

2020

2020

MULTI VTM

LG AIR
SOLUTION



MULTI VTM



LG Electronics

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



Iris Hellas
Technology Innovations
www.irishellas.com

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022-101
**OUTDOOR
UNITS**

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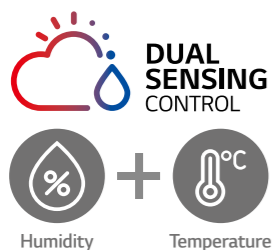
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10 ADVANTAGES OF MULTI V

1 ULTIMATE EFFICIENCY

Ultimate Energy Saving with
Dual Sensing Control



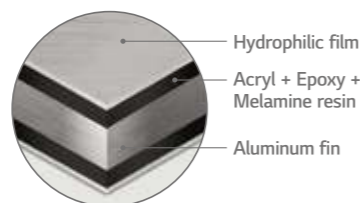
2 INNOVATIVE TECHNOLOGIES

Ultimate Inverter Compressor
- **MULTI V S**
Revolutionary Scroll R1 Compressor
- **MULTI V S R32, MULTI V M**



3 SUPERIOR DURABILITY

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



Certified protection



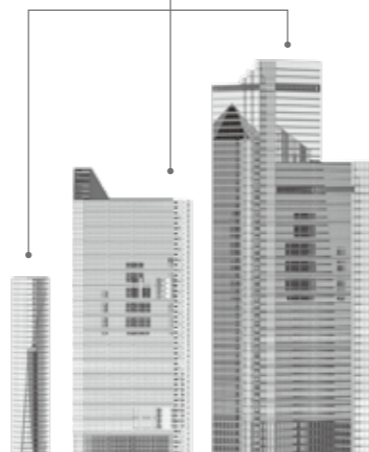
※ Verification of corrosion resistance performance
- Declared by TUV Rheinland
- Test Method B of ISO21207
- Test condition: Salt contaminated condition
+ severe industrial/traffic
environment(NO2/SO2)

4 DESIGN FLEXIBILITY

Flexible Installation with
Large Capacity Outdoor Unit.

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

MULTI V S allows versatile design
with flexible piping locations



5 SMART CONTROLS

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



6 BUSINESS SUPPORT

- Engineering Tools & Support
- LG Air Conditioning Academy
- European LG Energy Lab
- European Air Conditioning Distribution Center

7 DIVERSE PRODUCT LINEUP

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

8 DIVERSE INTEGRATED SOLUTION

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

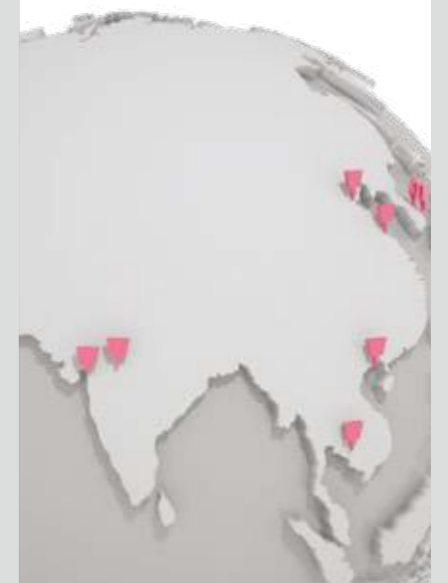
9 R32 APPLICATION

New line-up applying the
industry-first mini VRF with R32
refrigerant to MULTI V S

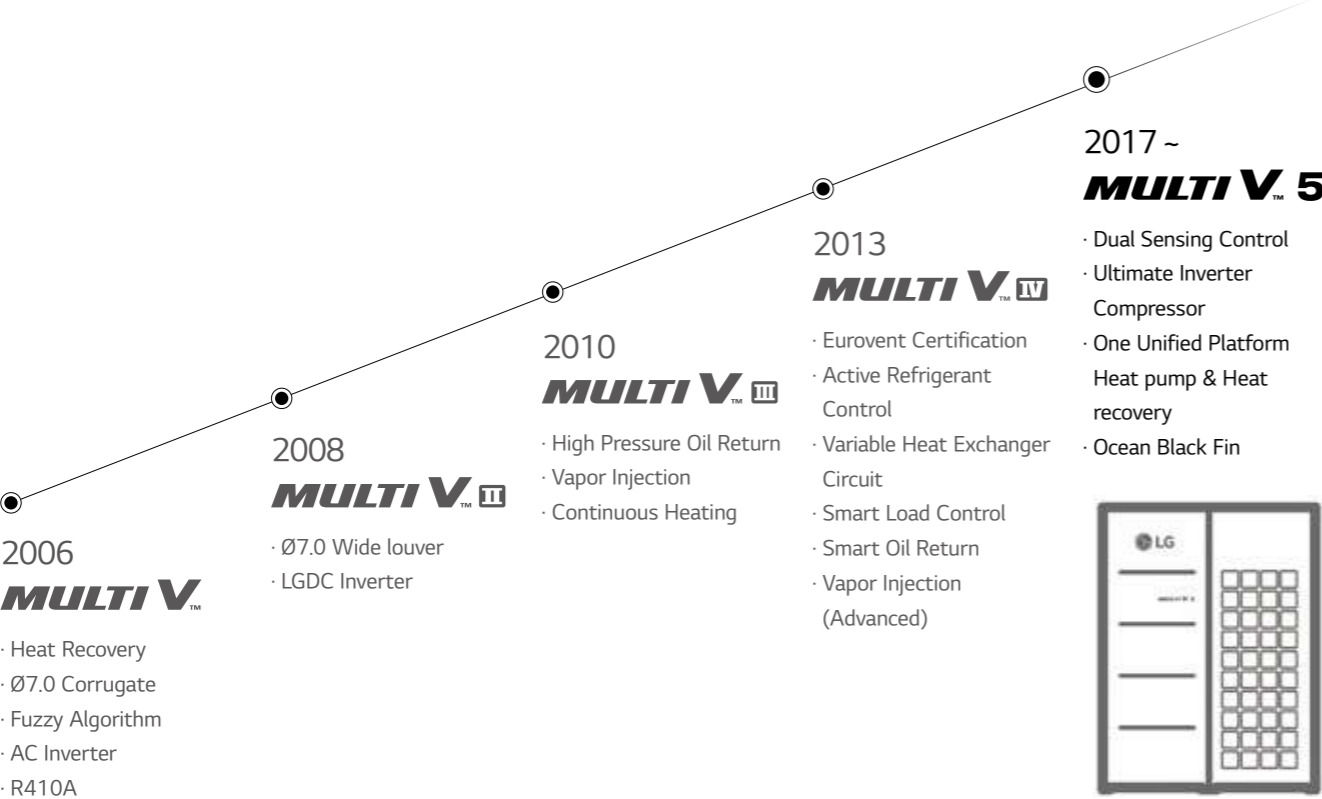


10 BRAND RELIABILITY

Global production sites facilitate
world-class customer service.



MULTI V BRAND HISTORY



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

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

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

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

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

INFRASTRUCTURE IN 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, the Netherlands. Supplying and delivering products all over Europe, this distribution hub has contributed to smooth and rapid delivery, 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.

-  Air Conditioning Academy
-  Europe Energy Lab
-  European Distribution Center



ENGINEERING TOOLS & SUPPORT

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

* LATS : LG Air-conditioner Technical Solution



I

Energy Estimation
& Energy Modeling



II

Model Selection
& Design



III

Installation
Environment
Simulation

| | | | | | |
|--------------------------|-------------|--|--|------------------------|-----------------|
| 01 Planning | | | | | |
| 02 Schematic Design | LATS ENERGY | | | LATS HVAC | |
| 03 Design Development | | Energy Modeling - eQUEST® - TRNSYS | | LATS CAD LATS REVIT | CFD - FLUENT |
| 04 Construction Design | | | | | |
| 05 Construction | | | | | |
| 06 Service & Maintenance | | | | | LGMV |

01 Draft Energy Estimation

LATS Energy

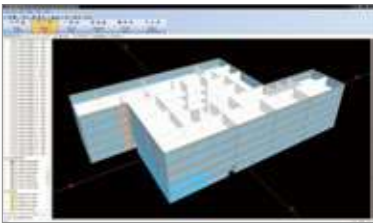
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems during a project's early stages.



02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

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



03 Model Selection

LATS HVAC

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



04 Design

LATS CAD

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

* AutoCAD program is required.



LATS REVIT

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

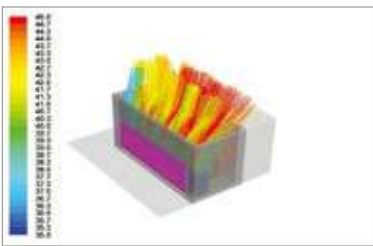
* AutoCAD Revit program is required.



05 Environment Simulation

CFD Analysis

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



06 Service & Maintenance

LGMV

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



BENEFITS OF LG MULTI V

Benefits for Building Owners

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



Benefits for Consultants

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



Benefits for Developers & Construction Companies

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



Benefits for End-users

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

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



APPLICATION SOLUTIONS

Office

Supporting efficiency with flexibility

High Rise Office Building



Small to Medium sized Office Building



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

Commercial

Maximizing business, minimizing cost

Shopping Mall



Retail



Quick Service Restaurant (QSR)



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

* CST : Cassette ** PDI : Power Distribution Indicator

Residential

Creating a comfortable home

Condominium & Apartments



Single Family House & Villa



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

Hospitality

Meeting diverse needs



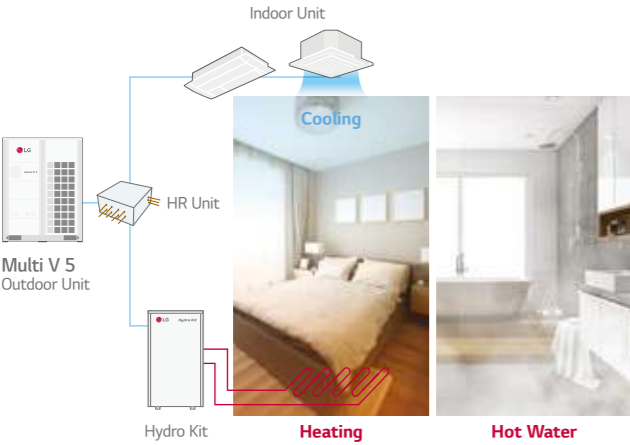
The diverse applications that can be applied to MULTI V 5 helps bring just the right solution to a sophisticated hotel business.

* ESS : Energy Storage System * PV : Photovoltaics

DIVERSE INTEGRATED SOLUTION

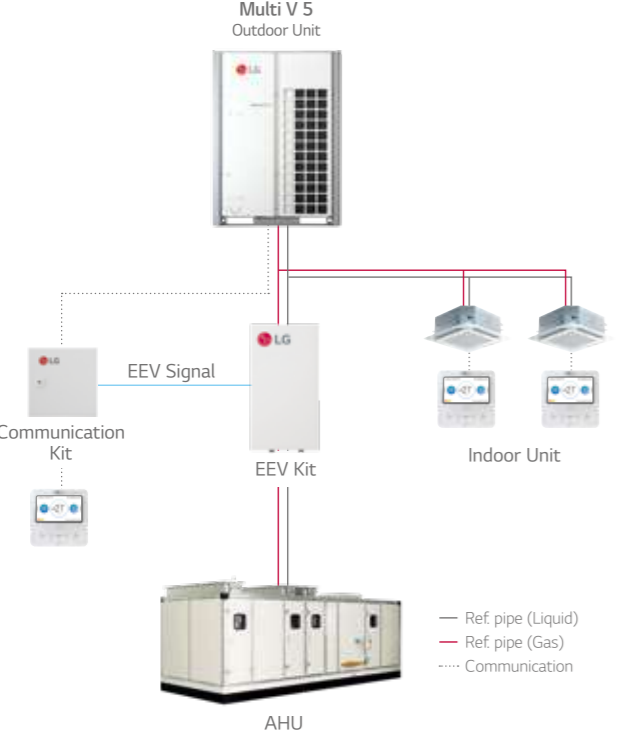
Hot Water Solution

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



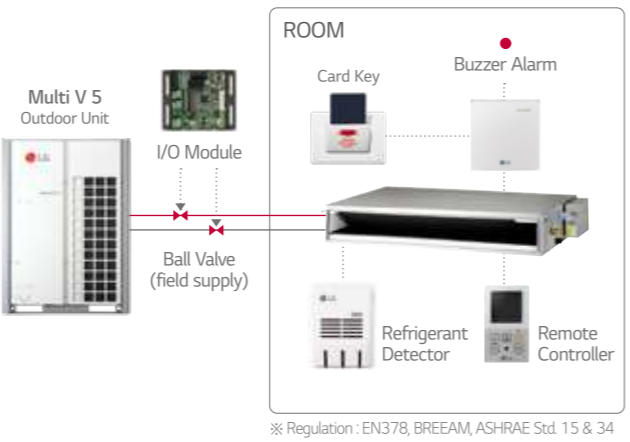
Air Handling Unit (AHU) Solution

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



Refrigerant Leak Detection Solution

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



Power Consumption Distribution Solution

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



Total Control of Any Device

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



DIVERSE INTEGRATED SOLUTION

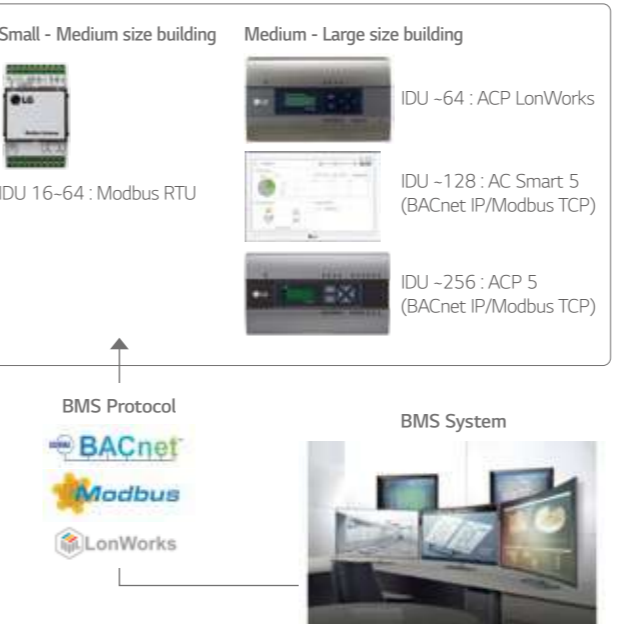
Energy Management Solution

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



Integration Solution with BMS

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



Interlocking Solution by Using ACU Module

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



Interlocking Solution Using Dry Contact

3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit.



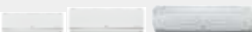








The Standard III remote control has a DO port. With this DO port, it is possible to interlock the indoor unit with 3rd party devices such as lighting, a fan, or a radiator, based on things like operation mode or current temperature.

The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor etc. so that the air conditioner is automatically operated. In addition, the dry contact option settings enable operation of air conditioner to maintain proper temperature when the occupant is absent. This solution makes sure that the room does not overheat or become too cold when unoccupied so that energy cost can be saved.



016 / 017

INDOOR UNITS LINE-UP




















| kW | | | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.2 | 7.1 | 8.2 | 9.0 | 10.6 | 12.3 | 14.1 | 15.8 | 22.4 | 28.0 |
|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Type | | Btu/h | 5k | 7k | 9k | 12k | 15k | 18k | 21k | 24k | 28k | 30k | 36k | 42k | 48k | 54k | 76k | 96k |
| 4 th generation Wall Mounted Unit | 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 Statics |  | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | High Sensible |  | | ● | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | | | |
| 4 th generation Fresh Air Intake Units |  | | | | | | | | | | | | | | ● | | ● | ● |
| 4 th generation Ceiling & Floor Convertible Unit |  | | | ● | ● | | | | | | | | | | | | | |
| 4 th generation Ceiling Suspended Unit |  | | | | | | | ● | | ● | | | ● | | ● | | | |
| 4 th generation Console |  | | ● | ● | ● | ● | | | | | | | | | | | | |
| 4 th generation Floor Standing Unit | Floor Standing Unit with Case |  | | ● | ● | ● | ● | ● | | ● | | | | | | | | |
| | Floor Standing Unit without Case |  | | ● | ● | ● | ● | ● | | ● | | | | | | | | |
| 4 th generation HYDRO KIT | Low Temperature |  | | | | | | | | | | | | ● | | | | ● |
| | High Temperature |  | | | | | | | | | | | | ● | | | ● | |
| 4 th generation Energy Recovery Ventilator with DX Coil | with Humidifier |  | | | | | ● | | | ● | | ● | | | | | | |
| | without Humidifier |  | | | | | ● | | | ● | | ● | | | | | | |

























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

INDOOR UNITS FEATURE OVERVIEW

[illegible]

LG HVAC CONTROL LINE-UP

| INDIVIDUAL CONTROL | | | CENTRALIZED CONTROL | | |
|---|---|--|---|--|---|
| Wired Remote Controller | | Wireless Remote Controller | Display | Platform | Gateway |
| Standard | Simple | | | | |
| Standard I (White) | | <div><div>NEW</div></div> <div>PWLSSB21H (H/P)</div> | AC Ez | ACP 5 | ACP Lonworks |
|  |  | |  |  |  |
| PREMTB100 | PQRCVCL0QW | | PQCSZ250S0 (Indoor Unit ~32) | PACP5A000 (Indoor Unit ~256) BACnet IP / Modbus TCP | PLNWKB000 (Indoor Unit ~64) |
| Standard III (Black) | | <div>Wi-Fi Controller</div> <div></div> <div>LG Wi-Fi Modem</div> <div>For Indoor Unit PWFMD200</div> | AC Ez Touch | AC Manager 5 | Modbus RTU Gateway |
|  |  | |  |  |  |
| PREMTBB10 | PQRCVCL0Q | | PACEZA000 (Indoor Unit ~64) | PACM5A000 (Indoor Unit ~8,192) | |
| Standard II (White) | | | AC Smart 5 | | PI-485 |
|  |  | |  | |  |
| PREMTB001 | PQRCHCA0QW (Simple for Hotel) | | PACS5A000 (Indoor Unit ~128) BACnet IP / Modbus TCP | | For Indoor Unit (ERV) PHNFP14A0 |
| Standard II (Black) | | | | | |
|  |  | | | | |
| PREMTBB01 | PQRCHCA0Q (Simple for Hotel) | | | | |
| Premium | | | | | |
|  | | | | | |
| PREMTA000 PREMTA000A PREMTA000B | | | | | |

| CENTRALIZED CONTROL | INTEGRATION DEVICE | | |
|---|---|--|---|
| Facility Integrator | Indoor Unit | | Outdoor Unit |
| | Dry Contact | Control Accessory | |
| PDI (Power Distribution Indicator) | | Group Control Wire | IO Module (Input / Output Module) |
|  |  |  |  |
| Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000 | Simple Dry Contact PDRYCB000 | | For MULTI V 5 PVDSMN000 |
| ACS IO Module (Input / Output Module) | | Remote Temperature Sensor | Variable Water Flow Control kit |
|  |  |  |  |
| PEXPMB000 | Dry Contact for Thermostat PDRYCB300 | PQRSTA0 | For MULTI V WATER IV PWFCN000 |
| Chiller Option Kit | | Low Profile Remote Temperature Button Sensor | Low Ambient Kit |
|  |  |  |  |
| PCHLLN000 | Dry contact for Thermostat (For using universal input) NEW PDRYCB320 | ZRTBS01 | For MULTI V IV, 5 PRVC2 |
| ACU IO Module | | Zone Controller | Cool / Heat Selector |
|  |  |  |  |
| PEXPMB300 | 2 Points Dry Contact (For Setback) PDRYCB400 | 4 Zones by thermostat ABZCA | PRDSBM |
| UO | | | Water Communication Module |
|  |  | |  |
| PEXPMB200 | For Modbus PDRYCB500 | | NEW PAHCMW000 |
| UI | | | Control kit |
|  | | |  |
| PEXPMB100 | | | NEW PAHCNM000 (Max 3 Outdoor Units) |
| | | | EEV Kit (Electronic Expansion Valve) |
| | | |  |
| | | | PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW) |
| | | |  |
| | | | NEW PRLK396A0 (~ 112 kW) |
| | | |  |
| | | | NEW PRLK594A0 (~ 168kW) |

OUTDOOR UNITS

MULTI V 5 / MULTI V S / MULTI V M

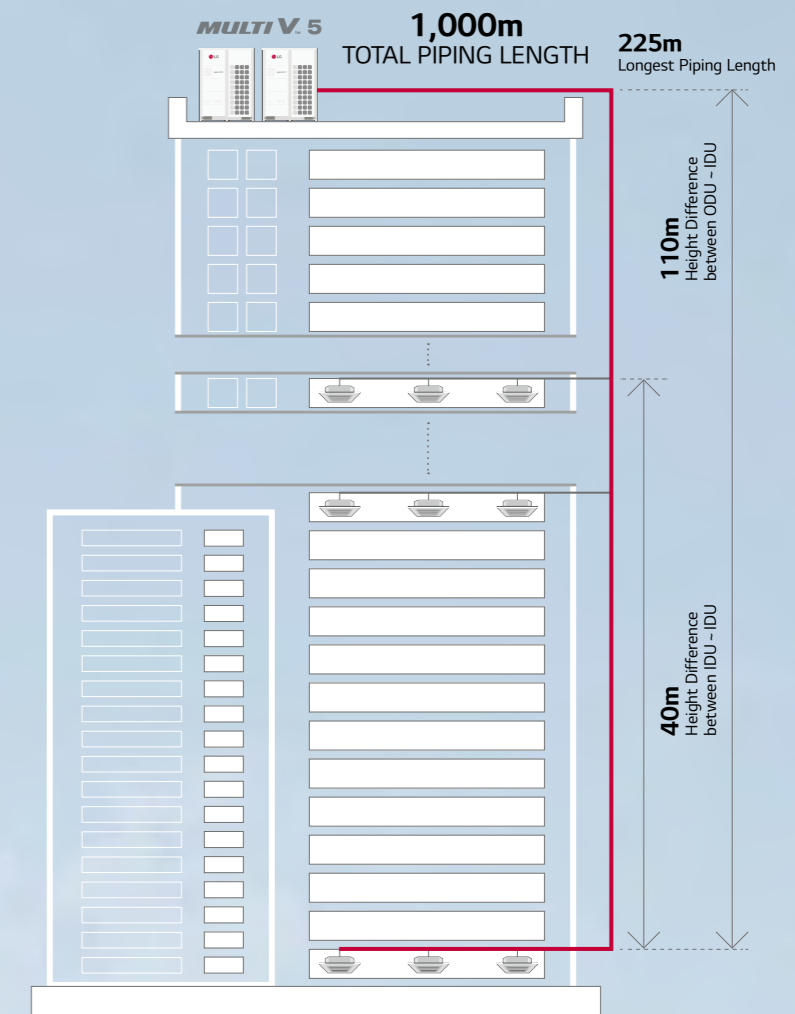
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY)



MULTI VTM 5

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

1,000M
TOTAL PIPING LENGTH



OUTDOOR
UNITS

MULTI V.5



Energy savings



Reliability



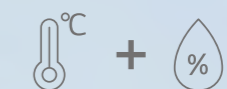
Low noise



Advanced performance

How does it work?

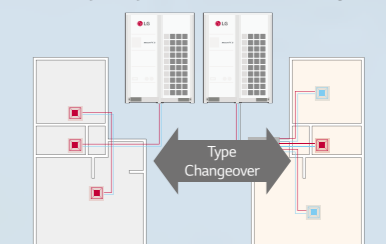
Dual Sensing



Partial Defrost



Interchangeable between
heat pump and heat recovery



INNOVATIVE TECHNOLOGIES

Dual Sensing Smart Load Control (SLC)

Enhanced energy saving & increased indoor comfort

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

It influences the VRF system main processor's decision on where to set the system's target high or low system pressure values.

Smart Load Control responds to:

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

Cooling Indoor Units - adjusts target low pressure

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

Heating Indoor Units - adjusts target high pressure

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

What are the benefits?

Enhanced energy savings

- Cooling Mode

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

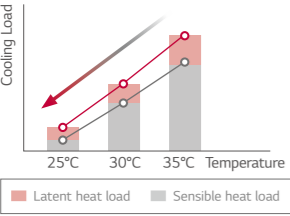
- Heating Mode

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

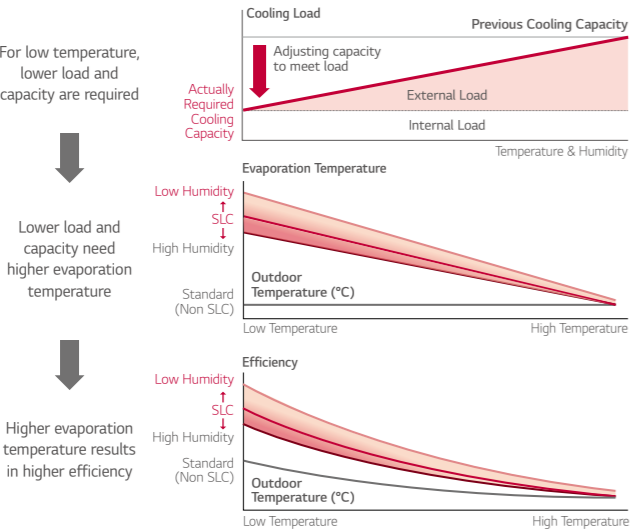
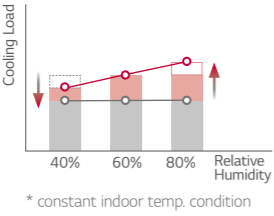
Increased indoor comfort

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

Cooling load according to temperature change



Cooling load according to humidity change



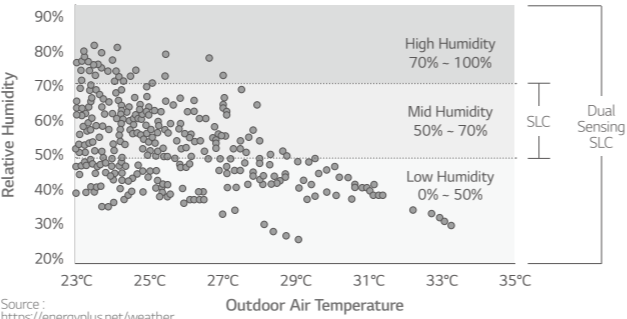
Energy Savings with Dual Sensing Control (Temperature & Humidity)

Case study

Weather characteristics of Warsaw, Poland

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

Warsaw weather in Summer



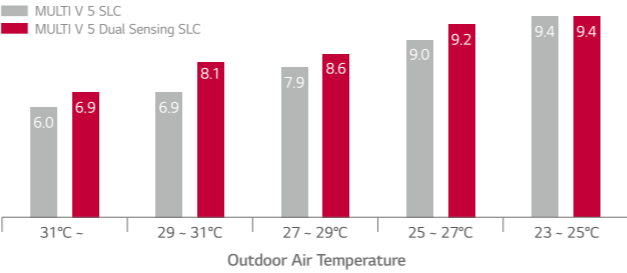
Time Portion of Relative Humidity in Summer (Warsaw, Poland)

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

Energy Consumption in Cooling Season

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

EER



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

Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

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

6% more energy saving compared to SLC

INNOVATIVE TECHNOLOGIES

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

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

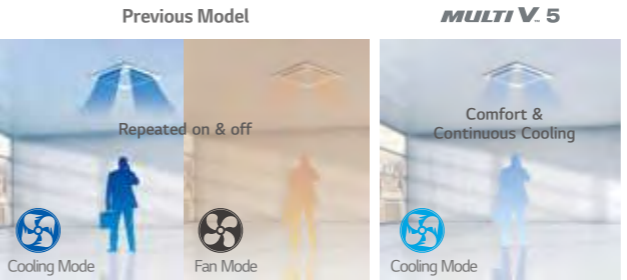
What are the benefits?

Increased indoor comfort

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

Enhanced operating efficiency

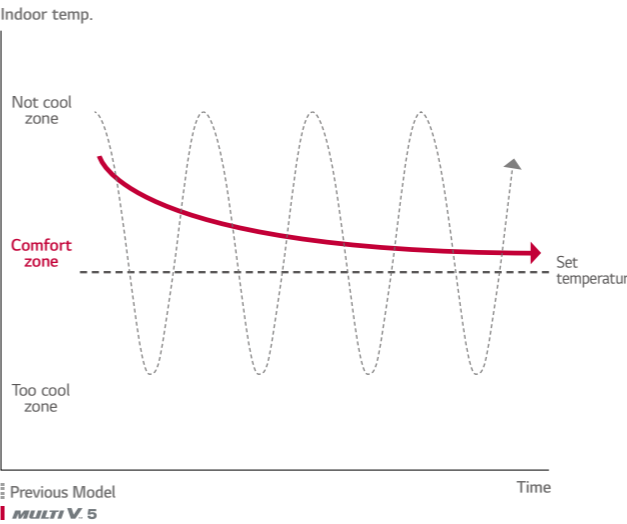
Raising superheat reduces refrigerant volume flowing through the coil. As flow decreases, demand on the compressor decreases and the compressor speed will be reduced, thus saving energy.



* Indoor unit set up available with Standard III Remote Controller

Preventing cold draft & repeated turn On / Offs

Improved Indoor Comfort



Intelligent Defrost

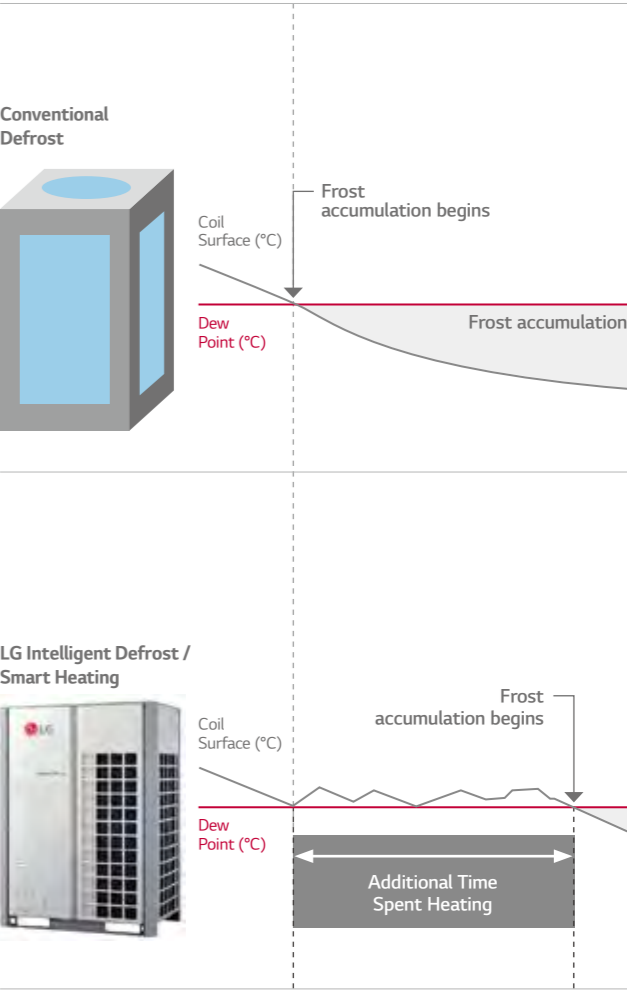
Increased heating run-hours

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

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

What are the benefits?

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



Increased heating operation time per day : Up to 17%

- LG Internal Test result,
- Test condition (MULTI V 5 vs MULTI V IV, 22HP)
- Outdoor : 2/1℃ , Indoor : 20/15℃
- Humidity : 83%, Dew Point : -0.5℃

INNOVATIVE TECHNOLOGIES

Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

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

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

What are the benefits?

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

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



Low ambient cooling and / or light building load

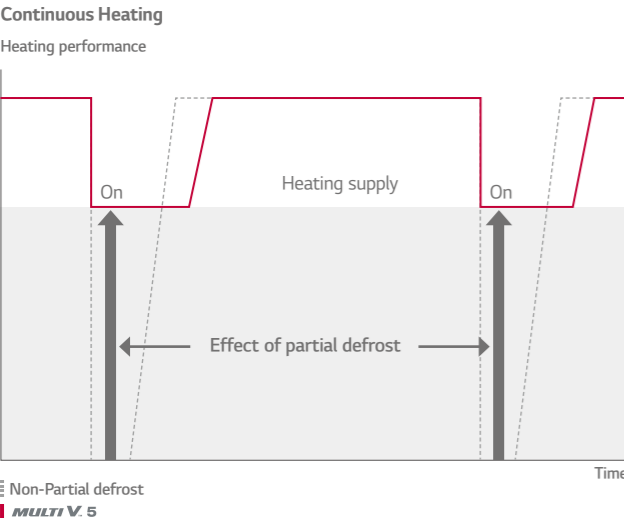
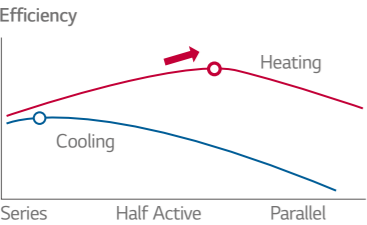
- Half active
- Lower idle

Full load cooling

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

Heating - all conditions

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



Active Refrigerant Control

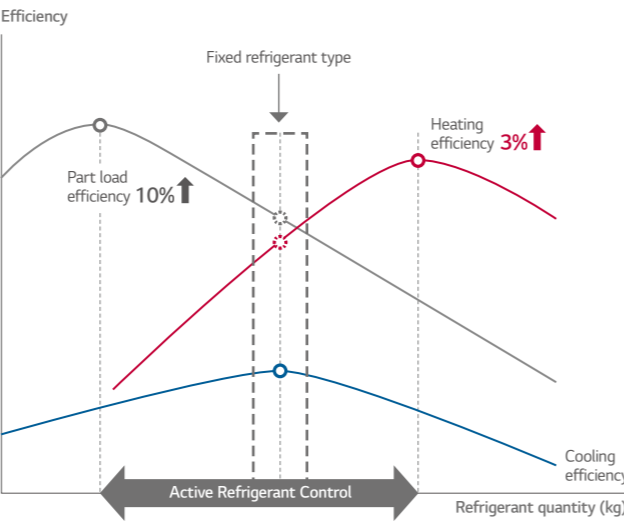
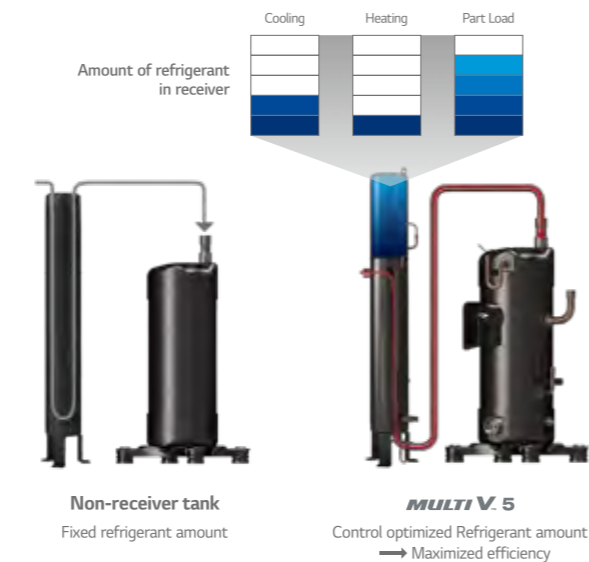
Stable operation & sustaining most efficient operation

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

What are the benefits?

Widens the ambient temperature range at which stable operation occurs.

Sustains most efficient system operation regardless of outdoor weather conditions, operating mode, or building load.



INNOVATIVE TECHNOLOGIES

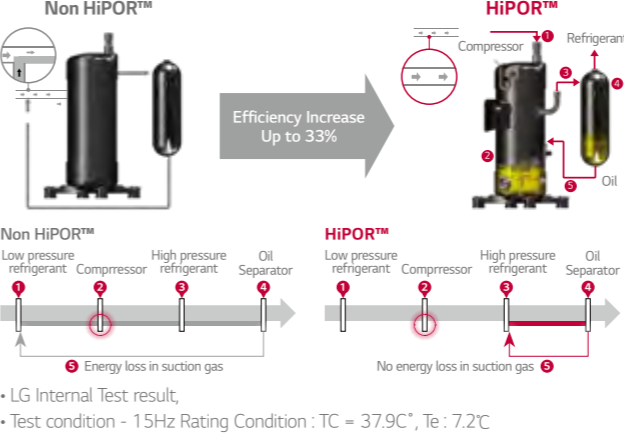
HiPOR™

Advanced compressor reliability & efficiency

HiPOR™ is an LG trademark that stands for High Pressure Oil Return. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe. This prevents energy waste when oil flows between the separator and the compressor. Because the operating pressure in the chamber containing the oil sump of the compressor and the pressure in the oil separator are nearly equal, there is no loss in compressor efficiency.

What are the benefits?

Maximizes reliability and efficiency of the compressor



Smart Oil Management

Energy saving, enhanced heating & increased compressor reliability

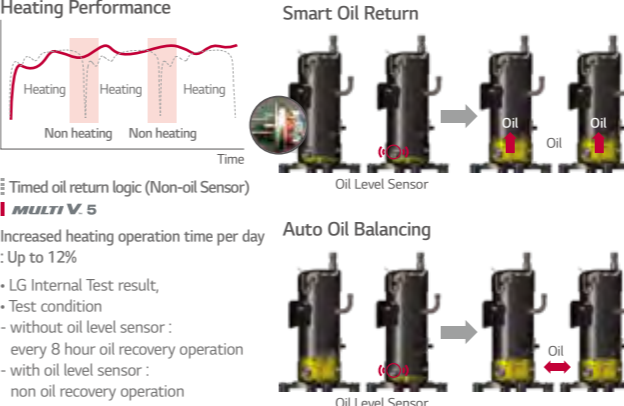
MULTI V 5 performs oil return when needed under normal operating conditions. An oil level sensor is provided in every LG VRF compressor. If the sensor indicates the compressor oil level is low, the main system processor is notified that an oil return cycle is necessary. Oil balancing cycle occurs every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

What are the benefits?

Energy savings : fewer oil return cycles eliminate unnecessary energy consumption.

Increases system heating run-time during winter operation.

Increases compressor reliability.



Sub-cooling & Vapor Injection

Increased heating performance

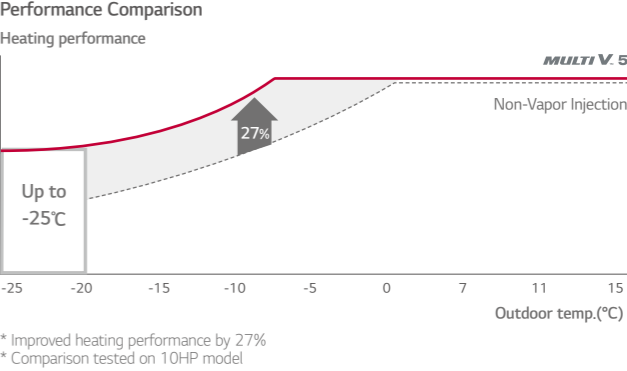
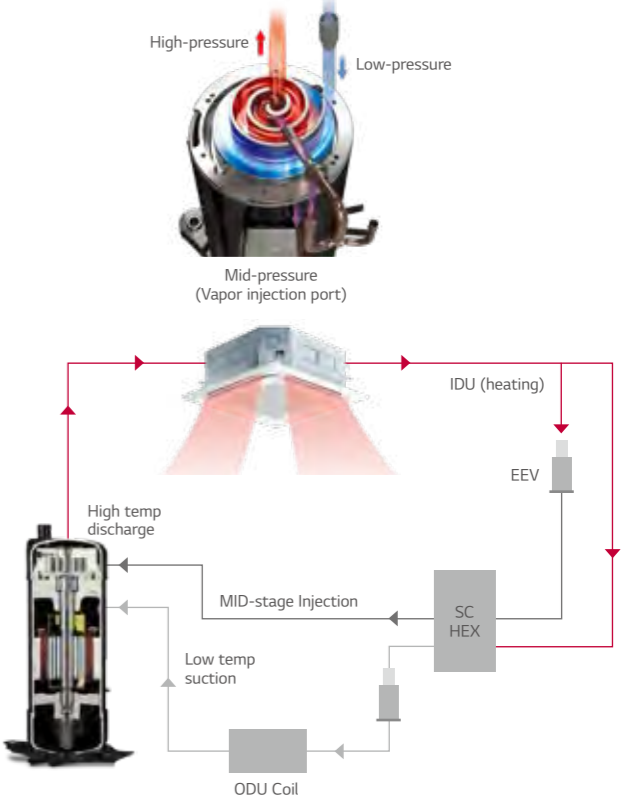
MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. During low ambient operation down to -25°C (heating mode), the sub-cooler provides medium temperature refrigerant gas to the compressor's vapor injection system. When injected into the compression chamber, system mass flow increases which stabilizes the system's suction pressure. In all cases the vapor injection increases the compressors cycle efficiency and reduces operating cost.

What are the benefits?

Provides stable refrigeration cycle operation over a wide range of outdoor ambient operating conditions.

Increases compressor efficiency when compared to systems without vapor injection technology.

Technology Mechanism



INNOVATIVE TECHNOLOGIES

Corrosion Resistance Black Fin

Improved durability

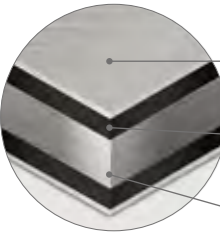
The black coating with enhanced epoxy resin is applied on the heat exchanger for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup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

What are the benefits?

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



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



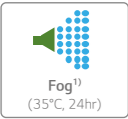
Hydrophilic film (Water flow)
The Hydrophilic coating minimizes moisture buildup on the fin.

Acryl + Epoxy + Melamine resin (Corrosion resistant)
The Black coating provides strong protection from corrosion.

Aluminum fin

SST (Salt Spray Test)

Test Process

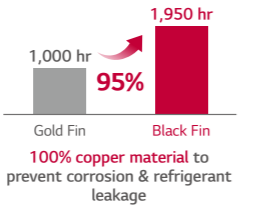


Process repeated

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

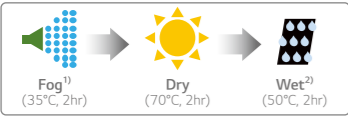
Test Result

(5% Area of defects compared to initial)



CCT (Cyclic Corrosion Test)

Test Process

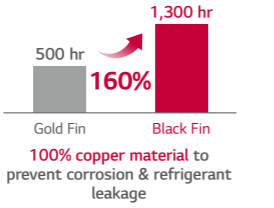


Process repeated

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

Test Result

(5% Area of defects compared to initial)



Biomimetic Fan

Maximized performance

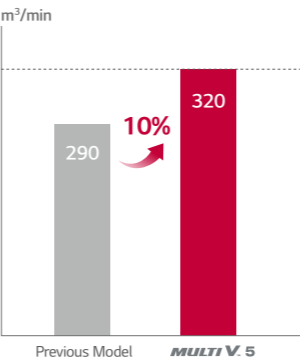
The fans in Multi V 5's outdoor unit have been upgraded to feature a moire pattern similar to that of a clam shell's exterior that help with noise reduction. At the same time, unlike the fans installed in previous products that generate separation of flow due to absence of tubercles, the bumpy back design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

What are the benefits?

