subsidiary to get the recommended specification. (LG Electronic don't provide this accessory)



PDRYCB400
(Dry contact)



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



[Field Supply]
Buzzer alarm for room



Central Control
Devices

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.

NEW



Model Name
PLDRNV1S

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



Sensor Assembly



Case



Screws



Screws



Connecting Cable

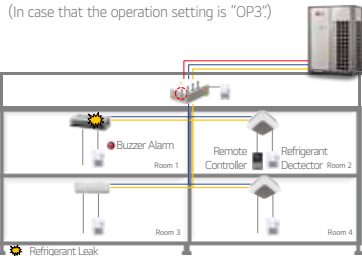


Installation Manual

Key Application

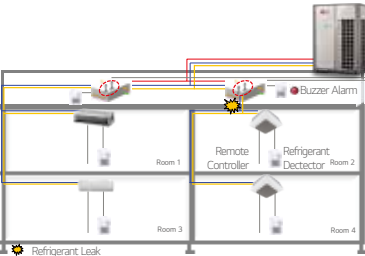
Refrigerant leakage detector has application methods. (LG system complies with IEC 60335-2-40)

- Stop the leakage IDU and close the affected shut-off valves. Operate other IDUs.
(In case that the operation setting is “OP3”)



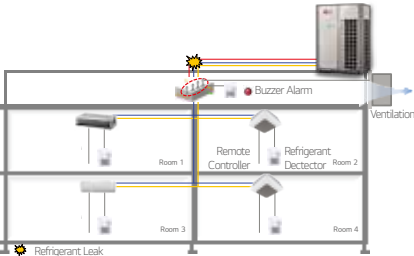
Enhanced Tightness Refrigerating System
+ Safety Devices (Shut-off Valve + Alarm)

- Close all shut-off valves inside the HR unit and operate a ventilation fan.



Enhanced Tightness Refrigerating System
+ Safety Devices (Alarm + Ventilation)

- Close all shut-off valves inside the HR unit and operate a ventilation fan.



Enhanced Tightness Refrigerating System
+ Safety Devices (Alarm + Ventilation)

CO₂ Sensor

CO₂ sensor in ventilation system.