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

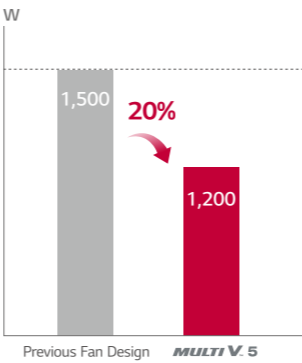


Air flow rate



* Comparison based on 20HP model

Power consumption



* Comparison based on air volume of 290m³/min

DESIGN FLEXIBILITY

One Unified Model

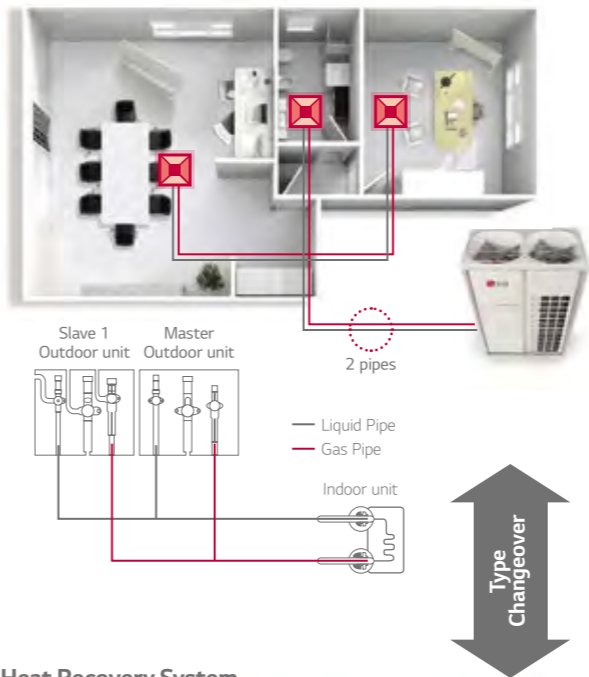
Heat pump / Heat recovery with one platform

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

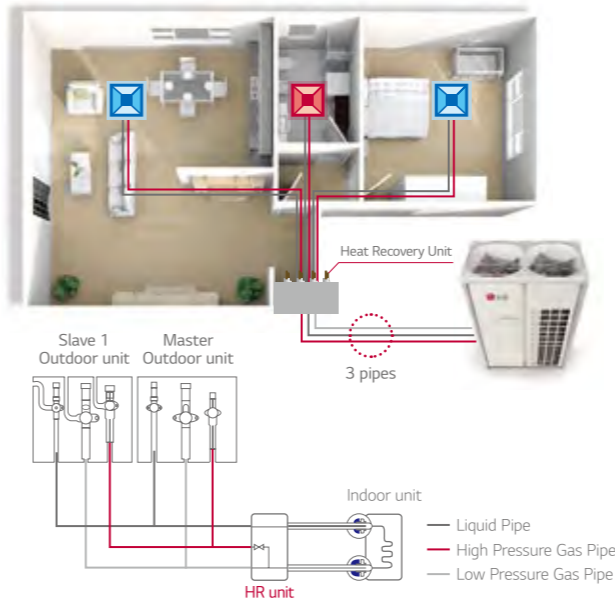
What are the benefits?

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

Heat Pump System



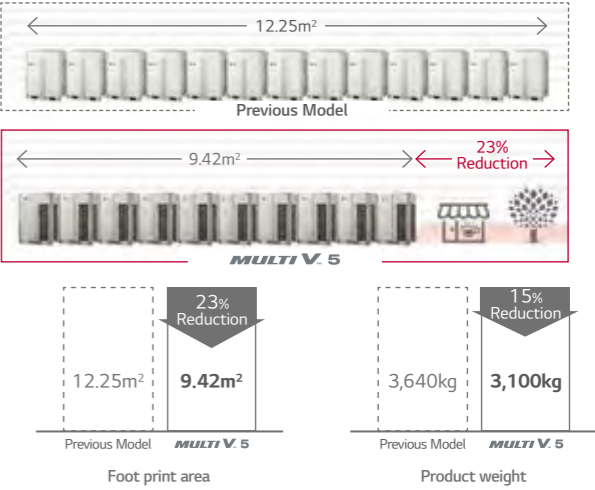
Heat Recovery System



Flexible Installation with Large Capacity Outdoor Units

More flexible design potential & Space saving

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

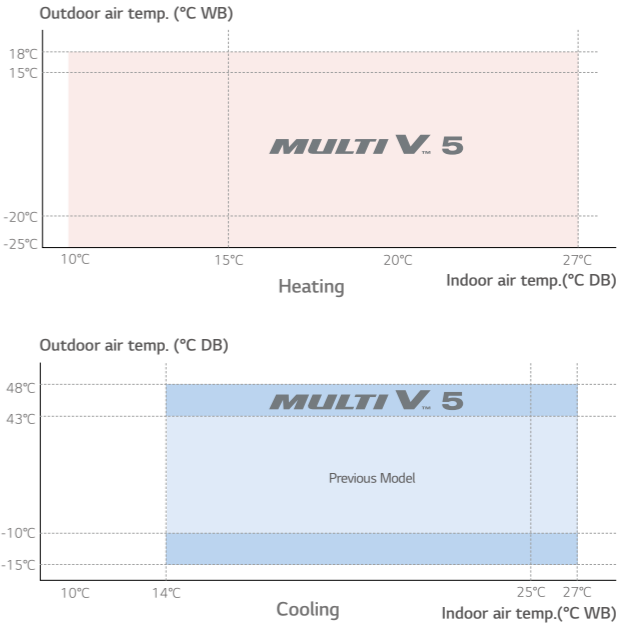


* Comparison basis : 1 Rows of outdoor units 728kW (72.8kW x 10sets) installation case

Wider Operation Range

Able to operate at extreme conditions

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



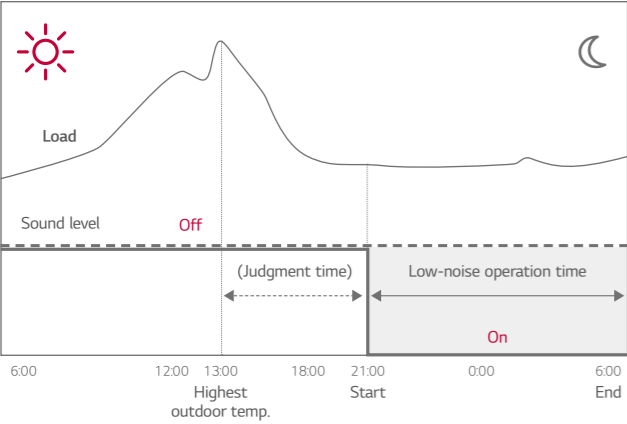
USER-FRIENDLY CONTROL

Low-Noise Operation

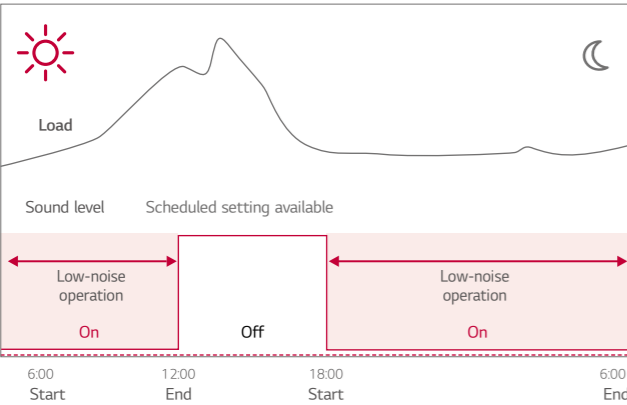
For noise sensitive environment

Unlike the previous model which enables Low-Noise Operation only during night after judgment time, the Low-Noise Operation of MULTI V 5 can function regardless of the time at the noise sensitive areas. When used, the speed of the outdoor unit fans is restricted during normal operation.

Previous Model



MULTI V 5



Indoor setting available



Simple Test Run via LGMV

Increased overall efficiency in installation

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

Previous



MULTI V 5



Wi-Fi MV Module

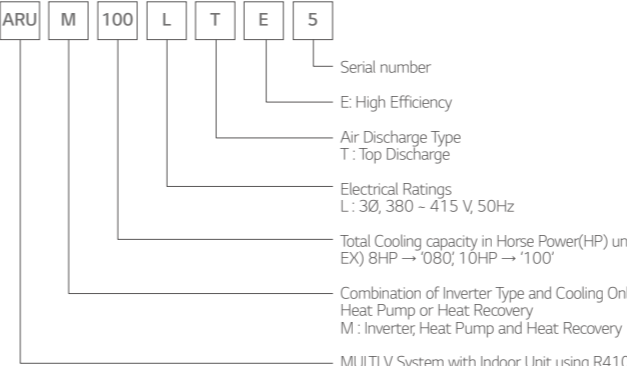


Cycle Monitoring Diagnosis Installation Smart Management

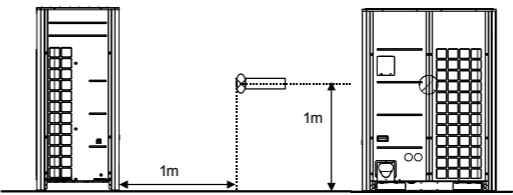
LGMV



Nomenclature



Position of Sound Pressure Level Measuring



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

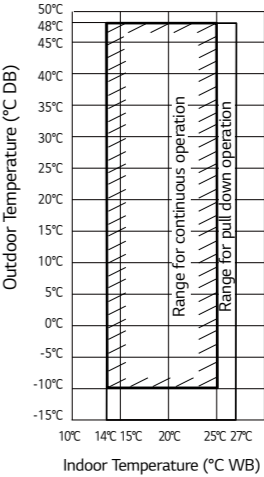
Outdoor Unit Function

| Category | Functions | MULTI V 5 |
|------------------------------------|--|------------|
| Key Refrigerant Components | Variable Path of Outdoor Unit HEX | ○ |
| | HiPOR™ (High Pressure Oil Return) | ○ |
| | Humidity Sensor | ○ |
| | Corrosion Resistance Black Fin | ○ |
| | Oil Sensor | ○ |
| Useful Function | Dual Sensing | ○ |
| | Low Noise Operation | ○ |
| | Hgh Static Mode of Outdoor Unit Fan | ○ |
| | 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 | ○ |
| | Defrost / Deicing | ○ |
| | High Pressure Switch | ○ |
| Reliability | 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 | PACS5A000 |
| | ACP (Advanced Control Platform) IV | PACP4B000 |
| | ACP (Advanced Control Platform) 5 | PACP5A000 |
| BNU (Building Network Unit) | AC Manager 5 | PACM5A000 |
| | ACP Lonworks | PLNWKB000 |
| Installation | ACP BACnet | PQNFB17C0 |
| | Refrigerant Charging Kit | PRAC1 |
| PDI (Power Distribution Indicator) | Variable Water Flow Valve Control Kit | - |
| | Standard | PPWRDB000 |
| Cool / Heat Selector | Premium | PQNUD1S40 |
| | | PRDSBM |
| Low Ambient Kit | | PRVC2 |
| IO Module (ODU Dry Contact) | | PVDSMN000 |
| Cycle Monitoring Device | LGMV | PRCTILO |
| | Mobile LGMV | PLGMVW100 |

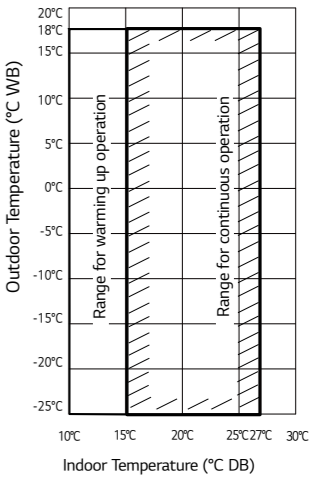
※ ○ : Applied, - : Not Applied

Cooling / Heating Operation

Cooling



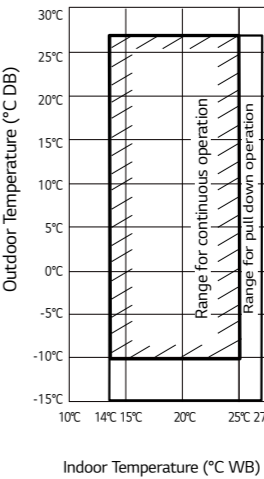
Heating



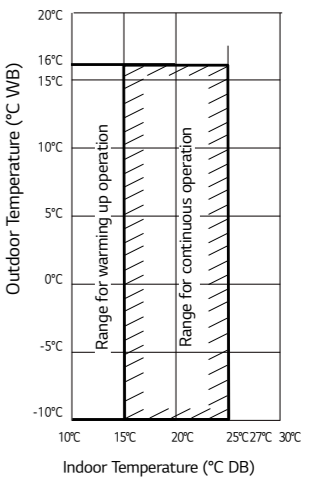
- Note
1. These figures assume the following operating conditions:
Equivalent piping length : 7.5m
Level difference : 0m
 2. Range of pull down operation :
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
 3. Warming up operation means that the outdoor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

Simultaneous Cooling / Heating Operation

Cooling



Heating

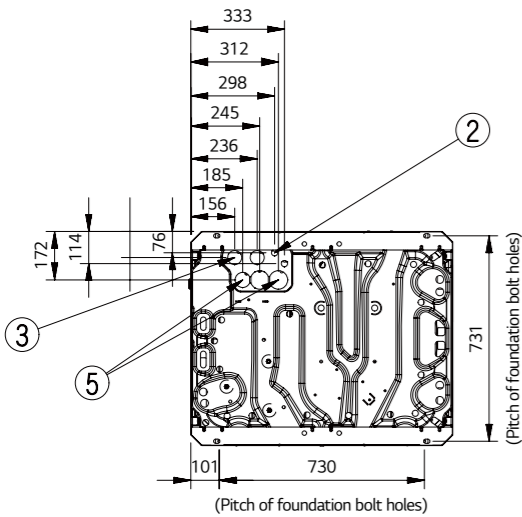
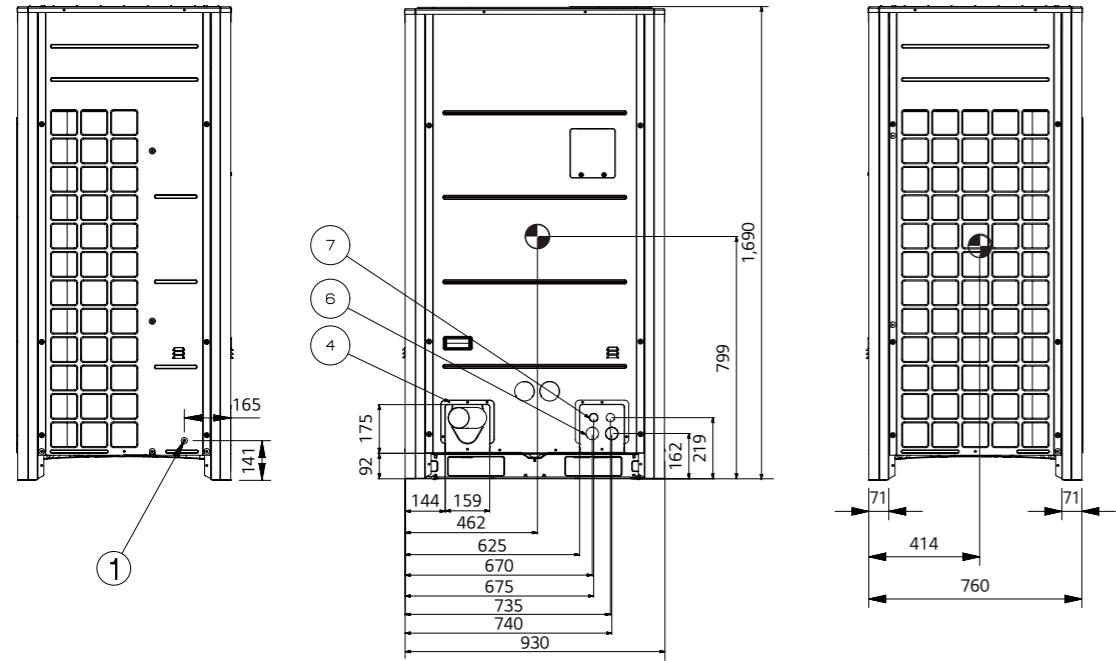
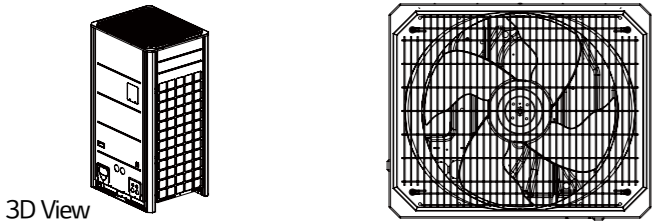


- Note
1. These figures assume the following operating conditions:
Equivalent piping length : 7.5m
Level difference : 0m
 2. Range of pull down operation :
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.

ARUM080LTE5 / ARUM100LTE5 / ARUM120LTE5

[Unit : mm]

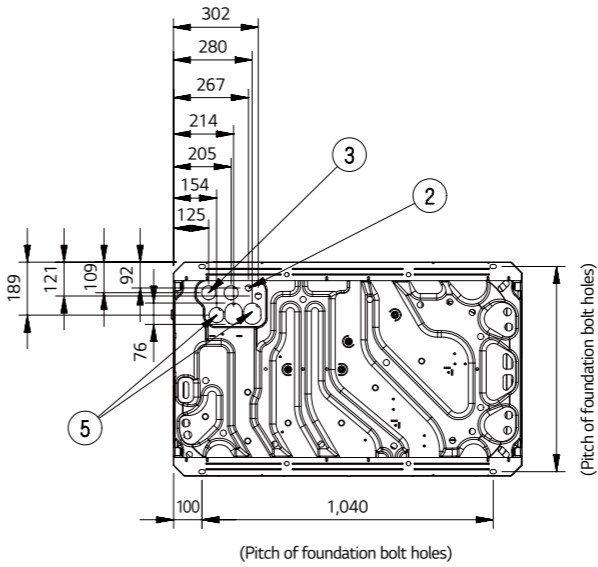
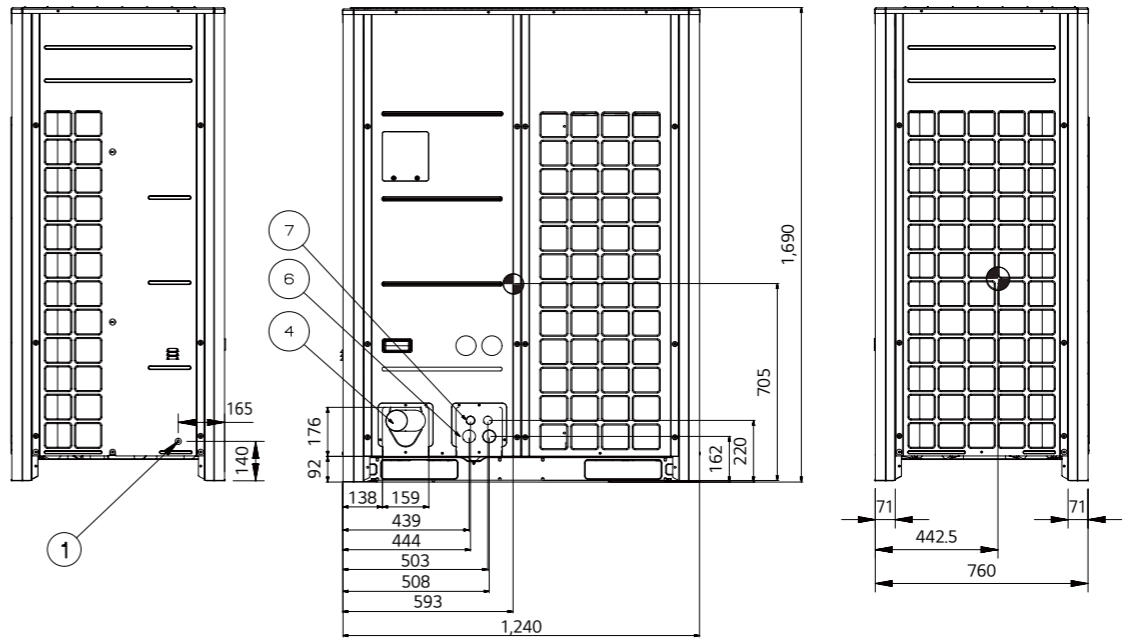
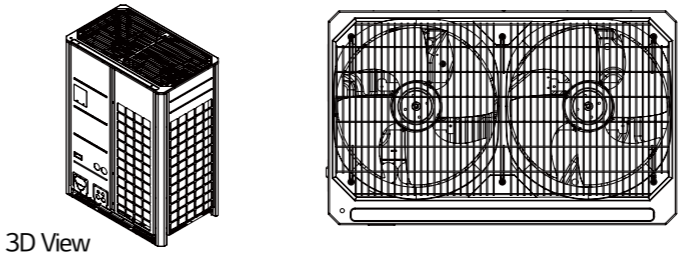
| No. | Part Name | Description |
|-----|----------------------------------|-----------------|
| 1 | Leakage test hole (side) | Ø 22.2 |
| 2 | Wire routing hole (bottom) | 2-Ø 22.2 |
| 3 | Power cord routing hole (bottom) | 2-Ø 50 |
| 4 | Pipe routing hole (front) | - |
| 5 | Pipe routing hole (bottom) | 2-Ø 66, Ø 53.88 |
| 6 | Power cord routing hole (front) | 2-Ø 45 |
| 7 | Wire routing hole (front) | 2-Ø 30 |



ARUM140LTE5 / ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5
ARUM220LTE5 / ARUM240LTE5 / ARUM260LTE5

[Unit : mm]

| No. | Part Name | Description |
|-----|----------------------------------|-----------------|
| 1 | Leakage test hole (side) | Ø 22.2 |
| 2 | Wire routing hole (bottom) | 2-Ø 22.2 |
| 3 | Power cord routing hole (bottom) | 2-Ø 50 |
| 4 | Pipe routing hole (front) | - |
| 5 | Pipe routing hole (bottom) | 2-Ø 66, Ø 53.88 |
| 6 | Power cord routing hole (front) | 2-Ø 45 |
| 7 | Wire routing hole (front) | 2-Ø 30 |



MULTI V 5 Q&A

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

A1

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

※ ○ : Applied, - : Not Applied

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

A2

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

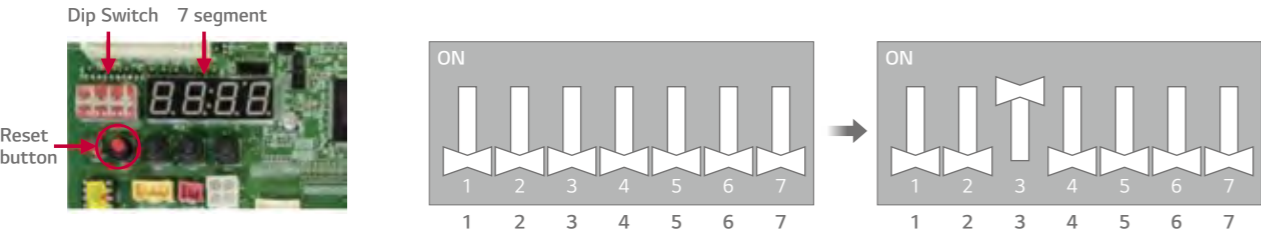
| ODU | IDU | Compatibility | ODU DIP Switch No. 3 | If dip switch setting is not correct | Ref. |
|-------------------------|-----------------|---------------|---------------------------------------|--|---|
| MULTI V IV MULTI V 5 | Gen. 2 (ARNU*2) | ○ | Must be OFF (factory default) | Can not communicate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

※ ○ : Applied, - : Not Applied

ODU dip switch setting procedure (No.3)

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

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



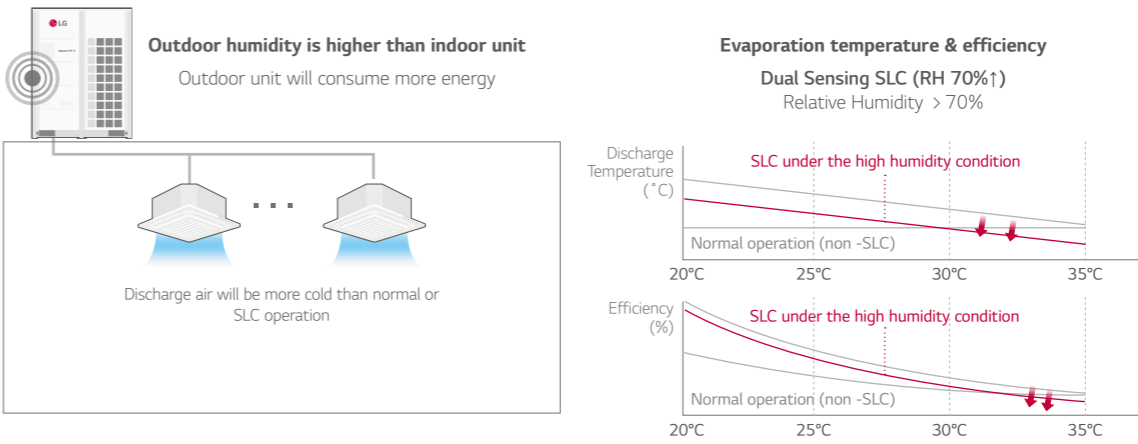
MULTI V 5 Q&A

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

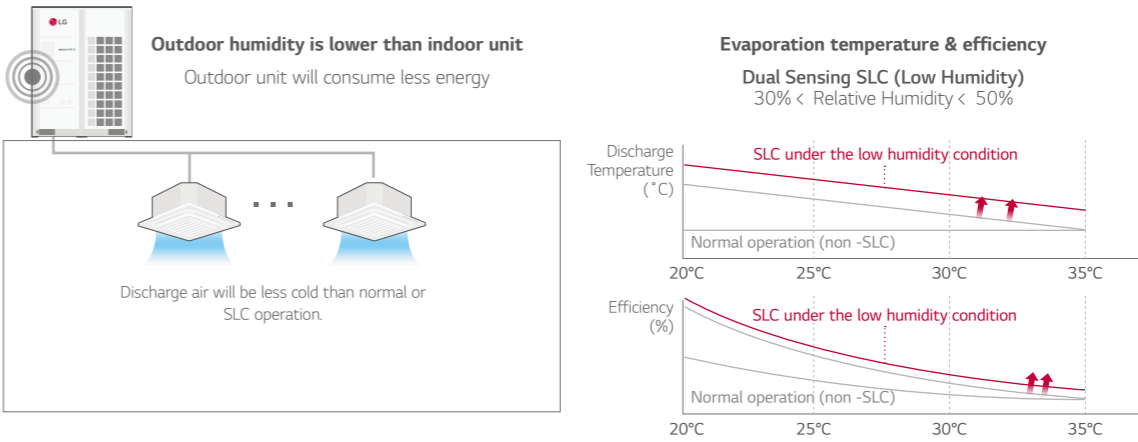
A3

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

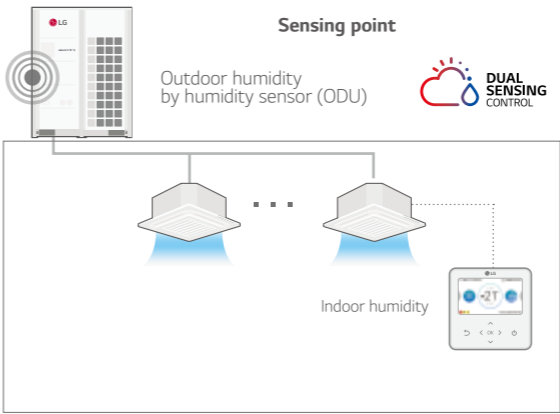
- When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but more efficiency than normal operation



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



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



SLC Setting

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

DIP-SW01
7-Segment
SW04C (X: cancel)
SW03C (▶: forward)
SW02C (◀: backward)
SW01C (●: Confirm/Automatic Addressing)
SW01D (reset)

Setting summary
DIP-SW01 #5 On
Func > Fn14 > Off, op1 ~ op3

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

Function
Comfort Cooling
ODU Refrigerant Noise Reduction
Defrost Mode
Smart Load Control

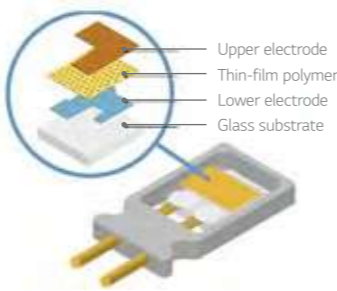
Setting summary
Function? Smart Load Control
Off, op1 ~ op3

※ User can turn off humidity control in ODU Setting (humidity reference)
<Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

Q4 What is the principle and accuracy of humidity sensor?

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

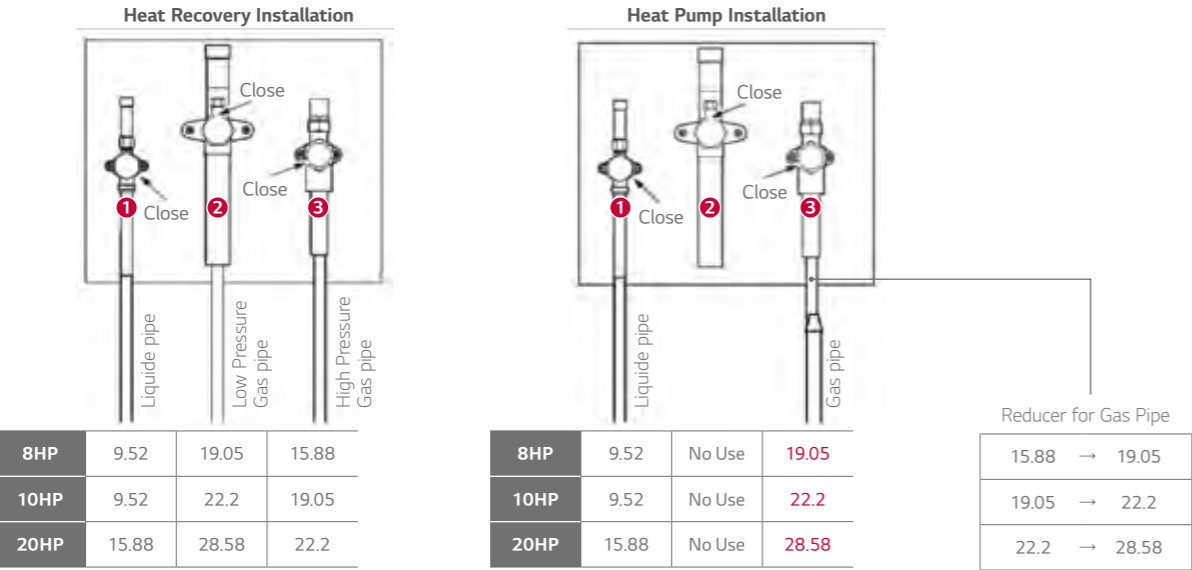
The capacitive measurement principle established and proved itself as a standard in the past. For this principle, the sensor element is built out of a capacitor. The dielectric is a polymer which absorbs or releases water proportional to the relative environmental humidity, and thus changes the capacitance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



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

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

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



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

MULTI V 5 Q&A

Other Questions

| Item | Question | Answer |
|-------------------|--|---|
| Fan | The static pressure of MULTI V 5 is Max. 8 mmAq as MULTI V IV?? | Yes, the static pressure of MULTI V 5 is the same as MULTI V IV. |
| Compressor | Is the limitation of Compressor max. Hz applied by the capacity of outdoor unit? | No, the limitation of comp Hz is not applied for default. But, it can be set by option for limitation of max Hz (or current). |
| 4Way V/V | The usage of main & sub 4 way valve for MULTI V 5 ? | MULTI V 5 has the function of both H/P and H/R by one unit. Main valve has a function to change the operation mode. (cooling ↔ heating) Sub. Valve has a functions to change the product type (H/P ↔ H/R) |
| VI | In case of vapor injection, how much is the middle pressure? | The optimal middle pressure for vapor injection is 1.2 P _s . P _s : Suction pressure of compressor |
| VI | By how much is heating capacity increased by vapor injection? | Generally, the heating capacity is increased up to 15 ~ 20%. |
| Humidity Sensor | Where is Indoor Humidity sensor? | It is placed inside of the RS3 remote controller. |
| Remote Controller | Does remote controller show the humidity information (status) as well? | Yes. It shows the current humidity information on screen. (for RS3 Only) But has no function to control the humidity |
| Remote Controller | Is it possible to connect the local humidity sensor with Remote controller (RS3)? | No. All of RS3 remote controller can not be connected with local humidity sensor. |
| SLC | Does dual sensing SLC function control the humidity ratio? | No. There is no control of humidity ratio. |
| SLC | Is SLC fully used on Eurovent? Isn't humidity fixed for the test? What about AHRI? | Eurovent (RH 47%) and AHRI (RH 51%) have fixed humidity test condition. |
| Comfort Cooling | Why is not the comfort heating applied in product? | Comfort cooling need super heating controlled and Comfort heating need sub cooling controlled. In case of controlling EEV for sub cooling, noise and stable operation may be affected and critical. |
| Installation | Does the IDU – Central controller direct connection for communication cable is possible? (Flat connection) | No, it is not possible. |

MULTI V 5

ARUM080LTE5 / ARUM100LTE5
ARUM120LTE5 / ARUM140LTE5



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| HP | | | 8 | 10 | 12 | 14 |
|--|------------------------------|---------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Model Name | Combination Unit | | ARUM080LTE5 | ARUM100LTE5 | ARUM120LTE5 | ARUM140LTE5 |
| | Independent Unit | | ARUM080LTE5 | ARUM100LTE5 | ARUM120LTE5 | ARUM140LTE5 |
| Capacity | Cooling (Rated) | kW | 22.4 | 28.0 | 33.6 | 39.2 |
| | Heating (Rated) | kW | 22.4 | 28.0 | 33.6 | 39.2 |
| | Heating (Max) | kW | 25.2 | 31.5 | 37.8 | 44.1 |
| Input | Cooling (Rated) | kW | 4.49 | 5.80 | 7.58 | 8.68 |
| | Heating (Rated) | kW | 3.97 | 4.92 | 6.85 | 8.13 |
| | Heating (Max) | kW | 4.78 | 5.92 | 8.26 | 9.72 |
| EER | | | 4.99 | 4.83 | 4.43 | 4.52 |
| SEER | | | 10.1 | 9.7 | 9.59 | 8.89 |
| COP | Rated Capacity | | 5.64 | 5.69 | 4.91 | 4.82 |
| | Max. Capacity | | 5.27 | 5.32 | 4.58 | 4.54 |
| SCOP | | | 4.69 | 4.51 | 5.01 | 4.63 |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 1 | (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 | 5,300 x 1 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 3,900 | 3,900 | 3,900 | 3,900 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | 1,200 x 1 | 1,200 x 1 | 1,200 x 1 | 900 x 2 |
| | Air Flow Rate (High) | m³/minxNo. | 240 x 1 | 240 x 1 | 240 x 1 | 320 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 12.7 (1/2) | Ø 12.7 (1/2) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 22.2 (7/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 22.2 (7/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 12.7 (1/2) | Ø 12.7 (1/2) |
| | Gas Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 22.2 (7/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| Dimensions (W x H x D) | | mm x No. | (930 x 1,690 x 760) x 1 | (930 x 1,690 x 760) x 1 | (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (960 x 1,825 x 796) x 1 | (960 x 1,825 x 796) x 1 | (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 |
| Net Weight | | kg x No. | 198 x 1 | 215 x 1 | 215 x 1 | 237 x 1 |
| Shipping Weight | | kg x No. | 208 x 1 | 225 x 1 | 225 x 1 | 250 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 58.0 | 58.0 | 59.0 | 60.0 |
| | Heating | dB(A) | 59.0 | 59.0 | 60.0 | 61.0 |
| Sound Power Level | Cooling | dB(A) | 84.0 | 85.0 | 86.0 | 89.0 |
| | Heating | dB(A) | 87.0 | 88.0 | 89.0 | 93.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 7.5 | 9.5 | 9.5 | 13.5 |
| | t-CO ₂ eq. | | 15.7 | 19.8 | 19.8 | 28.2 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 13 (20) | 16 (25) | 20 (30) | 23 (35) |



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%.

MULTI V 5

ARUM160LTE5 / ARUM180LTE5
ARUM200LTE5 / ARUM220LTE5



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| HP | | | 16 | 18 | 20 | 22 |
|--|------------------------------|------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Model Name | Combination Unit | | ARUM160LTE5 | ARUM180LTE5 | ARUM200LTE5 | ARUM220LTE5 |
| | Independent Unit | | ARUM160LTE5 | ARUM180LTE5 | ARUM200LTE5 | ARUM220LTE5 |
| Capacity | Cooling (Rated) | kW | 44.8 | 50.4 | 56.0 | 61.6 |
| | Heating (Rated) | kW | 44.8 | 50.4 | 56.0 | 61.6 |
| | Heating (Max) | kW | 50.4 | 56.7 | 63.0 | 69.3 |
| Input | Cooling (Rated) | kW | 10.89 | 10.91 | 12.77 | 15.70 |
| | Heating (Rated) | kW | 10.28 | 10.12 | 12.20 | 14.15 |
| | Heating (Max) | kW | 12.39 | 11.94 | 14.69 | 16.76 |
| EER | | | 4.11 | 4.62 | 4.39 | 3.92 |
| SEER | | | 8.38 | 8.23 | 8.05 | 7.51 |
| COP | Rated Capacity | | 4.36 | 4.98 | 4.59 | 4.35 |
| | Max. Capacity | | 4.07 | 4.75 | 4.29 | 4.13 |
| SCOP | | | 4.83 | 4.0 | 3.98 | 3.9 |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 1 | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 2 |
| | Motor Output x Number | W x No. | 5,300 x 1 | (5,300 x 1) + (4,200 x 1) | (5,300 x 1) + (4,200 x 1) | (5,300 x 1) + (4,200 x 1) |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 3,900 | 5,200 | 5,200 | 5,200 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | 900 x 2 | 900 x 2 | 900 x 2 | 900 x 2 |
| | Air Flow Rate (High) | m³/minxNo. | 320 x 1 | 320 x 1 | 320 x 1 | 320 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 12.7 (1/2) | Ø 15.88 (5/8) | Ø 15.88 (5/8) | Ø 15.88 (5/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 28.58 (1-1/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 12.7 (1/2) | Ø 15.88 (5/8) | Ø 15.88 (5/8) | Ø 15.88 (5/8) |
| | Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| Dimensions (W x H x D) | mm x No. | | (1,240 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 |
| Dimensions (W x H x D) - Shipping | mm x No. | | (1,280 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 |
| Net Weight | kg x No. | | 237 x 1 | 300 x 1 | 300 x 1 | 300 x 1 |
| Shipping Weight | kg x No. | | 250 x 1 | 312 x 1 | 312 x 1 | 312 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 60.5 | 61.0 | 62.0 | 64.5 |
| | Heating | dB(A) | 61.5 | 62.0 | 64.5 | 65.5 |
| Sound Power Level | Cooling | dB(A) | 90.0 | 92.0 | 93.0 | 93.0 |
| | Heating | dB(A) | 94.0 | 95.0 | 96.0 | 97.0 |
| Communication Cable | mm² x No. (VCTF-SB) | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 13.5 | 16.0 | 16.0 | 16.0 |
| | t-CO ₂ eq. | | 28.2 | 33.4 | 33.4 | 33.4 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | Ø, V, Hz | | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 26 (40) | 29 (45) | 32 (50) | 35 (56) |



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

MULTI V 5

ARUM240LTE5 / ARUM260LTE5
ARUM221LTE5 / ARUM241LTE5



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| HP | | | 24 | 26 | 22' | 24' |
|--|------------------------------|---------------------|------------------------------|------------------------------|---|---|
| Model Name | Combination Unit | | ARUM240LTE5 | ARUM260LTE5 | ARUM221LTE5 | ARUM241LTE5 |
| | Independent Unit | | ARUM240LTE5 | ARUM260LTE5 | ARUM120LTE5 ARUM100LTE5 | ARUM120LTE5 ARUM120LTE5 |
| Capacity | Cooling (Rated) | kW | 67.2 | 72.8 | 61.6 | 67.2 |
| | Heating (Rated) | kW | 67.2 | 67.2 | 61.6 | 67.2 |
| | Heating (Max) | kW | 74.3 | 74.3 | 69.3 | 75.6 |
| Input | Cooling (Rated) | kW | 17.40 | 20.20 | 13.38 | 15.16 |
| | Heating (Rated) | kW | 15.89 | 15.99 | 11.77 | 13.70 |
| | Heating (Max) | kW | 18.80 | 19.15 | 14.18 | 16.52 |
| EER | | | 3.86 | 3.60 | 4.60 | 4.43 |
| SEER | | | 7.88 | 7.55 | - | - |
| COP | Rated Capacity | | 4.23 | 4.20 | 5.23 | 4.91 |
| | Max. Capacity | | 3.95 | 3.88 | 4.89 | 4.58 |
| SCOP | | | 4.34 | 4.34 | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 2 | (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 | 5,300 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 5,200 | 5,200 | 7,800 | 7,800 |
| | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| Fan | Motor Output x Number | W x No. | 900 x 2 | 900 x 2 | (1,200 x 1) + (1,200 x 1) | (1,200 x 1) + (1,200 x 1) |
| | Air Flow Rate (High) | m³/min x No. | 320 x 1 | 320 x 1 | (240 x 1) + (240 x 1) | (240 x 1) + (240 x 1) |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 19.05 (3/4) | Ø 15.88 (5/8) | Ø 15.88 (5/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 28.58 (1-1/8) | Ø 34.9 (1-3/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 19.05 (3/4) | Ø 15.88 (5/8) | Ø 15.88 (5/8) |
| | Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 28.58 (1-1/8) | Ø 34.9 (1-3/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 | (930 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (930 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 | (960 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (960 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 |
| Net Weight | | kg x No. | 310 x 1 | 310 x 1 | (215 x 1) + (215 x 1) | (215 x 1) + (215 x 1) |
| Shipping Weight | | kg x No. | 320 x 1 | 320 x 1 | (225 x 1) + (225 x 1) | (225 x 1) + (225 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 65.0 | 65.0 | 61.5 | 62.0 |
| | Heating | dB(A) | 67.0 | 67.0 | 62.5 | 63.0 |
| Sound Power Level | Cooling | dB(A) | 95.0 | 95.0 | 88.5 | 89.0 |
| | Heating | dB(A) | 99.0 | 99.0 | 91.5 | 92.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 17.0 | 17.0 | 19.0 | 19.0 |
| | t-CO ₂ eq. | | 35.5 | 35.5 | 39.7 | 39.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 39 (61) | 42 (64) | 35 (44) | 39 (48) |

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%.

MULTI V 5

ARUM261LTE5 / ARUM280LTE5
ARUM300LTE5 / ARUM320LTE5



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



| HP | | | 26' | 28 | 30 | 32 |
|--|------------------------------|---------------------|---|---|---|---|
| Model Name | Combination Unit | | ARUM261LTE5 | ARUM280LTE5 | ARUM300LTE5 | ARUM320LTE5 |
| | Independent Unit | | ARUM140LTE5 ARUM120LTE5 | ARUM160LTE5 ARUM120LTE5 | ARUM180LTE5 ARUM120LTE5 | ARUM200LTE5 ARUM120LTE5 |
| Capacity | Cooling (Rated) | kW | 72.8 | 78.4 | 84.0 | 89.6 |
| | Heating (Rated) | kW | 72.8 | 78.4 | 84.0 | 89.6 |
| | Heating (Max) | kW | 81.9 | 88.2 | 94.5 | 100.8 |
| Input | Cooling (Rated) | kW | 16.26 | 18.47 | 18.49 | 20.35 |
| | Heating (Rated) | kW | 14.98 | 17.13 | 16.97 | 19.05 |
| | Heating (Max) | kW | 17.98 | 20.65 | 20.20 | 22.95 |
| EER | | | 4.48 | 4.24 | 4.54 | 4.40 |
| SEER | | | - | - | - | - |
| COP | Rated Capacity | | 4.86 | 4.58 | 4.95 | 4.70 |
| | Max. Capacity | | 4.56 | 4.27 | 4.68 | 4.39 |
| SCOP | | | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 2 | 5,300 x 2 | (5,300 x 2) + (4,200 x 1) | (5,300 x 2) + (4,200 x 1) |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 7,800 | 7,800 | 9,100 | 9,100 |
| | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| Fan | Motor Output x Number | W x No. | (900 x 2) + (1,200 x 1) | (900 x 2) + (1,200 x 1) | (900 x 2) + (1,200 x 1) | (900 x 2) + (1,200 x 1) |
| | Air Flow Rate (High) | m³/min x No. | (320 x 1) + (240 x 1) | (320 x 1) + (240 x 1) | (320 x 1) + (240 x 1) | (320 x 1) + (240 x 1) |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 |
| Net Weight | | kg x No. | (237 x 1) + (215 x 1) | (237 x 1) + (215 x 1) | (300 x 1) + (215 x 1) | (300 x 1) + (215 x 1) |
| Shipping Weight | | kg x No. | (250 x 1) + (225 x 1) | (250 x 1) + (225 x 1) | (312 x 1) + (225 x 1) | (312 x 1) + (225 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 62.5 | 62.8 | 63.1 | 63.8 |
| | Heating | dB(A) | 63.5 | 63.8 | 64.1 | 65.8 |
| Sound Power Level | Cooling | dB(A) | 90.8 | 91.5 | 93.0 | 93.8 |
| | Heating | dB(A) | 94.5 | 95.2 | 96.0 | 96.8 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 23.0 | 23.0 | 25.5 | 25.5 |
| | t-CO ₂ eq. | | 48.0 | 48.0 | 53.2 | 53.2 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 42 (52) | 45 (56) | 49 (60) | 52 (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%.

MULTI V 5

ARUM340LTE5 / ARUM360LTE5
ARUM380LTE5 / ARUM400LTE5



| HP | | | 34 | 36 | 38 | 40 |
|--|------------------------------|---------------------|---|---|------------------------------|------------------------------|
| Model Name | Combination Unit | | ARUM340LTE5 | ARUM360LTE5 | ARUM380LTE5 | ARUM400LTE5 |
| | Independent Unit | | ARUM220LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM140LTE5 | ARUM240LTE5 ARUM160LTE5 |
| Capacity | Cooling (Rated) | kW | 95.2 | 100.8 | 106.4 | 112.0 |
| | Heating (Rated) | kW | 95.2 | 100.8 | 106.4 | 112.0 |
| | Heating (Max) | kW | 107.1 | 112.1 | 118.4 | 124.7 |
| Input | Cooling (Rated) | kW | 23.28 | 24.98 | 26.08 | 28.29 |
| | Heating (Rated) | kW | 21.00 | 22.74 | 24.02 | 26.17 |
| | Heating (Max) | kW | 25.02 | 27.06 | 28.52 | 31.19 |
| EER | | | 4.09 | 4.04 | 4.08 | 3.96 |
| SEER | | | - | - | - | - |
| COP | Rated Capacity | | 4.53 | 4.43 | 4.43 | 4.28 |
| | Max. Capacity | | 4.28 | 4.14 | 4.15 | 4.00 |
| SCOP | | | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | (5,300 x 2) + (4,200 x 1) | 5,300 x 3 | 5,300 x 3 | 5,300 x 3 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 9,100 | 9,100 | 9,100 | 9,100 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | (900 x 2) + (1,200 x 1) | (900 x 2) + (1,200 x 1) | 900 x 4 | 900 x 4 |
| | Air Flow Rate (High) | m³/min x No. | (320 x 1) + (240 x 1) | (320 x 1) + (240 x 1) | 320 x 2 | 320 x 2 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1 | (1,240 x1,690 x 760) x 2 | (1,240 x1,690 x 760) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 2 | (1,280 x 1,825 x 796) x 2 |
| Net Weight | | kg x No. | (300 x 1) + (215 x 1) | (310 x 1) + (215 x 1) | (310 x 1) + (237 x 1) | (310 x 1) + (237 x 1) |
| Shipping Weight | | kg x No. | (312 x 1) + (225 x 1) | (320 x 1) + (225 x 1) | (320 x 1) + (250 x 1) | (320 x 1) + (250 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 65.6 | 66.0 | 66.2 | 66.3 |
| | Heating | dB(A) | 66.6 | 67.8 | 68.0 | 68.1 |
| Sound Power Level | Cooling | dB(A) | 93.8 | 95.5 | 96.0 | 96.2 |
| | Heating | dB(A) | 97.6 | 99.4 | 100.0 | 100.2 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 25.5 | 26.5 | 30.5 | 30.5 |
| | t-CO ₂ eq. | | 53.2 | 55.3 | 63.7 | 63.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 55 (64) | 58 (64) | 61 (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%.

MULTI V 5

ARUM420LTE5 / ARUM440LTE5
ARUM460LTE5 / ARUM480LTE5



| HP | | | 42 | 44 | 46 | 48 |
|--|------------------------------|---------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Model Name | Combination Unit | | ARUM420LTE5 | ARUM440LTE5 | ARUM460LTE5 | ARUM480LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM180LTE5 | ARUM240LTE5 ARUM200LTE5 | ARUM240LTE5 ARUM220LTE5 | ARUM240LTE5 ARUM240LTE5 |
| Capacity | Cooling (Rated) | kW | 117.6 | 123.2 | 128.8 | 134.4 |
| | Heating (Rated) | kW | 117.6 | 123.2 | 128.8 | 134.4 |
| | Heating (Max) | kW | 131.0 | 137.3 | 143.6 | 148.5 |
| Input | Cooling (Rated) | kW | 28.31 | 30.17 | 33.10 | 34.80 |
| | Heating (Rated) | kW | 26.01 | 28.09 | 30.04 | 31.78 |
| | Heating (Max) | kW | 30.74 | 33.48 | 35.56 | 37.60 |
| EER | | | 4.15 | 4.08 | 3.89 | 3.86 |
| SEER | | | - | - | - | - |
| COP | Rated Capacity | | 4.52 | 4.39 | 4.29 | 4.23 |
| | Max. Capacity | | 4.26 | 4.10 | 4.04 | 3.95 |
| SCOP | | | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 |
| | Motor Output x Number | W x No. | (5,300 x 3) + (4,200 x 1) | (5,300 x 3) + (4,200 x 1) | (5,300 x 3) + (4,200 x 1) | 5,300 x 4 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Fan | Oil Charge | cc | 10,400 | 10,400 | 10,400 | 10,400 |
| | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | 900 x 4 | 900 x 4 | 900 x 4 | 900 x 4 |
| | Air Flow Rate (High) | m³/minxNo. | 320 x 2 | 320 x 2 | 320 x 2 | 320 x 2 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| Pipe Connections for Heat Recovery | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x1,690 x 760) x 2 | (1,240 x1,690 x 760) x 2 | (1,240 x1,690 x 760) x 2 | (1,240 x1,690 x 760) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 2 | (1,280 x 1,825 x 796) x 2 | (1,280 x 1,825 x 796) x 2 | (1,280 x 1,825 x 796) x 2 |
| Net Weight | | kg x No. | (310 x 1) + (300 x 1) | (310 x 1) + (300 x 1) | (310 x 1) + (300 x 1) | 310 x 2 |
| Shipping Weight | | kg x No. | (320 x 1) + (312 x 1) | (320 x 1) + (312 x 1) | (320 x 1) + (312 x 1) | 320 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 66.5 | 66.8 | 67.8 | 68.0 |
| | Heating | dB(A) | 68.2 | 68.9 | 69.3 | 70.0 |
| Sound Power Level | Cooling | dB(A) | 96.8 | 97.1 | 97.1 | 98.0 |
| | Heating | dB(A) | 100.5 | 100.8 | 101.1 | 102.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 33.0 | 33.0 | 33.0 | 34.0 |
| | t-CO ₂ eq. | | 68.9 | 68.9 | 68.9 | 71.0 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 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%.

MULTI V 5

ARUM500LTE5 / ARUM520LTE5
ARUM540LTE5 / ARUM560LTE5



| HP | | | 50 | 52 | 54 | 56 |
|--|------------------------------|---------------------|---|---|---|---|
| Model Name | Combination Unit | | ARUM500LTE5 | ARUM520LTE5 | ARUM540LTE5 | ARUM560LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM140LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM160LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM180LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM200LTE5 ARUM120LTE5 |
| Capacity | Cooling (Rated) | kW | 140 | 145.6 | 151.2 | 156.8 |
| | Heating (Rated) | kW | 140 | 145.6 | 151.2 | 156.8 |
| | Heating (Max) | kW | 156.2 | 162.5 | 168.8 | 175.1 |
| Input | Cooling (Rated) | kW | 33.66 | 35.87 | 35.89 | 37.75 |
| | Heating (Rated) | kW | 30.87 | 33.02 | 32.86 | 34.94 |
| | Heating (Max) | kW | 36.78 | 39.45 | 39 | 41.74 |
| EER | | | 4.16 | 4.06 | 4.21 | 4.15 |
| SEER | | | - | - | - | - |
| COP | Rated Capacity | | 4.54 | 4.41 | 4.6 | 4.49 |
| | Max. Capacity | | 4.25 | 4.12 | 4.33 | 4.19 |
| SCOP | | | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 5 | (Inverter) x 5 |
| | Motor Output x Number | W x No. | 5,300 x 4 | 5,300 x 4 | (5,300 x 4) + (4,200 x 1) | (5,300 x 4) + (4,200 x 1) |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | | cc | 13,000 | 14,300 | 14,300 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | (900 x 4) + (1,200 x 1) | (900 x 4) + (1,200 x 1) | (900 x 4) + (1,200 x 1) | (900 x 4) + (1,200 x 1) |
| | Air Flow Rate (High) | | m³/minxNo. | (320 x 2) + (240 x 1) | (320 x 2) + (240 x 1) | (320 x 2) + (240 x 1) |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Pipe Connections for Heat Pump | Liquid Pipe | | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 | (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 |
| Net Weight | | kg x No. | (310 x 1) + (237 x 1) + (215 x 1) | (310 x 1) + (237 x 1) + (215 x 1) | (310 x 1) + (300 x 1) + (215 x 1) | (310 x 1) + (300 x 1) + (215 x 1) |
| Shipping Weight | | kg x No. | (320 x 1) + (250 x 1) + (225 x 1) | (320 x 1) + (250 x 1) + (225 x 1) | (320 x 1) + (312 x 1) + (225 x 1) | (320 x 1) + (312 x 1) + (225 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 67 | 67.1 | 67.2 | 67.4 |
| | Heating | dB(A) | 68.6 | 68.7 | 68.8 | 69.5 |
| Sound Power Level | Cooling | dB(A) | 96.4 | 96.6 | 97.1 | 97.4 |
| | Heating | dB(A) | 100.3 | 100.5 | 100.8 | 101 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | | kg | 40 | 42.5 | 42.5 |
| | t-CO ₂ eq. | | | 83.5 | 88.7 | 88.7 |
| | Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 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%.

MULTI V 5

ARUM580LTE5 / ARUM600LTE5
ARUM620LTE5 / ARUM640LTE5
ARUM660LTE5



| HP | | | 58 | 60 | 62 | 64 | 66 |
|--|------------------------------|---------------------|--|--|---|---|---|
| Model Name | Combination Unit | | ARUM580LTE5 | ARUM600LTE5 | ARUM620LTE5 | ARUM640LTE5 | ARUM660LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM220LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM140LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM160LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM180LTE5 |
| Capacity | Cooling (Rated) | kW | 162.4 | 168.0 | 173.6 | 179.2 | 184.8 |
| | Heating (Rated) | kW | 162.4 | 168.0 | 173.6 | 179.2 | 184.8 |
| | Heating (Max) | kW | 181.4 | 186.3 | 192.6 | 198.9 | 205.2 |
| Input | Cooling (Rated) | kW | 40.68 | 42.38 | 43.48 | 45.69 | 45.71 |
| | Heating (Rated) | kW | 36.89 | 38.63 | 39.91 | 42.06 | 41.90 |
| | Heating (Max) | kW | 43.82 | 45.86 | 47.32 | 49.99 | 49.54 |
| EER | | | 3.99 | 3.96 | 3.99 | 3.92 | 4.04 |
| SEER | | | - | - | - | - | - |
| COP | Rated Capacity | | 4.40 | 4.35 | 4.35 | 4.26 | 4.41 |
| | Max. Capacity | | 4.14 | 4.06 | 4.07 | 3.98 | 4.14 |
| SCOP | | | - | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 5 | (Inverter) x 5 | (Inverter) x 5 | (Inverter) x 5 | (Inverter) x 6 |
| | Motor Output x Number | W x No. | (5,300 x 4) + (4,200 x 1) | 5,300 x 5 | 5,300 x 5 | 5,300 x 5 | (5,300 x 5) + (4,200 x 1) |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | | cc | 14,300 | 14,300 | 14,300 | 15,600 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | (900 x 4) + (1,200 x 1) | (900 x 4) + (1,200 x 1) | 900 x 6 | 900 x 6 | 900 x 6 |
| | Air Flow Rate (High) | | m³/minxNo. | (320 x 2) + (240 x 1) | (320 x 2) + (240 x 1) | 320 x 3 | 320 x 3 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 53.98 (2-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 44.5 (1-3/4) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 53.98 (2-1/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 | (1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1 (1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1 | (1,240 x 1,690 x 760) x 3 | (1,240 x 1,690 x 760) x 3 | (1,240 x 1,690 x 760) x 3 |
| Dimensions (W x H x D) - Shipping | | mm x No. | | | (1,280 x 1,825 x 796) x 3 | (1,280 x 1,825 x 796) x 3 | (1,280 x 1,825 x 796) x 3 |
| Net Weight | | kg x No. | (310 x 1) + (300 x 1) + (215 x 1) | (310 x 2) + (215 x 1) | (310 x 2) + (237 x 1) | (310 x 2) + (237 x 1) | (310 x 2) + (300 x 1) |
| Shipping Weight | | kg x No. | (320 x 1) + (312 x 1) + (225 x 1) | (320 x 2) + (225 x 1) | (320 x 2) + (250 x 1) | (320 x 2) + (250 x 1) | (320 x 2) + (312 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 68.3 | 68.5 | 68.6 | 68.7 | 68.8 |
| | Heating | dB(A) | 69.8 | 70.4 | 70.5 | 70.6 | 70.6 |
| Sound Power Level | Cooling | dB(A) | 97.4 | 98.3 | 98.5 | 98.6 | 99.0 |
| | Heating | dB(A) | 101.4 | 102.2 | 102.5 | 102.6 | 102.8 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 42.5 | 43.5 | 47.5 | 47.5 | 50.0 |
| | t-CO ₂ eq. | | 88.7 | 90.8 | 99.2 | 99.2 | 104.4 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 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%.

MULTI V 5

ARUM680LTE5 / ARUM700LTE5
ARUM720LTE5 / ARUM740LTE5
ARUM760LTE5



| HP | | | 68 | 70 | 72 | 74 | 76 |
|--|------------------------------|---------------------|---|---|---|--|--|
| Model Name | Combination Unit | | ARUM680LTE5 | ARUM700LTE5 | ARUM720LTE5 | ARUM740LTE5 | ARUM760LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM240LTE5 ARUM200LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM220LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM140LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM160LTE5 ARUM120LTE5 |
| Capacity | Cooling (Rated) | kW | 190.4 | 196.0 | 201.6 | 207.2 | 212.8 |
| | Heating (Rated) | kW | 190.4 | 196.0 | 201.6 | 207.2 | 212.8 |
| | Heating (Max) | kW | 211.5 | 217.8 | 222.8 | 230.4 | 236.7 |
| Input | Cooling (Rated) | kW | 47.57 | 50.50 | 52.20 | 51.06 | 53.27 |
| | Heating (Rated) | kW | 43.98 | 45.93 | 47.67 | 46.76 | 48.91 |
| | Heating (Max) | kW | 52.28 | 54.36 | 56.40 | 55.58 | 58.25 |
| EER | | | 4.00 | 3.88 | 3.86 | 4.06 | 3.99 |
| SEER | | | - | - | - | - | - |
| COP | Rated Capacity | | 4.33 | 4.27 | 4.23 | 4.43 | 4.35 |
| | Max. Capacity | | 4.05 | 4.01 | 3.95 | 4.15 | 4.06 |
| SCOP | | | - | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Type | | (Inverter) x 6 | (Inverter) x 6 | (Inverter) x 6 | (Inverter) x 6 | (Inverter) x 6 |
| | Motor Output x Number | W x No. | (5,300 x 5) + (4,200 x 1) | (5,300 x 5) + (4,200 x 1) | 5,300 x 6 | 5,300 x 6 | 5,300 x 6 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 15,600 | 15,600 | 15,600 | 18,200 | 18,200 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | 900 x 6 | 900 x 6 | 900 x 6 | (900 x 6) + (1,200 x 1) | (900 x 6) + (1,200 x 1) |
| | Air Flow Rate (High) | m³/min x No. | 320 x 3 | 320 x 3 | 320 x 3 | (320 x 3) + (240 x 1) | (320 x 3) + (240 x 1) |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x1,690 x 760) x 3 | (1,240 x1,690 x 760) x 3 | (1,240 x1,690 x 760) x 3 | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x1,825 x 796) x 3 | (1,280 x1,825 x 796) x 3 | (1,280 x1,825 x 796) x 3 | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 |
| Net Weight | | kg x No. | (310 x 2) + (300 x 1) | (310 x 2) + (300 x 1) | 310 x 3 | (310 x 2) + (237 x 1) + (215 x 1) | (310 x 2) + (237 x 1) + (215 x 1) |
| Shipping Weight | | kg x No. | (320 x 2) + (312 x 1) | (320 x 2) + (312 x 1) | 320 x 3 | (320 x 2) + (250 x 1) + (225 x 1) | (320 x 2) + (250 x 1) + (225 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 69.0 | 69.6 | 69.8 | 69.1 | 69.2 |
| | Heating | dB(A) | 71.1 | 71.3 | 71.8 | 70.9 | 70.9 |
| Sound Power Level | Cooling | dB(A) | 99.2 | 99.2 | 99.8 | 98.8 | 98.9 |
| | Heating | dB(A) | 103.0 | 103.2 | 103.8 | 102.7 | 102.8 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 50.0 | 50.0 | 51.0 | 57.0 | 57.0 |
| | t-CO ₂ eq. | | 104.4 | 104.4 | 106.5 | 119.0 | 119.0 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 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%.

MULTI V 5

ARUM780LTE5 / ARUM800LTE5
ARUM820LTE5 / ARUM840LTE5
ARUM860LTE5



| HP | | | 78 | 80 | 82 | 84 | 86 |
|--|------------------------------|---------------------|--|--|--|--|--|
| Model Name | Combination Unit | | ARUM780LTE5 | ARUM800LTE5 | ARUM820LTE5 | ARUM840LTE5 | ARUM860LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM240LTE5 ARUM180LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM200LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM220LTE5 ARUM120LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM140LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM120LTE5 |
| Capacity | Cooling (Rated) | kW | 218.4 | 224.0 | 229.6 | 235.2 | 240.8 |
| | Heating (Rated) | kW | 218.4 | 224.0 | 229.6 | 235.2 | 240.8 |
| | Heating (Max) | kW | 243.0 | 249.3 | 255.6 | 260.6 | 266.9 |
| Input | Cooling (Rated) | kW | 53.29 | 55.15 | 58.08 | 59.78 | 60.88 |
| | Heating (Rated) | kW | 48.75 | 50.83 | 52.78 | 54.52 | 55.80 |
| | Heating (Max) | kW | 57.80 | 60.54 | 62.62 | 64.66 | 66.12 |
| EER | | | 4.10 | 4.06 | 3.95 | 3.93 | 3.96 |
| SEER | | | - | - | - | - | - |
| COP | Rated Capacity | | 4.48 | 4.41 | 4.35 | 4.31 | 4.32 |
| | Max. Capacity | | 4.20 | 4.12 | 4.08 | 4.03 | 4.04 |
| SCOP | | | - | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Type | | (Inverter) x 7 | (Inverter) x 7 | (Inverter) x 7 | (Inverter) x 7 | (Inverter) x 7 |
| | Motor Output x Number | W x No. | (5,300 x 6) + (4,200 x 1) | (5,300 x 6) + (4,200 x 1) | (5,300 x 6) + (4,200 x 1) | 5,300 x 7 | 5,300 x 7 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 19,500 | 19,500 | 19,500 | 19,500 | 19,500 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | (900 x 6) + (1,200 x 1) | (900 x 6) + (1,200 x 1) | (900 x 6) + (1,200 x 1) | (900 x 6) + (1,200 x 1) | 900 x 8 |
| | Air Flow Rate (High) | m³/min x No. | (320 x 3) + (240 x 1) | (320 x 3) + (240 x 1) | (320 x 3) + (240 x 1) | (320 x 3) + (240 x 1) | 320 x 4 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP | TOP |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP | TOP |
| Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| Dimensions (W x H x D) | | mm x No. | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 | (1,240 x1,690 x 760) x 3 + (930 x1,690 x 760) x 1 | (1,240 x1,690 x 760) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 | (1,280 x1,825 x 796) x 3 + (960 x1,825 x 796) x 1 | (1,280 x1,825 x 796) x 4 |
| Net Weight | | kg x No. | (310 x 2) + (300 x 1) + (215 x 1) | (310 x 2) + (300 x 1) + (215 x 1) | (310 x 2) + (300 x 1) + (215 x 1) | (310 x 3) + (215 x 1) | (310 x 3) + (237 x 1) |
| Shipping Weight | | kg x No. | (320 x 2) + (312 x 1) + (225 x 1) | (320 x 2) + (312 x 1) + (225 x 1) | (320 x 2) + (312 x 1) + (225 x 1) | (320 x 3) + (225 x 1) | (320 x 3) + (250 x 1) |
| Sound Pressure Level | Cooling | dB(A) | 69.2 | 69.4 | 70.0 | 70.1 | 70.2 |
| | Heating | dB(A) | 71.0 | 71.4 | 71.6 | 72.1 | 72.1 |
| Sound Power Level | Cooling | dB(A) | 99.2 | 99.4 | 99.4 | 99.9 | 100.1 |
| | Heating | dB(A) | 103.0 | 103.2 | 103.4 | 103.9 | 104.1 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 59.5 | 59.5 | 59.5 | 60.5 | 64.5 |
| | t-CO ₂ eq. | | 124.2 | 124.2 | 124.2 | 126.3 | 134.6 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 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%.

MULTI V 5

ARUM880LTE5 / ARUM900LTE5
ARUM920LTE5 / ARUM940LTE5
ARUM960LTE5



| HP | | | 88 | 90 | 92 | 94 | 96 |
|--|------------------------------------|---------------------|--|--|--|--|--|
| Model Name | Combination Unit | | ARUM880LTE5 | ARUM900LTE5 | ARUM920LTE5 | ARUM940LTE5 | ARUM960LTE5 |
| | Independent Unit | | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM160LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM180LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM200LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM220LTE5 | ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 |
| Capacity | Cooling (Rated) | kW | 246.4 | 252.0 | 257.6 | 263.2 | 268.8 |
| | Heating (Rated) | kW | 246.4 | 252.0 | 257.6 | 263.2 | 268.8 |
| | Heating (Max) | kW | 273.2 | 279.5 | 285.8 | 292.1 | 297.0 |
| Input | Cooling (Rated) | kW | 63.09 | 63.11 | 64.97 | 67.90 | 69.60 |
| | Heating (Rated) | kW | 57.95 | 57.79 | 59.87 | 61.82 | 63.56 |
| | Heating (Max) | kW | 68.79 | 68.34 | 71.08 | 73.16 | 75.19 |
| EER | | | 3.91 | 3.99 | 3.96 | 3.88 | 3.86 |
| SEER | | | - | - | - | - | - |
| COP | Rated Capacity | | 4.25 | 4.36 | 4.30 | 4.26 | 4.23 |
| | Max. Capacity | | 3.97 | 4.09 | 4.02 | 3.99 | 3.95 |
| SCOP | | | - | - | - | - | - |
| Exterior | Color | | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray | Warm Gray / Dawn Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 | RAL 7044 / RAL 7037 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 7 | (Inverter) x 8 | (Inverter) x 8 | (Inverter) x 8 | (Inverter) x 8 |
| | Motor Output x Number | W x No. | 5,300 x 7 | (5,300 x 7) + (4,200 x 1) | (5,300 x 7) + (4,200 x 1) | (5,300 x 7) + (4,200 x 1) | 5,300 x 8 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 19,500 | 20,800 | 20,800 | 20,800 | 20,800 |
| Fan | Type | | Propeller fan | Propeller fan | Propeller fan | Propeller fan | Propeller fan |
| | Motor Output x Number | W x No. | 900 x 8 | 900 x 8 | 900 x 8 | 900 x 8 | 900 x 8 |
| | Air Flow Rate (High) | m³/min x No. | 320 x 4 | 320 x 4 | 320 x 4 | 320 x 4 | 320 x 4 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | TOP | TOP | TOP | TOP | TOP |
| | Pipe Connections for Heat Recovery | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| Pipe Connections for Heat Pump | Low Pressure Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | |
| | High Pressure Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | |
| Pipe Connections for Heat Pump | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | |
| | Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | |
| Dimensions (W x H x D) | | mm x No. | (1,240 x1,690 x 760) x 4 | (1,240 x1,690 x 760) x 4 | (1,240 x1,690 x 760) x 4 | (1,240 x1,690 x 760) x 4 | (1,240 x1,690 x 760) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,280 x 1,825 x 796) x 4 | (1,280 x 1,825 x 796) x 4 | (1,280 x 1,825 x 796) x 4 | (1,280 x 1,825 x 796) x 4 | (1,280 x 1,825 x 796) x 4 |
| Net Weight | | kg x No. | (310 x 3) + (237 x 1) | (310 x 3) + (300 x 1) | (310 x 3) + (300 x 1) | (310 x 3) + (300 x 1) | 310 x 4 |
| Shipping Weight | | kg x No. | (320 x 3) + (250 x 1) | (320 x 3) + (312 x 1) | (320 x 3) + (312 x 1) | (320 x 3) + (312 x 1) | 320 x 4 |
| Sound Pressure Level | Cooling | dB(A) | 70.3 | 70.3 | 70.4 | 70.9 | 71.0 |
| | Heating | dB(A) | 72.2 | 72.2 | 72.5 | 72.7 | 73.0 |
| Sound Power Level | Cooling | dB(A) | 100.2 | 100.4 | 100.6 | 100.6 | 101.0 |
| | Heating | dB(A) | 104.2 | 104.3 | 104.4 | 104.6 | 105.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 64.5 | 67.0 | 67.0 | 67.0 | 68.0 |
| | t-CO₂ eq. | | 134.6 | 139.9 | 139.9 | 139.9 | 142.0 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 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%.

NOTES

1. Eurovent Test Condition : For more info regarding program consult www.eurovent-certification.com

2. Capacities 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
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Difference Limit of Elevation (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.
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. 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.

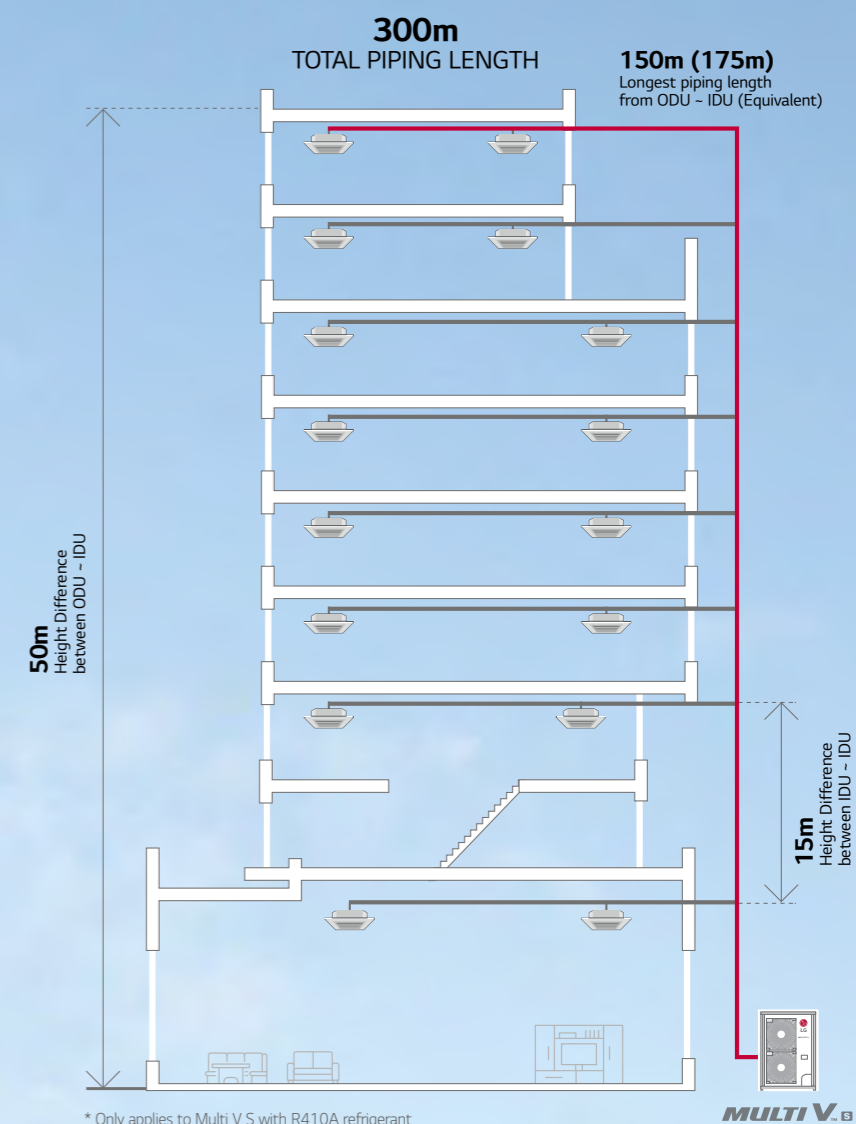
7. This product contains Fluorinated greenhouse gases.

MULTI VTM S

- Air cooled VRF Heat pump & Heat Recovery
- 12.1 ~ 33.6kW (Cooling capacity based)
- Both 1Φ, 220 ~ 240V, 50Hz and 3Φ, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system

300M
TOTAL PIPING LENGTH

Compact yet
powerful VRF
For premium
residences and
small offices



Energy savings



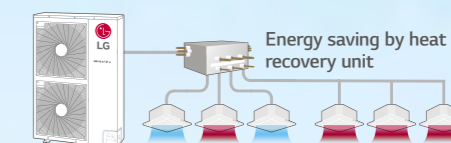
Reliability



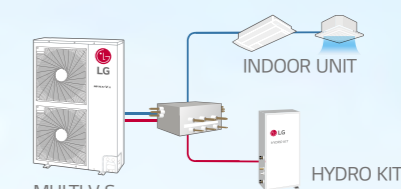
Convenience

How does it work?

Available in Heat Pump and
Heat Recovery Configurations



Combination of Cooling,
Heating and Hot Water Solution

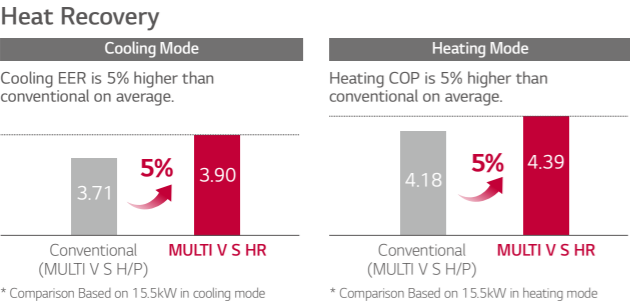
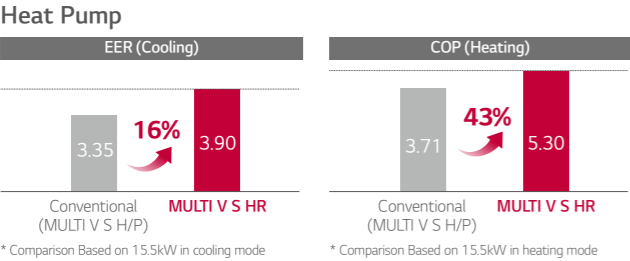


* Heat Pump and Recovery are separated models.

ENERGY SAVINGS

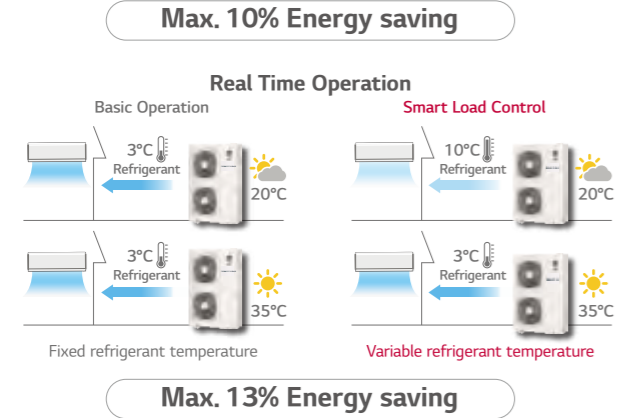
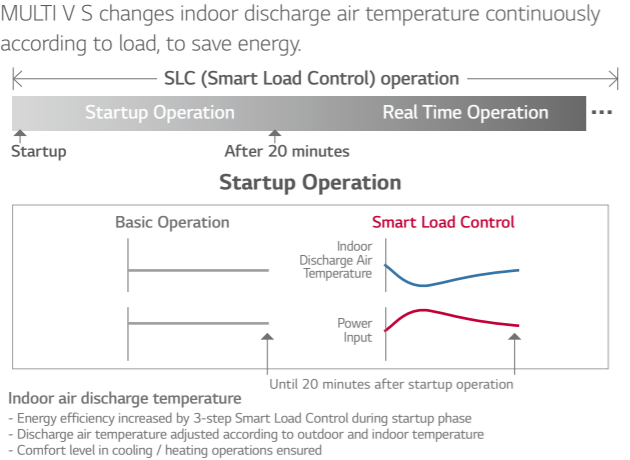
EER / COP / Part Load

Cost savings with energy efficiency



Smart Load Control Applied

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



How to set up: By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.

* ESEER (European seasonal energy efficiency Ratio) conditions based on 15.5kw unit

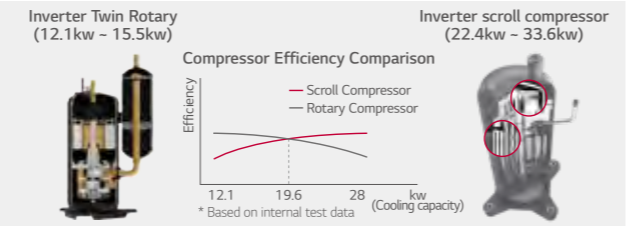
- Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35°C (DB) / 30°C (DB) / 25°C (DB) / 20°C (DB)

- Indoor temperature condition : 27°C (DB) / 19°C (WB)

* Dual sensing (Temperature & humidity) smart load control is possible with Remote controller PTMTB100 (White) /PREMTBB10 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted High Efficient Compressor according to Capacity



Inverter Twin Rotary Concentrated Winding Motor

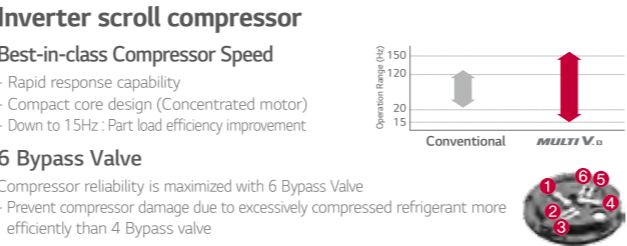
Oil path area is improved by over 50% by increasing the extra stator cavity. Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.

Twin Rotary Rotor

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

Surface Coating

Surface coating of outstanding abrasion resistance property on vane and crank shaft.



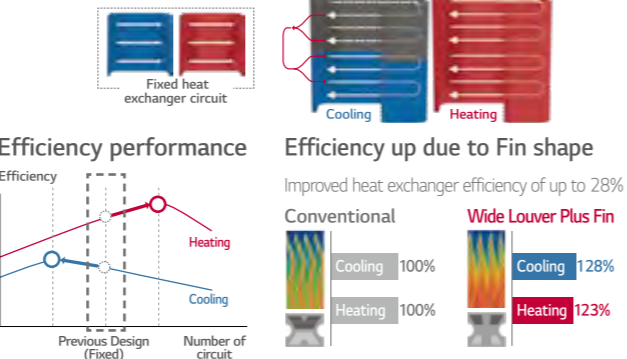
Scroll Profile

- The enhanced reliability by Increased reliability with regulated oil supply.
- Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

Optimal Heat Exchanger

Maximize Efficiency according to different Heat Exchanger path by cooling and heating

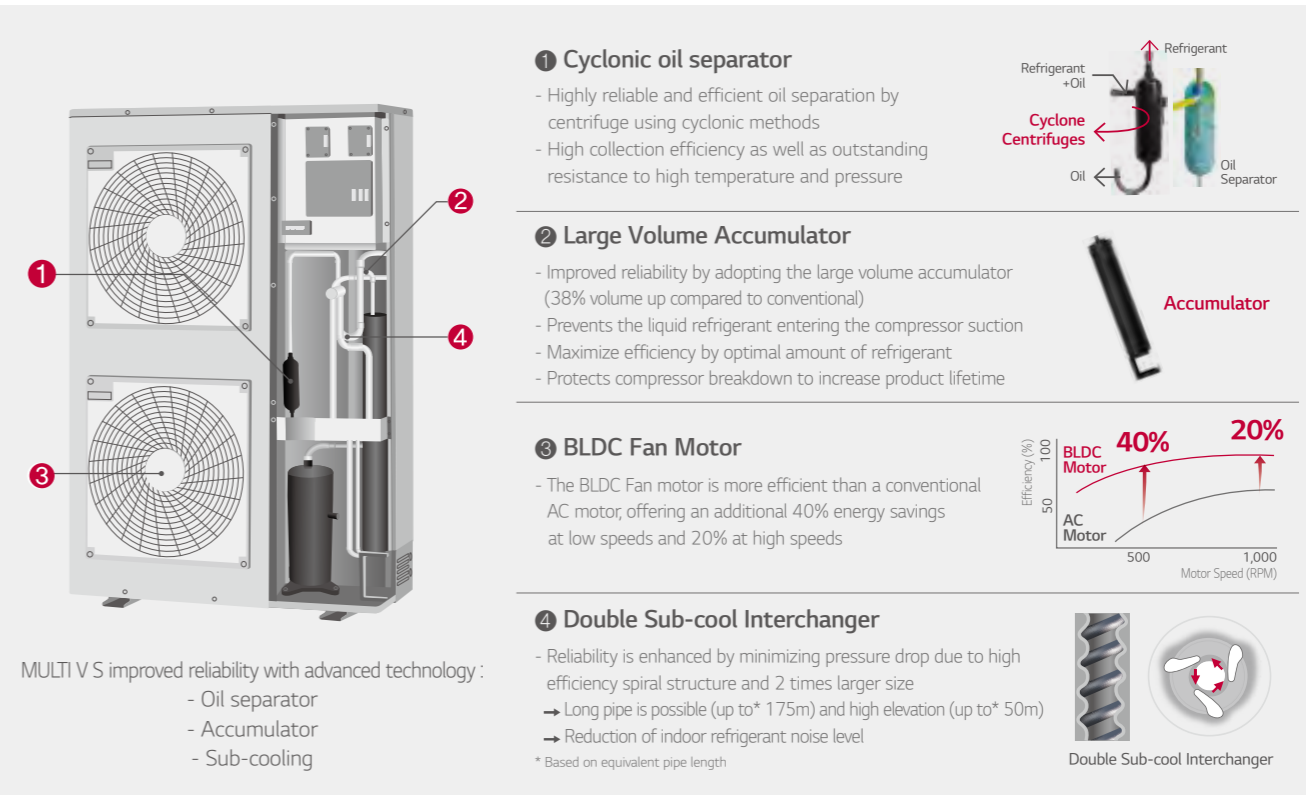
Variable Heat Exchanger Circuit intelligently selects the optimal path for both heating and cooling operations. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved. The paths number and circuit velocity are adjusted to match temperatures and operation modes in order to maximize efficiency instead of compromising efficiency for each operation when the number and direction of paths are fixed independently of temperature operation mode.



RELIABILITY

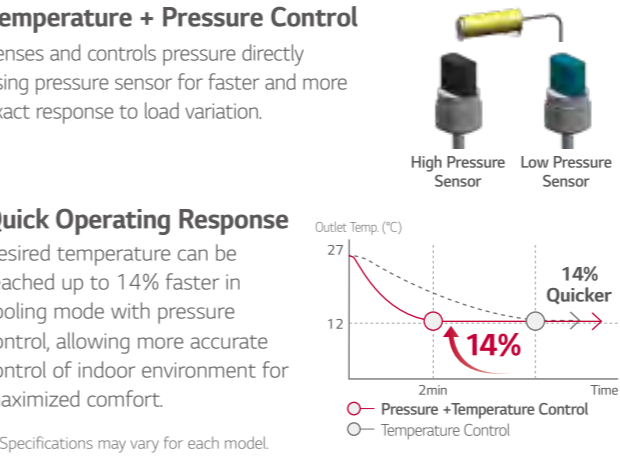
Reliable Refrigerant Components

LG technology allows for superior performance and component durability



Smart Control

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



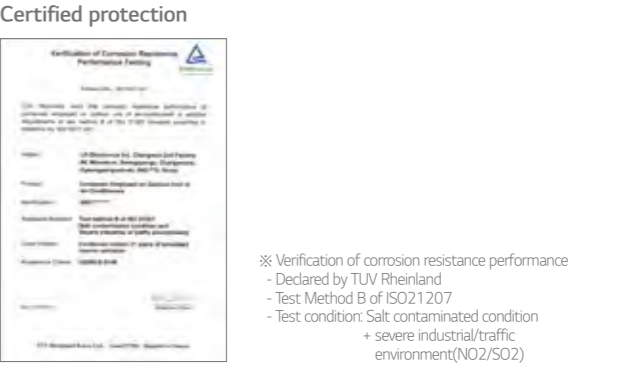
Corrosion Resistance Black Fin

Strong Durability against high salinity and heavily polluted air

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

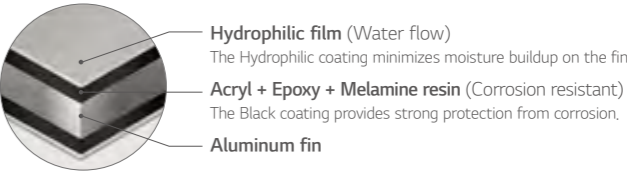
Corrosion Resistance Proven by Certified Tests

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



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 eventually making it even more corrosion resistant.

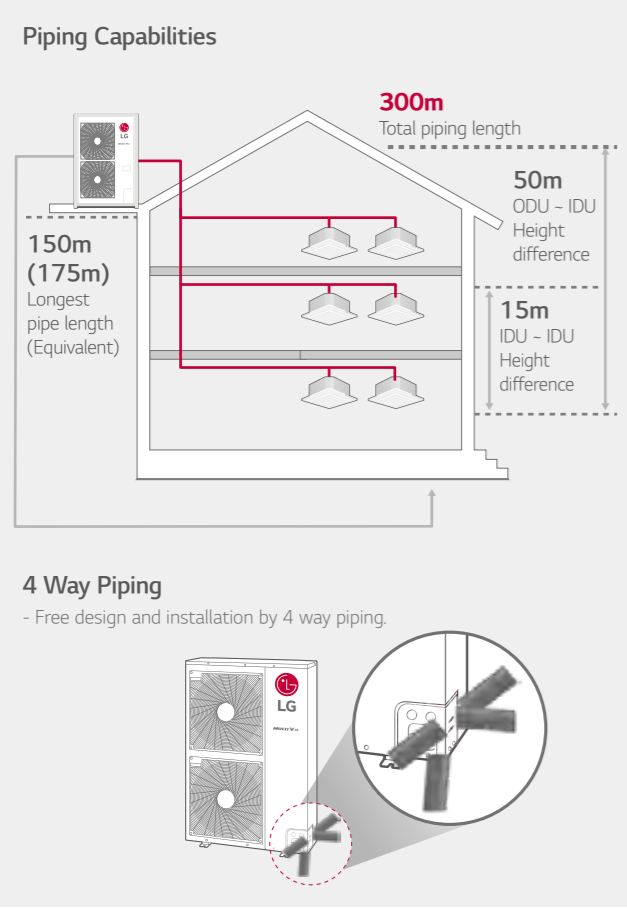


IMPROVED USER CONVENIENCE

Sufficient Piping Length

Increased piping length allows for flexible design and installation

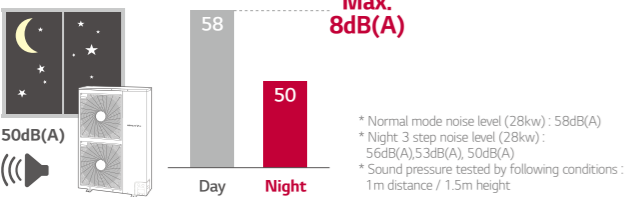
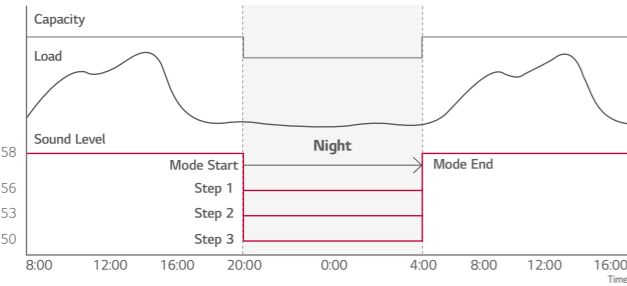
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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



Low Noise Operation

Decreased noise during operation with low noise functionality

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



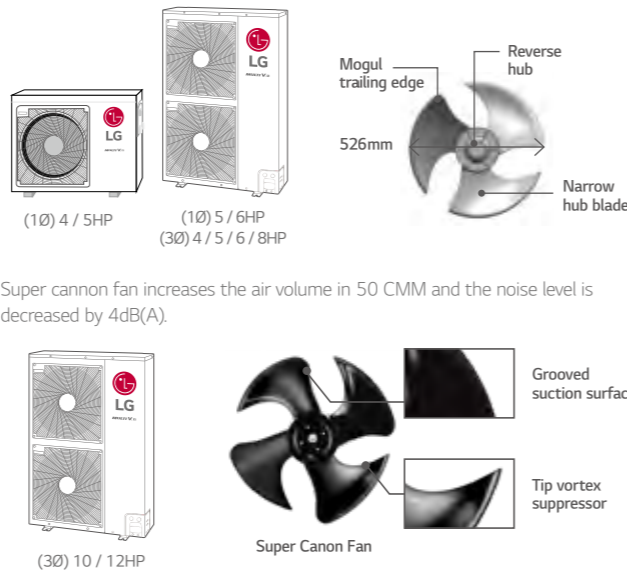
Fan Technology and RPM Control

External static pressure control for outdoor unit fan to adapt more flexibly to various installation conditions of outdoor unit

For enhanced efficiency, new axial fan boasts higher air volume, increased static pressure and decreased noise.