Model Name
AHCS100H0

Applied Products

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

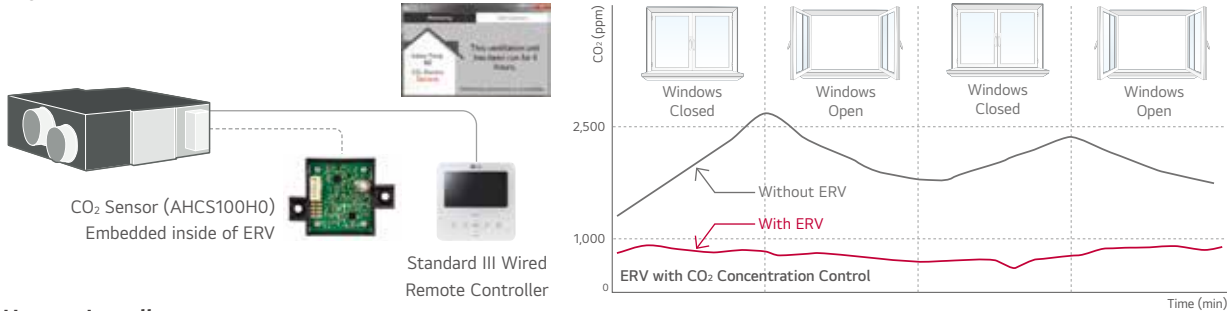
Applicable Products

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

Key Features

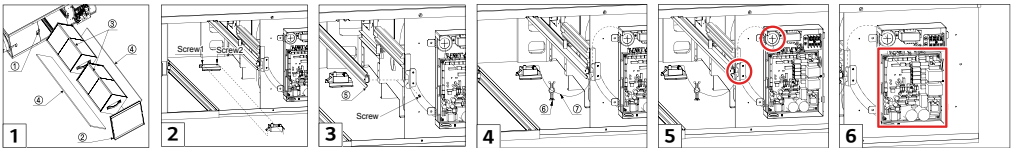
- Specification
- Applied Model : ERV (Embedded), ERV DX (Option)
 - Supply voltage : DV12V ± 5%
 - Output : 0.6 ~ 4.4V (Linear output, 240 ~ 1,760 ppm CO₂)
 - Accuracy : ± 10% (2 days after installation)
- Description
- The product is especially designed to detect CO₂.
 - This model requires Standard III Wired Remote Controller for display.

Key Application



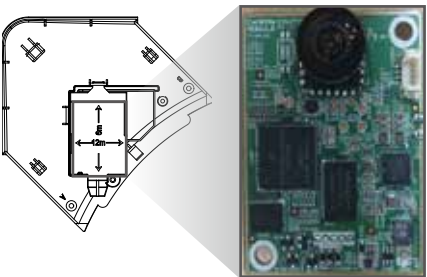
How to Install

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



Human Detection Kit

Human Detection Kit ensures energy saving and controls wind direction.



Model Name
PTVSM40

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.

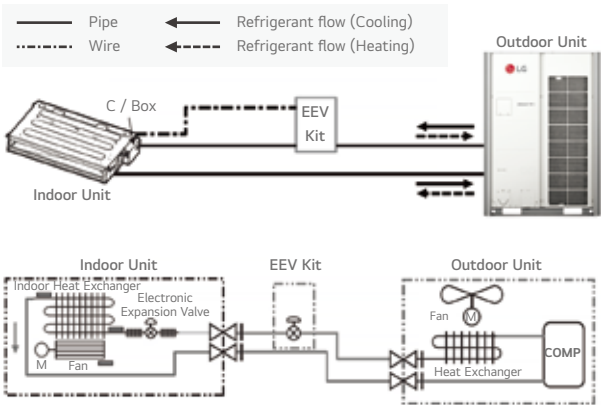


Model Name
PRGK024A0

Key Features

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

Key Application



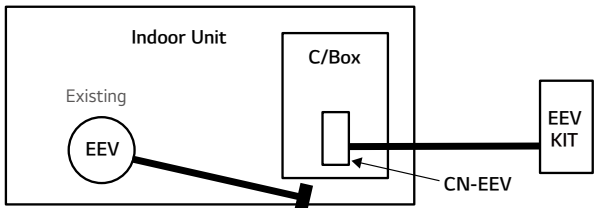
Applied Products

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

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

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.



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.

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.



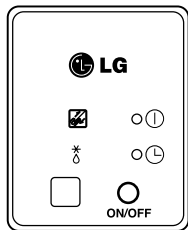
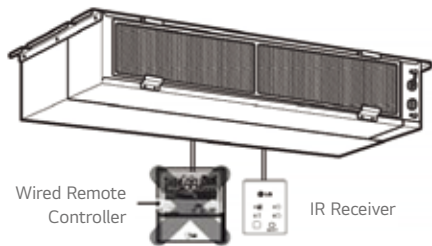
Model Name
PWLRVN000

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

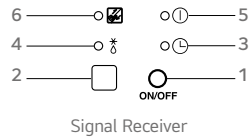
Key Application

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

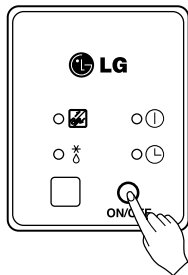


Operation of Indication Lamps

- 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.



Signal Receiver



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.