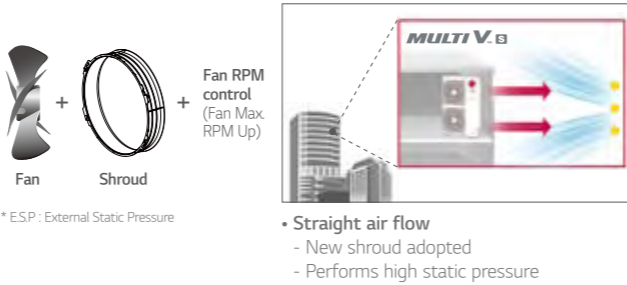
Fan Technology

The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.



Fan RPM control

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

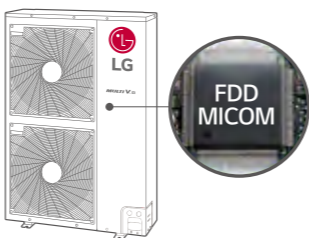


Upgraded Fault Detection and Diagnosis

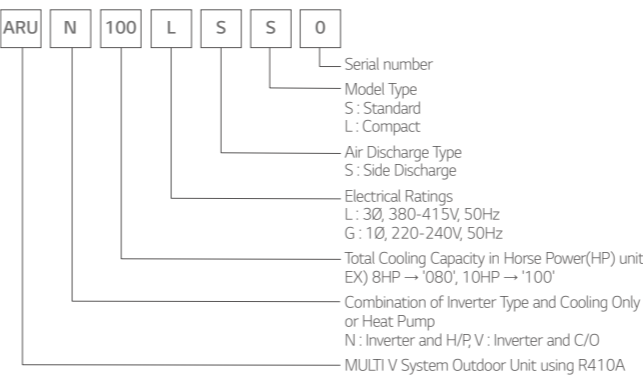
Easy and convenient maintenance with self-diagnosis

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



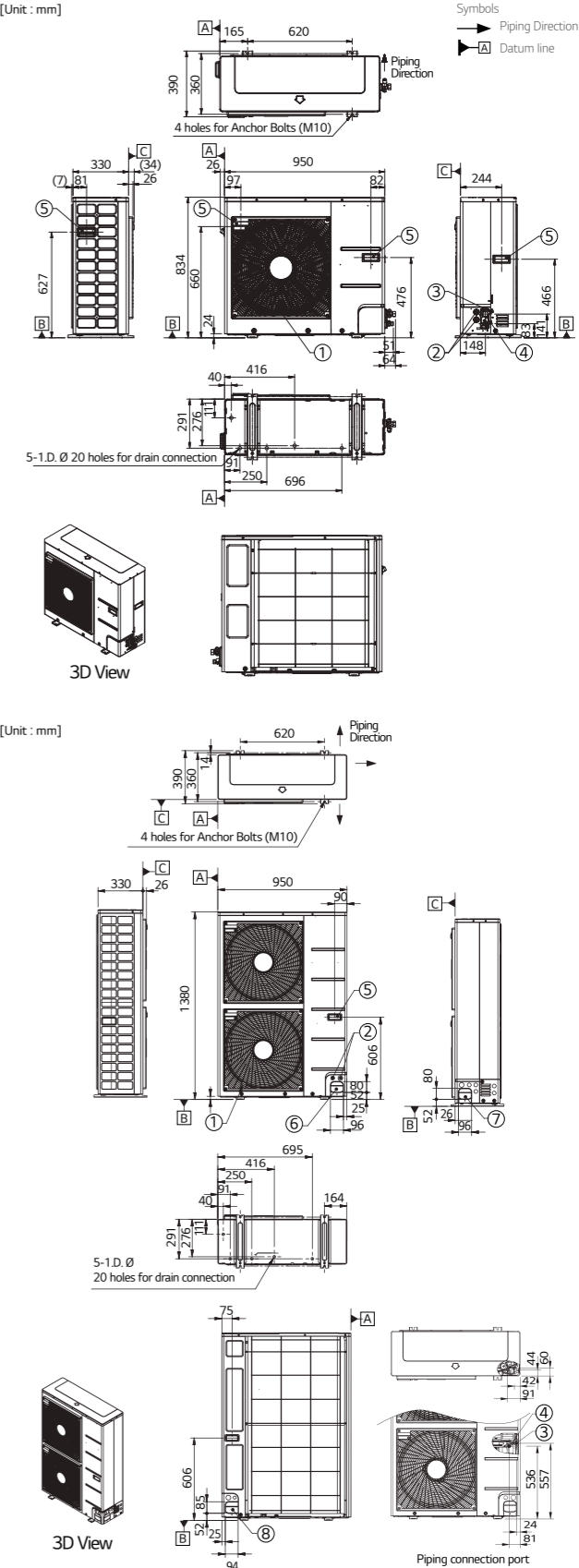
Nomenclature



Outdoor Unit 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) | ○ |
| Central Controller | Outdoor Unit Control Refer to Humidity | ARUB060GSS4 only |
| | Defrost / Deicing | ○ |
| | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| Additional kit | Restart Delay (3-minutes) | ○ |
| | Self Diagnosis | ○ |
| | Soft Start | ○ |
| | Test Run Function | - |
| BNU (Building Network Unit) | AC Ez (Simple Controller) | PQCSZ250S0 |
| | AC Ez Touch | PACEZA000 |
| | AC Smart IV | PACS4B000 |
| | AC Smart 5 | PACS5A000 |
| IO Module (ODU Dry Contact) | ACP (Advanced Control Platform) IV | PACP4B000 |
| | ACP (Advanced Control Platform) 5 | PACP5A000 |
| | AC Manager 5 | PACM5A000 |
| | ACP Lonworks | PLNWKB000 |
| Cool / Heat Selector | ACP BACnet | PQNFB17C0 |
| | PDI (Power Distribution Indicator) | PVDSMN000 |
| | Standard | PPWRDB000 |
| | Premium | PQNUD1S40 |
| Cycle Monitoring Device | PRDSBM | PRDSBM |
| | PRCTILO | PRCTILO |
| | LGMV | PLGMVW100 |
| | Mobile LGMV | ○ |
| Additional kit | Refrigerant Charging Kit | (Logical operation) Not applied to ARUB060GSS4 |
| | Low Ambient Kit | - |
| | Variable Water Flow Valve Control Kit | - |

※ ○ : Applied, - : Not Applied



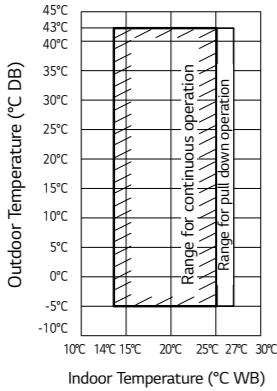
Note

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

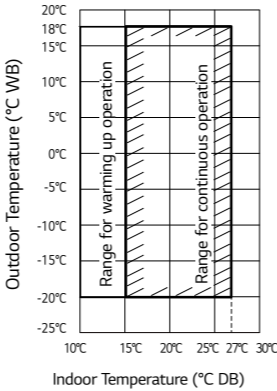
| No. | Part Name | Description |
|-----|------------------------------------|---------------|
| 1 | Air Outlet | - |
| 2 | Power and communication cable Hole | - |
| 3 | Gas Pipe Connection | Welding joint |
| 4 | Liquid Pipe Connection | Welding joint |
| 5 | Handle | - |
| 6 | Pipe routing hole (front)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

Heat Pump

Cooling

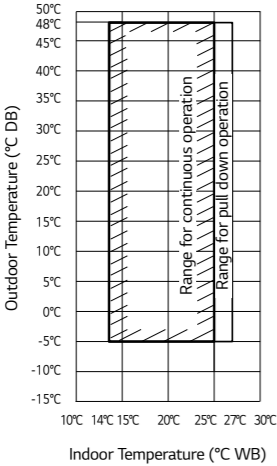


Heating

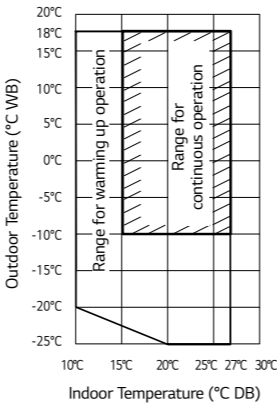


Heat Recovery

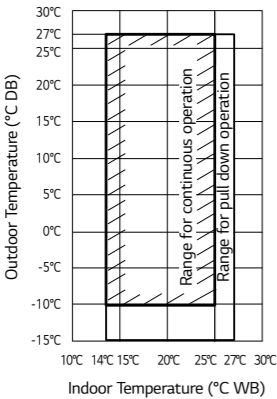
Cooling



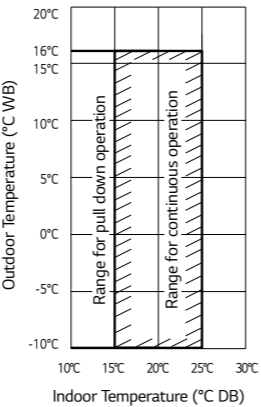
Heating



Simultaneous Cooling



Simultaneous Heating

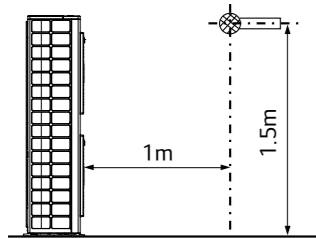


Note

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

2. Range of pull down operation : If the relative humidity is too high, cooling capacity can be decreased by the sensible

Position of Sound Level Measuring



Note

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

MULTI V S HEAT PUMP

ARUN040GSS0 / ARUN050GSL0



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



| HP | | | 4 | 5 |
|--|------------------------------|---------------------|------------------------------|------------------------------|
| Model Name | | | ARUN040GSS0 | ARUN050GSL0 |
| Capacity | Cooling (Rated) | kW | 12.1 | 14.0 |
| | Heating (Rated) | kW | 12.5 | 15.0 |
| Input | Cooling (Rated) | kW | 3.78 | 4.38 |
| | Heating (Rated) | kW | 2.10 | 2.65 |
| EER | | | 3.20 | 3.20 |
| SEER | | | 5.98 | 6.60 |
| COP | | | 5.9 | 5.7 |
| SCOP | | | 5.15 | 4.96 |
| Exterior | Color (General) | | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | Type | | BLDC Inverter Twin Rotary | BLDC Inverter Twin Rotary |
| | Combination x No. | | (Inverter) x 1 | (Inverter) x 1 |
| Compressor | Motor Output x Number | W x No. | 4,000 x 1 | 4,000 x 1 |
| | Oil Type | | FVC68D (PVE) | FVC68D (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 1 | 124 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 x 1 | 60 x 1 |
| | Drive | | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side |
| Pipe Connctions | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) |
| | Gas Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 15.88 (5/8) |
| Dimensions (W x H x D) | | mm x No. | (950 x 834 x 330) x 1 | (950 x 834 x 330) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (1,065 x 918 x 461) x 1 | (1,065 x 918 x 461) x 1 |
| Net Weight | | kg x No. | 70 x 1 | 73 x 1 |
| Shipping Weight | | kg x No. | 77 x 1 | 81 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 50.0 | 52.0 |
| | Heating | dB(A) | 52.0 | 58.0 |
| Sound Power Level | Cooling | dB(A) | 72.0 | 72.0 |
| | Heating | dB(A) | 76.0 | 75.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A |
| | Precharged Amount in factory | kg | 1.8 | 2.4 |
| | t-CO ₂ eq. | | 3.8 | 5.0 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| | | | | |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Number of Maximum Connectable Indoor Units | | | 8 | 8* |

* : In case of ARUN050GSL0, maximum combination ratio is 130%.

Note

- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
 - Refer to EUROVENT certification regulation for more detail test conditions.
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
- Performances are based on the following conditions :
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
- The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%.)
- Wiring cable size must comply with the applicable local and national codes.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Power factor could vary less than ±1% according to the operating conditions.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT PUMP

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 | 3.33 | 3.97 |
| | Heating (Rated) | kW | 2.77 | 3.40 |
| EER | | | 4.20 | 3.90 |
| SEER | | | 6.56 | 6.65 |
| COP | | | 5.77 | 5.30 |
| SCOP | | | 5.23 | 5.19 |
| Exterior | Color (General) | | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | 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 | | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 1,300 | 1,300 |
| | Type | | Axial Flow Fan | Axial Flow Fan |
| Fan | Motor Output x Number | W x No. | 124 x 2 | 124 x 2 |
| | Air Flow Rate (High) | m³/min x No. | 110 x 1 | 110 x 1 |
| | Drive | | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side |
| | | | | |
| Pipe Connctions | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) |
| | Gas Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 19.05 (3/4) |
| Dimensions (W x H x D) | | | mm x No. (950 x 1,380 x 330) x 1 | mm x No. (950 x 1,380 x 330) x 1 |
| Dimensions (W x H x D) - Shipping | | | mm x No. (1,140 x 1,462 x 461) x 1 | mm x No. (1,140 x 1,462 x 461) x 1 |
| Net Weight | | | kg x No. 94 x 1 | kg x No. 94 x 1 |
| Shipping Weight | | | kg x No. 106 x 1 | kg x No. 106 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 51.0 | 52.0 |
| | Heating | dB(A) | 53.0 | 54.0 |
| Sound Power Level | Cooling | dB(A) | 72.0 | 72.0 |
| | Heating | dB(A) | 76.0 | 77.0 |
| Communication Cable | | | mm² x No. (VCTF-SB) 1.0 ~ 1.5 x 2C | mm² x No. (VCTF-SB) 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A |
| | Precharged Amount in factory | kg | 3.0 | 3.0 |
| | t-CO₂ eq. | | 6.3 | 6.3 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | Ø, V, Hz 1, 220-240, 50 | Ø, V, Hz 1, 220-240, 50 |
| Number of Maximum Connectable Indoor Units | | | 10 | 13 |

* : In case of ARUN050GSL0, maximum combination ratio is 130%.

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%. (the maximum combination ratio of ARUN050GSL0 is 130%).
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 reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT PUMP

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 | 2.37 | 3.33 | 3.97 |
| | Heating (Rated) | kW | 1.93 | 2.77 | 3.40 |
| EER | | | 5.10 | 4.20 | 3.90 |
| SEER | | | 6.46 | 6.56 | 6.65 |
| COP | | | 6.49 | 5.77 | 5.30 |
| SCOP | | | 5.02 | 5.23 | 5.19 |
| Exterior | Color (General) | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code (Classic) | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | 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 | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 1,300 | 1,300 | 1,300 |
| | Type | | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan |
| 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 x 1 | 110 x 1 | 110 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| | | | | | |
| Pipe Connctions | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 9.52 (3/8) |
| | Gas Pipe | mm (inch) | Ø 15.88 (5/8) | Ø 15.88 (5/8) | Ø 19.05 (3/4) |
| Dimensions (W x H x D) | | | mm x No. (950 x 1,380 x 330) x 1 | mm x No. (950 x 1,380 x 330) x 1 | mm x No. (950 x 1,380 x 330) x 1 |
| Dimensions (W x H x D) - Shipping | | | mm x No. (1,140 x 1,462 x 461) x 1 | mm x No. (1,140 x 1,462 x 461) x 1 | mm x No. (1,140 x 1,462 x 461) x 1 |
| Net Weight | | | kg x No. 96 x 1 | kg x No. 96 x 1 | kg x No. 96 x 1 |
| Shipping Weight | | | kg x No. 108 x 1 | kg x No. 106 x 1 | kg x No. 106 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 50.0 | 51.0 | 52.0 |
| | Heating | dB(A) | 52.0 | 53.0 | 54.0 |
| Sound Power Level | Cooling | dB(A) | 72.0 | 72.0 | 72.0 |
| | Heating | dB(A) | 76.0 | 76.0 | 77.0 |
| Communication Cable | | | mm² x No. (VCTF-SB) 1.0 ~ 1.5 x 2C | mm² x No. (VCTF-SB) 1.0 ~ 1.5 x 2C | mm² x No. (VCTF-SB) 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in factory | kg | 3.0 | 3.0 | 3.0 |
| | t-CO₂ eq. | | 6.3 | 6.3 | 6.3 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | Ø, V, Hz 3, 380-415, 50 | Ø, V, Hz 3, 380-415, 50 | Ø, V, Hz 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units | | | 8 | 10 | 13 |

* : In case of ARUN050GSL0, maximum combination ratio is 130%.

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%. (the maximum combination ratio of ARUN050GSL0 is 130%).
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 reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)



MULTI V S HEAT PUMP

ARUN080LSS0 / ARUN100LSS0
ARUN120LSS0



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 | | | ARUN080LSS0 | ARUN100LSS0 | ARUN120LSS0 |
| Capacity | Cooling (Rated) | kW | 22.4 | 28.0 | 33.6 |
| | Heating (Rated) | kW | 24.5 | 30.6 | 36.7 |
| Input | Cooling (Rated) | kW | 8.30 | 8.75 | 14.00 |
| | Heating (Rated) | kW | 6.62 | 8.12 | 7.46 |
| EER | | | 2.70 | 3.20 | 2.40 |
| SEER | | | 6.03 | 6.59 | 5.72 |
| COP | | | Rated Capacity | 3.77 | 4.92 |
| SCOP | | | 4.33 | 4.17 | 3.86 |
| Exterior | Color (General) | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code (Classic), General | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | Type | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| | 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 | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 2,400 | 2,600 | 3,400 |
| | Type | | Propeller fan | Propeller fan | Propeller fan |
| 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 x 1 | 190 x 1 | 190 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 12.7 (1/2) |
| Pipe Connctions | Gas Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 22.2 (7/8) | Ø 28.58 (1-1/8) |
| Dimensions (W x H x D) | | | mm x No. | (950 x 1,380 x 330) x 1 | (1,090 x 1,625 x 380) x 1 |
| Dimensions (W x H x D) - Shipping | | | mm x No. | (1,140 x 1,462 x 461) x 1 | (1,215 x 1,795 x 500) x 1 |
| Net Weight | | | kg x No. | 115 x 1 | 144 x 1 |
| Shipping Weight | | | kg x No. | 127 x 1 | 160 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 57.0 | 58.0 | 60.0 |
| | Heating | dB(A) | 57.0 | 58.0 | 60.0 |
| Sound Power Level | Cooling | dB(A) | 81.0 | 80.0 | 81.0 |
| | Heating | dB(A) | 84.0 | 84.0 | 85.0 |
| Communication Cable | | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in factory | kg | 3.5 | 4.5 | 6.0 |
| | t-CO₂ eq. | | 7.3 | 9.4 | 12.5 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units | | | | 13 | 20 |

* : In case of ARUN050GSL0, maximum combination ratio is 130%.

Note

- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
 - Refer to EUROVENT certification regulation for more detail test conditions.
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
- Performances are based on the following conditions :
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
- The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%).
- Wiring cable size must comply with the applicable local and national codes.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Power factor could vary less than ±1% according to the operating conditions.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HEAT RECOVERY

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 | 3.97 | |
| | Heating (Rated) | kW | 4.10 | |
| EER | | | 3.90 | |
| SEER | | | 6.84 | |
| COP | Rated Capacity | | 4.39 | |
| SCOP | | | 4.38 | |
| 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 | | FVC68D (PVE) | |
| | Oil Charge | cc | 1,700 | |
| | Type | | Axial Flow Fan | |
| Fan | Motor Output x Number | W x No. | 124 x 2 | |
| | Air Flow Rate (High) | m³/min x No. | 110 x 1 | |
| | Drive | | DC INVERTER | |
| | Discharge | Side / Top | Side | |
| | Pipe Connections #1 | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 19.05 (3/4) | |
| | High Pressure Gas Pipe | mm (inch) | Ø 15.88 (5/8) | |
| Dimensions (W x H x D) | | mm x No. | (950 x 1,380 x 330) x 1 | |
| Dimensions (W x H x D) - shipping | | mm x No. | (1,140 x 1,549 x 466) x 1 | |
| Net Weight | | kg x No. | 118 x 1 | |
| Shipping Weight | | kg x No. | 132 x 1 | |
| Sound Pressure Level | Cooling | dB(A) | 56.0 | |
| | Heating | dB(A) | 58.0 | |
| Sound Power Level | Cooling | dB(A) | 76.0 | |
| | Heating | dB(A) | 78.0 | |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | |
| Refrigerant | Refrigerant Name | | R410A | |
| | Precharged Amount in factory | kg | 3.5 | |
| | t-CO₂ eq. | | 7.3 | |
| | Control | | Electronic Expansion Valve | |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | |
| Number of Maximum Connectable Indoor Units | | | 13 | |

* : In case of ARUN050GSL0, maximum combination ratio is 130%.

Note

- Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
 - Refer to EUROVENT certification regulation for more detail test conditions.
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
- Performances are based on the following conditions :
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
- The maximum combination ratio is 160%. (the maximum combination ratio of ARUN050GSL0 is 130%).
- Wiring cable size must comply with the applicable local and national codes.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
- Power factor could vary less than ±1% according to the operating conditions.
- This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S

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.



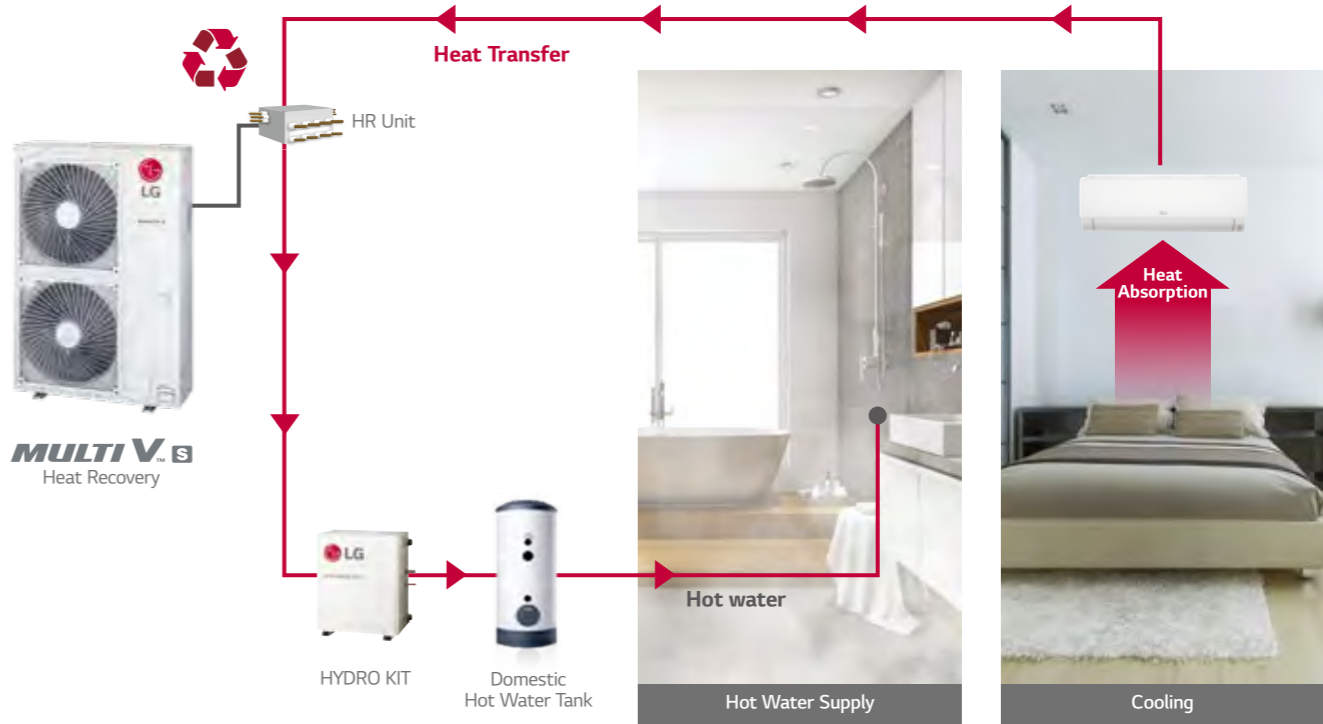
MULTI V S

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.





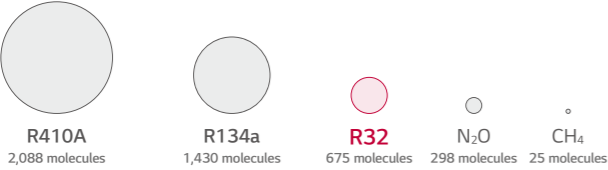
- Air cooled VRF Heat pump
- 12.1 ~ 15.5kW (Cooling capacity based)
- Both 1Φ, 220 ~ 240V, 50Hz and 3Φ, 380 ~ 415V, 50Hz
- Side discharge outdoor unit

WHY R32 REFRIGERANT?

Low global warming potential (GWP)

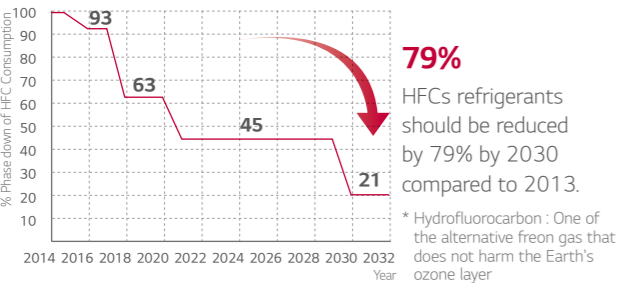
What is GWP?

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



WHY MULTI V S R32?

Higher Efficiency

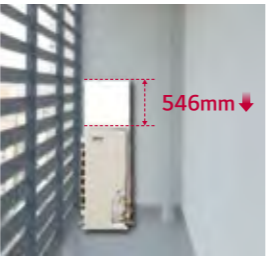
LG Multi V S achieved high efficiency through technology of biomimetic fan and revolutionary scroll compressor



※ The values based on 5HP model

Compact Size & Light Weight

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



Less Refrigerant Charge

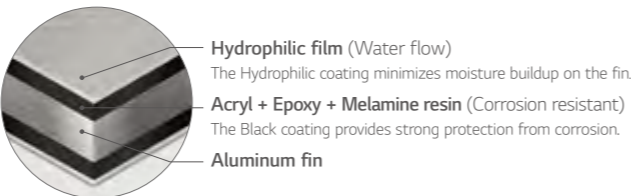
LG reduced refrigerant charge by applying environment-friendly refrigerant R32.



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

Corrosion Resistance Black Fin

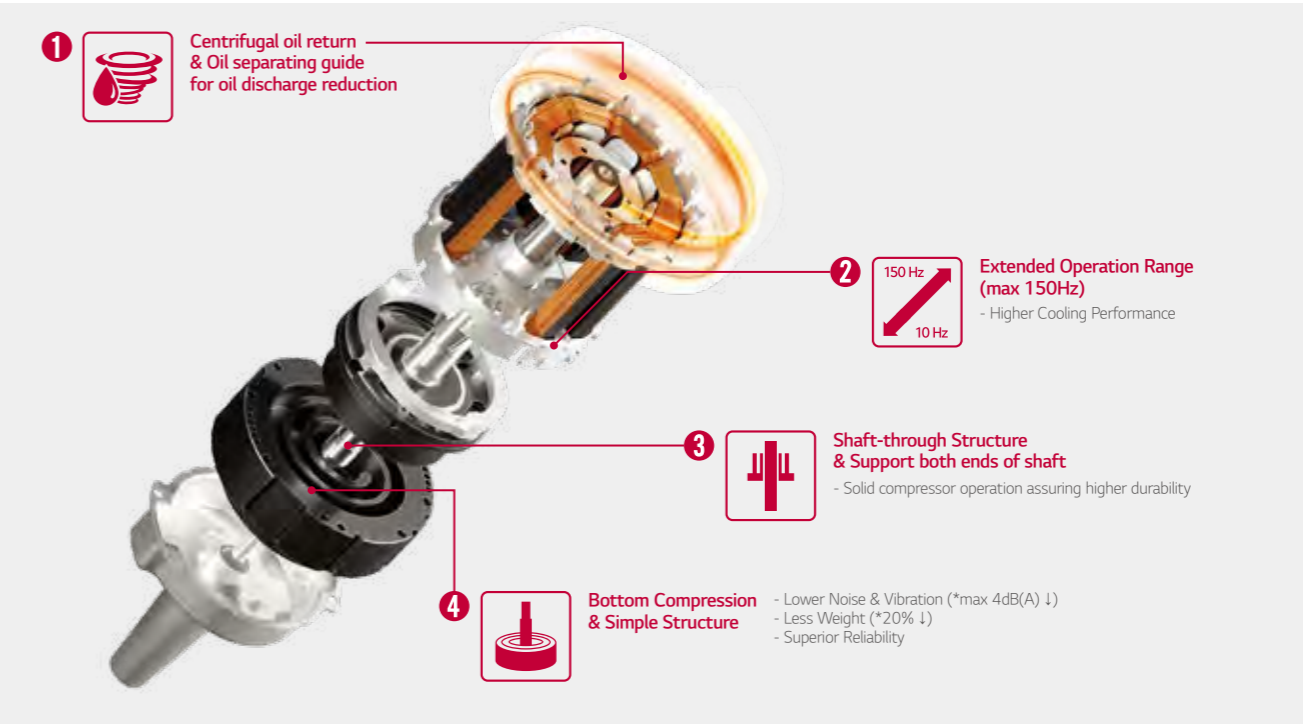
The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions



INNOVATIVE TECHNOLOGIES

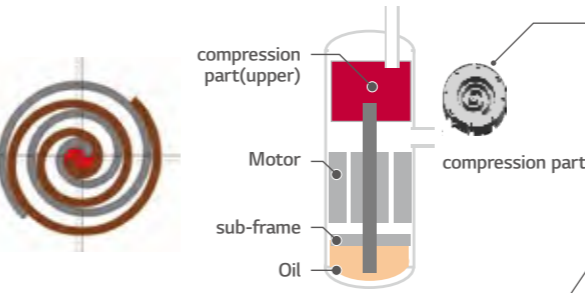
R1 Compressor™

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

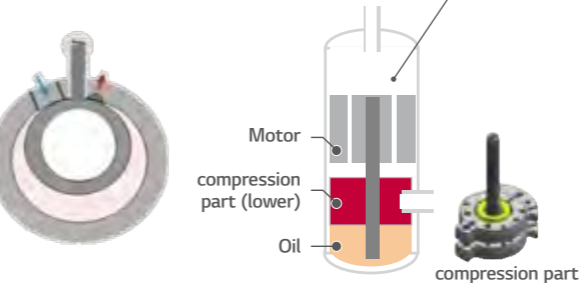


Conventional Compressor

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

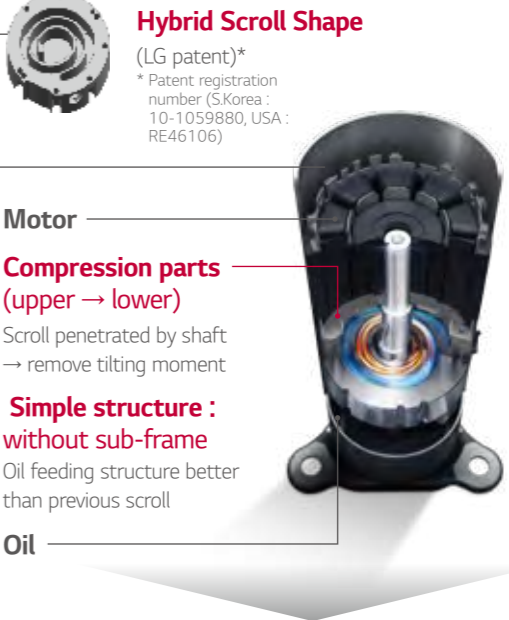


Rotary : Simple structure
(Compression per 1 rotation)



R1 Compressor™

Revolutionary Scroll : High efficiency / Stable & Simple Structure



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

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



MULTI V S HEAT PUMP R32

ZRUN040GSS0 / ZRUN050GSS0
ZRUN060GSS0



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 | | | ZRUN040GSS0 | ZRUN050GSS0 | ZRUN060GSS0 |
| Capacity | Cooling (Rated) | kW | 12.1 | 14.0 | 15.5 |
| | Heating (Rated) | kW | 12.1 | 14.0 | 15.5 |
| | Heating (Max) | kW | 14.2 | 16.0 | 18.0 |
| Input | Cooling (Rated) | kW | 3.43 | 3.33 | 3.97 |
| | Heating (Rated) | kW | 2.30 | 2.72 | 3.23 |
| | Heating (Max) | kW | 2.93 | 3.48 | 4.29 |
| EER (Rated) | | | 3.53 | 4.20 | 3.90 |
| SEER | | | 8.10 | 8.70 | 8.50 |
| COP (Rated) | | | 5.26 | 5.15 | 4.80 |
| COP (Max) | | | 4.84 | 4.60 | 4.20 |
| SCOP | | | 4.70 | 4.80 | 5.00 |
| Exterior | Color | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| Compressor | Type | | LG Inverter Scroll (R1) | LG Inverter Scroll (R1) | LG Inverter Scroll (R1) |
| | Combination x No. | | (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 |
| | Oil Type | | FW68D | FW68D | FW68D |
| | Oil Charge | cc | 1,100 | 1,100 | 1,100 |
| | Type | | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan |
| Fan | Motor Output x Number | W x No. | 124 x 1 | 200 x 1 | 200 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 x 1 | 80 x 1 | 80 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| Pipe Connctions | Liquid Pipe | mm (inch) | Ø 9.52(3/8) | Ø 9.52(3/8) | Ø 9.52(3/8) |
| | Gas Pipe | mm (inch) | Ø 15.88(5/8) | Ø 15.88(5/8) | Ø 19.05(3/4) |
| Dimensions (W x H x D) | | | mm x No. | (950 × 834 × 330) x 1 | (950 × 834 × 330) x 1 |
| Dimensions (W x H x D) - Shipping | | | mm x No. | (1,147 × 919 × 461) x 1 | (1,147 × 919 × 461) x 1 |
| Net Weight | | | kg x No. | 64.7 x 1 | 71.6 x 1 |
| Shipping Weight | | | kg x No. | 73.7 x 1 | 79.6 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 50 | 51 | 52 |
| | Heating | dB(A) | 52 | 53 | 54 |
| Sound Power Level | Cooling | dB(A) | 67 | 70 | 71 |
| | Heating | dB(A) | 71 | 74 | 75 |
| Communication Cable | | | mm² x No. (VCTF-SB) | 1.0 – 1.5 x 2C | 1.0 – 1.5 x 2C |
| Refrigerant | Refrigerant name | | R32 | R32 | R32 |
| | Precharged Amount | kg | 1.5 | 2.0 | 2.0 |
| | t-CO₂ eq | | 1.01 | 1.35 | 1.35 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Number of maxmum connectable indoor units | | | | 8 | 10 |

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 reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

4. Performances are based on the following conditions :

- *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
- *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
- Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m.

5. 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.

MULTI V S HEAT PUMP R32

ZRUN040LSS0 / ZRUN050LSS0
ZRUN060LSS0

Available from **June 2020**



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 | | | ZRUN040LSS0 | ZRUN050LSS0 | ZRUN060LSS0 |
| Capacity | Cooling (Rated) | kW | 12.1 | 14.0 | 15.5 |
| | Heating (Rated) | kW | 12.1 | 14.0 | 15.5 |
| | Heating (Max) | kW | 14.2 | 16.0 | 18.0 |
| Input | Cooling (Rated) | kW | 3.43 | 3.33 | 3.97 |
| | Heating (Rated) | kW | 2.30 | 2.72 | 3.23 |
| | Heating (Max) | kW | 2.93 | 3.48 | 4.29 |
| EER (Rated) | | | 3.53 | 4.20 | 3.90 |
| SEER | | | 8.10 | 8.70 | 8.50 |
| COP (Rated) | | | 5.26 | 5.15 | 4.80 |
| COP (Max) | | | 4.84 | 4.60 | 4.20 |
| SCOP | | | 4.70 | 4.80 | 5.00 |
| Exterior | Color | | Warm Gray | Warm Gray | Warm Gray |
| | RAL Code | | RAL 7044 | RAL 7044 | RAL 7044 |
| Heat Exchanger | | | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin | Wide Louver Plus / Black Fin |
| Compressor | Type | | LG Inverter Scroll (R1) | LG Inverter Scroll (R1) | LG Inverter Scroll (R1) |
| | Combination x No. | | (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 |
| | Oil Type | | FW68D | FW68D | FW68D |
| | Oil Charge | cc | 1,100 | 1,100 | 1,100 |
| | Type | | Axial Flow Fan | Axial Flow Fan | Axial Flow Fan |
| Fan | Motor Output x Number | W x No. | 124 x 1 | 200 x 1 | 200 x 1 |
| | Air Flow Rate (High) | m³/min x No. | 60 x 1 | 80 x 1 | 80 x 1 |
| | Drive | | DC INVERTER | DC INVERTER | DC INVERTER |
| | Discharge | Side / Top | Side | Side | Side |
| Pipe Connctions | Liquid Pipe | mm (inch) | Ø 9.52(3/8) | Ø 9.52(3/8) | Ø 9.52(3/8) |
| | Gas Pipe | mm (inch) | Ø 15.88(5/8) | Ø 15.88(5/8) | Ø 19.05(3/4) |
| Dimensions (W x H x D) | | | mm x No. | (950 × 834 × 330) x 1 | (950 × 834 × 330) x 1 |
| Dimensions (W x H x D) - Shipping | | | mm x No. | (1,147 × 919 × 461) x 1 | (1,147 × 919 × 461) x 1 |
| Net Weight | | | kg x No. | 64.7 x 1 | 71.6 x 1 |
| Shipping Weight | | | kg x No. | 73.7 x 1 | 79.6 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 50 | 51 | 52 |
| | Heating | dB(A) | 52 | 53 | 54 |
| Sound Power Level | Cooling | dB(A) | 67 | 70 | 71 |
| | Heating | dB(A) | 71 | 74 | 75 |
| Communication Cable | | | mm² x No. (VCTF-SB) | 1.0 – 1.5 x 2C | 1.0 – 1.5 x 2C |
| Refrigerant | Refrigerant name | | R32 | R32 | R32 |
| | Precharged Amount | kg | 1.5 | 2.0 | 2.0 |
| | t-CO₂ eq | | 1.01 | 1.35 | 1.35 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of maxmum connectable indoor units | | | | 8 | 10 |

Note

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

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4. Performances are based on the following conditions :

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- 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."

MULTI V™ M

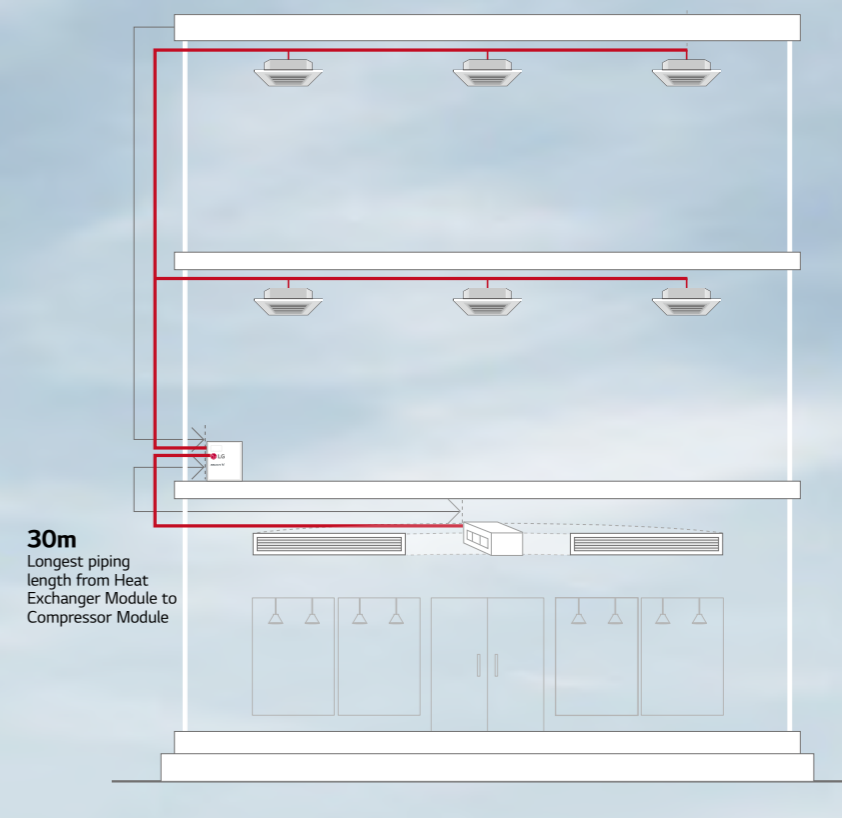
- Air Cooled VRF Heat Pump
- 14kW (Cooling capacity based)
- 3Φ, 380 ~ 415V, 50Hz (Compressor Module)
- 1Φ, 220 ~ 240V, 50Hz (Heat Exchanger Module)
- Outdoor unit is installed inside building

140M
TOTAL PIPING LENGTH

Concealed VRF technology for enhanced flexibility and aesthetic building requirements

70m
Longest piping length from Compressor Module to Indoor unit

140m
TOTAL PIPING LENGTH



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



Flexible design



Cost savings



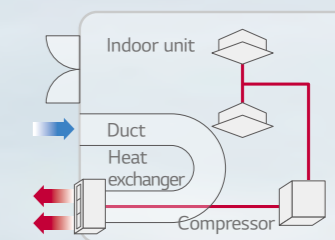
Space savings



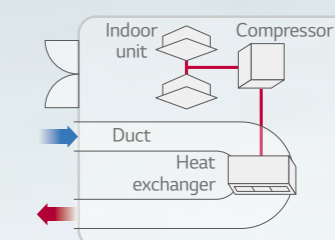
Easy maintenance

How does it work?