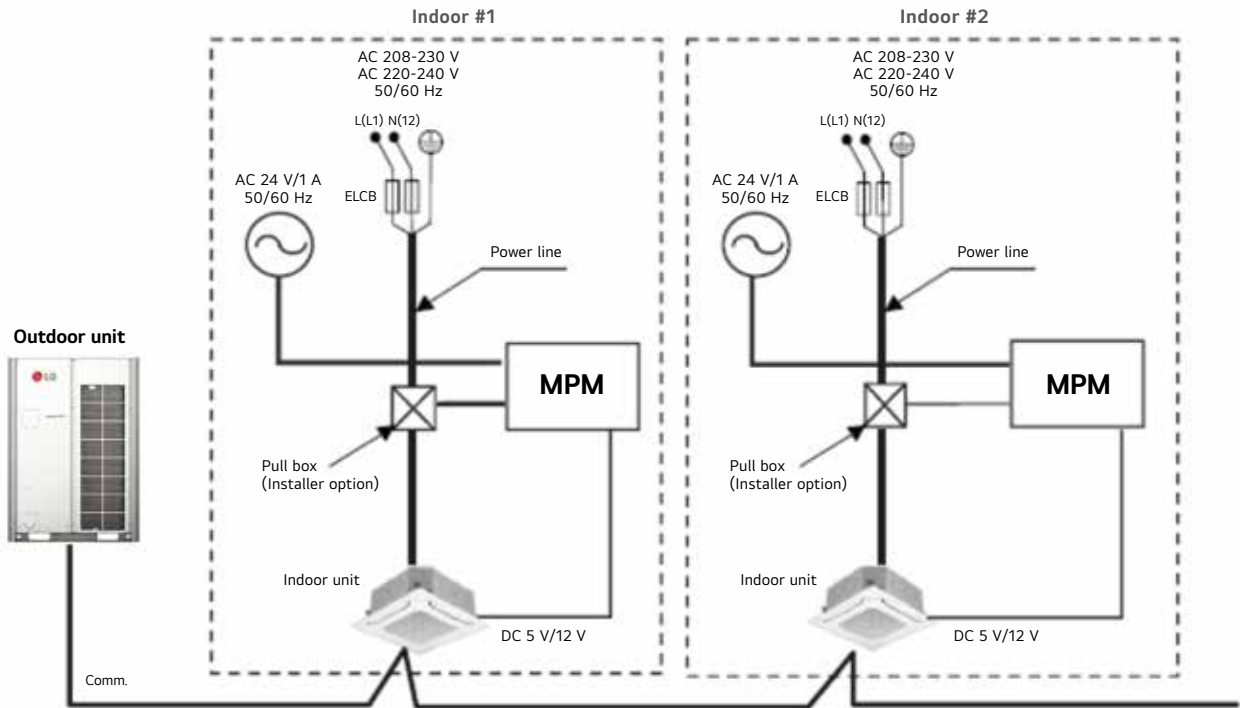


Model Name
PINPMB001

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 used for it. Instead of being used CN-EXT, PDRYCB000 (220Vac input) / PDRYCB100 (24Vac Input) Module are being used for Single contact.

Auxiliary Heater Relay Kit

Providing an efficient way to add auxiliary heat.



Model Name
PRARS1

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

Model Name
PRARH1

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

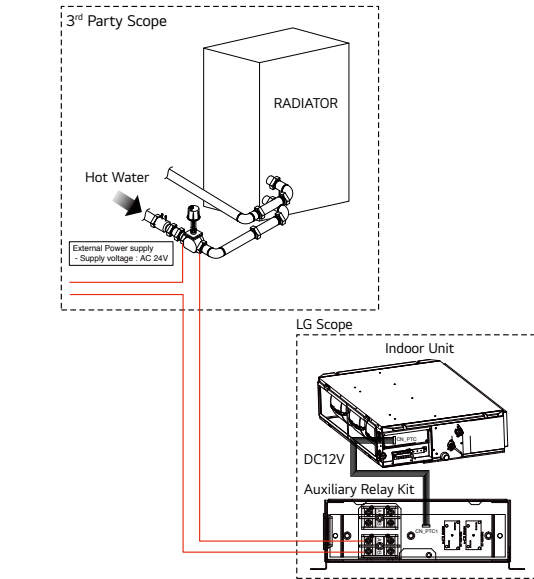
- Key Features
- Provides two stages of auxiliary heat for indoor unit.
 - Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