Direct Inlet / Outlet Case



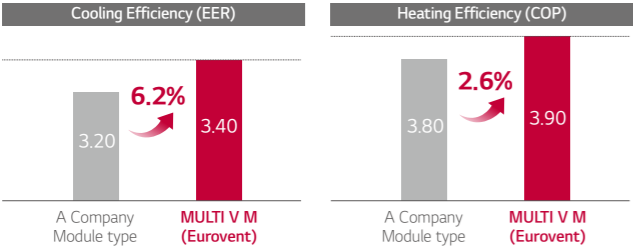
Duct Connected Case



HIGH CLASS EFFICIENCY

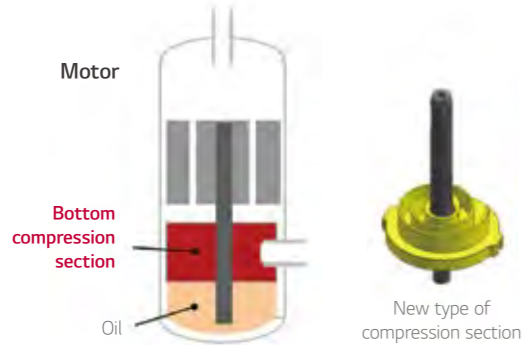
Best-in-class inverter compressor with smart load control and Wide Louver Plus fin technology

Energy Efficiency



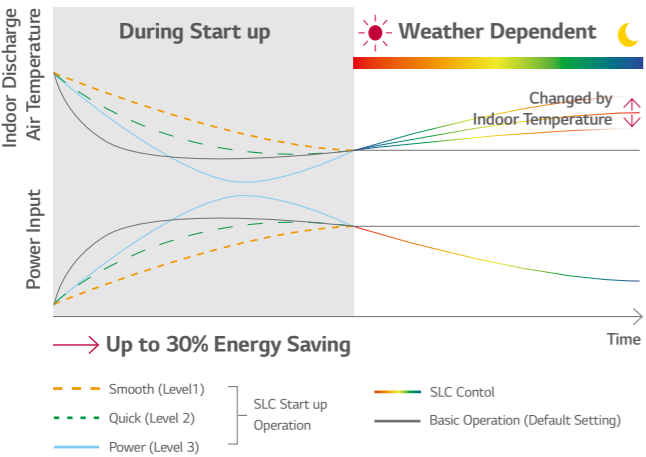
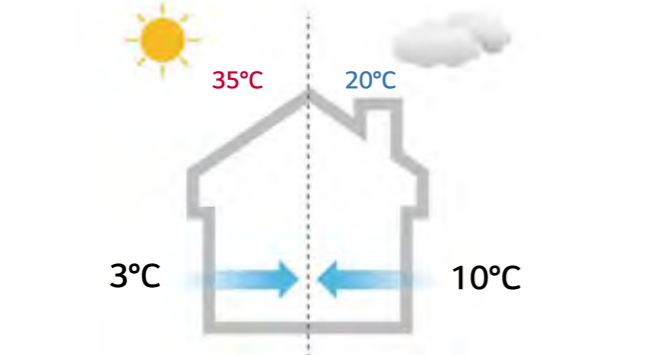
R1 Compressor

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



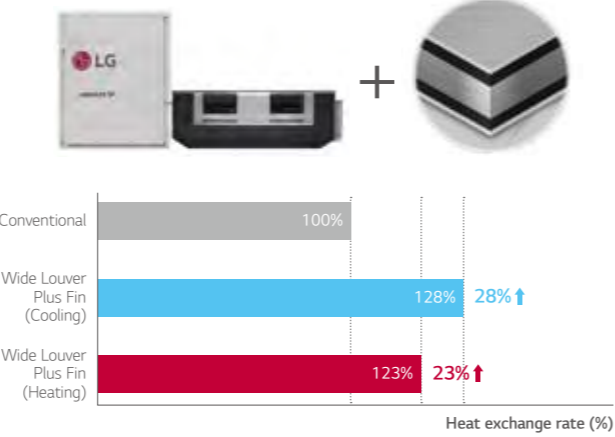
Smart Load Control

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



Wide Louver Plus Fin + Corrosion Resistance

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



Quiet Operation

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



REGULATORY COMPLIANCE

Building permit could be simplified

Regulation in Spain

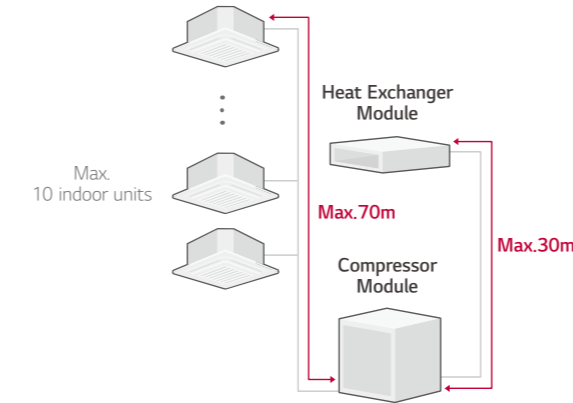


- Can only be installed inside the building
- Discharge air volume less than 60CMM
- Securing more than 5m distance between outdoor discharge grilles
- Securing at least 2.5m from the floor
- Securing more than 2.5m from surrounding windows

FLEXIBLE DESIGN & INSTALLATION

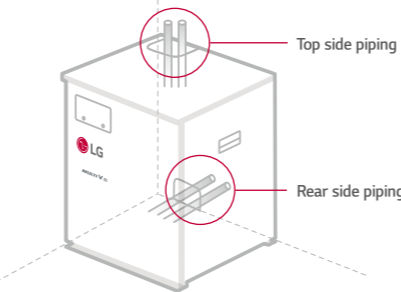
Module Type

- Increased design freedom
- Additional structure installation and ceiling construction not required
 - Ease of service - compressor replacement
 - Low noise with module
- Ease of service (Replacement of the comp)
- Low noise by module (vs Integrated Type)



Flexible Piping Location

Tidy & simple installation with flexible piping location



Increased design freedom

Additional structure installation nor ceiling construction not required, making compressor replacement and general maintenance easier. Split module provides low noise operation compared to integrated type.



Heat exchanger module can be installed in false ceiling spaces

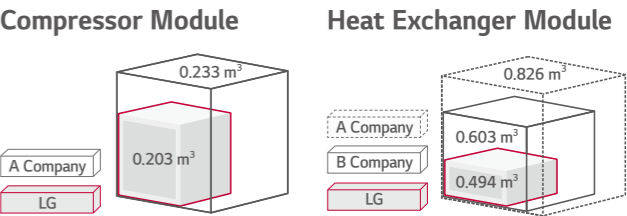


Compressor module can be installed anywhere indoors

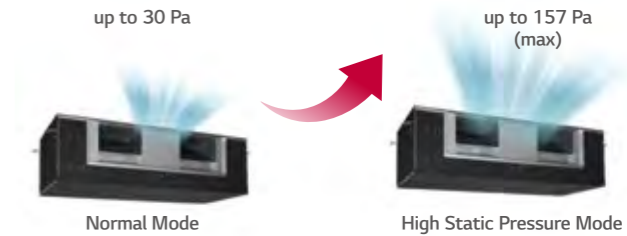


SPACE SAVING & CONVENIENT INSTALLATION

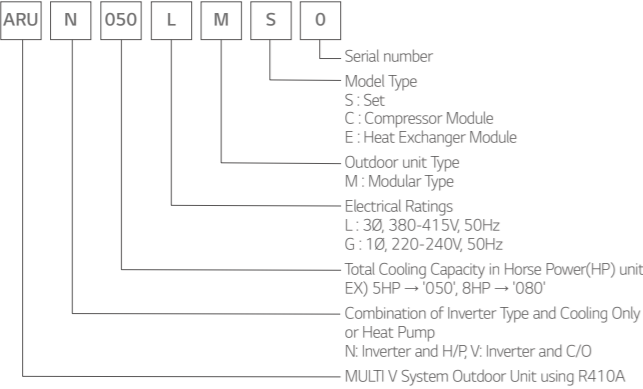
Volume



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



Nomenclature



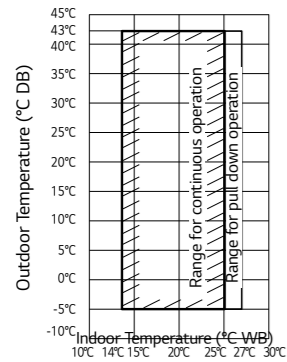
Outdoor Unit Function

| Category | Functions | Modular |
|------------------------------------|--|------------|
| Key Refrigerant Components | Variable Path of Outdoor Unit HEX | - |
| | HiPOR™ (High Pressure Oil Return) | - |
| | Humidity Sensor | - |
| | Corrosion Resistance Black Fin | ○ |
| Useful Function | Oil Sensor | - |
| | Dual Sensing | - |
| | Low Noise Operation | ○ |
| | Hgih Static Mode of Outdoor Unit Fan | ○ |
| | Partial Defrosting | - |
| | Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation) | - |
| | Indoor Cooling Comfort Mode Based Outdoor Temperature | ○ |
| | Smart Load Control (SLC) (Changing indoor discharge air temperature according to load) | ○ |
| | Outdoor Unit Control Refer to Humidity | - |
| | Defrost / Deicing | ○ |
| Reliability | High Pressure Switch | ○ |
| | Phase Protection | ○ |
| | Restart Delay (3-minutes) | ○ |
| | Self Diagnosis | ○ |
| | Soft Start | ○ |
| Central Controller | Test Run Function | - |
| | AC Ez (Simple Controller) | PQCSZ250S0 |
| | AC Ez Touch | PACEZA000 |
| | AC Smart IV | PACS4B000 |
| | AC Smart 5 | PACS5A000 |
| | ACP (Advanced Control Platform) IV | PACP4B000 |
| | ACP (Advanced Control Platform) 5 | PACP5A000 |
| BNU (Building Network Unit) | AC Manager 5 | PACM5A000 |
| | ACP Lonworks | PLNWKB000 |
| 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 | PRCTIL0 |
| | Mobile LGMV | PLGMVV100 |

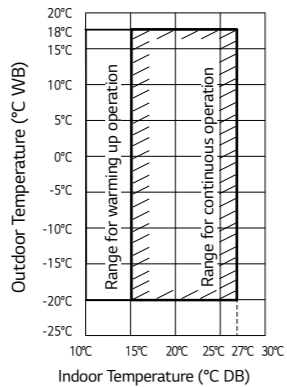
※ ○ : Applied, - : Not Applied

Heat Pump

Cooling

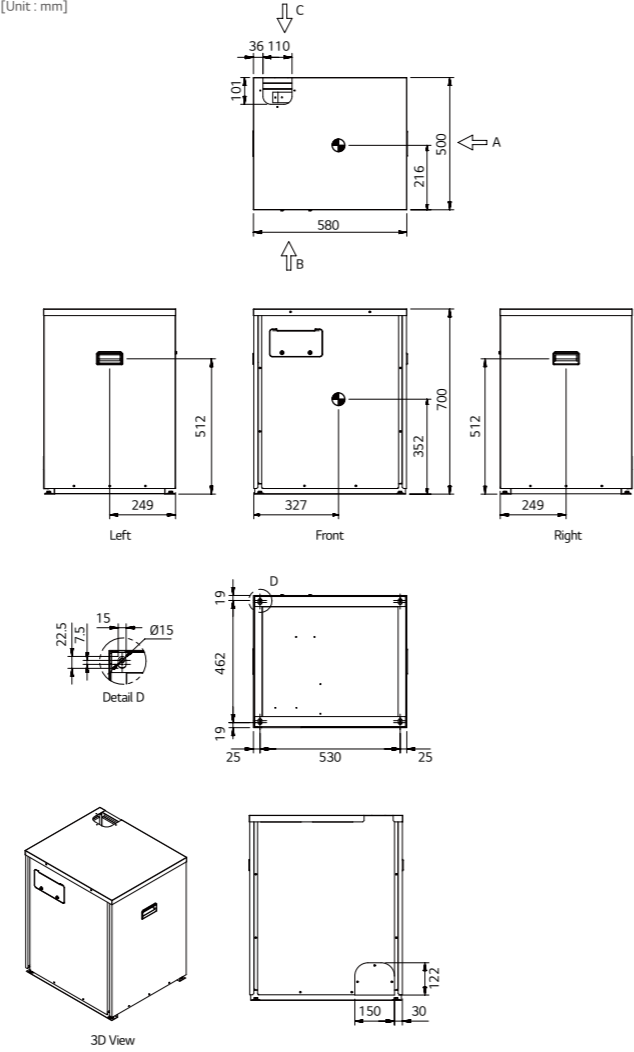


Heating



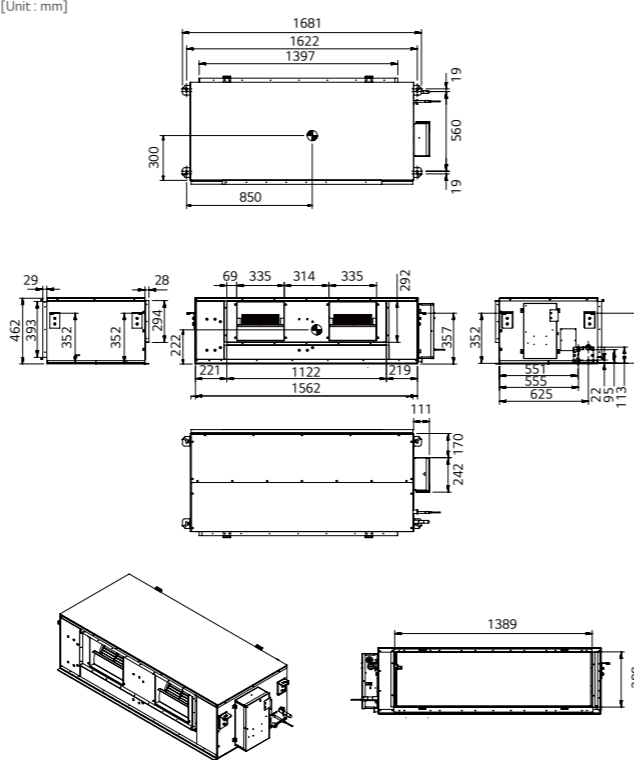
Compressor Module

[Unit : mm]



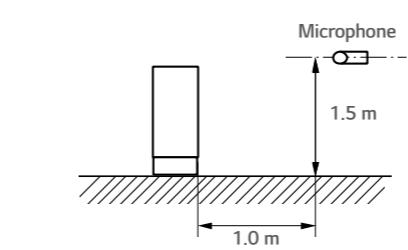
Heat Exchanger Module

[Unit : mm]



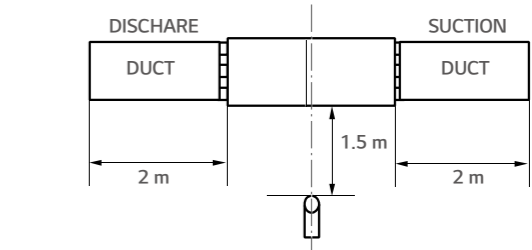
Position of Sound Pressure Level Measuring

Compressor Module



* Measuring place : Anechoic chamber

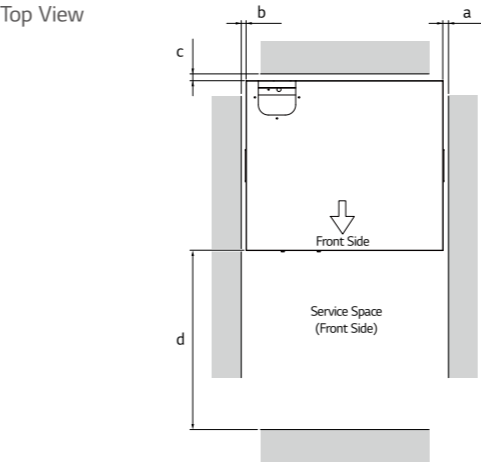
Heat Exchanger Module



* Measuring place : Anechoic chamber

Installation Space for Compressor Module

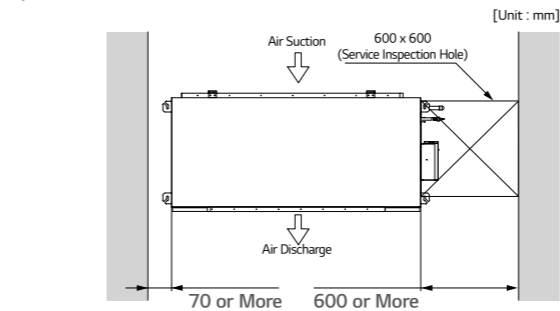
Top View



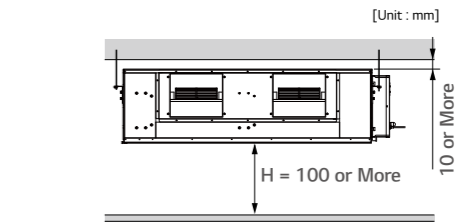
| Category | Mark | Description | Installation Space (mm) |
|-------------------|------|-------------|-------------------------|
| Compressor Module | a | Right | 10 or More |
| | b | Left | 10 or More |
| | c | Rear | 10 or More |
| | d | Front | 500 or More |
| | e | Top | 200 or More |

Installation Space for Compressor Module

Top View



Front View



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System

| HP | | | 5 | | |
|--|-------------------------|----|-------------|--|--|
| Model Name | Set | | ARUN050LMS0 | | |
| | Compressor Module | | ARUN050LMCO | | |
| | Heat Exchanger Module | | ARUN050GME0 | | |
| Capacity | Cooling* (Rated) | kW | 14.0 | | |
| | Heating* (Rated) | kW | 14.0 | | |
| | Heating* (Max.) | kW | 16.0 | | |
| Input | Cooling* (Rated) | kW | 4.12 | | |
| | Heating* (Rated) | kW | 3.59 | | |
| | Heating* (Max.) | kW | 4.32 | | |
| EER | Based on Rated Capacity | | 3.40 | | |
| SEER | | | 7.03 | | |
| COP | Based on Rated Capacity | | 3.90 | | |
| | Based on Max. Capacity | | 3.70 | | |
| SCOP | | | 4.12 | | |
| 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 reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
 - Performances are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWVB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWVB
 - 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)

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Module

| HP | | | 5 | | |
|--------------------------|------------------------------|---------------------|---------------------------|--|--------------------------------|
| Model Names | Compressor Module | | Heat Exchanger Module | | |
| | ARUN050LMCO | | ARUN050GME0 | | |
| Exterior | Color | | Morning Gray | | - |
| | RAL Code (Classic) | | RAL 7030 | | - |
| Dimensions (W x H x D) | Net | mm x No. | 580 x 700 x 500 | | 1,562 x 460 x 688 |
| | Shipping | mm x No. | 618 x 833 x 564 | | 1,806 x 537 x 825 |
| Weight | Net | kg x No. | 69 x 1 | | 84 x 1 |
| | Shipping | kg x No. | 76 x 1 | | 95 x 1 |
| Compressor | Type | | Hermetic Motor Compressor | | - |
| | Combination x No. | | (Inverter) x 1 | | - |
| | Motor Output | W x No. | 3,200 | | - |
| | Oil Type | | FVC68D (PVE) | | - |
| | Oil Charge | cc | 1,300 | | - |
| Heat Exchanger | Type | | - | | Wide Louver Plus / Black Fin |
| | Type | | - | | Sirocco Fan |
| Fan | Motor Output x Number | W x No. | - | | 400 x 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 Connctions | Liquid | mm (inch) | Ø 9.52 (3/8) to IDU | | Ø 12.7 (1/2) to Comp. Module |
| | Gas | mm (inch) | Ø 15.88 (5/8) to IDU | | Ø 19.05 (3/4) to Comp. Module |
| | Drain | mm (inch) | - | | Ø 25 (1) |
| Sound Pressure Level | Cooling (Rated) | dB(A) | 45.0 | | 45.0 |
| | Heating (Rated) | dB(A) | 45.0 | | 45.0 |
| Sound Power Level | | dB(A) | 59.0 | | 72.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C to IDU | | 1.0 ~ 1.5 x 2C 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 | | Ø, V, Hz | 3, 380-415, 50 | | 1, 220 ~ 240, 50 |

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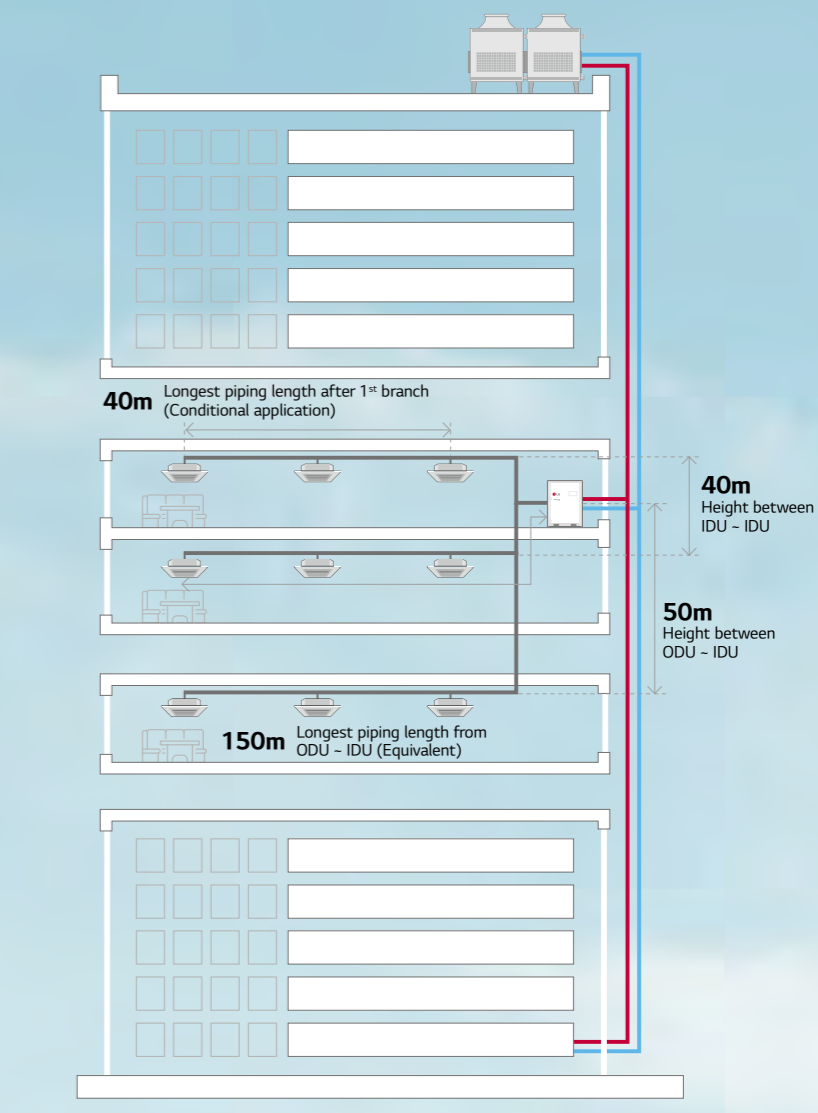
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 - Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 - Power factor could vary less than ±1% according to the operating conditions.
 - Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
 - Performances are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWVB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWVB
 - 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)

MULTI VTM WATER IV

- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 201.6kw (Cooling capacity based)
- 3Φ, 380 ~ 415V, 50Hz
- Outdoor unit installed indoor

300M
TOTAL PIPING LENGTH

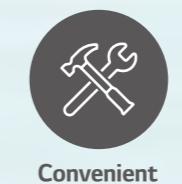
Economical,
efficient system



Energy savings



Space savings



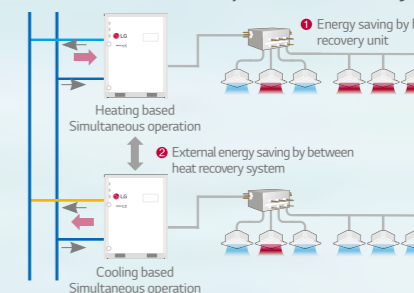
Convenient installation

How does it work?

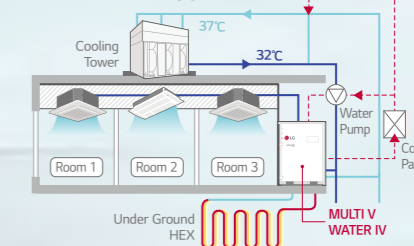
Operation independent of weather conditions



Available in Heat Pump & Heat Recovery Configuration



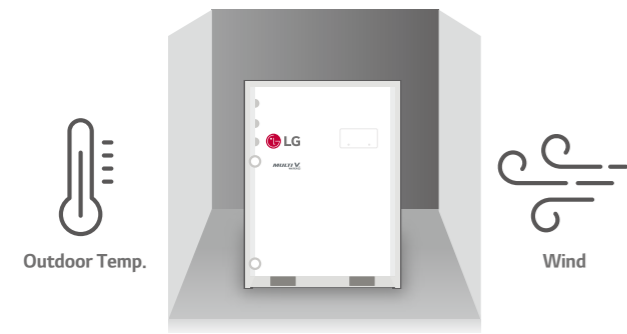
Geothermal Application



INNOVATIVE TECHNOLOGIES

High Efficiency System Regardless of External Conditions

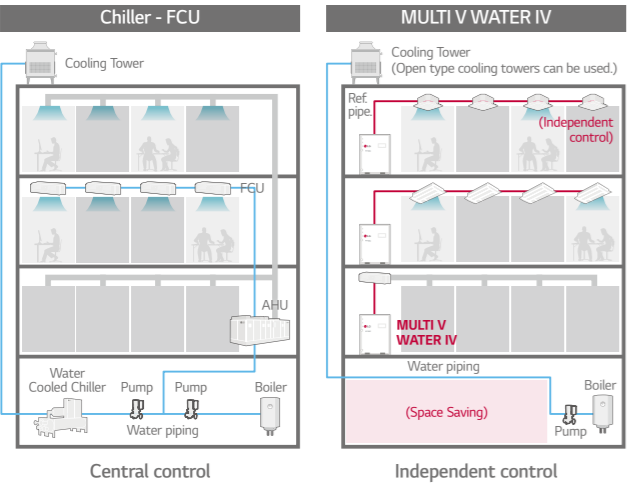
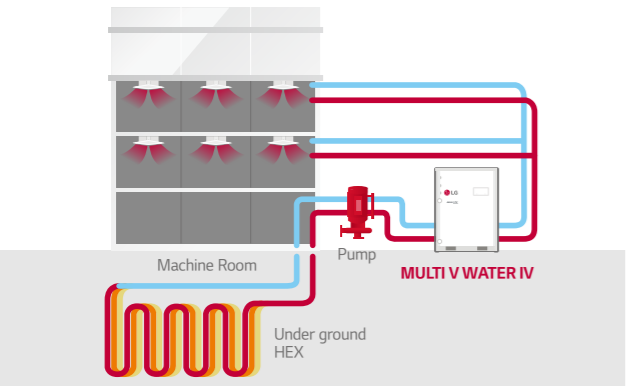
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.



MULTI V WATER IV System for Geothermal Applications

Uses underground heat sources 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.

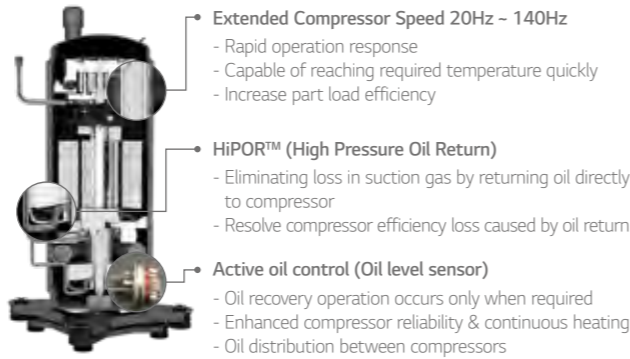


ENERGY SAVING

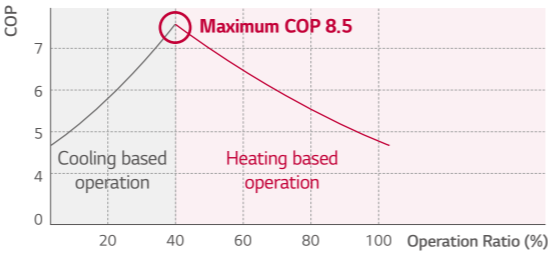
Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

With 4th generation inverter compressor, the Multi V Water IV boasts top-class energy efficiency.

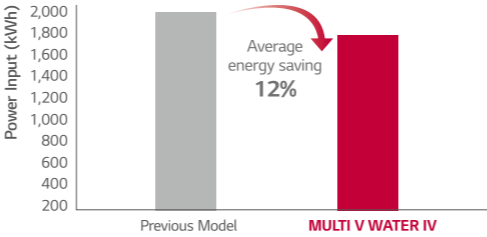


Maximum COP

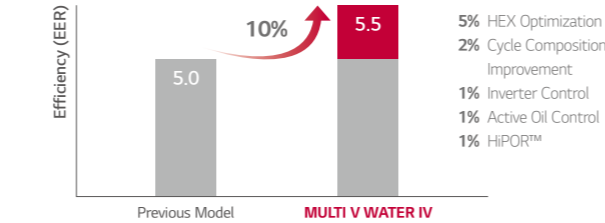


* Outdoor unit water inlet temperature : 7°C
* Indoor temperature : 20°C DB / 15°C WB
* Maximum COP Condition : Cooling 40% + Heating 60% operation

Economical, Highly Efficient System

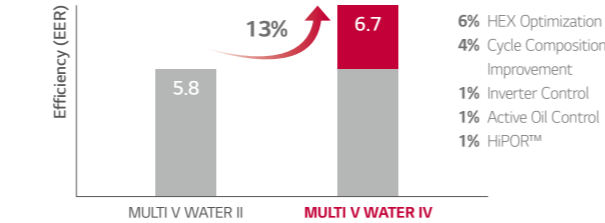


LG's 4th Generation Inverter Compressor



* Comparison between 10HP (28kW) in cooling mode

Integrated Part Load Efficiency

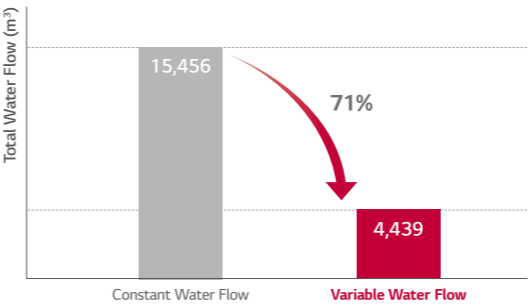
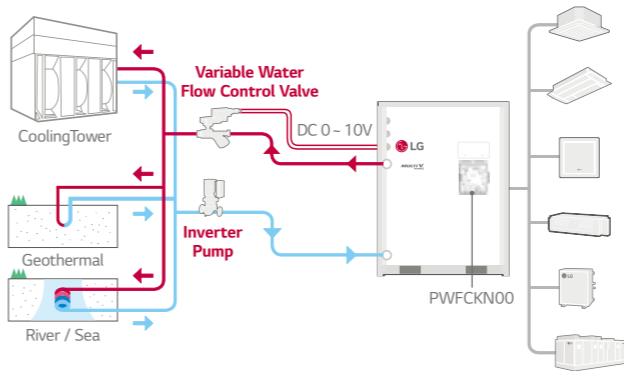


WATER SAVINGS

Variable Water Flow Control (Option)

In support of green building initiatives

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

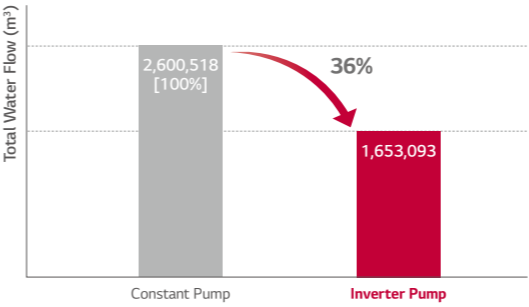


Note
1. Location : Paris, France
2. Office, 68,000m²
3. Operation time : 1,344 hours (cooling period)

Project Example : 63F (Pump : 20,064 LPM, 42.4mAq * 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%

FLEXIBLE DESIGN & SPACE SAVINGS

Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

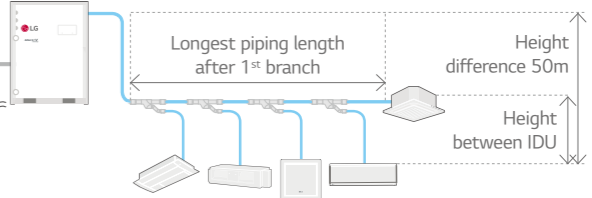
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

| HP | 8 | 10 | 14 | 20 | 22 | 24 | 28 | 30 | 34 | 40 | 42 ~ 60 | 62 ~ 80 |
|----|--------|---------|---------|---------|------|------|------|----|------|-----|-------------|-------------|
| kW | 22.4 | 28 | 39.2 | 56 | 61.6 | 67.2 | 78.4 | 84 | 95.2 | 112 | 117.6 ~ 168 | 173.6 ~ 224 |
| LG | 1 Unit | 2 Units | 3 Units | 4 Units | | | | | | | | |

Longest Piping Length

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

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

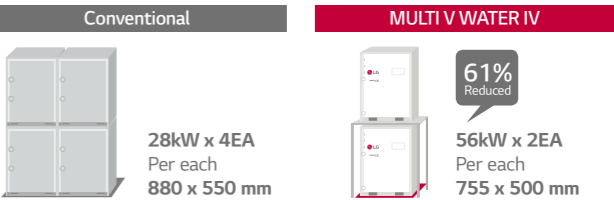


| Total Piping Length | 300m |
|--|-------------|
| Actual longest piping length (Equivalent) | 150m (175m) |
| Longest piping length after 1 st branch (Conditional application) | 40m (90m) |
| Height difference between ODU ~ IDU | 50m |
| Height difference between IDU ~ IDU | 40m |

Compact Size

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

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

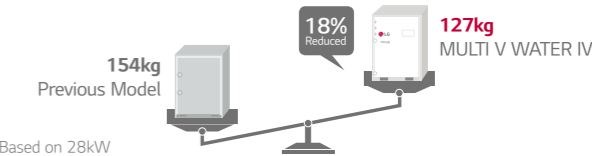


* 112kw, Floor area based

Lightweight

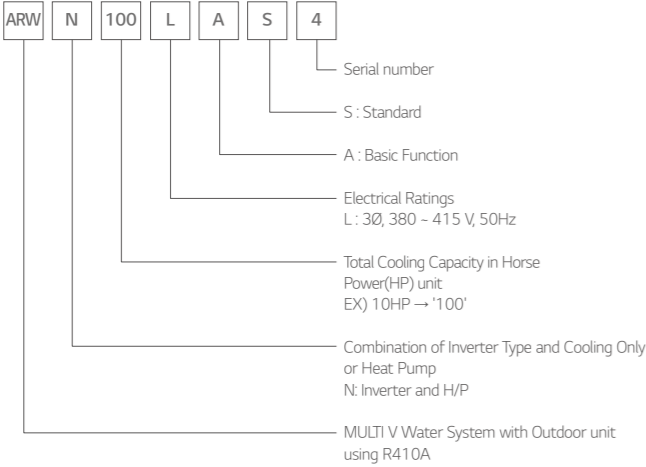
Nothing or Decrease additional load reinforcement work at building

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



* Based on 28kW

Nomenclature



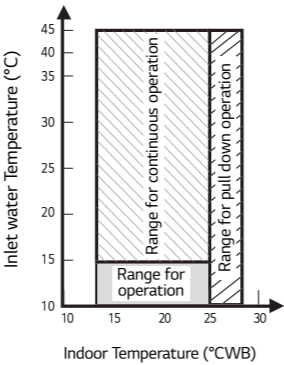
Outdoor Unit Function

| Category | Functions | MULTI V WATER IV |
|------------------------------------|--|------------------|
| 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 | PACSSA000 |
| | ACP (Advanced Control Platform) IV | PQCP22A0 |
| | ACP (Advanced Control Platform) 5 | PACP5A000 |
| BNU (Building Network Unit) | AC Manager 5 | PACM5A000 |
| | ACP Lonworks | PLNWKB000 |
| Installation | ACP BACnet | PQNFB17C0 |
| | Refrigerant Charging Kit | - |
| PDI (Power Distribution Indicator) | Variable Water Flow Valve Control Kit | PWFCKN000 |
| | Standard | PPWRDB000 |
| Cool / Heat Selector | Premium | PQNUD1S40 |
| | | PRDSBM |
| Low Ambient Kit | | - |
| IO Module (ODU Dry Contact) | | PVDSMN000 |
| Cycle Monitoring Device | LGMV | PRCTILO |
| | Mobile LGMV | PLGMVW100 |

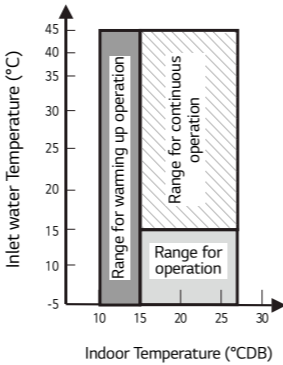
※ ○ : Applied, - : Not Applied

Operation Limits

Cooling

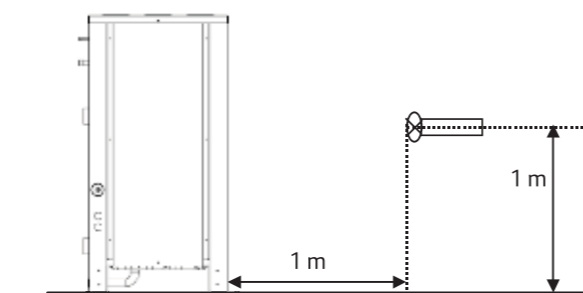


Heating



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

Position of Sound Pressure Level Measuring



Note
1. Data is valid at free field condition
2. Data is valid at nominal operating condition
3. 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
4. Sound level can be increased in static pressure mode or air guide application.

Optional Accessories

| No. | Name | Model |
|-----|----------------------------------|------------|
| 1 | Y branch pipe | ARBLN01621 |
| | | ARBLN03321 |
| | | ARBLN07121 |
| | | ARBLN14521 |
| | | ARBLN23220 |
| | | ARBL054 |
| 2 | Header | ARBL057 |
| | | ARBL104 |
| | | ARBL107 |
| | | ARBL1010 |
| | | ARBL2010 |
| 3 | Connection pipe of Outdoor Units | ARCNN21 |
| | | ARCNN31 |
| | | ARCNN41 |

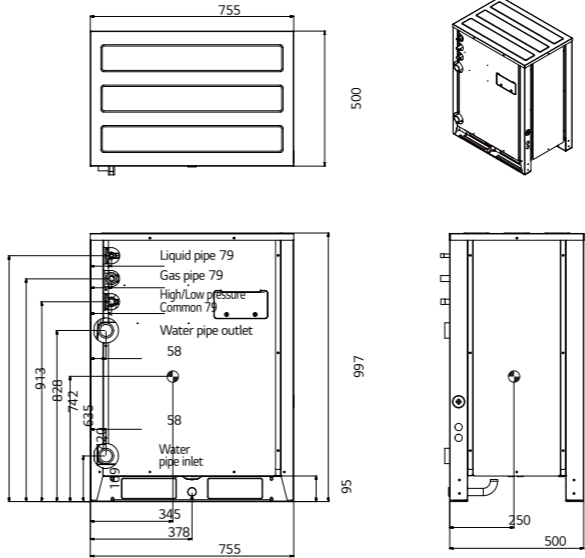
MULTI V WATER IV Heating Dissipation Value by Model

| Model | HP | Heating Dissipation Value | | |
|-------------|----|---------------------------|--------------|--------------|
| ARWN080LAS4 | 8 | 600 W | 515.9 kcal/h | 0.143 kcal/s |
| ARWN100LAS4 | 10 | 630 W | 541.7 kcal/h | 0.150 kcal/s |
| ARWN120LAS4 | 12 | 660 W | 567.5 kcal/h | 0.158 kcal/s |
| ARWN140LAS4 | 14 | 690 W | 593.3 kcal/h | 0.165 kcal/s |
| ARWN160LAS4 | 16 | 700 W | 601.9 kcal/h | 0.167 kcal/s |
| ARWN180LAS4 | 18 | 720 W | 619.1 kcal/h | 0.172 kcal/s |
| ARWN200LAS4 | 20 | 750 W | 644.9 kcal/h | 0.179 kcal/s |

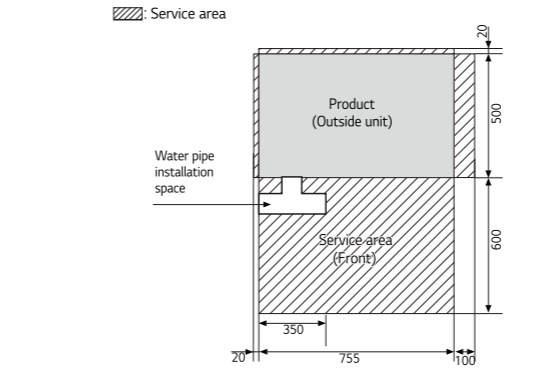
Test condition : 1) Indoor air temperature : DB 40℃, WB : 32℃
※ A design stage should be considered to ventilation system in mechanical room.

ARWN080LAS4 / ARWN100LAS4 / ARWN140LAS4 / ARWN200LAS4

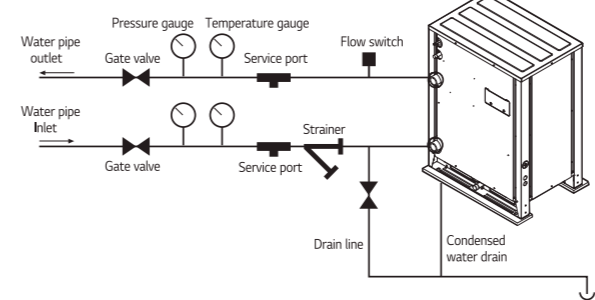
[Unit : mm]



Individual Installation



Water Piping Installation



Precaution of Installation

- Do not install the unit at the outdoors. (Installation of the unit outdoors could result in fire or electric shock.) Recommended ambient temperature of outdoor unit is between 0 ~ 40℃
- Keep the water temperature between **10 ~ 45℃**. Standard water supply temperature is 30℃ for cooling and 20℃ for heating.
- Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- Be careful of the **water purity control**. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product Data Book)
- The water pressure resistance of the water pipe system of this product is **1.98MPa**
- Always install a **trap** so that the drained water does not back flush
- Install a **pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
- Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
- Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- It is recommended to install the **flow switch** to the water collection pipe system connecting to the outdoor unit. (Flow switch acts as the 1st protection device when the heat water is not supplied.)

- 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%**)
- To protect the water cooling type product, you must install a **strainer with 50 mesh** or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.
 - Heat water supply within the plate type heat exchanger is composed of multiple small paths.
 - If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
 - When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
 - As the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
 - As a result of the damage of the heat exchanger from the freezing, the refrigerant side and the heat water source side will be mixed to make the product unusable.

REFERENCE SITE

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 1 31,000 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-friendly 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.



MULTI V WATER IV HEAT PUMP

ARWN080LAS4 / ARWN100LAS4
ARWN140LAS4



| HP | | | 8 | 10 | 14 |
|--|------------------------------|---------------------|---------------------------------|---------------------------------|---------------------------------|
| Model Name | Combination Unit | | ARWN080LAS4 | ARWN100LAS4 | ARWN140LAS4 |
| | Independent Unit | | ARWN080LAS4 | ARWN100LAS4 | ARWN140LAS4 |
| Capacity | Cooling (Rated) | kW | 22.4 | 28.0 | 39.2 |
| | Heating (Rated) | kW | 25.2 | 31.5 | 44.1 |
| Input | Cooling (Rated) | kW | 3.86 | 5.09 | 7.84 |
| | Heating (Rated) | kW | 4.2 | 5.34 | 8.17 |
| EER | | | 5.80 | 5.50 | 5.00 |
| COP | Rated Capacity | | 6.00 | 5.90 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 10.7 | 15.8 | 28.6 |
| | Rated Water Flow | LPM | 77 | 96 | 135 |
| | 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 | 4,200 x 1 | 4,200 x 1 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | | 2,800 | 2,800 | 2,800 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 12.7 (1/2) |
| | Gas Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 25.4 (1) |
| Water Connecting Pipes | Inlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 1 |
| Net Weight | | kg x No. | 127 x 1 | 127 x 1 | 127 x 1 |
| Shipping Weight | | kg x No. | 137 x 1 | 137 x 1 | 137 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 47.0 | 50.0 | 58.0 |
| | Heating | dB(A) | 51.0 | 53.0 | 57.0 |
| Sound Power Level | Cooling | dB(A) | 59.0 | 62.0 | 70.0 |
| | Heating | dB(A) | 63.0 | 65.0 | 69.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 5.8 | 5.8 | 5.8 |
| | t-CO ₂ eq. | | 12.1 | 12.1 | 12.1 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 13 (20) | 16 (25) | 23 (35) |

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)

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.)

MULTI V WATER IV HEAT PUMP

ARWN200LAS4 / ARWN160LAS4
ARWN180LAS4



| HP | | | 20 | 16 | 18 |
|--|------------------------------|---------------------|---------------------------------|---|---|
| Model Name | Combination Unit | | ARWN200LAS4 | ARWN160LAS4 | ARWN180LAS4 |
| | Independent Unit | | ARWN200LAS4 | ARWN080LAS4 ARWN100LAS4 ARWN080LAS4 | ARWN100LAS4 ARWN080LAS4 |
| Capacity | Cooling (Rated) | kW | 56.0 | 44.8 | 50.4 |
| | Heating (Rated) | kW | 63.0 | 50.4 | 56.7 |
| Input | Cooling (Rated) | kW | 11.20 | 7.72 | 8.95 |
| | Heating (Rated) | kW | 11.67 | 8.40 | 9.54 |
| EER | | | 5.00 | 5.80 | 5.63 |
| COP | Rated Capacity | | 5.40 | 6.00 | 5.94 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 | 10.7 + 10.7 | 15.8 + 10.7 |
| | Rated Water Flow | LPM | 192 | 77 + 77 | 96 + 77 |
| 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 | 4,200 x 2 | 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 3,000 | 5,600 | 5,600 |
| | Liquid Pipe | mm (inch) | Ø 12.7 (1/2) | Ø 12.7 (1/2) | Ø 12.7 (1/2) |
| | Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) |
| | Inlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) |
| Water Connecting Pipes | Outlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 |
| Net Weight | | kg x No. | 140 x 1 | 127 x 2 | 127 x 2 |
| Shipping Weight | | kg x No. | 150 x 1 | 137 x 2 | 137 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 54.0 | 50.0 | 51.8 |
| | Heating | dB(A) | 60.0 | 54.0 | 55.1 |
| Sound Power Level | Cooling | dB(A) | 66.0 | 62.0 | 63.8 |
| | Heating | dB(A) | 72.0 | 66.0 | 67.1 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 3.0 | 11.6 | 11.6 |
| | t-CO ₂ eq. | | 6.3 | 24.2 | 24.2 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 32 (50) | 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)
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.)

MULTI V WATER IV HEAT PUMP

ARWN220LAS4 / ARWN240LAS4
ARWN280LAS4



| HP | | | 22 | 24 | 28 |
|--|------------------------------|---------------------|---|---|---|
| Model Name | Combination Unit | | ARWN220LAS4 | ARWN240LAS4 | ARWN280LAS4 |
| | Independent Unit | | ARWN140LAS4 ARWN080LAS4 | ARWN140LAS4 ARWN100LAS4 | ARWN140LAS4 ARWN140LAS4 |
| Capacity | Cooling (Rated) | kW | 61.6 | 67.2 | 78.4 |
| | Heating (Rated) | kW | 69.3 | 75.6 | 88.2 |
| Input | Cooling (Rated) | kW | 11.70 | 12.93 | 15.68 |
| | Heating (Rated) | kW | 12.37 | 13.51 | 16.34 |
| EER | | | 5.26 | 5.20 | 5.00 |
| COP | Rated Capacity | | 5.60 | 5.60 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 28.6 + 10.7 | 28.6 + 15.8 | 28.6 + 28.6 |
| | Rated Water Flow | LPM | 135 + 77 | 135 + 96 | 135 + 135 |
| 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. | 4,200 x 2 | 4,200 x 2 | 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 5,600 | 5,600 | 5,600 |
| | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| Water Connecting Pipes | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 |
| Net Weight | | kg x No. | 127 x 2 | 127 x 2 | 127 x 2 |
| Shipping Weight | | kg x No. | 137 x 2 | 137 x 2 | 137 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 58.3 | 58.6 | 59.0 |
| | Heating | dB(A) | 58.0 | 58.5 | 58.0 |
| Sound Power Level | Cooling | dB(A) | 70.3 | 70.6 | 72.0 |
| | Heating | dB(A) | 70.0 | 70.5 | 71.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 11.6 | 11.6 | 11.6 |
| | t-CO ₂ eq. | | 24.2 | 24.2 | 24.2 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 35 (44) | 39 (48) | 45 (56) |

Note

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

MULTI V WATER IV HEAT PUMP

ARWN220LAS4 / ARWN240LAS4
ARWN280LAS4



| HP | | | 30 | 34 | 40 |
|--|------------------------------|-----------|---|---|---|
| Model Name | Combination Unit | | ARWN300LAS4 | ARWN340LAS4 | ARWN400LAS4 |
| | Independent Unit | | ARWN200LAS4 ARWN100LAS4 | ARWN200LAS4 ARWN140LAS4 | ARWN200LAS4 ARWN200LAS4 |
| Capacity | Cooling (Rated) | kW | 84.0 | 95.2 | 112.0 |
| | Heating (Rated) | kW | 94.5 | 107.1 | 126.0 |
| Input | Cooling (Rated) | kW | 16.29 | 19.04 | 22.40 |
| | Heating (Rated) | kW | 17.01 | 19.84 | 23.34 |
| EER | | | 5.16 | 5.00 | 5.00 |
| COP | Rated Capacity | | 5.56 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 15.8 | 30.1 + 28.6 | 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 96 | 192 + 135 | 192 + 192 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 2 |
| | Motor Output x Number | W x No. | 5,300 x 1 + 4,200 x 1 | 5,300 x 1 + 4,200 x 1 | 5,300 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 5,800 | 5,800 | 6,000 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 |
| Net Weight | | kg x No. | (140 x 1) + (127 x 1) | (140 x 1) + (127 x 1) | 140 x 2 |
| Shipping Weight | | kg x No. | (150 x 1) + (137 x 1) | (150 x 1) + (137 x 1) | 150 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 55.5 | 59.0 | 55.0 |
| | Heating | dB(A) | 60.8 | 61.0 | 61.0 |
| Sound Power Level | Cooling | dB(A) | 67.5 | 72.0 | 68.0 |
| | Heating | dB(A) | 72.8 | 74.0 | 74.0 |
| Communication Cable | mm² x No. (VCTF-SB) | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 8.8 | 8.8 | 6.0 |
| | t-CO ₂ eq. | | 18.4 | 18.4 | 12.5 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 49 (60) | 55 (64) | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT PUMP

ARWN420LAS4 / ARWN440LAS4
ARWN480LAS4



| HP | | | 42 | 44 | 48 |
|--|------------------------------|-----------|--|--|--|
| Model Name | Combination Unit | | ARWN420LAS4 | ARWN440LAS4 | ARWN480LAS4 |
| | Independent Unit | | ARWN200LAS4 ARWN140LAS4 ARWN080LAS4 | ARWN200LAS4 ARWN140LAS4 ARWN100LAS4 | ARWN200LAS4 ARWN140LAS4 ARWN140LAS4 |
| Capacity | Cooling (Rated) | kW | 117.6 | 123.2 | 134.4 |
| | Heating (Rated) | kW | 132.3 | 138.6 | 151.2 |
| Input | Cooling (Rated) | kW | 22.9 | 24.13 | 26.88 |
| | Heating (Rated) | kW | 24.04 | 25.18 | 28.01 |
| EER | | | 5.14 | 5.11 | 5.00 |
| COP | Rated Capacity | | 5.50 | 5.50 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 28.6 + 10.7 | 30.1 + 28.6 + 15.8 | 30.1 + 28.6 + 28.6 |
| | Rated Water Flow | LPM | 192 + 135 + 77 | 192 + 135 + 96 | 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 1 + 4,200 x 2 | 5,300 x 1 + 4,200 x 2 | 5,300 x 1 + 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 8,600 | 8,600 | 8,600 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 |
| Net Weight | | kg x No. | (140 x 1) + (127 X 2) | (140 x 1) + (127 X 2) | (140 x 1) + (127 X 2) |
| Shipping Weight | | kg x No. | (150 x 1) + (137 X 2) | (150 x 1) + (137 X 2) | (150 x 1) + (137 X 2) |
| Sound Pressure Level | Cooling | dB(A) | 59.7 | 59.9 | 60.0 |
| | Heating | dB(A) | 62.1 | 62.3 | 62.0 |
| Sound Power Level | Cooling | dB(A) | 71.7 | 71.9 | 74.0 |
| | Heating | dB(A) | 74.1 | 74.3 | 76.0 |
| Communication Cable | mm² x No. (VCTF-SB) | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 14.6 | 14.6 | 14.6 |
| | t-CO ₂ eq. | | 30.5 | 30.5 | 30.5 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT PUMP

ARWN500LAS4 / ARWN540LAS4
ARWN600LAS4



| HP | | | 50 | 54 | 60 |
|--|------------------------------|---------------------|--|--|--|
| Model Name | Combination Unit | | ARWN500LAS4 | ARWN540LAS4 | ARWN600LAS4 |
| | Independent Unit | | ARWN200LAS4 ARWN200LAS4 ARWN100LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 |
| Capacity | Cooling (Rated) | kW | 140.0 | 151.2 | 168.0 |
| | Heating (Rated) | kW | 157.5 | 170.1 | 189.0 |
| Input | Cooling (Rated) | kW | 27.49 | 30.24 | 33.60 |
| | Heating (Rated) | kW | 28.68 | 31.51 | 35.01 |
| EER | | | 5.09 | 5.00 | 5.00 |
| COP | Rated Capacity | | 5.49 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 15.8 | 30.1 + 28.6 + 28.6 | 30.1 + 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 192 + 96 | 192 + 192 + 135 | 192 + 192+ 192 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 2 + 4,200 x 1 | 5,300 x 2 + 4,200 x 1 | 5,300 x 3 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 8,800 | 8,800 | 9,000 |
| | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| Water Connecting Pipes | Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 |
| Net Weight | | kg x No. | (140 x 2) + (127 x 1) | (140 x 2) + (127 x 1) | 140 x 3 |
| Shipping Weight | | kg x No. | (150 x 2) + (137 x 1) | (150 x 2) + (137 x 1) | 150 x 3 |
| Sound Pressure Level | Cooling | dB(A) | 57.8 | 60.0 | 56.0 |
| | Heating | dB(A) | 63.4 | 62.0 | 62.0 |
| Sound Power Level | Cooling | dB(A) | 69.8 | 74.0 | 70.0 |
| | Heating | dB(A) | 75.4 | 76.0 | 76.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 11.8 | 11.8 | 9.0 |
| | t-CO ₂ eq. | | 24.6 | 24.6 | 18.8 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT PUMP

ARWN620LAS4 / ARWN640LAS4
ARWN680LAS4



| HP | | | 62 | 64 | 68 |
|--|------------------------------|---------------------|---|---|---|
| Model Name | Combination Unit | | ARWN620LAS4 | ARWN640LAS4 | ARWN680LAS4 |
| | Independent Unit | | ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN080LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN100LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4 |
| Capacity | Cooling (Rated) | kW | 173.6 | 179.2 | 190.4 |
| | Heating (Rated) | kW | 195.3 | 201.6 | 214.2 |
| Input | Cooling (Rated) | kW | 34.10 | 35.33 | 38.08 |
| | Heating (Rated) | kW | 35.71 | 36.85 | 39.68 |
| EER | | | 5.09 | 5.07 | 5.00 |
| COP | Rated Capacity | | 5.47 | 5.47 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 28.6 + 10.7 | 30.1 + 30.1 + 28.6 + 15.8 | 30.1 + 30.1 + 28.6 + 28.6 |
| | Rated Water Flow | LPM | 192 + 192 + 135 + 77 | 192 + 192 + 135 + 96 | 192 + 192 + 135 + 135 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 |
| | Motor Output x Number | W x No. | 5,300 x 2 + 4,200 x 2 | 5,300 x 2 + 4,200 x 2 | 5,300 x 2 + 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 11,600 | 11,600 | 11,600 |
| | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| Water Connecting Pipes | Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 53.98 (2-1/8) |
| | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 |
| Net Weight | | kg x No. | (140 x 2) + (127 x 2) | (140 x 2) + (127 x 2) | (140 x 2) + (127 x 2) |
| Shipping Weight | | kg x No. | (150 x 2) + (137 x 2) | (150 x 2) + (137 x 2) | (150 x 2) + (137 x 2) |
| Sound Pressure Level | Cooling | dB(A) | 60.7 | 60.9 | 61.0 |
| | Heating | dB(A) | 64.2 | 64.3 | 63.0 |
| Sound Power Level | Cooling | dB(A) | 72.7 | 72.9 | 75.0 |
| | Heating | dB(A) | 76.2 | 76.3 | 77.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 17.6 | 17.6 | 17.6 |
| | t-CO ₂ eq. | | 36.7 | 36.7 | 36.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT PUMP

ARWN700LAS4 / ARWN740LAS4
ARWN800LAS4



| HP | | | 70 | 74 | 80 |
|--|------------------------------|-----------|---|---|---|
| Model Name | Combination Unit | | ARWN700LAS4 | ARWN740LAS4 | ARWN800LAS4 |
| | Independent Unit | | ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 | ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 |
| Capacity | Cooling (Rated) | kW | 196.0 | 207.2 | 224.0 |
| | Heating (Rated) | kW | 220.5 | 233.1 | 252.0 |
| Input | Cooling (Rated) | kW | 38.69 | 41.44 | 44.80 |
| | Heating (Rated) | kW | 40.35 | 43.18 | 46.68 |
| EER | | | 5.07 | 5.00 | 5.00 |
| COP | Rated Capacity | | 5.46 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 30.1 + 15.8 | 30.1 + 30.1 + 30.1 + 28.6 | 30.1 + 30.1 + 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 192 + 192 + 96 | 192 + 192 + 192 + 135 | 192 + 192 + 192 + 192 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 |
| | Motor Output x Number | W x No. | 5,300 x 3 + 4,200 x 1 | 5,300 x 3 + 4,200 x 1 | 5,300 x 4 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 11,800 | 11,800 | 12,000 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 |
| Net Weight | | kg x No. | (140 x 3) + (127 x 1) | (140 x 3) + (127 x 1) | 140 x 4 |
| Shipping Weight | | kg x No. | (150 x 3) + (137 x 1) | (150 x 3) + (137 x 1) | 150 x 4 |
| Sound Pressure Level | Cooling | dB(A) | 59.3 | 61.0 | 57.0 |
| | Heating | dB(A) | 65.1 | 63.0 | 63.0 |
| Sound Power Level | Cooling | dB(A) | 71.3 | 75.0 | 71.0 |
| | Heating | dB(A) | 77.1 | 77.0 | 77.0 |
| Communication Cable | mm² x No. (VCTF-SB) | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| | | | | | |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 14.8 | 14.8 | 12.0 |
| | t-CO ₂ eq. | | 30.9 | 30.9 | 25.1 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT RECOVERY

ARWB080LAS4 / ARWB100LAS4
ARWB140LAS4



| HP | | | 8 | 10 | 14 |
|--|------------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|
| Model Name | Combination Unit | | ARWB080LAS4 | ARWB100LAS4 | ARWB140LAS4 |
| | Independent Unit | | ARWB080LAS4 | ARWB100LAS4 | ARWB140LAS4 |
| Capacity | Cooling (Rated) | kW | 22.4 | 28.0 | 39.2 |
| | Heating (Rated) | kW | 25.2 | 31.5 | 44.1 |
| Input | Cooling (Rated) | kW | 3.86 | 5.09 | 7.84 |
| | Heating (Rated) | kW | 4.20 | 5.34 | 8.17 |
| EER | | | 5.80 | 5.50 | 5.00 |
| COP | Rated Capacity | | 6.00 | 5.90 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 10.7 | 15.8 | 28.6 |
| | Rated Water Flow | LPM | 77 | 96 | 135 |
| 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. | 4,200 x 1 | 4,200 x 1 | 4,200 x 1 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 2,800 | 2,800 | 2,800 |
| | Liquid Pipe | mm (inch) | Ø 9.52 (3/8) | Ø 9.52 (3/8) | Ø 12.7 (1/2) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 25.4 (1) |
| | High Pressure Gas Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 1 |
| Net Weight | | kg x No. | 127 x 1 | 127 x 1 | 127 x 1 |
| Shipping Weight | | kg x No. | 137 x 1 | 137 x 1 | 137 x 1 |
| Sound Pressure Level | Cooling | dB(A) | 47.0 | 50.0 | 58.0 |
| | Heating | dB(A) | 51.0 | 53.0 | 57.0 |
| Sound Power Level | Cooling | dB(A) | 59.0 | 62.0 | 70.0 |
| | Heating | dB(A) | 63.0 | 65.0 | 69.0 |
| Communication Cable | mm² x No. (VCTF-SB) | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| | | | | | |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 5.8 | 5.8 | 5.8 |
| | t-CO ₂ eq. | | 12.1 | 12.1 | 12.1 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 13 (20) | 16 (25) | 23 (35) |

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)

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.)

MULTI V WATER IV HEAT RECOVERY

ARWB200LAS4 / ARWB160LAS4
ARWB180LAS4



| HP | | | 20 | 16 | 18 |
|--|------------------------------|---------------------|---------------------------------|---|---|
| Model Name | Combination Unit | | ARWB200LAS4 | ARWB160LAS4 | ARWB180LAS4 |
| | Independent Unit | | ARWB200LAS4 | ARWB080LAS4 ARWB080LAS4 | ARWB100LAS4 ARWB080LAS4 |
| Capacity | Cooling (Rated) | kW | 56.0 | 44.8 | 50.4 |
| | Heating (Rated) | kW | 63.0 | 50.4 | 56.7 |
| Input | Cooling (Rated) | kW | 11.20 | 7.72 | 8.95 |
| | Heating (Rated) | kW | 11.67 | 8.40 | 9.54 |
| EER | | | 5.00 | 5.80 | 5.63 |
| COP | Rated Capacity | | 5.40 | 6.00 | 5.94 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 | 10.7 + 10.7 | 15.8 + 10.7 |
| | Rated Water Flow | LPM | 192 | 77 + 77 | 96 + 77 |
| 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 | 4,200 x 2 | 4,200 x 2 |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) | FVC68D(PVE) |
| | Oil Charge | cc | 3,000 | 5,600 | 5,600 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 12.7(1/2) | Ø 12.7(1/2) | Ø 12.7(1/2) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 28.58(1-1/8) | Ø 28.58(1-1/8) | Ø 28.58(1-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 19.05(3/4) | Ø 19.05(3/4) | Ø 19.05(3/4) |
| Water Connecting Pipes | Inlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) | 40A(PT 1-1/2) + 40A(PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) | 20A(PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 1 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 |
| Net Weight | | kg x No. | 140 x 1 | 127 x 2 | 127 x 2 |
| Shipping Weight | | kg x No. | 150 x 1 | 137 x 2 | 137 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 54.0 | 50.0 | 52.0 |
| | Heating | dB(A) | 60.0 | 54.0 | 55.0 |
| Sound Power Level | Cooling | dB(A) | 66.0 | 62.0 | 64.0 |
| | Heating | dB(A) | 72.0 | 66.0 | 67.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C | 1.0 - 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 3.0 | 11.6 | 11.6 |
| | t-CO₂ eq. | | 6.3 | 24.2 | 24.2 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 32(50) | 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)

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.)

MULTI V WATER IV HEAT RECOVERY

ARWB220LAS4 / ARWB240LAS4
ARWB280LAS4



| HP | | | 22 | 24 | 28 | |
|--|------------------------------|---------------------|---|---|---|--|
| Model Name | Combination Unit | | ARWB220LAS4 | ARWB240LAS4 | ARWB280LAS4 | |
| | Independent Unit | | ARWB140LAS4 ARWB080LAS4 | ARWB140LAS4 ARWB100LAS4 | ARWB140LAS4 ARWB140LAS4 | |
| Capacity | Cooling (Rated) | kW | 61.6 | 67.2 | 78.4 | |
| | Heating (Rated) | kW | 69.3 | 75.6 | 88.2 | |
| Input | Cooling (Rated) | kW | 11.70 | 12.93 | 15.68 | |
| | Heating (Rated) | kW | 12.37 | 13.51 | 16.34 | |
| EER | | | 5.26 | 5.20 | 5.00 | |
| COP | Rated Capacity | | 5.60 | 5.60 | 5.40 | |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate | |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 | |
| | Head Loss | kPa | 28.6 + 10.7 | 28.6 + 15.8 | 28.6 + 28.6 | |
| | Rated Water Flow | LPM | 135 + 77 | 135 + 96 | 135 + 135 | |
| | | | | | | |
| 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. | 4,200 x 2 | 4,200 x 2 | 4,200 x 2 | |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) | |
| | Oil Charge | cc | 5,600 | 5,600 | 5,600 | |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | |
| | Low Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | |
| | High Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 | |
| Net Weight | | kg x No. | 127 x 2 | 127 x 2 | 127 x 2 | |
| Shipping Weight | | kg x No. | 137 x 2 | 137 x 2 | 137 x 2 | |
| Sound Pressure Level | Cooling | dB(A) | 58.0 | 59.0 | 59.0 | |
| | Heating | dB(A) | 58.0 | 58.0 | 58.0 | |
| Sound Power Level | Cooling | dB(A) | 70.0 | 71.0 | 72.0 | |
| | Heating | dB(A) | 70.0 | 70.0 | 71.0 | |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A | |
| | Precharged Amount in Factory | kg | 11.6 | 11.6 | 11.6 | |
| | t-CO₂ eq. | | 24.2 | 24.2 | 24.2 | |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 | |
| Number of Maximum Connectable Indoor Units¹) | | | 35 (44) | 39 (48) | 45 (56) | |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

MULTI V WATER IV HEAT RECOVERY

ARWB300LAS4 / ARWB340LAS4
ARWB400LAS4



| HP | | | 30 | 34 | 40 |
|--|------------------------------|---------------------|---|---|---|
| Model Name | Combination Unit | | ARWB300LAS4 | ARWB340LAS4 | ARWB400LAS4 |
| | Independent Unit | | ARWB200LAS4 ARWB100LAS4 | ARWB200LAS4 ARWB140LAS4 | ARWB200LAS4 ARWB200LAS4 |
| Capacity | Cooling (Rated) | kW | 84.0 | 95.2 | 112.0 |
| | Heating (Rated) | kW | 94.5 | 107.1 | 126.0 |
| Input | Cooling (Rated) | kW | 16.29 | 19.04 | 22.40 |
| | Heating (Rated) | kW | 17.01 | 19.84 | 23.34 |
| EER | | | 5.16 | 5.00 | 5.00 |
| COP | Rated Capacity | | 5.56 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 15.8 | 30.1 + 28.6 | 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 96 | 192 + 135 | 192 + 192 |
| 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 1 + 4,200 x 1 | 5,300 x 1 + 4,200 x 1 | 5,300 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| Refrigerant Connecting Pipes | Oil Charge | cc | 5,800 | 5,800 | 6,000 |
| | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 28.58 (1-1/8) | Ø 28.58 (1-1/8) | Ø 34.9 (1-3/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 | (804 x 1,143 x 630) x 2 |
| Net Weight | | kg x No. | (140 x 1) + (127 x 1) | (140 x 1) + (127 x 1) | 140 x 2 |
| Shipping Weight | | kg x No. | (150 x 1) + (137 x 1) | (150 x 1) + (137 x 1) | 150 x 2 |
| Sound Pressure Level | Cooling | dB(A) | 55.0 | 59.0 | 55.0 |
| | Heating | dB(A) | 61.0 | 61.0 | 61.0 |
| Sound Power Level | Cooling | dB(A) | 67.0 | 72.0 | 68.0 |
| | Heating | dB(A) | 73.0 | 74.0 | 74.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 8.8 | 8.8 | 6.0 |
| | t-CO ₂ eq. | | 18.4 | 18.4 | 12.5 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 49 (60) | 55 (64) | 64 |

Note

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

MULTI V WATER IV HEAT RECOVERY

ARWB420LAS4 / ARWB440LAS4
ARWB480LAS4



| HP | | | 42 | 44 | 48 |
|--|------------------------------|---------------------|--|--|--|
| Model Name | Combination Unit | | ARWB420LAS4 | ARWB440LAS4 | ARWB480LAS4 |
| | Independent Unit | | ARWB200LAS4 ARWB140LAS4 ARWB080LAS4 | ARWB200LAS4 ARWB140LAS4 ARWB100LAS4 | ARWB200LAS4 ARWB140LAS4 ARWB140LAS4 |
| Capacity | Cooling (Rated) | kW | 117.6 | 123.2 | 134.4 |
| | Heating (Rated) | kW | 132.3 | 138.6 | 151.2 |
| Input | Cooling (Rated) | kW | 22.9 | 24.13 | 26.88 |
| | Heating (Rated) | kW | 24.04 | 25.18 | 28.01 |
| EER | | | 5.14 | 5.11 | 5.00 |
| COP | Rated Capacity | | 5.50 | 5.50 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 28.6 + 10.7 | 30.1 + 28.6 + 15.8 | 30.1 + 28.6 + 28.6 |
| | Rated Water Flow | LPM | 192 + 135 + 77 | 192 + 135 + 96 | 192 + 135 + 135 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Motor Output x Number | W x No. | 5,300 x 1 + 4,200 x 2 | 5,300 x 1 + 4,200 x 2 | 5,300 x 1 + 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 8,600 | 8,600 | 8,600 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 |
| Net Weight | | kg x No. | (140 x 1) + (127 X 2) | (140 x 1) + (127 X 2) | (140 x 1) + (127 X 2) |
| Shipping Weight | | kg x No. | (150 x 1) + (137 X 2) | (150 x 1) + (137 X 2) | (150 x 1) + (137 X 2) |
| Sound Pressure Level | Cooling | dB(A) | 60.0 | 60.0 | 60.0 |
| | Heating | dB(A) | 62.0 | 62.0 | 62.0 |
| Sound Power Level | Cooling | dB(A) | 72.0 | 72.0 | 74.0 |
| | Heating | dB(A) | 74.0 | 74.0 | 76.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 14.6 | 14.6 | 14.6 |
| | t-CO ₂ eq. | | 30.5 | 30.5 | 30.5 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

MULTI V WATER IV HEAT RECOVERY

ARWB500LAS4 / ARWB540LAS4
ARWB600LAS4



| HP | | | 50 | 54 | 60 |
|--|------------------------------|---------------------|--|--|--|
| Model Name | Combination Unit | | ARWB500LAS4 | ARWB540LAS4 | ARWB600LAS4 |
| | Independent Unit | | ARWB200LAS4 ARWB200LAS4 ARWB100LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 |
| Capacity | Cooling (Rated) | kW | 140.0 | 151.2 | 168.0 |
| | Heating (Rated) | kW | 157.5 | 170.1 | 189.0 |
| Input | Cooling (Rated) | kW | 27.49 | 30.24 | 33.60 |
| | Heating (Rated) | kW | 28.68 | 31.51 | 35.01 |
| EER | | | 5.09 | 5.00 | 5.00 |
| COP | Rated Capacity | | 5.49 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 15.8 | 30.1 + 28.6 + 28.6 | 30.1 + 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 192 + 96 | 192 + 192 + 135 | 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 2 + 4,200 x 1 | 5,300 x 2 + 4,200 x 1 | 5,300 x 3 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | | 8,800 | 8,800 | 9,000 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 19.05 (3/4) | Ø 19.05 (3/4) | Ø 19.05 (3/4) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) | Ø 34.9 (1-3/8) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 | (804 x 1,143 x 630) x 3 |
| Net Weight | | kg x No. | (140 x 2) + (127 X 1) | (140 x 2) + (127 X 1) | 140 x 3 |
| Shipping Weight | | kg x No. | (150 x 2) + (137 X 1) | (150 x 2) + (137 X 1) | 150 x 3 |
| Sound Pressure Level | Cooling | dB(A) | 58.0 | 60.0 | 56.0 |
| | Heating | dB(A) | 63.0 | 62.0 | 62.0 |
| Sound Power Level | Cooling | dB(A) | 70.0 | 74.0 | 70.0 |
| | Heating | dB(A) | 75.0 | 76.0 | 76.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 11.8 | 11.8 | 9.0 |
| | t-CO ₂ eq. | | 24.6 | 24.6 | 18.8 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

MULTI V WATER IV HEAT RECOVERY

ARWB620LAS4 / ARWB640LAS4
ARWB680LAS4



| HP | | | 62 | 64 | 68 |
|--|------------------------------|---------------------|---|---|---|
| Model Name | Combination Unit | | ARWB620LAS4 | ARWB640LAS4 | ARWB680LAS4 |
| | Independent Unit | | ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB080LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB100LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB140LAS4 |
| Capacity | Cooling (Rated) | kW | 173.6 | 179.2 | 190.4 |
| | Heating (Rated) | kW | 195.3 | 201.6 | 214.2 |
| Input | Cooling (Rated) | kW | 34.10 | 35.33 | 38.08 |
| | Heating (Rated) | kW | 35.71 | 36.85 | 39.68 |
| EER | | | 5.09 | 5.07 | 5.00 |
| COP | Rated Capacity | | 5.47 | 5.47 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 28.6 + 10.7 | 30.1 + 30.1 + 28.6 + 15.8 | 30.1 + 30.1 + 28.6 + 28.6 |
| | Rated Water Flow | LPM | 192 + 192 + 135 + 77 | 192 + 192 + 135 + 96 | 192 + 192 + 135 + 135 |
| | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| Compressor | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 |
| | Motor Output x Number | W x No. | 5,300 x 2 + 4,200 x 2 | 5,300 x 2 + 4,200 x 2 | 5,300 x 2 + 4,200 x 2 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | | 11,600 | 11,600 | 11,600 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 53.98 (2-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 41.3 (1-5/8) | Ø 41.3 (1-5/8) | Ø 44.5 (1-3/4) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 |
| Net Weight | | kg x No. | (140 x 2) + (127 x 2) | (140 x 2) + (127 x 2) | (140 x 2) + (127 x 2) |
| Shipping Weight | | kg x No. | (150 x 2) + (137 x 2) | (150 x 2) + (137 x 2) | (150 x 2) + (137 x 2) |
| Sound Pressure Level | Cooling | dB(A) | 61.0 | 61.0 | 61.0 |
| | Heating | dB(A) | 64.0 | 64.0 | 63.0 |
| Sound Power Level | Cooling | dB(A) | 73.0 | 73.0 | 75.0 |
| | Heating | dB(A) | 76.0 | 76.0 | 77.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 17.6 | 17.6 | 17.6 |
| | t-CO ₂ eq. | | 36.7 | 36.7 | 36.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

MULTI V WATER IV HEAT RECOVERY

ARWB700LAS4 / ARWB740LAS4
ARWB800LAS4



| HP | | | 70 | 74 | 80 |
|--|------------------------------|---------------------|---|---|---|
| Model Name | Combination Unit | | ARWB700LAS4 | ARWB740LAS4 | ARWB800LAS4 |
| | Independent Unit | | ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB100LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 | ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 |
| Capacity | Cooling (Rated) | kW | 196.0 | 207.2 | 224.0 |
| | Heating (Rated) | kW | 220.5 | 233.1 | 252.0 |
| Input | Cooling (Rated) | kW | 38.69 | 41.44 | 44.80 |
| | Heating (Rated) | kW | 40.35 | 43.18 | 46.68 |
| EER | | | 5.07 | 5.00 | 5.00 |
| COP | | | 5.46 | 5.40 | 5.40 |
| Exterior | Color | | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray | Warm Gray / Mornig Gray |
| | RAL Code (Classic) | | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 | RAL 7044 / RAL 7030 |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | kgf/cm² | 45 | 45 | 45 |
| | Head Loss | kPa | 30.1 + 30.1 + 30.1 + 15.8 | 30.1 + 30.1 + 30.1 + 28.6 | 30.1 + 30.1 + 30.1 + 30.1 |
| | Rated Water Flow | LPM | 192 + 192 + 192 + 96 | 192 + 192 + 192 + 135 | 192 + 192 + 192 + 192 |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination x No. | | (Inverter) x 4 | (Inverter) x 4 | (Inverter) x 4 |
| | Motor Output x Number | W x No. | 5,300 x 3 + 4,200 x 1 | 5,300 x 3 + 4,200 x 1 | 5,300 x 4 |
| | Oil Type | | FVC68D (PVE) | FVC68D (PVE) | FVC68D (PVE) |
| | Oil Charge | cc | 11,800 | 11,800 | 12,000 |
| Refrigerant Connecting Pipes | Liquid Pipe | mm (inch) | Ø 22.2 (7/8) | Ø 22.2 (7/8) | Ø 22.2 (7/8) |
| | Low Pressure Gas Pipe | mm (inch) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) | Ø 53.98 (2-1/8) |
| | High Pressure Gas Pipe | mm (inch) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) | Ø 44.5 (1-3/4) |
| Water Connecting Pipes | Inlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Outlet | A (inch) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) | 40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) + PT40 (Internal Thread) |
| | Drain Outlet | A (inch) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) | 20A (PT 3/4) (External Thread) |
| Dimensions (W x H x D) | | mm x No. | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 | (755 x 997 x 500) x 4 |
| Dimensions (W x H x D) - Shipping | | mm x No. | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 | (804 x 1,143 x 630) x 4 |
| Net Weight | | kg x No. | (140 x 3) + (127 x 1) | (140 x 3) + (127 x 1) | 140 x 4 |
| Shipping Weight | | kg x No. | (150 x 3) + (137 x 1) | (150 x 3) + (137 x 1) | 150 x 4 |
| Sound Pressure Level | Cooling | dB(A) | 59.0 | 61.0 | 57.0 |
| | Heating | dB(A) | 65.0 | 63.0 | 63.0 |
| Sound Power Level | Cooling | dB(A) | 71.0 | 75.0 | 71.0 |
| | Heating | dB(A) | 77.0 | 77.0 | 77.0 |
| Communication Cable | | mm² x No. (VCTF-SB) | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Refrigerant | Refrigerant Name | | R410A | R410A | R410A |
| | Precharged Amount in Factory | kg | 14.8 | 14.8 | 12.0 |
| | t-CO ₂ eq. | | 30.9 | 30.9 | 25.1 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Power Supply | | Ø, V, Hz | 3, 380-415, 50 | 3, 380-415, 50 | 3, 380-415, 50 |
| Number of Maximum Connectable Indoor Units ¹⁾ | | | 64 | 64 | 64 |

Note

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

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

3. Performances are based on the following conditions

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

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

5. This product contains Fluorinated Greenhouse Gases. (R410A)

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.)

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 / COMPATIBILITY /
FEATURE FUNCTIONS



WALL MOUNTED UNIT



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
 - Restaurant
 - Office
- Hotel
 - Multi-family Residence

| | Wall Mounted Unit | 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 | ○ | ○ | ○ |
| | Sleep Mode | ○ | ○ | ○ |
| Comfort | Timer (on / off) | ○ | ○ | ○ |
| | Timer (weekly) | ○ | ○ | ○ |
| | Two Thermistor Control | ○ | ○ | ○ |
| | Group Control | ○ | ○ | ○ |

※ ○: Applied, - : Not applied

SMART

Wi-Fi Control

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



LG ThinQ

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

Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Easy Registration and Log-in

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



Simple operation for various functions



Straight forward Management



Access your air conditioner anytime and from anywhere with a Wi-Fi equipped device and LG's exclusive control app, Smart ThinQ.



Wi-Fi Connectivity

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

Multiple Devices



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

Multi-Control

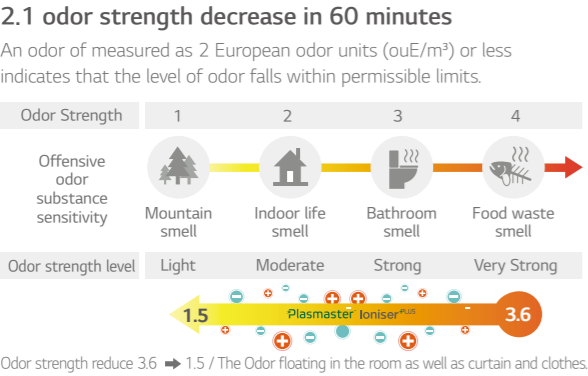
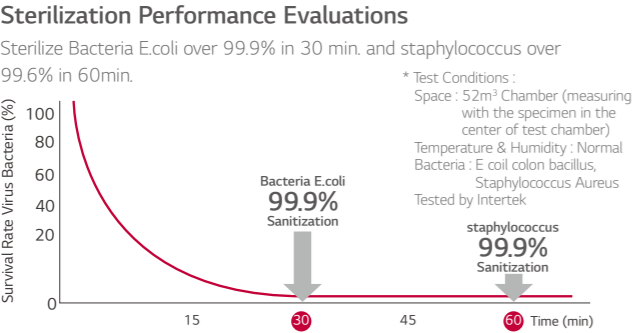
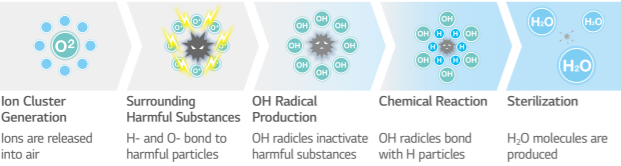


FRESH AIR

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

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

Sterilization and Deodorization (Utilizes Over 3 Million Ions)
Ionizer+ reduces E.coli and Staphylococcus in the surface with over 3 million ions.

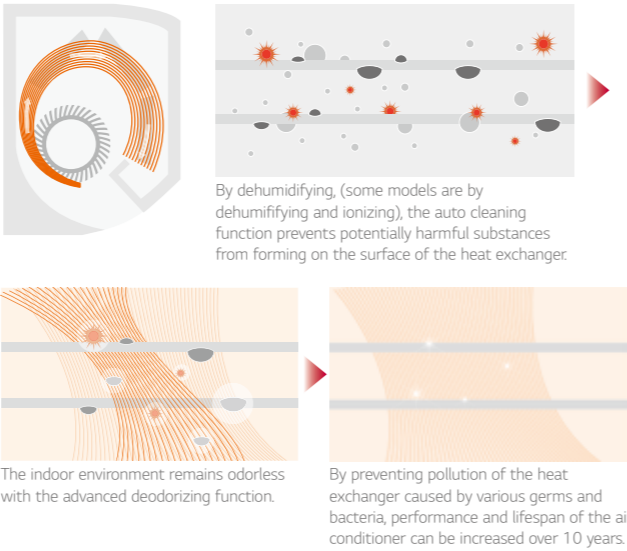


Auto Cleaning
The unit has a self-cleaning funtion that dries the heat exchanger before sterilizing the interior.

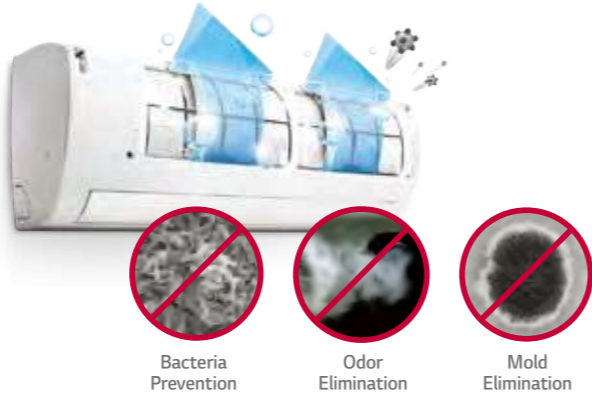
Pain Point
The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger. These germs can spread when the heat exchanger is wet.



Cleans Filter with Regular Airflow
The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger.

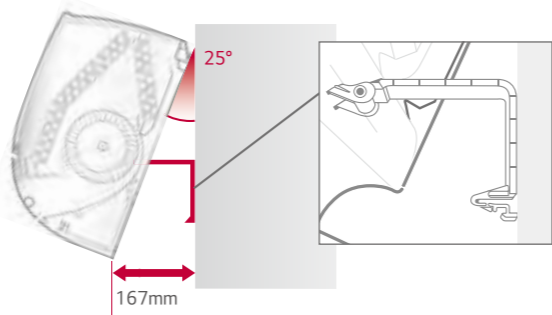


Auto cleaning
Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



INSTALLATION

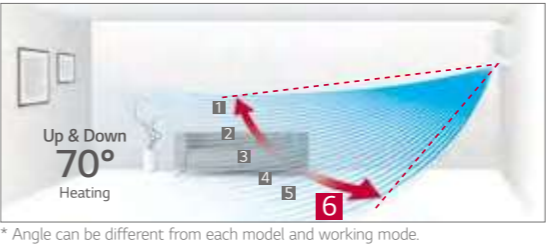
Installation Support Clip
A support clip creates adequate space between the wall and the unit for easier installation.



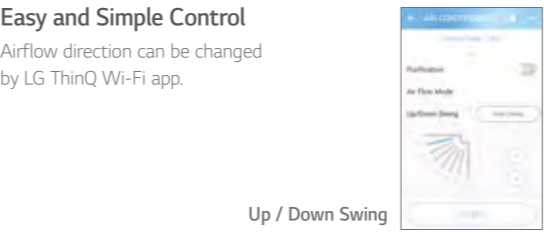
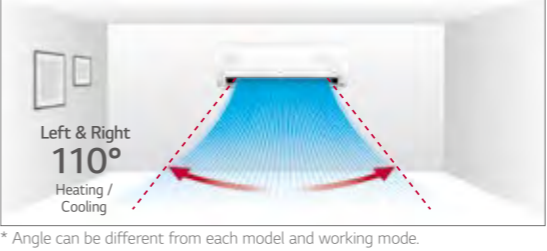
FAST COOLING & HEATING

Auto Swing
Cool air extends to the entire room regardless of where the unit is situated.
* Specifications may vary for each model.

6-step Vane Control up to 70°
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.

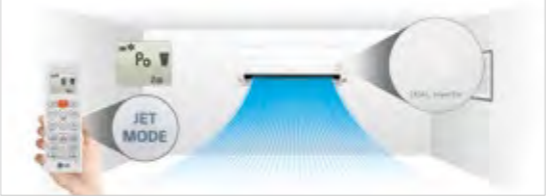


Control up to 110°
Louver can be adjusted manually to extend left and right swing to 110 degrees.

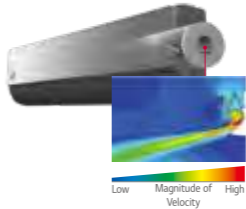


Jet Cool
LG air conditioners provide optimized high-speed airflow, which can cool rooms faster while delivering cool air evenly in every direction.
* Specifications may vary for each model.
* Depending on the experimental conditions.

One Click “Jet Mode”
Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



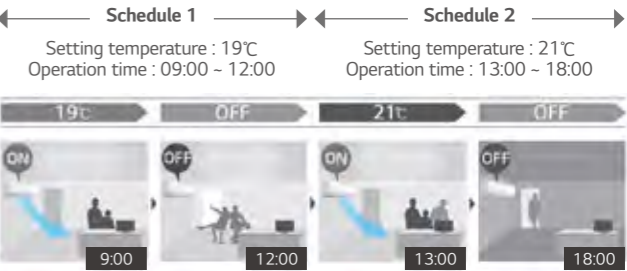
More Powerful Performance
By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of air flow is increased to 13 CMM.



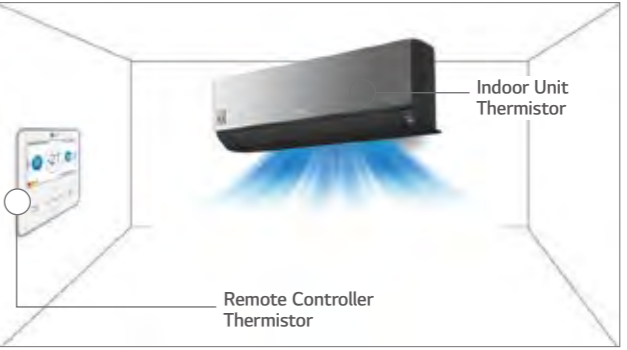
COMFORT

Scheduled Operation
You can set the daily temperature, fan speed, the operation mode and automatic on/off time for two weeks. It will keep running on that time until 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
Group control by new remote controller (PREMTB100/ PREMTBB10) has more functions than previous model.