Included Parts

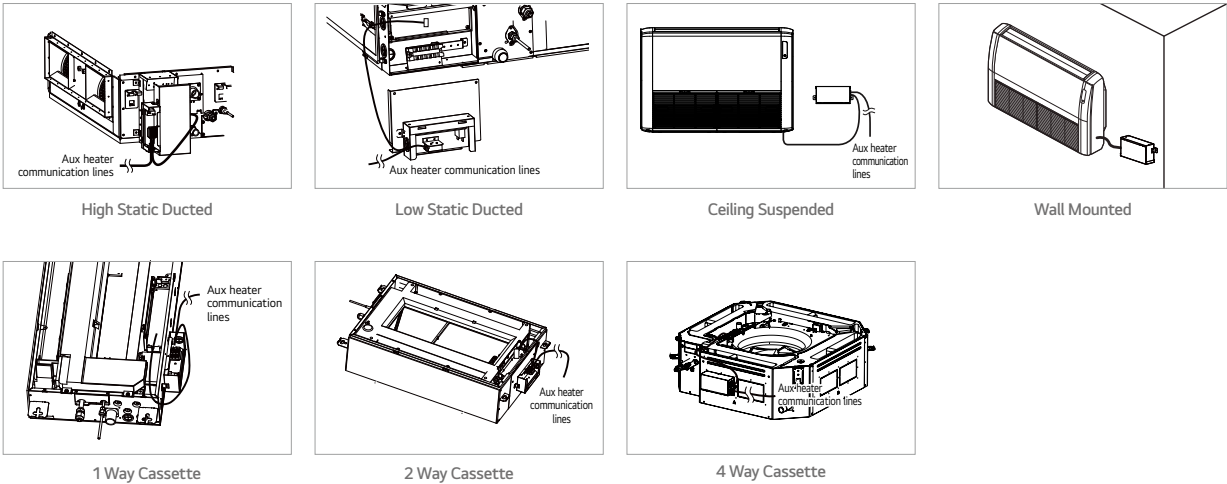
| Model | PRARH1 | | | |
|--------|----------------------------|-------|------------|---------------------|
| Item | Auxiliary Heater Relay Kit | Screw | Insulation | Installation Manual |
| Q'ty | 1 | 2 | 2 | 1 |
| Figure | | | | |

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

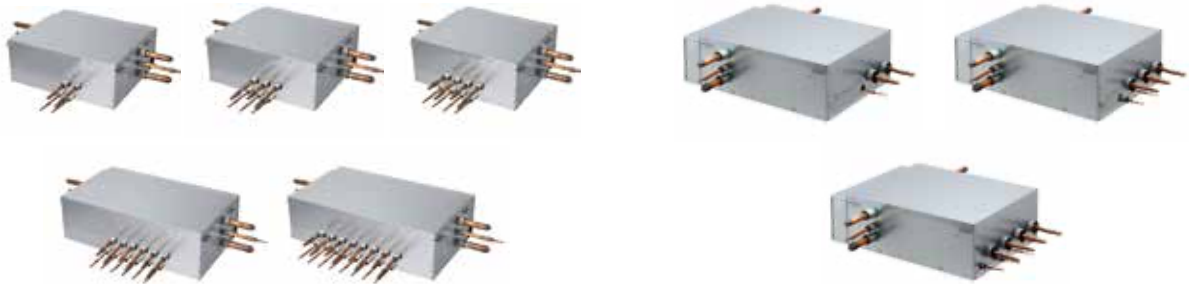
Key Application



How to Install



Heat Recovery



Applied Products

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

Model Name (R410A)

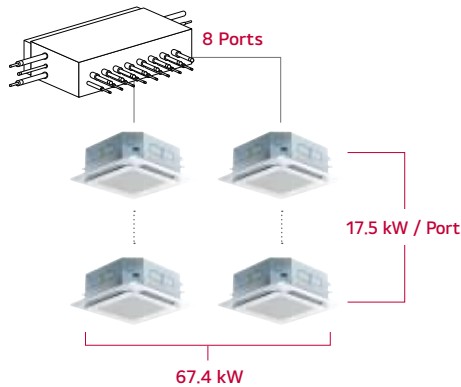
PRHR023 (2 Branch Unit)
PRHR033 (3 Branch Unit)
PRHR043 (4 Branch Unit)
PRHR063 (6 Branch Unit)
PRHR083 (8 Branch Unit)

Key Features

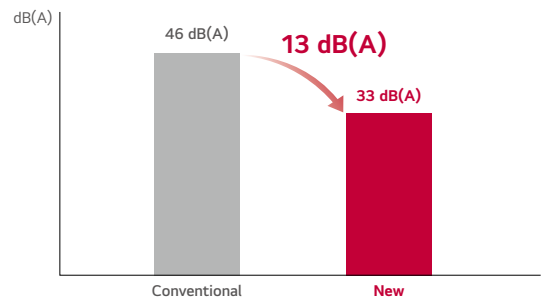
- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in the HR unit ensures maximum system efficiency.

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)

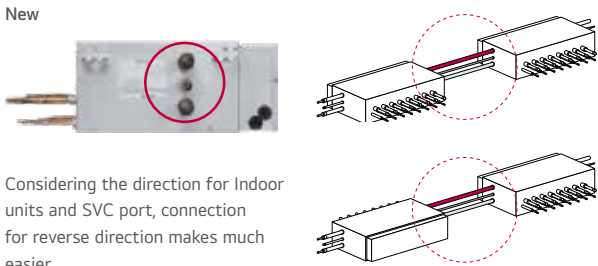
PRHRZ020
PRHRZ030
PRHRZ040

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 be 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.



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) | 22.2 (7/8) |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | |

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) | 22.2 (7/8) |
| | | | | | | |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | 1, 220-240, 50 1, 220, 60 | |

Reducers for Indoor Unit and HR Unit

(Unit : mm)

| Model | Liquid | High Pressure | Low Pressure |
|---------------------|--------|---------------|--------------|
| Indoor unit reducer | | | |
| HR unit reducer | | | |
| | | | |

Y Branch and Header Branch

For refrigerant distribution of indoor units.



Model Name

Refer to specifications

Applied Products

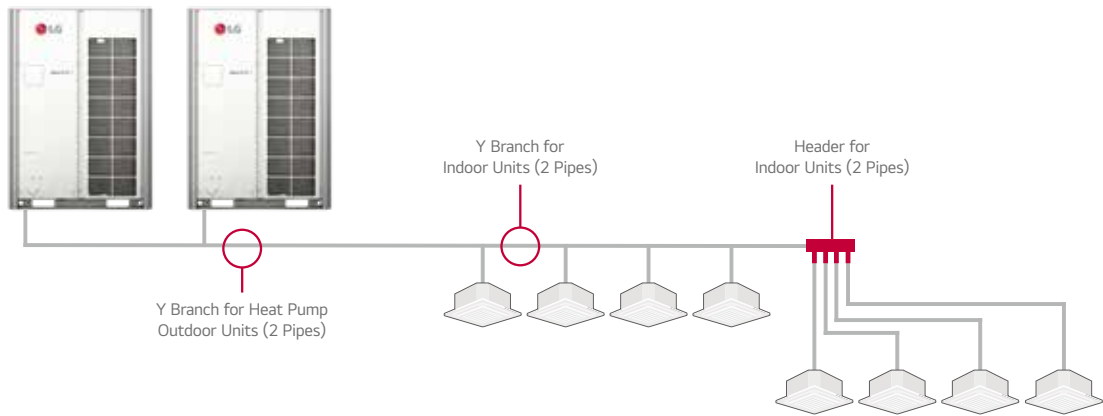
- MULTI V i
- MULTI V 5
- MULTI V IV
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V S
- MULTI V WATER 5
- MULTI V WATER IV
- MULTI V WATER II
- MULTI V WATER S