ARTCOOL MIRROR

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 | 909 x 383 x 256 | 909 x 383 x 256 | 909 x 383 x 256 | 909 x 383 x 256 | 909 x 383 x 256 |
| | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| Fan | Motor Output x Number | W x No. | 30 x 1 | 30 x 1 | 30 x 1 | 30 x 1 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 6.8 / 6.5 / 5.9 | 7.2 / 6.8 / 5.9 | 7.8 / 7.2 / 5.9 | 8.5 / 7.8 / 6.8 | 10.5 / 9.5 / 6.8 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) | Ø16 (5/8) |
| Weight | Body | kg | 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) | 54 / 53 / 52 | 54 / 53 / 52 | 55 / 54 / 52 | 55 / 54 / 53 | 58 / 56 / 54 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | | | PRLDNVS0 | | |
| EEV Kit | | | PRGK024A0 | | |
| Independent Power Module | | | PRIPO | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | ○ | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | ○ | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

ARTCOOL MIRROR

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 | 1,080 x 422 x 281 | 1,080 x 422 x 281 |
| | Type | | Cross Flow Fan | Cross Flow Fan |
| Fan | Motor Output x Number | W x No. | 58 x 1 | 58 x 1 |
| | Air Flow Rate (H / M / L) | 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) | 63 / 57 / 54 | 65 / 60 / 54 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | | PRLDNVS0 |
| EEV Kit | | PRGK024A0 |
| Independent Power Module | | PRIPO |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | ○ |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | - |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | | ○ |
| Wi-Fi | | ○ |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

ARTCOOL GALLERY

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 (15/32) | Ø12 (15/32) | Ø12 (15/32) |
| Weight | Body | kg | 15.0 | 15.0 | 15.0 |
| 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 / 46 / 38 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU07GSF14 | ARNU09GSF14 | ARNU12GSF14 |
|---|-------------|---|-------------|
| Drain Pump | | - | |
| Cassette Cover | | - | |
| Refrigerant Leakage Detector | | PRLDNVS0 | |
| EEV Kit | | PRGK024A0 | |
| Independent Power Module | | PRIP0 | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO ₂ Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ | |
| Wi-Fi | | PWFMD200 ²⁾ | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020
2) External installation only

STANDARD

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) | 54 / 53 / 52 | 54 / 53 / 52 | 55 / 54 / 52 | 55 / 54 / 53 | 58 / 56 / 54 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

*: 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°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 | ARNU05GSJ*4 | ARNU07GSJ*4 | ARNU09GSJ*4 | ARNU12GSJ*4 | ARNU15GSJ*4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | - | | |
| Cassette Cover | | | - | | |
| Refrigerant Leakage Detector | | | PRLDNVS0 | | |
| EEV Kit | | | PRGK024A0 | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | ○ | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | ○ | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

STANDARD

ARNU18GSK*4 / ARNU24GSK*4



| Model | | Unit | ARNU18GSK*4 | ARNU24GSK*4 |
|-----------------------------------|----------------------------|-----------|--------------------|--------------------|
| Cooling Capacity | | kW | 5.6 | 7.1 |
| Heating Capacity | | kW | 6.3 | 7.5 |
| Power Input (H / M / L) | Nominal | W | 32 / 26 / 16 | 39 / 26 / 16 |
| | | | | |
| Exterior Color | | | White | White |
| RAL Code | | | RAL 9016 | RAL 9016 |
| Dimensions (W x H x D) | Body | mm | 975 x 354 x 209 | 975 x 354 x 209 |
| | Shipping | mm | 1,063 x 420 x 274 | 1,063 x 420 x 274 |
| | Type | | Cross Flow Fan | Cross Flow Fan |
| Fan | Motor Output x Number | W x No. | 58 x 1 | 58 x 1 |
| | Air Flow Rate (H / M / L) | 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) | 63 / 57 / 54 | 65 / 60 / 54 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

* : 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°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 | ARNU18GSK*4 | ARNU24GSK*4 |
|---|---|-------------|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leakage Detector | PRLDNV50 | |
| EEV Kit | PRGK024A0 | |
| Independent Power Module | PRIPO | |
| Robot Cleaner | - | - |
| Pre Filter (washable) | ○ | |
| Ion Generator | ○ | |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | ○ | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

STANDARD

ARNU30GSVA4 / ARNU36GSVA4



| Model | | Unit | ARNU30GSVA4 | ARNU36GSVA4 |
|-----------------------------------|----------------------------|-----------|--------------------|--------------------|
| Cooling Capacity | | kW | 8.8 | 10.4 |
| Heating Capacity | | kW | 9.4 | 10.8 |
| Power Input (H / M / L) | Nominal | W | 54 / 43 / 31 | 85 / 51 / 36 |
| | | | | |
| Exterior Color | | | White | White |
| RAL Code | | | RAL 9016 | RAL 9016 |
| Dimensions (W x H x D) | Body | mm | 1,190 x 346 x 265 | 1,190 x 346 x 265 |
| | Shipping | mm | 1,265 x 432 x 335 | 1,265 x 432 x 335 |
| | Type | | Cross Flow Fan | Cross Flow Fan |
| Fan | Motor Output x Number | W x No. | 113 x 1 | 113 x 1 |
| | Air Flow Rate (H / M / L) | 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 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU30GSVA4 | ARNU36GSVA4 |
|---|---|-------------|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leakage Detector | PRLDNV50 | |
| EEV Kit | - | |
| Independent Power Module | PRIPO | |
| Robot Cleaner | - | - |
| Pre Filter (washable) | ○ | |
| Ion Generator | - | - |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMDD200 ²⁾ | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020
2) External installation only

CEILING MOUNTED CASSETTE



Features & Benefits

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

Key Applications

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

| Cassette | | 4 Way | 2 Way | 1 Way |
|-------------------|------------------------|-------|-------|-------|
| Smart | Wi-Fi | ○ | ○ | ○ |
| | Human Detect Sensor | ○ | - | - |
| | Drain Pump | ○ | ○ | ○ |
| Energy Efficiency | Sleep Mode | ○ | ○ | ○ |
| | Timer (on / off) | ○ | ○ | ○ |
| | Timer (weekly) | ○ | ○ | ○ |
| | Two Thermistor Control | ○ | ○ | ○ |
| | Group Control | ○ | ○ | ○ |
| Comfort | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

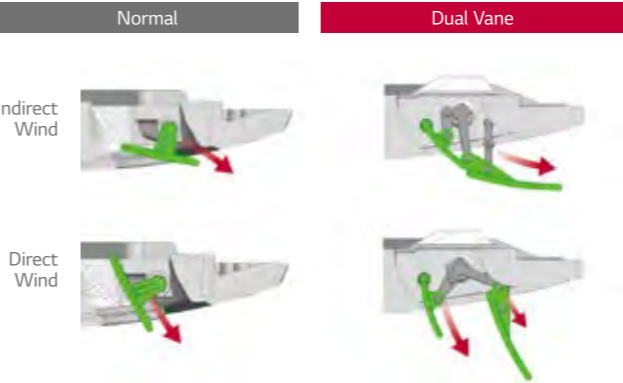
NEW DESIGN

4-way Air Flow with New Design

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



*New types wind

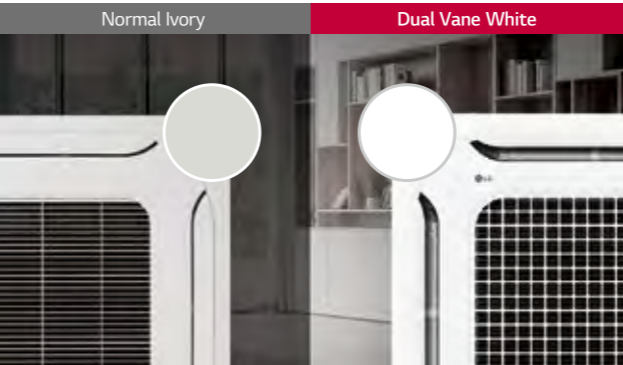


*6 Airflows mode



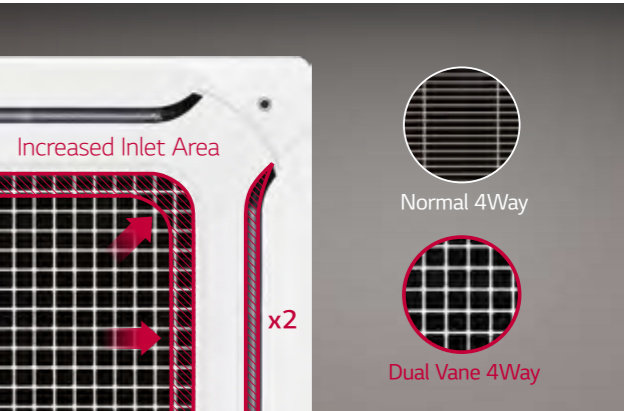
Brighter Color

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



Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



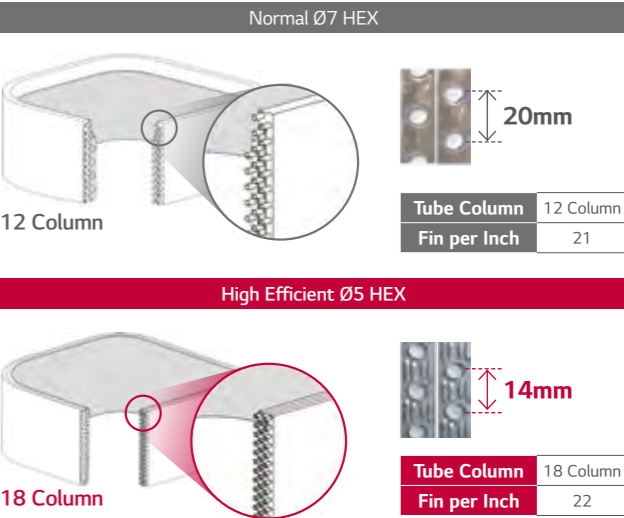
Full 3D Turbo Fan

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



High Efficiency Heat Exchanger (HEX)

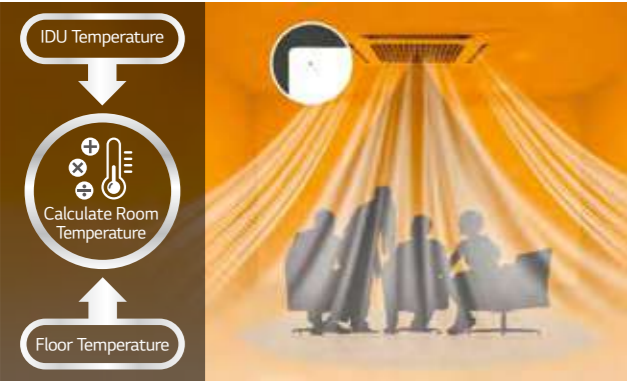
Ø5 High Density Heat Exchanger increases cooling / heating efficiency by 10%.



SMART

Ceiling to Floor Temperature Sensing

With a special sensor that sense both ceiling and floor temperature, dual vane 4 way cassette provides comfort air



※ Available only for products with floor temperature sensor.

Human-detection Air Flow

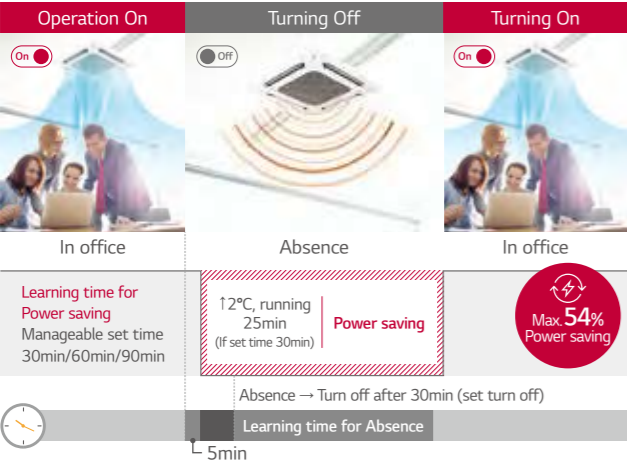
Human detection provides users with direct or indirect air flow preferences.

Indirect comfort
Provides air flow that blows away from user for comfort.

Direct cooling
Provides air flow that blows directly onto user for cooling.

Human Detection for Optimized Efficiency

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



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

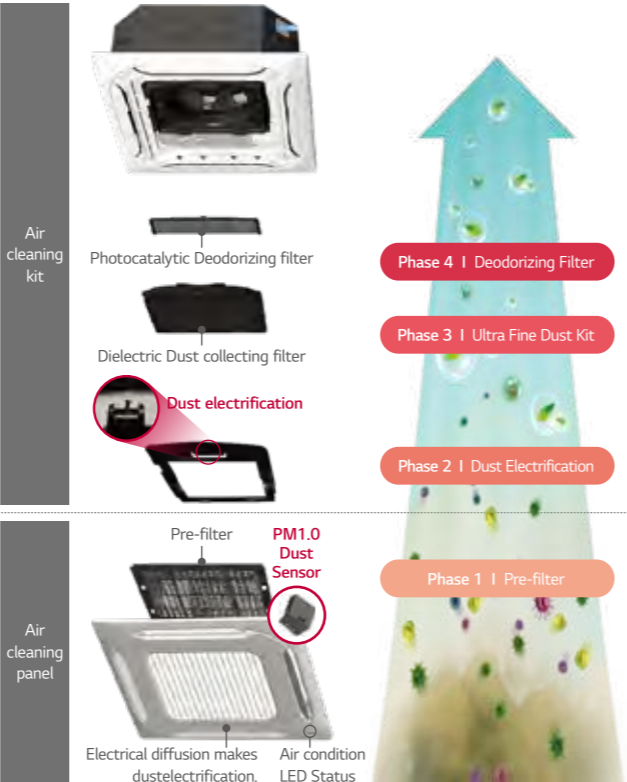
High-performance Air Cleaning

Air cleaning function provides fresh, filtered air.



Convenient & Powerful 5-step Air Cleaning

Easy-to-manage air cleaning system with one-touch air cleaning filter.



Cycle Management

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

SMART

Air Cleaning Status Display

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

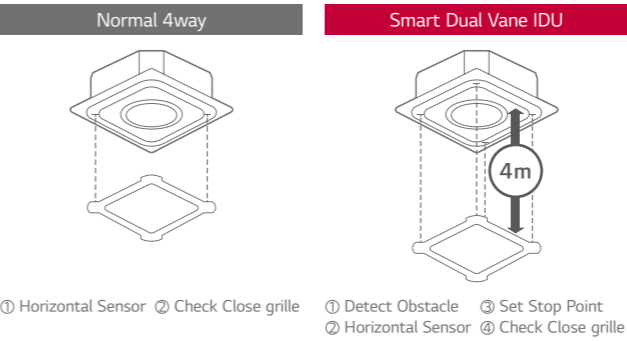
① IDU LED
Real-time indoor air quality status displayed on indoor unit

② Remote controller
Fine dust concentration & air quality status displayed on remote control

③ Mobile
Anytime, anywhere access to check & control air status via mobile

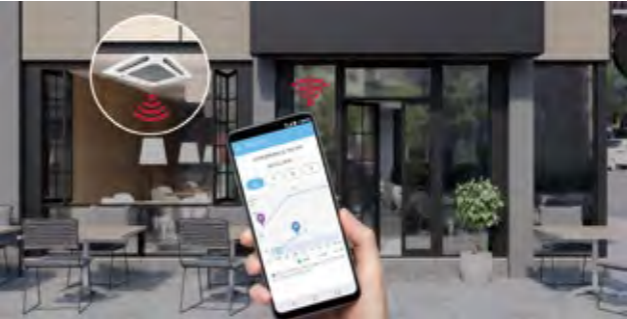
Dual Elevating Grille

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



LG ThinQ connectivity

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

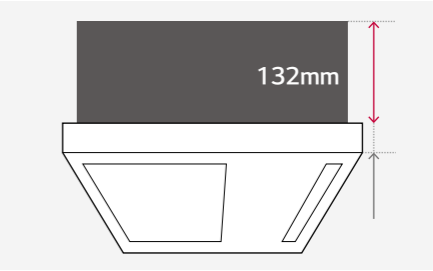


- ① Monitoring Air status
Easy to check indoor air status
• Ultra Fine / Extra Fine / Fine Dust
• Day / Week /Month / Yearly
- ② Mobile Remote Control
Remote control by using mobile phone
• Control Mode / Temperature / Air flow etc.
- ③ Display Power Consumption
Check power consumption of A/C
• Check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

INSTALLATION

Minimized Height

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

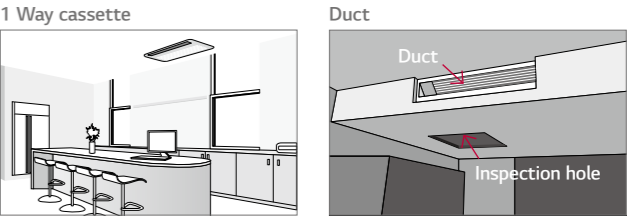


Size Comparison (Unit : mm)

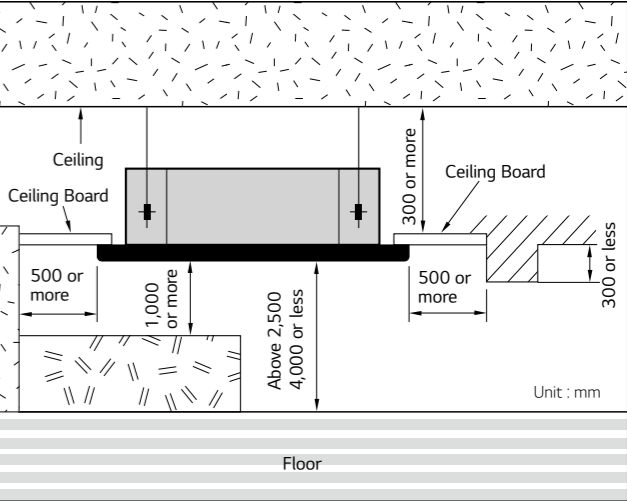
| | A Company | B Company | LG |
|----------------|-----------|-----------|-----|
| 1 Way Cassette | 215 | 230 | 132 |

Flexible Installation

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



Installation Standard



DUAL VANE 4WAY CASSETTE

(840 X 840)

ARNU24GTBB4 / ARNU28GTBB4
ARNU30GTBB4

Available from **JUNE 2020**



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

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

Accessories

| Chassis | ARNU24GTBB4 | ARNU28GTBB4 | ARNU30GTBB4 |
|---|---|--------------------|-------------|
| Drain Pump | | ○ | |
| Cassette Cover | | PTDCA | |
| Refrigerant Leakage Detector | | PRLDNVSO | |
| EEV Kit | | - | |
| Independent Power Module | | PRIP0 | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO2 Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input¹), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 Point) | | ○ | |
| Wi-Fi | | PWFMDD200 | |
| Human detection sensor | | PTVSA0 | |
| Floor Temperature Sensor | | PT-AFGW0 :○ | |
| Air cleaning kit | | PT-AFGW0 : PTAFMP0 | |
| Elevation Grille | | PT-AEGW0 :○ | |

1) Available from April 2020

DUAL VANE 4WAY CASSETTE

(840 X 840)

ARNU36GTAB4 / ARNU42GTAB4
ARNU48GTAB4

Available from **JUNE 2020**



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

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

Accessories

| Chassis | ARNU36GTAB4 | ARNU42GTAB4 | ARNU48GTAB4 |
|---|---|--------------------|-------------|
| Drain Pump | | ○ | |
| Cassette Cover | | PTDCA | |
| Refrigerant Leakage Detector | | PRLDNVSO | |
| EEV Kit | | - | |
| Independent Power Module | | PRIP0 | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO2 Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input¹), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 Point) | | ○ | |
| Wi-Fi | | PWFMDD200 | |
| Human detection sensor | | PTVSA0 | |
| Floor Temperature Sensor | | PT-AFGW0 :○ | |
| Air cleaning kit | | PT-AFGW0 : PTAFMP0 | |
| Elevation Grille | | PT-AEGW0 :○ | |

1) Available from April 2020

DUAL VANE 4WAY CASSETTE

(840 X 840) HIGH SENSIBLE

ARNU07GTAA4 / ARNU09GTAA4
ARNU12GTAA4 / ARNU15GTAA4
ARNU18GTAA4

Available from **JUNE 2020**



| Model | | Unit | ARNU07GTAA4 | ARNU09GTAA4 | ARNU12GTAA4 | ARNU15GTAA4 | ARNU18GTAA4 |
|----------------------------------|----------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Cooling Capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| Heating Capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| Power Input (H / M / L) | Nominal | W | 23 / 16 / 11 | 25 / 18 / 11 | 26 / 19 / 13 | 29 / 20 / 15 | 31 / 23 / 16 |
| | | | | | | | |
| Dimensions (W x H x D) | Body | mm | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | Shipping | mm | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 |
| Fan | Type | | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan |
| | Motor Output x Number | W | 166x1 | 166 x 1 | 166x1 | 166 x 1 | 166x1 |
| | Running Cuurent | A | 0.23 | 0.25 | 0.25 | 0.27 | 0.28 |
| | Air Flow Rate(H/M/L) | m³/min | 19 / 16 / 13 | 19 / 16 / 13 | 20 / 17 / 15 | 20 / 17 / 15 | 21 / 19 / 16 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| | | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe (Internal Dia.) | mm(inch) | Ø25(1) | Ø25(1) | Ø25(1) | Ø25(1) | Ø25(1) |
| Weight | | kg | 26 | 26 | 26 | 26 | 26 |
| Sound Pressure Level (H / M / L) | | dB(A) | 32 / 30 / 26 | 33 / 30 / 26 | 34 / 31 / 27 | 34 / 32 / 29 | 35 / 32 / 30 |
| Sound Power Level (H / M / L) | | dB(A) | 41 / 38 / 34 | 42 / 39 / 34 | 42 / 40 / 36 | 43 / 40 / 37 | 44 / 41 / 38 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C |
| Decoration Panel (Accessory) | Exterior Color | | White | White | White | White | White |
| | RAL Code | | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 |
| | Net Weight | kg | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 |
| | | | | | | | |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU07GTAA4 | ARNU09GTAA4 | ARNU12GTAA4 | ARNU15GTAA4 | ARNU18GTAA4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | ○ | | |
| Cassette Cover | | | PTDCA | | |
| Refrigerant Leakage Detector | | | PRLDNVSO | | |
| EEV Kit | | | - | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO2 Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 Point) | | | ○ | | |
| Wi-Fi | | | PWFMD200 | | |
| Human detection sensor | | | PTVSA0 | | |
| Floor Temperature Sensor | | | PT-AFGW0 :○ | | |
| Air cleaning kit | | | PT-AFGW0 : PTAFMP0 | | |
| Elevation Grille | | | PT-AEGW0 :○ | | |

1) Available from April 2020

DUAL VANE 4WAY CASSETTE

(840 X 840) HIGH SENSIBLE

ARNU24GTAA4 / ARNU28GTAA4
ARNU36GTAA4 / ARNU42GTAA4
ARNU48GTAA4

Available from **JUNE 2020**



| Model | | Unit | ARNU24GTAA4 | ARNU28GTAA4 | ARNU36GTAA4 | ARNU42GTAA4 | ARNU48GTAA4 |
|----------------------------------|----------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | | kW | 7.1 | 8.2 | 10.6 | 12.3 | 14.1 |
| Heating Capacity | | kW | 8.0 | 9.2 | 11.9 | 13.8 | 15.9 |
| Power Input (H / M / L) | Nominal | W | 35 / 29 / 20 | 40 / 31 / 25 | 65 / 43 / 31 | 86 / 65 / 43 | 100 / 67 / 53 |
| | | | | | | | |
| Dimensions (W x H x D) | Body | mm | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | Shipping | mm | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 | 922 x 360 X 917 |
| Fan | Type | | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan | Full 3D Turbo Fan |
| | Motor Output x Number | W | 166x1 | 166 x 1 | 166x1 | 166 x 1 | 166x1 |
| | Running Cuurent | A | 0.38 | 0.46 | 0.60 | 0.80 | 0.88 |
| | Air Flow Rate(H/M/L) | m³/min | 23 / 21 / 19 | 24 / 22 / 20 | 28 / 24 / 21 | 31 / 28 / 24 | 33 / 28 / 26 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC |
| | | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe (Internal Dia.) | mm(inch) | Ø25(1) | Ø25(1) | Ø25(1) | Ø25(1) | Ø25(1) |
| Weight | | kg | 26 | 26 | 26 | 26 | 26 |
| Sound Pressure Level (H / M / L) | | dB(A) | 39 / 36 / 33 | 40 / 37 / 34 | 42 / 39 / 35 | 46 / 42 / 39 | 47 / 43 / 41 |
| Sound Power Level (H / M / L) | | dB(A) | 47 / 45 / 42 | 48 / 46 / 42 | 51 / 48 / 44 | 54 / 51 / 48 | 56 / 52 / 50 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C | 1.25 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-AAGW0 PT-AFGW0 PT-AEGW0 | PT-AAGW0 PT-AFGW0 PT-AEGW0 | PT-AAGW0 PT-AFGW0 PT-AEGW0 | PT-AAGW0 PT-AFGW0 PT-AEGW0 | PT-AAGW0 PT-AFGW0 PT-AEGW0 |
| | Exterior Color | | White | White | White | White | White |
| | RAL Code | | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 | 950 x 35 x 950 |
| | Net Weight | kg | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 | 7.1 / 7.5 / 8.5 |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU24GTAA4 | ARNU28GTAA4 | ARNU36GTAA4 | ARNU42GTAA4 | ARNU48GTAA4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | ○ | | |
| Cassette Cover | | | PTDCA | | |
| Refrigerant Leakage Detector | | | PRLDNVSO | | |
| EEV Kit | | | - | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO2 Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 Point) | | | ○ | | |
| Wi-Fi | | | PWFMD200 | | |
| Human detection sensor | | | PTVSA0 | | |
| Floor Temperature Sensor | | | PT-AFGW0 :○ | | |
| Air cleaning kit | | | PT-AFGW0 : PTAFMP0 | | |
| Elevation Grille | | | PT-AEGW0 :○ | | |

1) Available from April 2020

4 WAY CASSETTE (570 X 570)

ARNU05GTRB4 / ARNU07GTRB4
ARNU09GTRB4 / ARNU12GTRB4



| Model | | Unit | ARNU05GTRB4 | ARNU07GTRB4 | ARNU09GTRB4 | ARNU12GTRB4 |
|-----------------------------------|----------------------------|-----------|------------------------------|------------------------------|------------------------------|------------------------------|
| Cooling Capacity | | kW | 1.6 | 2.2 | 2.8 | 3.6 |
| Heating Capacity | | kW | 1.8 | 2.5 | 3.2 | 4.0 |
| Power Input (H / M / L) | Nominal | W | 13 / 12 / 11 | 13 / 12 / 11 | 14 / 13 / 12 | 17 / 15 / 13 |
| | | | | | | |
| Dimensions (W x H x D) | Body | mm | 570 x 214 x 570 | 570 x 214 x 570 | 570 x 214 x 570 | 570 x 214 x 570 |
| | Shipping | mm | 667 x 285 x 646 | 667 x 285 x 646 | 667 x 285 x 646 | 667 x 285 x 646 |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W | 43 x 1 | 43 x 1 | 43 x 1 | 43 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 7.5 / 7.0 / 6.6 | 7.5 / 7.0 / 6.6 | 8.0 / 7.5 / 7.1 | 8.7 / 8.0 / 7.0 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC |
| | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 12.6 | 12.6 | 13.7 | 13.7 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 29 / 27 / 26 | 29 / 27 / 26 | 30 / 29 / 27 | 32 / 30 / 27 |
| Sound Power Levels (H / M / L) | | dB(A) | 45 / 43 / 42 | 45 / 43 / 42 | 46 / 43 / 42 | 48 / 46 / 43 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UQC PT-QCHW0 | PT-UQC PT-QCHW0 | PT-UQC PT-QCHW0 | PT-UQC PT-QCHW0 |
| | Exterior Color | | Morning Fog | Morning Fog | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 700 x 22 x700 620 x 20 x 620 | 700 x 22 x700 620 x 20 x 620 | 700 x 22 x700 620 x 20 x 620 | 700 x 22 x700 620 x 20 x 620 |
| | Net Weight | kg | 3.0 / 3.0 | 3.0 / 3.0 | 3.0 / 3.0 | 3.0 / 3.0 |

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

Accessories

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

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

4 WAY CASSETTE (570 X 570)

ARNU15GTQB4 / ARNU18GTQB4
ARNU21GTQB4



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

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

Accessories

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

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

4 WAY CASSETTE (840 X 840)

ARNU24GTPC4 / ARNU28GTPC4
ARNU30GTPC4 / ARNU36GTNC4



| Model | | Unit | ARNU24GTPC4 | ARNU28GTPC4 | ARNU30GTPC4 | ARNU36GTNC4 |
|-----------------------------------|----------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | | kW | 7.1 | 8.2 | 9.0 | 10.6 |
| Heating Capacity | | kW | 8.0 | 9.2 | 10.0 | 11.9 |
| Power Input (H / M / L) | Nominal | W | 31 / 26 / 23 | 40 / 31 / 25 | 40 / 34 / 27 | 70 / 53 / 43 |
| | | | | | | |
| Dimensions (W x H x D) | Body | mm | 840 x 204 x 840 | 840 x 204 x 840 | 840 x 204 x 840 | 840 x 246 x 840 |
| | Shipping | mm | 922 x 276 x 917 | 922 x 276 x 917 | 922 x 276 x 917 | 922 x 318 x 917 |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W | 30 x 1 | 30 x 1 | 30 x 1 | 135 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 17.0 / 15.0 / 13.0 | 19.0 / 16.0 / 14.0 | 24.3 / 22.8 / 19.5 | 25.0 / 21.0 / 19.0 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC |
| | | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 20.8 | 20.8 | 20.8 | 23.5 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 36 / 34 / 31 | 39 / 35 / 33 | 40 / 36 / 33 | 43 / 40 / 37 |
| Sound Power Levels (H / M / L) | | dB(A) | 46 / 44 / 43 | 52 / 46 / 44 | 58 / 57 / 54 | 56 / 53 / 51 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 |
| | Exterior Color | | Morning Fog | Morning Fog | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 |
| | Net Weight | kg | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 |
| | | | | | | |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU24GTPC4 | ARNU28GTPC4 | ARNU30GTPC4 | ARNU36GTNC4 |
|---|-------------|-------------|---|-------------|
| Drain Pump | | | ○ | |
| Cassette Cover | | | PTDCM | |
| Refrigerant Leakage Detector | | | PRLDNVSO | |
| EEV Kit | | | - | |
| Independent Power Module | | | PRIP0 | |
| Robot Cleaner | | | - | |
| Pre Filter (washable) | | | ○ | |
| Ion Generator | | | - | |
| CO ₂ Sensor | | | - | |
| Ventilation Kit | | | PTVK430 | |
| IR Receiver | | | - | |
| Zone Controller | | | - | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB502 (Modbus) | |
| External Input (1 point) | | | ○ | |
| Wi-Fi | | | PWFMD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

4 WAY CASSETTE (840 X 840)

ARNU42GTM / C4ARNU48GTMC4
ARNU54GTMC4



| Model | | Unit | ARNU42GTMC4 | ARNU48GTMC4 | ARNU54GTMC4 |
|-----------------------------------|----------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | | kW | 12.3 | 14.1 | 15.8 |
| Heating Capacity | | kW | 13.8 | 15.9 | 18 |
| Power Input (H / M / L) | Nominal | W | 104 / 75 / 53 | 120 / 80 / 62 | 135 / 93 / 70 |
| | | | | | |
| 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 | | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W | 135 x 1 | 135 x 1 | 135 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 30.0 / 27.0 / 24.0 | 31.0 / 29.0 / 27.0 | 34.0 / 32.0 / 27.0 |
| | 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 | 25.6 | 25.6 | 26.5 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 44 / 41 / 38 | 46 / 43 / 41 | 50 / 48 / 44 |
| Sound Power Levels (H / M / L) | | dB(A) | 58 / 55 / 50 | 60 / 56 / 55 | 60 / 58 / 55 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 |
| | Exterior Color | | Morning Fog | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 |
| | Net Weight | kg | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 |
| | | | | | |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU42GTMC4 | ARNU48GTMC4 | ARNU54GTMC4 |
|---|-------------|-------------|---|
| Drain Pump | | | ○ |
| Cassette Cover | | | PTDCM |
| Refrigerant Leakage Detector | | | PRLDNVSO |
| EEV Kit | | | - |
| Independent Power Module | | | PRIP0 |
| Robot Cleaner | | | - |
| Pre Filter (washable) | | | ○ |
| Ion Generator | | | - |
| CO ₂ Sensor | | | - |
| Ventilation Kit | | | PTVK430 |
| IR Receiver | | | - |
| Zone Controller | | | - |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB502 (Modbus) |
| External Input (1 point) | | | ○ |
| Wi-Fi | | | PWFMD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

4 WAY CASSETTE (840 X 840)

ARNU07GTNA4 / ARNU09GTNA4
ARNU12GTNA4 / ARNU15GTNA4
ARNU18GTNA4



| Model | Unit | ARNU07GTNA4 | ARNU09GTNA4 | ARNU12GTNA4 | ARNU15GTNA4 | ARNU18GTNA4 |
|-----------------------------------|----------------------------|-------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| Heating Capacity | kW | 2.5 | 3.2 | 4 | 5 | 6.3 |
| Power Input (H / M / L) | Nominal | W | 18 / 15 / 12 | 22 / 17 / 14 | 25 / 17 / 14 | 27 / 18 / 14 |
| Dimensions (W x H x D) | Body | mm | 840 x 246 x 840 | 840 x 246 x 840 | 840 x 246 x 840 | 840 x 246 x 840 |
| | Shipping | mm | 922 x 318 x 917 | 922 x 318 x 917 | 922 x 318 x 917 | 922 x 318 x 917 |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W | 135 x 1 | 135 x 1 | 135 x 1 | 135 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 13.0 / 12.0 / 11.0 | 13.5 / 12.0 / 11.0 | 14.0 / 13.0 / 12.0 | 15.0 / 13.0 / 12.0 |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 23.5 | 23.5 | 23.5 | 23.5 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 35 / 33 / 30 | 35 / 33 / 30 | 37 / 35 / 33 | 40 / 35 / 33 |
| Sound Power Levels (H / M / L) | | dB(A) | 42 / 38 / 36 | 42 / 38 / 36 | 43 / 40 / 38 | 44 / 40 / 38 |
| Power Supply | Ø, V, Hz | | 1,220-240, 50 | 1,220-240, 50 | 1,220-240, 50 | 1,220-240, 50 |
| Communication Cable | mm² x No. | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 |
| | Exterior Color | | Morning Fog | Morning Fog | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 |
| | Net Weight | kg | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 |

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

Accessories

| Chassis | ARNU07GTNA4 | ARNU09GTNA4 | ARNU12GTNA4 | ARNU15GTNA4 | ARNU18GTNA4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | ○ | | |
| Cassette Cover | | | PTDCM | | |
| Refrigerant Leakage Detector | | | PRLDNVSO | | |
| EEV Kit | | | - | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | PTVK430 | | |
| IR Receiver | | | - | | |
| Zone Controller | | | - | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | PWFMD200 | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

4 WAY CASSETTE (840 X 840)

ARNU24GTMA4 / ARNU28GTMA4
ARNU36GTMA4 / ARNU42GTMA4



| Model | Unit | ARNU24GTMA4 | ARNU28GTMA4 | ARNU36GTMA4 | ARNU42GTMA4 |
|-----------------------------------|----------------------------|-------------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | kW | 7.1 | 8.2 | 10.6 | 12.3 |
| Heating Capacity | kW | 8 | 9.2 | 11.9 | 13.8 |
| Power Input (H / M / L) | Nominal | W | 47 / 39 / 31 | 52 / 43 / 31 | 64 / 47 / 34 |
| 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 | | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W | 135 x 1 | 135 x 1 | 135 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 22.0 / 20.0 / 18.0 | 23.0 / 21.0 / 18.0 | 26.0 / 23.0 / 20.0 |
| | 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 | 25.6 | 25.6 | 25.6 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 42 / 40 / 38 | 43 / 41 / 38 | 46 / 42 / 39 |
| Sound Power Levels (H / M / L) | | dB(A) | 48 / 45 / 43 | 49 / 47 / 43 | 52 / 48 / 44 |
| Power Supply | Ø, V, Hz | | 1,220 ~ 240, 50 | 1,220 ~ 240, 50 | 1,220 ~ 240, 50 |
| Communication Cable | mm² x No. | | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 | PT-UMC1 PT-MCHW0 |
| | Exterior Color | | Morning Fog | Morning Fog | Morning Fog |
| | RAL Code | | RAL 9001 | RAL 9001 | RAL 9001 |
| | Net Dimensions (W x H x D) | mm | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 | 950 x 25 x 950 950 x 35 x 950 |
| | Net Weight | kg | 5.0 / 6.3 | 5.0 / 6.3 | 5.0 / 6.3 |

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

Accessories

| Chassis | ARNU24GTMA4 | ARNU28GTMA4 | ARNU36GTMA4 | ARNU42GTMA4 |
|---|-------------|-------------|---|-------------|
| Drain Pump | | | ○ | |
| Cassette Cover | | | PTDCM | |
| Refrigerant Leakage Detector | | | PRLDNVSO | |
| EEV Kit | | | - | |
| Independent Power Module | | | PRIP0 | |
| Robot Cleaner | | | - | |
| Pre Filter (washable) | | | ○ | |
| Ion Generator | | | - | |
| CO ₂ Sensor | | | - | |
| Ventilation Kit | | | PTVK430 | |
| IR Receiver | | | - | |
| Zone Controller | | | - | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | | ○ | |
| Wi-Fi | | | PWFMD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

2 WAY CASSETTE

ARNU09GTSC4 / ARNU12GTSC4



| Model | | Unit | ARNU09GTSC4 | ARNU12GTSC4 |
|-----------------------------------|----------------------------|-----------|-------------------|-------------------|
| Cooling Capacity | | kW | 2.8 | 3.6 |
| Heating Capacity | | kW | 3.2 | 4.0 |
| Power Input (H / M / L) | Nominal | W | 16 / 14 / 11 | 18 / 14 / 11 |
| | | | | |
| Dimensions (W x H x D) | Body | mm | 830 x 225 x 600 | 830 x 225 x 600 |
| | Shipping | mm | 1,055 x 290 x 682 | 1,055 x 290 x 682 |
| Fan | Type | | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W x No. | 37 x 1 | 37 x 1 |
| | Air Flow Rate (H / M / L) | 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) | 42 / 40 / 38 | 43 / 41 / 39 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| Chassis | ARNU09GTSC4 | ARNU12GTSC4 |
|---|-------------|---|
| Drain Pump | | ○ |
| Cassette Cover | | - |
| Refrigerant Leakage Detector | | PRLDNVS0 |
| EEV Kit | | PRGK024A0 (~5.6kW) |
| Independent Power Module | | PRIP0 |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | - |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMDD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

2 WAY CASSETTE

ARNU18GTSC4 / ARNU24GTSC4



| Model | | Unit | ARNU18GTSC4 | ARNU24GTSC4 |
|-----------------------------------|----------------------------|-----------|-------------------|--------------------|
| Cooling Capacity | | kW | 5.6 | 7.1 |
| Heating Capacity | | kW | 6.3 | 8.0 |
| Power Input (H / M / L) | Nominal | W | 19 / 16 / 14 | 31 / 22 / 14 |
| | | | | |
| Dimensions (W x H x D) | Body | mm | 830 x 225 x 600 | 830 x 225 x 600 |
| | Shipping | mm | 1,055 x 290 x 682 | 1,055 x 290 x 682 |
| Fan | Type | | Turbo Fan | Turbo Fan |
| | Motor Output x Number | W x No. | 37 x 1 | 37 x 1 |
| | Air Flow Rate (H / M / L) | 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) | 44 / 42 / 40 | 48 / 45 / 40 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

| Chassis | ARNU18GTSC4 | ARNU24GTSC4 |
|---|-------------|---|
| Drain Pump | | ○ |
| Cassette Cover | | - |
| Refrigerant Leakage Detector | | PRLDNVS0 |
| EEV Kit | | PRGK024A0 (~5.6kW) |
| Independent Power Module | | PRIP0 |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | - |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMDD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

1 WAY CASSETTE

ARNU07GTUB4 / ARNU09GTUB4
ARNU12GTUB4



| Model | | Unit | ARNU07GTUB4 | ARNU09GTUB4 | ARNU12GTUB4 |
|-----------------------------------|-------------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity | | kW | 2.2 | 2.8 | 3.6 |
| Heating Capacity | | kW | 2.5 | 3.2 | 4.0 |
| Power Input (H / M / L) | Nominal | W | 20 / 18 / 16 | 22 / 20 / 18 | 24 / 22 / 20 |
| | | | | | |
| Dimensions (W x H x D) | Body | mm | 860 x 132 x 450 | 860 x 132 x 450 | 860 x 132 x 450 |
| | Shipping | mm | 1,129 x 259 x 538 | 1,129 x 259 x 538 | 1,129 x 259 x 538 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 30 x 1 | 30 x 1 | 30 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 8.2 / 7.3 / 6.4 | 9.2 / 8.6 / 8.2 | 10.0 / 9.2 / 8.2 |
| | Motor Type | | BLDC | BLDC | BLDC |
| | | | | | |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 13.6 | 13.6 | 13.6 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 32 / 29 / 25 | 35 / 34 / 32 | 38 / 35 / 32 |
| Sound Power Levels (H / M / L) | | dB(A) | 47 / 44 / 41 | 50 / 48 / 47 | 52 / 50 / 47 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |
| Decoration Panel (Accessory) | Model Name | | PT-UUC (Grill), PT-UUD (Panel) | PT-UUC (Grill), PT-UUD (Panel) | PT-UUC (Grill), PT-UUD (Panel) |
| | Exterior Color | | Noble White | Noble White | Noble White |
| | RAL Code | | RAL 9003 | RAL 9003 | RAL 9003 |
| | Net Dimensions (W x H x D) | mm | 1,100 x 34 x 500 | 1,100 x 34 x 500 | 1,100 x 34 x 500 |
| | Net Weight | kg | 4.6 / 5.3 | 4.6 / 5.3 | 4.6 / 5.3 |

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

Accessories

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

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

1 WAY CASSETTE

ARNU18GTTB4 / ARNU24GTTB4



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

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

Accessories

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

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

CEILING MOUNTED ROUND CASSETTE



Features & Benefits

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

Key Applications

- Retail
- Restaurant
- Office
- Hotel

| | Cassette | Round |
|-------------------|------------------------|-------|
| Smart | Wi-Fi | 0 |
| Energy Efficiency | Human Detect Sensor | - |
| | Drain Pump | 0 |
| | Sleep Mode | 0 |
| Comfort | Timer (on / off) | 0 |
| | Timer (weekly) | 0 |
| | Two Thermistor Control | 0 |
| | Group Control | 0 |

NEW DESIGN

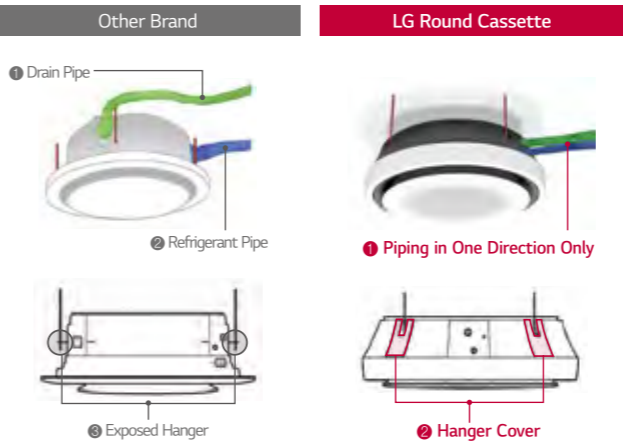
Slim and Compact design

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



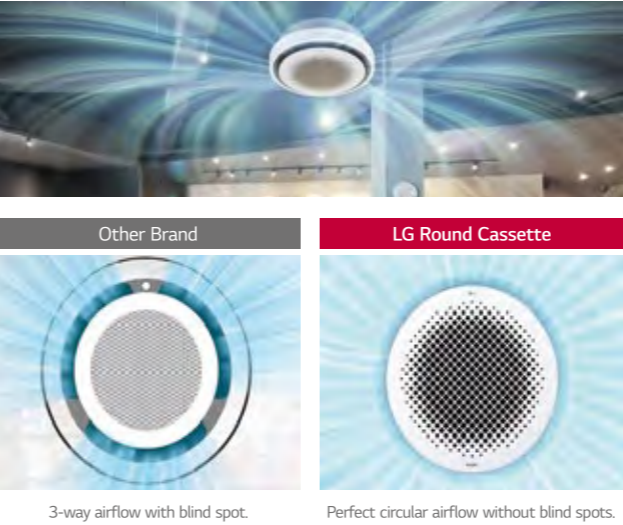
Minimal exposure design

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



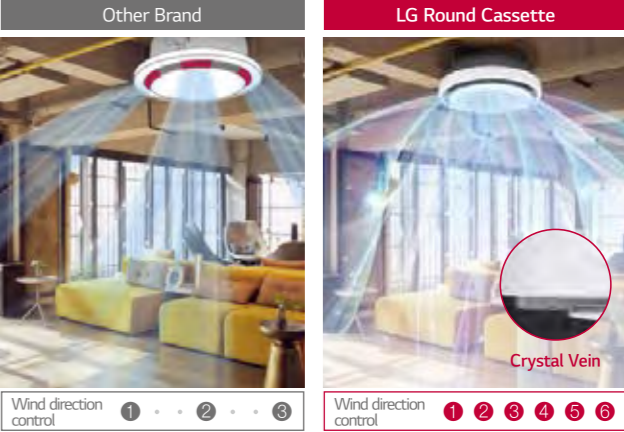
Perfect round air flow

Perfect round flow without blind spots.