Key Features

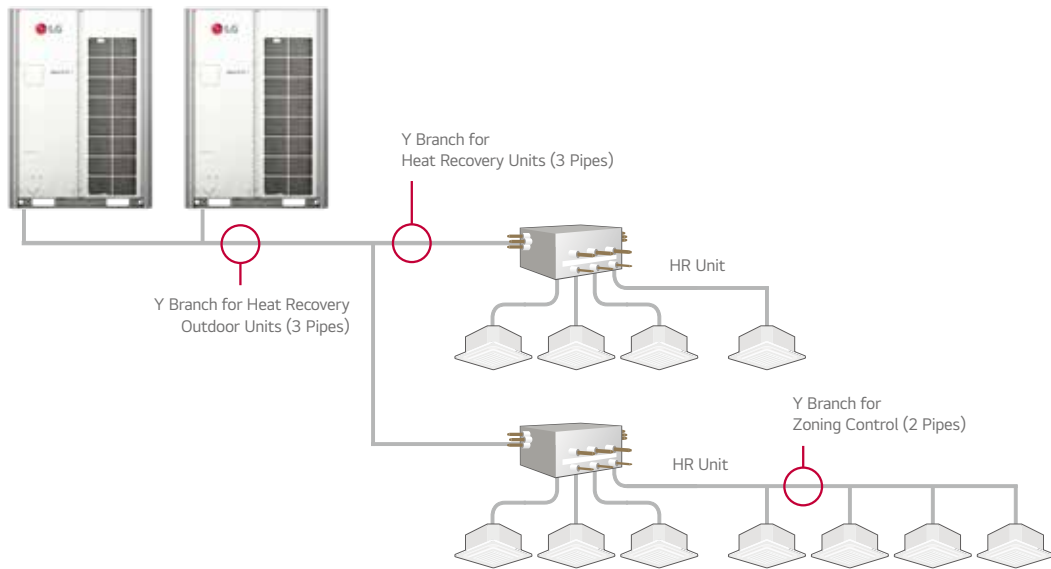
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

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)

| 2 Outdoor Units | | |
|-----------------|------------------------|-------------|
| Model | High Pressure Gas Pipe | Liquid Pipe |
| ARCNN21 | | |
| | | |

| 3 Outdoor Units | |
|-----------------|-------------|
| Model | Liquid Pipe |
| ARCNN31 | |
| | |

| 4 Outdoor Units | |
|-----------------|-------------|
| Model | Liquid Pipe |
| ARCNN41 | |
| | |

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)

| 2 Outdoor Units | | | |
|-----------------|------------------------|-------------|-----------------------|
| Model | High Pressure Gas Pipe | Liquid Pipe | Low Pressure Gas pipe |
| ARCNB21 | | | |
| | | | |

| 3 Outdoor Units | | | |
|-----------------|------------------------|-------------|-----------------------|
| Model | High Pressure Gas Pipe | Liquid Pipe | Low Pressure Gas pipe |
| ARCNB31 | | | |
| | | | |

| 4 Outdoor Units | | | |
|-----------------|------------------------|-------------|-----------------------|
| Model | High Pressure Gas Pipe | Liquid Pipe | Low Pressure Gas pipe |
| ARCNB41 | | | |
| | | | |

Refrigerant Charging Kit

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



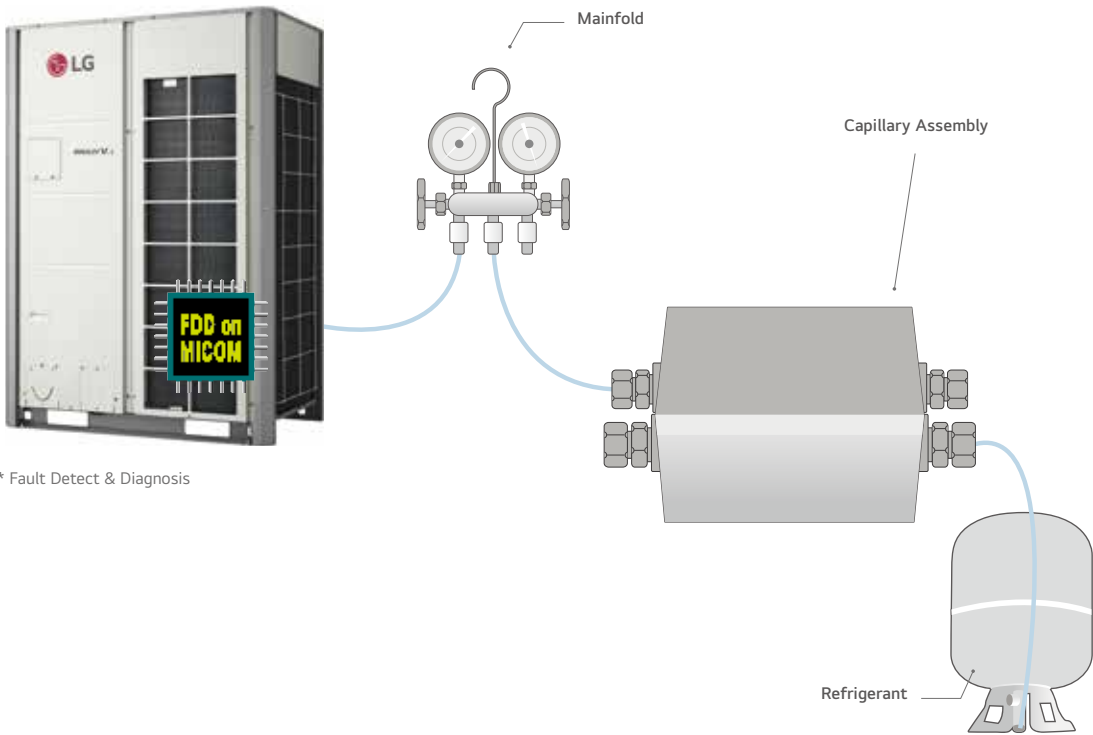
Model Name
PRAC1

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.

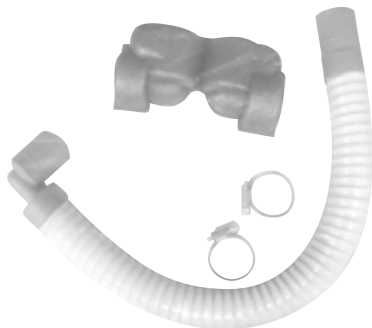
Key Application



* Fault Detect & Diagnosis

Drain Hose

Easy drain installation.



Model Name
PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

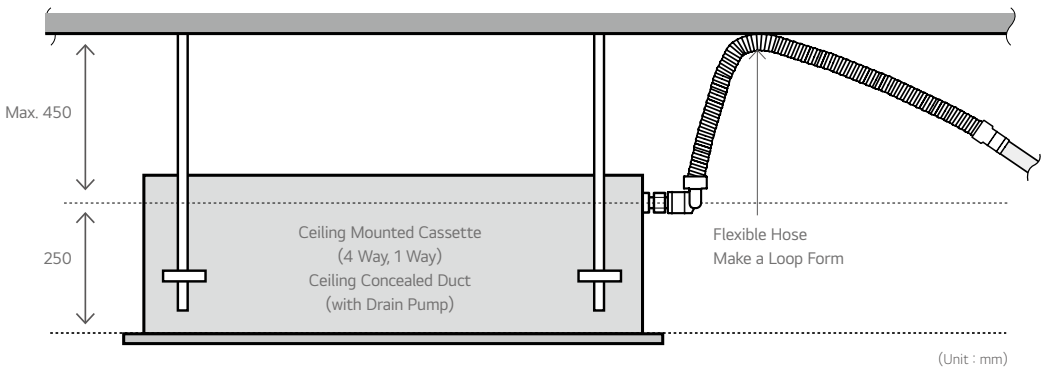
Applied Products
Multi V Indoor units

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



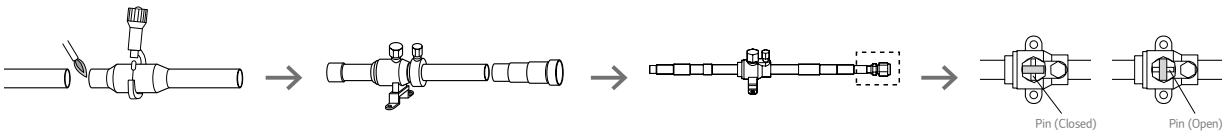
Model Name
PRVT120 (Under 12.7mm)
PMVT780 (Under 22.2mm)
PMVT980 (Under 28.58mm)

- 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 | |

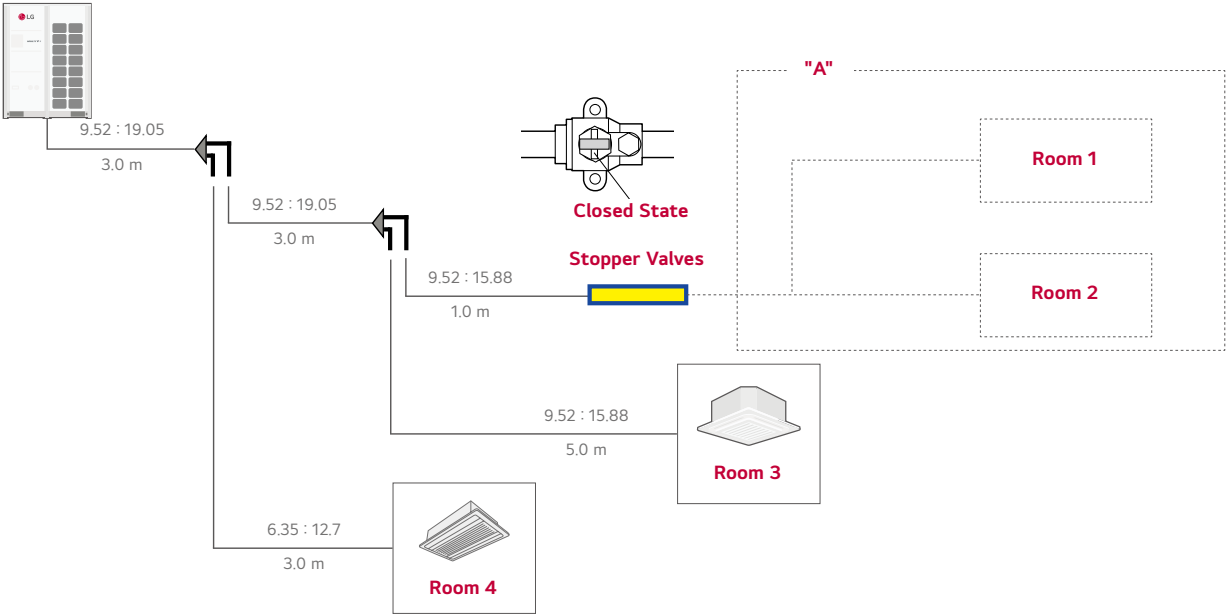
How to Install



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

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

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



- 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.