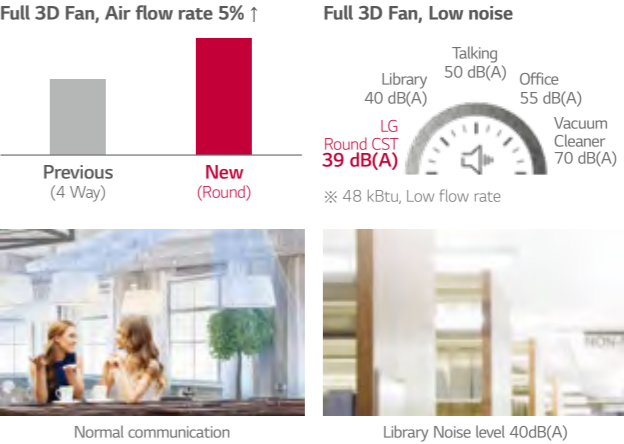
Visible air flow

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



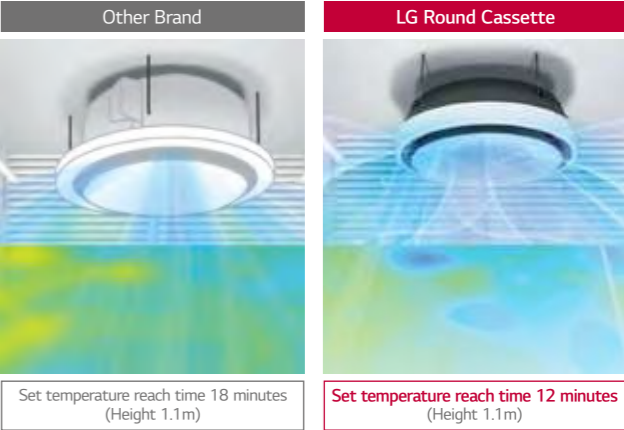
Powerful and Quiet air flow

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



30% Faster in cooling

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



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

ROUND CEILING CASSETTE

ARNU24GTYA4 / ARNU36GTYA4
ARNU48GTYA4

Available from **JUNE 2020**



| 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 |
| | Body | mm | 1,050 x 330 x 1,050 | 1,050 x 330 x 1,050 | 1,050 x 330 x 1,050 |
| Dimensions (W x H x D) | Shipping | mm | 1,137 x 395 x 1,132 | 1,137 x 395 x 1,132 | 1,137 x 395 x 1,132 |
| | Type | | 3D Turbo Fan | 3D Turbo Fan | 3D Turbo Fan |
| 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 | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0-1.5 x 2C | 1.0-1.5 x 2C | 1.0-1.5 x 2C |

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

Accessories

| Chassis | ARNU07GM1A4 | ARNU09GM1A4 | ARNU12GM1A4 |
|---|---|-------------|-------------|
| Drain Pump | | ○ | |
| Cassette Cover | | - | |
| Refrigerant Leakage Detector | | PRLDNVS0 | |
| EEV Kit | | - | |
| Independent Power Module | | PRIPO | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO2 Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | - | |
| Zone Controller | | - | |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 Point) | | ○ | |
| Wi-Fi | | PWFMDD200 | |
| Human detection sensor | | - | |
| Floor Temperature Sensor | | - | |
| Air cleaning kit | | - | |
| Elevation Grille | | - | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020



CEILING CONCEALED DUCT



Features & Benefits

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

Key Applications

- Office
- Hotel
- Retail
- Residential building

| | Duct | High | Middle | Low |
|-------------------|------------------------|------|--------|-----|
| Smart | Wi-Fi | ○ | ○ | ○ |
| Energy Efficiency | E.S.P Control | ○ | ○ | ○ |
| | Drain Pump | ○ | ○ | ○ |
| Comfort | Timer (on / off) | ○ | ○ | ○ |
| | Timer (weekly) | ○ | ○ | ○ |
| | Two Thermistor Control | ○ | ○ | ○ |
| | Group Control | ○ | ○ | ○ |

※ ○ : Applied, - : Not applied

SMART

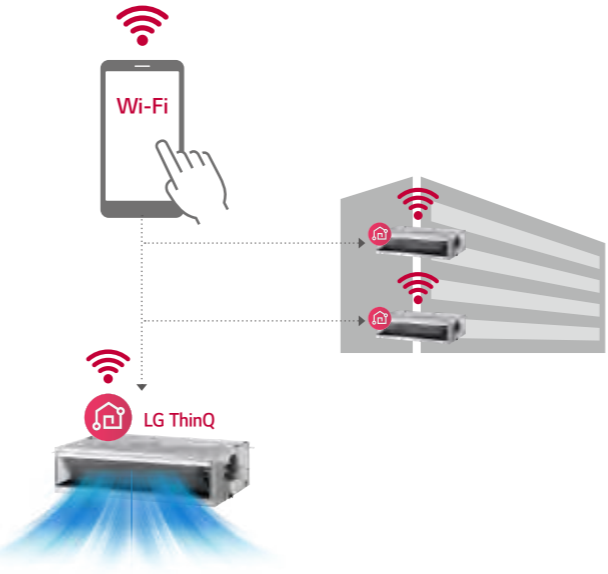
Wi-Fi Control

Anytime, anywhere access with LG ThinQ mobile app



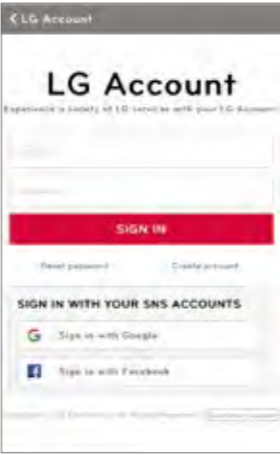
LG ThinQ

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



Easy Registration and Log-in

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



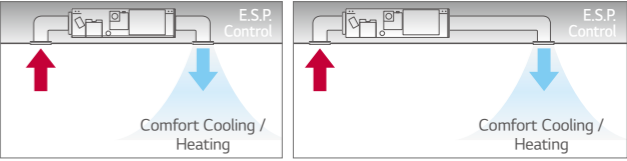
Simple operation for various functions



ENERGY EFFICIENCY

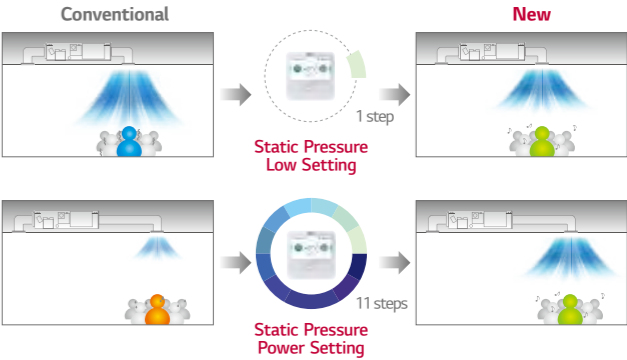
External Static Pressure (ESP) Control

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



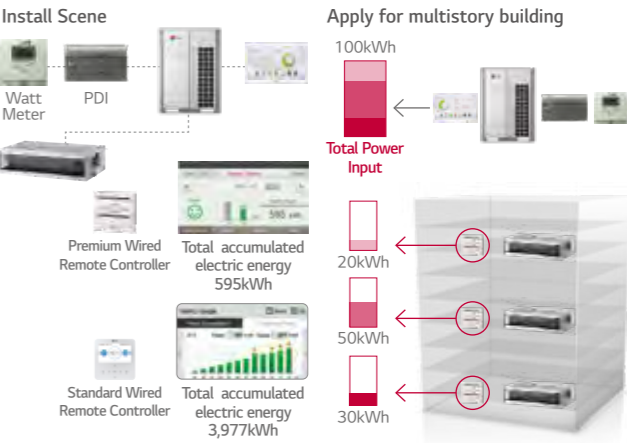
Static Pressure 11-step Control

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



Energy Monitoring

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

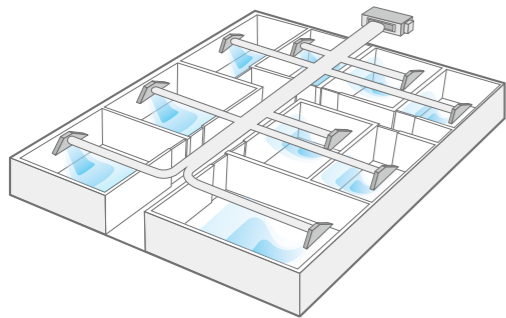


* Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

COMFORT

Multiple Room Operation

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



Filter Alert

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

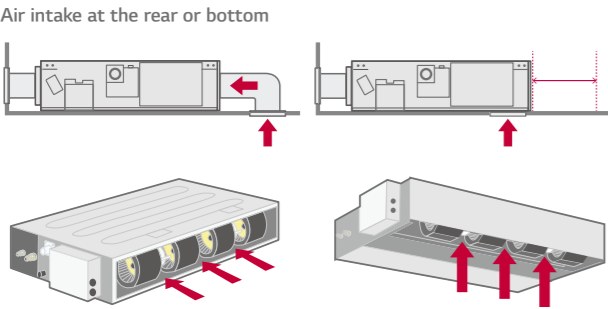
Remain Time Until Indoor Filter Cleaning + Alarm

Remain time until indoor filter cleaning 2400hr.

Remain time until indoor filter cleaning 1729hr.

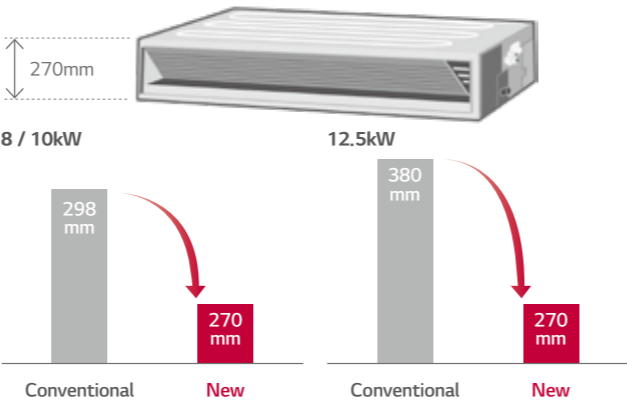
Flexible Installation (Low Static Duct Only)

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



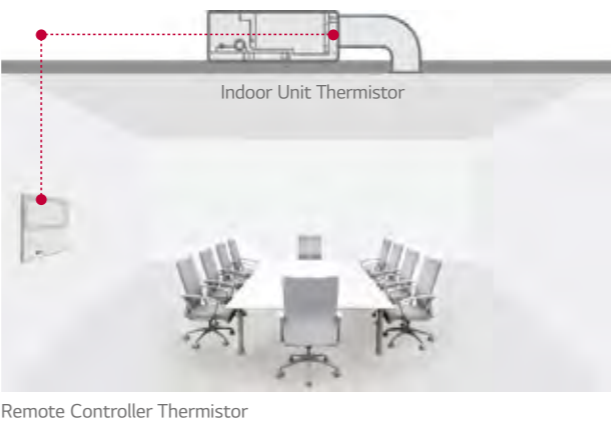
Minimized Height

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



Two Thermistors Control

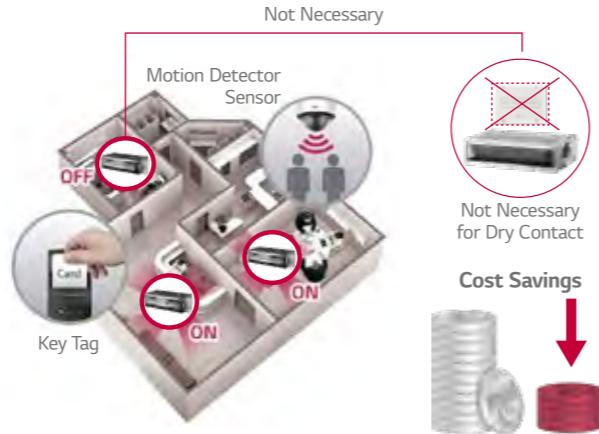
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



1 Point External Input (On / Off Control)

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

Connection between an indoor unit and external devices directly



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



MID STATIC

ARNU07GM1A4 / ARNU09GM1A4
ARNU12GM1A4 / ARNU15GM1A4
ARNU18GM1A4 / ARNU24GM1A4



| Model | | Unit | ARNU07GM1A4 | ARNU09GM1A4 | ARNU12GM1A4 | ARNU15GM1A4 | ARNU18GM1A4 | ARNU24GM1A4 |
|-----------------------------------|---|-----------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Cooling Capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating Capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Power Input (H / M / L) | Nominal | W | 39 / 30 / 25 | 40 / 32 / 26 | 46 / 38 / 31 | 67 / 53 / 46 | 85 / 63 / 55 | 91 / 74 / 58 |
| | | | | | | | | |
| Dimensions (W x H x D) | Body | mm | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 | 900 x 270 x 700 |
| | Shipping | mm | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 | 1,100 x 338 x 773 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 | 136 x 1 |
| | Air Flow Rate (H / M / L) | m³/min | 9.0 / 7.5 / 6.0 | 9.5 / 7.5 / 6.0 | 11.0 / 9.0 / 7.0 | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 6 (59) | 6 (59) | 6 (59) | 6 (59) | 6 (59) | 6 (59) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 9.0 / 7.5 / 6.0 | 9.5 / 7.5 / 6.0 | 11.0 / 9.0 / 7.0 | 16.0 / 12.0 / 9.0 | 17.0 / 14.5 / 12.0 | 19.0 / 16.0 / 14.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) | 2.5 (25) |
| | Motor Type | | BLDC | BLDC | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø6.35 (1/4) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø12.7 (1/2) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 26.5 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 26 / 24 / 23 | 27 / 25 / 23 | 27 / 25 / 23 | 30 / 27 / 23 | 31 / 28 / 25 | 32 / 29 / 26 |
| Sound Power Levels (H / M / L) | | dB(A) | 55 / 54 / 51 | 55 / 54 / 52 | 56 / 54 / 52 | 59 / 57 / 55 | 59 / 57 / 55 | 59 / 58 / 56 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | | | | PRLDNVSO | | |
| EEV Kit | | | | PRGK024A0 (~5.6kW) | | |
| Independent Power Module | | | | PRIP0 | | |
| Robot Cleaner | | | | - | | |
| Pre Filter (washable) | | | | ○ | | |
| Ion Generator | | | | - | | |
| CO ₂ Sensor | | | | - | | |
| Ventilation Kit | | | | - | | |
| IR Receiver | | | | PWLRVN000 | | |
| Zone Controller | | | | ABZCA | | |
| Dry Contact (with additional accessory) | | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | | ○ | | |
| Wi-Fi | | | | PWFMDD200 | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

MID STATIC

ARNU28GM2A4 / ARNU36GM2A4
ARNU42GM2A4 / ARNU48GM3A4
ARNU54GM3A4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | | | | PRLDNVSO | |
| EEV Kit | | | | - | |
| Independent Power Module | | | | PRIP0 | |
| Robot Cleaner | | | | - | |
| Pre Filter (washable) | | | | ○ | |
| Ion Generator | | | | - | |
| CO ₂ Sensor | | | | - | |
| Ventilation Kit | | | | - | |
| IR Receiver | | | | PWLRVN000 | |
| Zone Controller | | | | ABZCA | |
| Dry Contact (with additional accessory) | | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | | | ○ | |
| Wi-Fi | | | | PWFMDD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

HIGH STATIC

ARNU76GB8A4 / ARNU96GB8A4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | | PRLDNVS0 |
| EEV Kit | | ○ |
| Independent Power Module | | PRIP0 |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | PWLRVN000 |
| Zone Controller | | ABZCA |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4
ARNU09GL1G4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU05GL1G4 | ARNU07GL1G4 | ARNU09GL1G4 |
|---|-------------|---|-------------|
| Drain Pump | | ○ | |
| Cassette Cover | | - | |
| Refrigerant Leakage Detector | | PRLDNVS0 | |
| EEV Kit | | PRGK024A0 | |
| Independent Power Module | | PRIP0 | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO ₂ Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | PWLRVN000 | |
| Zone Controller | | ABZCA | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ | |
| Wi-Fi | | PWFMD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4
ARNU18GL2G4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU12GL2G4 | ARNU15GL2G4 | ARNU18GL2G4 |
|---|-------------|--|-------------|
| Drain Pump | | ○ | |
| Cassette Cover | | - | |
| Refrigerant Leakage Detector | | PRLDNVS0 | |
| EEV Kit | | - | |
| Independent Power Module | | PRIP0 | |
| Robot Cleaner | | - | |
| Pre Filter (washable) | | ○ | |
| Ion Generator | | - | |
| CO ₂ Sensor | | - | |
| Ventilation Kit | | - | |
| IR Receiver | | PWLRVN000 | |
| Zone Controller | | ABZCA | |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input1)), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ | |
| Wi-Fi | | PWFMDD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

LOW STATIC

ARNU21GL3G4 / ARNU24GL3G4



| Model | | Unit | ARNU21GL3G4 | ARNU24GL3G4 |
|-----------------------------------|---|-----------|--------------------|--------------------|
| Cooling Capacity | | kW | 6.2 | 7.1 |
| Heating Capacity | | kW | 7.0 | 8.0 |
| Power Input (H / M / L) | Nominal | W | 72 / 53 / 48 | 103 / 63 / 48 |
| | | | | |
| Dimensions (W x H x D) | Body | mm | 1,100 x 190 x 700 | 1,100 x 190 x 700 |
| | Shipping | mm | 1,262 x 255 x781 | 1,262 x 255 x781 |
| Fan | Type | | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 19 x 2 | 19 x 2 |
| | Air Flow Rate (H / M / L) (High Mode-Factory Set) | m³/min | 17.5 / 14.0 / 12.0 | 20.0 / 16.0 / 12.0 |
| | External Static Pressure (High Mode) | mmAq (Pa) | 2.54 (25) | 2.54 (25) |
| | Air Flow Rate (H / M / L) (Standard Mode) | m³/min | 17.5 / 14.0 / 12.0 | 20.0 / 16.0 / 12.0 |
| | External Static Pressure (Standard Mode) | mmAq (Pa) | 0 (0) | 0 (0) |
| | Motor Type | | BLDC | BLDC |
| Air Filter | | | Pre Filter | Pre Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) | Ø25 (1) |
| Weight | Body | kg | 27.0 | 27.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 35 / 29 / 28 | 36 / 33 / 28 |
| Sound Power Levels (H / M / L) | | dB(A) | 59 / 55 / 54 | 63 / 59 / 55 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU21GL3G4 | ARNU24GL3G4 |
|---|---|-------------|
| Drain Pump | | ○ |
| Cassette Cover | | - |
| Refrigerant Leakage Detector | | PRLDNVS0 |
| EEV Kit | | PRGK024A0 |
| Independent Power Module | | PRIP0 |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | PWLRVN000 |
| Zone Controller | | ABZCA |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMDD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

HIGH SENSIBLE

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 × 360 × 700 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 350 x 1 | 350 x 1 | 350 x 1 | 500 x 1 |
| | Air Flow Rate (H / M / L) (High static Mode - factory set) | 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 |
| | External Static Pressure | mmAq (Pa) | 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 |
| | External Static Pressure | mmAq (Pa) | 5 (49) | 5 (49) | 5 (49) | 5 (49) |
| | Motor type | | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | - | - | - | - |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø15.88 (5/8) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 25 (1) | 25 (1) | 25 (1) |
| Net Weight | kg | 38 | 38 | 38 | 38 | 44 |
| 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 | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 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 Leakage Detector | | | PRLDNVSO | | |
| EEV Kit | | | - | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | PWLRVN000 | | |
| Zone Controller | | | ABZCA | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | PWFMD200 | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

HIGH SENSIBLE

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 x 460 x 688 | 1,562 x 460 x 688 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 500 x 1 | 500 x 1 | 375 x 2 | 375 x 2 |
| | Air Flow Rate (H / M / L) (High static Mode - factory set) | 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 |
| | External Static Pressure | mmAq (Pa) | 6 (59) | 6 (59) | 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 |
| | External Static Pressure | mmAq (Pa) | 5 (49) | 5 (49) | 9 (88) | 9 (88) |
| | Motor type | | BLDC | BLDC | BLDC | BLDC |
| Air Filter | | | - | - | - | - |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø15.88 (5/8) | Ø15.88 (5/8) | Ø19.05 (3/4) | Ø19.05 (3/4) |
| | Drain Pipe (Internal Dia.) | mm (inch) | 25 (1) | 25 (1) | 25 (1) | 25 (1) |
| Net Weight | kg | 44 | 44 | 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 | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 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

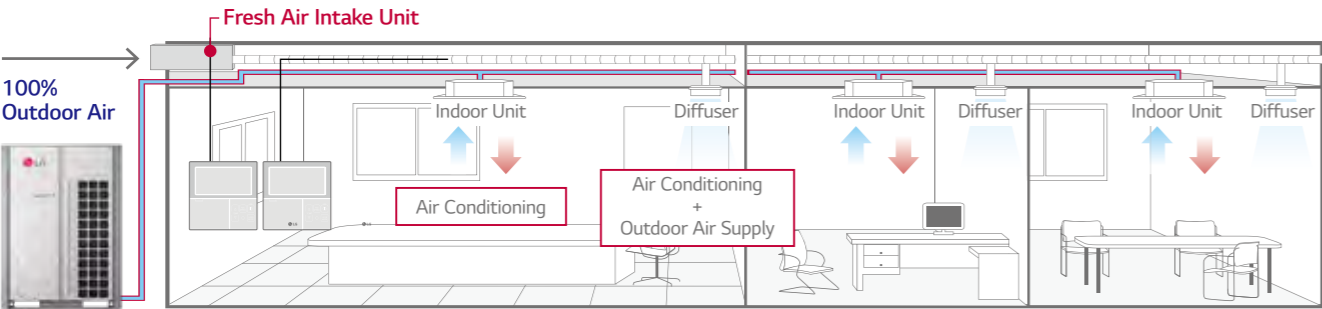
| Chassis | ARNU24GM3A4 | ARNU28GM3A4 | ARNU36GB8A4 | ARNU42GB8A4 | ARNU48GB8A4 |
|---|-------------|-------------|---|-------------|-------------|
| Drain Pump | | | ○ | | |
| Cassette Cover | | | - | | |
| Refrigerant Leakage Detector | | | PRLDNVSO | | |
| EEV Kit | | | - | | |
| Independent Power Module | | | PRIP0 | | |
| Robot Cleaner | | | - | | |
| Pre Filter (washable) | | | ○ | | |
| Ion Generator | | | - | | |
| CO ₂ Sensor | | | - | | |
| Ventilation Kit | | | - | | |
| IR Receiver | | | PWLRVN000 | | |
| Zone Controller | | | ABZCA | | |
| Dry Contact (with additional accessory) | | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | |
| External Input (1 point) | | | ○ | | |
| Wi-Fi | | | PWFMD200 | | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

FRESH AIR INTAKE

Fresh Outdoor Air Supply

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

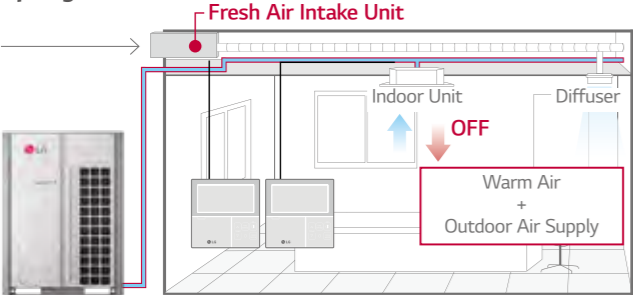


MULTI V 5 Outdoor Unit

Economic Operation

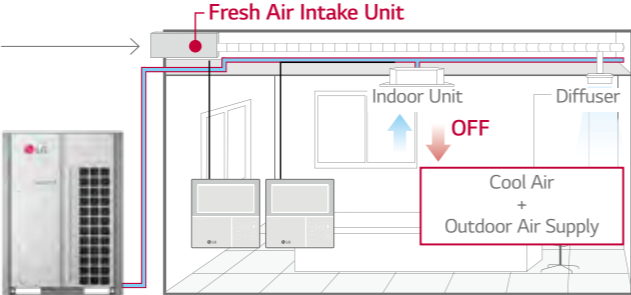
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



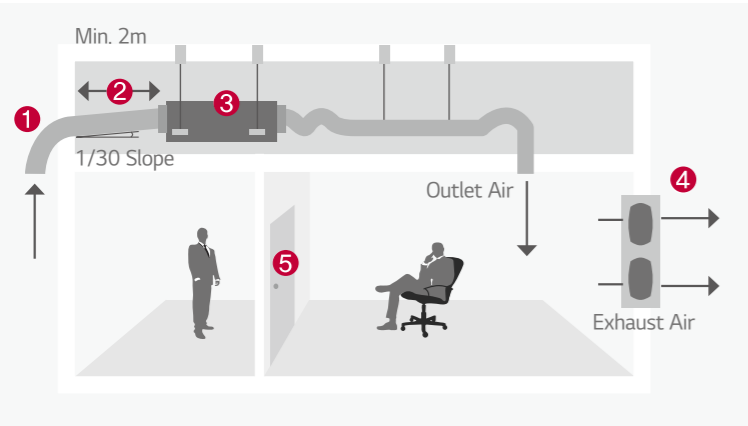
MULTI V 5 Outdoor Unit

Autumn Season



MULTI V 5 Outdoor Unit

Installation Scene



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

FRESH AIR INTAKE UNIT

ARNU76GB8Z4 / ARNU96GB8Z4



| Model | Unit | ARNU76GB8Z4 | ARNU96GB8Z4 |
|-----------------------------------|---|-------------------|--------------------|
| Cooling Capacity | kW | 22.4 | 28.0 |
| Heating Capacity | kW | 21.4 | 26.7 |
| Power Input (H / M / L) | Nominal W | 230 / 200 / 200 | 360 / 230 / 230 |
| Dimensions (W x H x D) | Body mm | 1,562 x 460 x 688 | 1,562 x 460 x 688 |
| | Shipping mm | 1,806 x 537 x 825 | 1,806 x 537 x 825 |
| Fan | Type | Sirocco Fan | Sirocco Fan |
| | Motor Output x Number | W x No. | 375 x 1 |
| | Air Flow Rate (H / M / L) (High Mode-Factoty Set) | m³/min | 23.7 / 13.2 / 13.2 |
| | External Static Pressure | mmAq (Pa) | 22 (216) |
| | Motor Type | BLDC | BLDC |
| Air Filter | | Long Life Filter | Long Life Filter |
| Pipe Connections | Liquid Side | mm (inch) | Ø9.52 (3/8) |
| | Gas Side | mm (inch) | Ø19.05 (3/4) |
| | Drain Pipe (Internal Dia.) | mm (inch) | Ø25 (1) |
| Weight | Body kg | 73.0 | 73.0 |
| Sound Pressure Levels (H / M / L) | dB(A) | 45 / 43 / 43 | 47 / 45 / 45 |
| Sound Power Levels (H / M / L) | dB(A) | 70 / 67 / 67 | 72 / 70 / 70 |
| Power Supply | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

CAUTION

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

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

Accessories

| Chassis | ARNU76GB8Z4 | ARNU96GB8Z4 |
|---|-------------|---|
| Drain Pump | | ○ |
| Cassette Cover | | - |
| Refrigerant Leakage Detector | | PRLDNVSO |
| EEV Kit | | - |
| Independent Power Module | | PRIPQ |
| Robot Cleaner | | - |
| Pre Filter (washable) | | ○ |
| Ion Generator | | - |
| CO ₂ Sensor | | - |
| Ventilation Kit | | - |
| IR Receiver | | PWLRVN000 |
| Zone Controller | | - |
| Dry Contact (with additional accessory) | | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | | ○ |
| Wi-Fi | | PWFMDD200 |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

CEILING & FLOOR CONVERTIBLE UNIT CEILING SUSPENDED UNIT



Features & Benefits

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

Key Applications

- Retail
- Shop
- Restaurant

| | Ceilings | Ceiling & Floor Convertible Unit | Ceiling Suspended Unit |
|------------------------|------------------------|----------------------------------|------------------------|
| Smart | Wi-Fi | ○ | ○ |
| Fast Cooling & Heating | Jet Cool | ○ | ○ |
| | Sleep mode | ○ | ○ |
| | Timer (on / off) | ○ | ○ |
| Comfort | Timer (weekly) | ○ | ○ |
| | Two thermistor control | ○ | ○ |
| | Group control | ○ | ○ |

※ ○ : Applied, - : Not applied

SMART

Wi-Fi Control

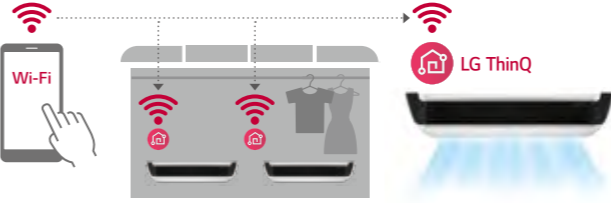
Access your air conditioner anytime and from anywhere.



LG ThinQ

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

Access your air conditioner anytime and from anywhere



Easy Registration and Log-in

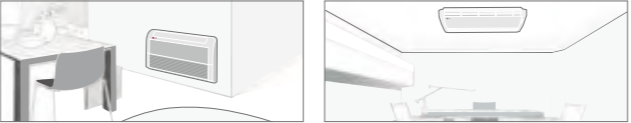
Follow the easy set-up steps that will activate SmartThinQ's impressive feature.



COMFORT (CONVERTIBLE UNIT)

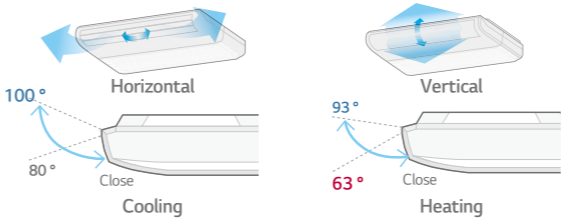
Flexible

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



Air flow Direction Control

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



Filter Change Alarm

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



COMFORT (CEILING SUSPENDED UNIT)

Differentiated Design

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



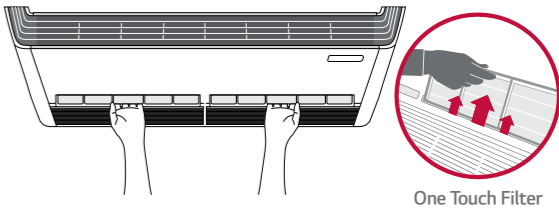
Powerful Cooling & Heating

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



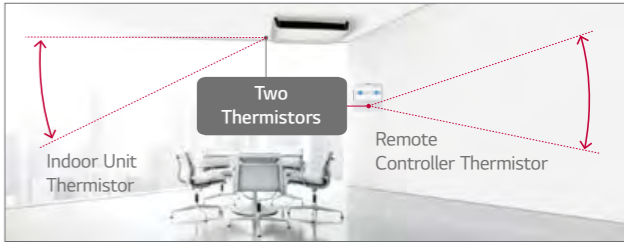
One Touch & 2 Piece Filter

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



Two Thermistors Control

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



CEILING & FLOOR CONVERTIBLE UNIT

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 279 x 562 | 975 x 279 x 562 |
| | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number | W x No. | 27 x 1 | 27 x 1 |
| Fan | 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 | | 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 | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | - | - |
| EEV Kit | PRLDNVS0 | |
| Independent Power Module | PRGK024A0 | |
| Plasma Kit | PRIP0 | |
| Robot Cleaner | - | - |
| Pre Filter (washable) | ○ | |
| Ion Generator | - | - |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), 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) Available from April 2020

CEILING SUSPENDED UNIT

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 |
| | 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 |
| Fan | 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 | | kg | 29.0 | 29.0 | 37.0 | 37.0 |
| Sound Pressure Levels (H / M / L) | | dB(A) | 36 / 34 / 33 | 37 / 35 / 33 | 48 / 46 / 44 | 49 / 47 / 44 |
| Sound Power Levels (H / M / L) | | dB(A) | 61 / 59 / 56 | 62 / 59 / 56 | 68 / 66 / 64 | 68 / 67 / 66 |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

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

※ ○ : Applied, - : Not Applied
Option: Refer to model name in table
1) Available from April 2020

CONSOLE & FLOOR STANDING UNIT



Features & Benefits

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

Key Applications

- Residential building
- Hotel
- Historical building


| | Floor standing | Console | Floor Standing Unit |
|------------------------|------------------------|---------|---------------------|
| 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 | ○ | ○ |

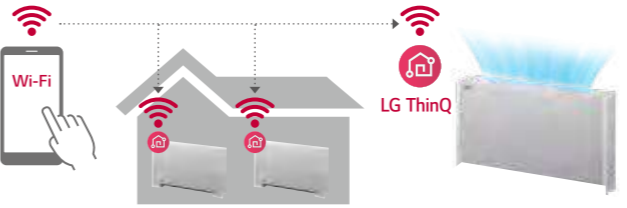
※ ○ : Applied, - : Not applied

SMART

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

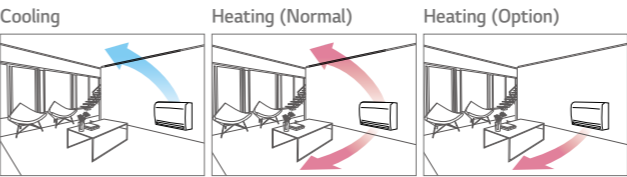
**LG ThinQ**
Search “LG ThinQ” on Google market or Appstore then download the app.



COMFORT(Console)

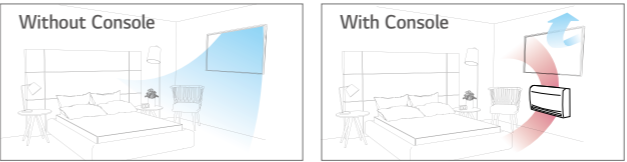
Air Flow Direction Change

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



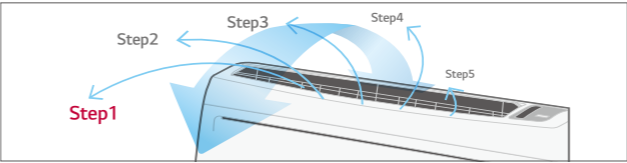
Cold Draft Protection

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

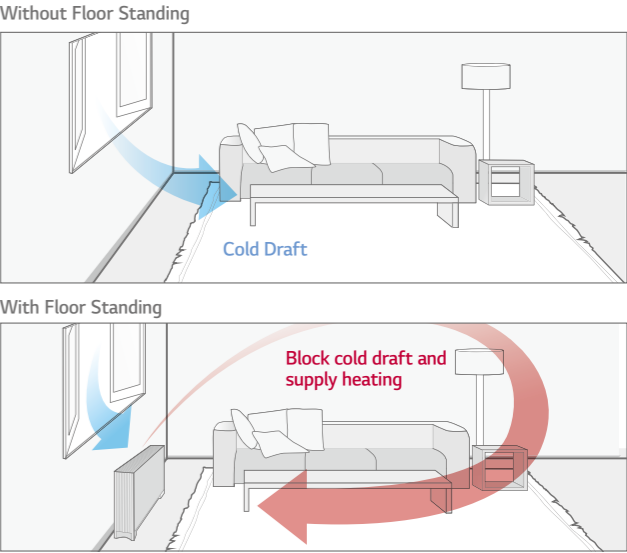
It is possible to install and connect the outdoor unit in 6 different ways. (Right Side, Right Back, Right Floor, Left Side, Left Back, Left Floor)



COMFORT(Floor Standing Unit)

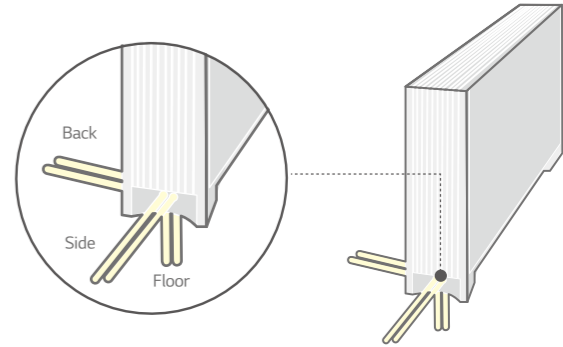
Protect Cold Draft

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



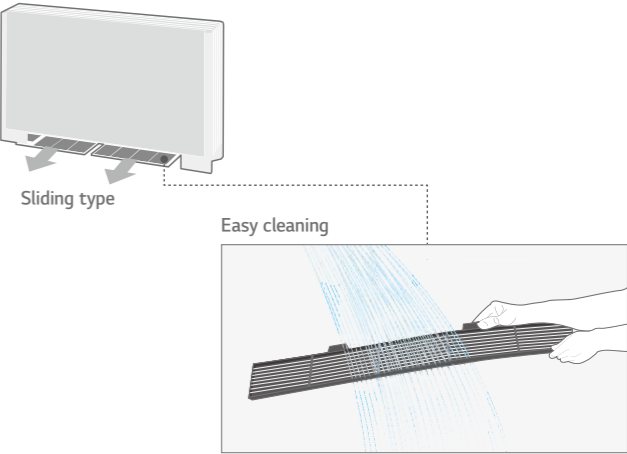
3 Way Flexible Piping

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.



CONSOLE

ARNU07GQAA4 / ARNU09GQAA4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU07GQAA4 | ARNU15GQAA4 |
|---|---|---|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leakage Detector | PRLDNVSO | PRLDNVSO |
| EEV Kit | PRGK024A0 | PRGK024A0 |
| Independent Power Module | PRIP0 | PRIP0 |
| Robot Cleaner | - | - |
| Pre Filter (washable) | ○ | ○ |
| Ion Generator | ○ | ○ |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | ○ | ○ |
| Wi-Fi | PWFMDD200 | PWFMDD200 |

※ ○ : Applied, - : Not Applied
Option: Refer to model name in table
1) Available from April 2020

CONSOLE

ARNU12GQAA4 / ARNU15GQAA4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 Leakage Detector | PRLDNVSO | PRLDNVSO |
| EEV Kit | PRGK024A0 | PRGK024A0 |
| Independent Power Module | PRIP0 | PRIP0 |
| Robot Cleaner | - | - |
| Pre Filter (washable) | ○ | ○ |
| Ion Generator | ○ | ○ |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) |
| External Input (1 point) | ○ | ○ |
| Wi-Fi | PWFMDD200 | PWFMDD200 |

※ ○ : Applied, - : Not Applied
Option: Refer to model name in table
1) Available from April 2020

FLOOR STANDING UNIT

ARNU07GCEA4 / ARNU09GCEA4
ARNU12GCEA4 / ARNU15GCEA4
ARNU18GCF A4 / ARNU24GCF A4



* A : Floor Standing with case

| Model | | Unit | ARNU07GCEA4 | ARNU09GCEA4 | ARNU12GCEA4 | ARNU15GCEA4 | ARNU18GCF A4 | ARNU24GCF A4 |
|-----------------------------------|----------------------------|-----------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| 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 | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU07GCEA4 | ARNU09GCEA4 | ARNU12GCEA4 | ARNU15GCEA4 | ARNU18GCF A4 | ARNU24GCF A4 |
|---|-------------|---|-------------|-------------|--------------|--------------|
| Drain Pump | | - | | | - | |
| Cassette Cover | | - | | | - | |
| Refrigerant Leakage Detector | | PRLDNVSO | | | PRLDNVSO | |
| EEV Kit | | PRGK024A0 | | | - | |
| Independent Power Module | | PRIPO | | | PRIPO | |
| 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), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | | |
| External Input (1 point) | | ○ | | | ○ | |
| Wi-Fi | | PWFMDD200 | | | PWFMDD200 | |

※ ○ : Applied, - : Not Applied
Option: Refer to model name in table
1) Available from April 2020

FLOOR STANDING UNIT

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 | 20.0 | 20.0 | 20.0 | 20.0 | 26.0 | 26.0 |
| 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 | | Ø, V, Hz | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 | 1, 220-240, 50 |
| Communication Cable | | mm² x No. | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C | 1.0 ~ 1.5 x 2C |

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (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 | ARNU07GCEU4 | ARNU09GCEU4 | ARNU12GCEU4 | ARNU15GCEU4 | ARNU18GCFU4 | ARNU24GCFU4 |
|---|-------------|---|-------------|-------------|-------------|-------------|
| Drain Pump | | - | | | - | |
| Cassette Cover | | - | | | - | |
| Refrigerant Leakage Detector | | PRLDNVSO | | | PRLDNVSO | |
| EEV Kit | | PRGK024A0 | | | - | |
| Independent Power Module | | PRIPO | | | PRIPO | |
| 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), PDRYCB300 (8 points for thermostat compatible), PDRYCB320 (Universal input ¹⁾), PDRYCB400 (2 points input), PDRYCB500 (Modbus) | | | | |
| External Input (1 point) | | ○ | | | ○ | |
| Wi-Fi | | PWFMDD200 | | | PWFMDD200 | |

※ ○ : Applied, - : Not Applied
Option: Refer to model name in table
1) Available from April 2020

COMPATIBILITY
































| No. | New Function Name (4th generation indoor) | Function Description | Required Controller | | Remarks |
|-----|---|--|-------------------------|------------------------|--|
| | | | Wired Remote Controller | Centralized Controller | |
| 1 | Energy Monitoring (Accumulated Electric Energy Check) | Monitoring accumulated power consumption by Wired Remote Controller | ○ | ○ | * Necessary to install the PDI (Power Distribution Indicator) and central controller * 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 Steps) | ○ | - | * Thermo On / Off temperature setting (4 step) |
| 11 | Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type) | Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment | ○ | - | * Only applied in Ceiling Concealed Duct |
| 12 | 1 point External Input (On / Off control) | Indoor unit can 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 5 |
| 16 | Comfort Cooling setting | set the outdoor unit Comfort cooling operation value | ○ | ○ | * Available only with MULTI V 5 |
| 17 | Smart Load Control setting | Change the outdoor unit's Smart Load Control stage value. | ○ | ○ | * Available only with MULTI V 5 |
| 18 | ODU Refrigerant Noise Reduction setting | set the outdoor unit's refrigerant noise reduction function | ○ | ○ | * Available only with MULTI V 5 |
| 19 | Low noise mode time setting | set the start and end time of the outdoor unit's low noise mode operation | ○ | ○ | * Available only with MULTI V 5 |

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 | | | | |
|--|--|---|--------------------------------------|----------------------------|------------------------|----------------------------|---------------------------|----------------------|-----------------------------|
| Premium (PREMTA000 PREMTA000A PREMTA000B) | Standard III (PREMTB100) (PREMTBB10) | Standard II (PREMTBB01) (PREMTB001) | Simple | | AC EZ (PQCSZ250S0) | AC EZ Touch (PACEZA000) | AC Smart 5 (PACSSA000) | ACP 5 (PACP5A000) | AC Manager 5 (PACM5A000) |
| | | | Simple for Hotel (PQRCHCA0Q / QW) | Simple (PQRCVCLOQ / QW) | | | | | |
| ○ | ○ | ○ | - | - | - | ○ | ○ | ○ | ○ |
| - | - | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | - | - | - | - | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | - | - | - | - | ○ | ○ | ○ |
| ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | - | - | - | - | ○ | ○ | - |
| ○ | ○ | ○ | - | - | - | - | - | - | - |
| ○ (4 step) | ○ (4 step) | ○ (3 step) | ○ (3 step) | ○ (3 step) | - | - | - | - | - |
| ○ | ○ | ○ | ○ | ○ | - | - | - | - | - |
| - | ○ | ○ | - | - | - | - | - | - | - |
| ○ | ○ | ○ | - | - | ○ | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | - | - | - | - | - | - | - |
| - | ○ | - | - | - | - | - | ○ | ○ | - |
| - | ○ | - | - | - | - | - | ○ | ○ | - |
| - | ○ | - | - | - | - | - | ○ | ○ | - |
| - | ○ | - | - | - | - | ○ | ○ | ○ | - |





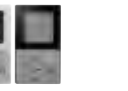


※ ○ : Applied, - : Not applied

COMPATIBILITY

| Controller | | Premium | Standard III | | Standard II | | Simple | | Simple for Hotel | | Wireless | Dry Contact | | | |
|-----------------------------|--|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
| Product | |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| | | PREMTA000 PREMTA000A PREMTA000B | PREMTB100 | PREMTB100 | PREMTB001 | PQRCVCLQ | PQRCVCOQW | PQRCHCA0Q | PQRCHCA0QW | <div>NEW</div> PWLS5B21H (H/P) | Simple Dry Contact PDRYCB000 | 2 points Dry Contact PDRYCB400 | Dry Contact for Thermostat PDRYCB300 <div>NEW</div> PDRYCB320* | For Modbus PDRYCB500 | |
| Ceiling Mounted Cassette |  4 Way | ARNU-A4 ARNU-B4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  2 Way / 1 Way | ARNU-B4 ARNU-C4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  Round CST | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Ceiling Concealed Duct |  High Sensible | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ |
| |  High / Mid Statics | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ |
| |  Low Statics | ARNU-G4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ |
| FAU (Fresh Air intake Unit) |  | ARNU-Z4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | △ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Floor Standing Unit |  | ARNU-A4 ARNU-U4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNU-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNU-R4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| HYDRO KIT 1) |  | ARNH-A4 | - | - | - | - | - | - | - | - | ○ | - | ○ | - | - |
| |  | ARNH-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNH-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Ventilation |  | ARNH-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNH-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| |  | ARNH-A4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

※ ○ : Compatible, △ : Need wired remote controller / IR receiver, - : Not compatible
* Available from April 2020
1) It has a separate remote controller

FEATURE FUNCTIONS

| Controller Name | Wired Remote Controller | | | | | Wireless Remote Controller | Wi-fi Controller |
|-----------------|---|---|---|---|---|---|---|
| | Premium | Standard III | Standard II | Simple | Simple(Hotel) | | |
| Model Name |  |  |  |  |  |  |  |
| | PREMTA000 PREMTA000A PREMTA000B | PREMTB100 PREMTB10 | PREMTB001 PREMTB01 | PQRCVCLQ PQRCVCLQW | PQRCHCA0Q PQRCHCA0QW | <div>NEW</div> PWLS5B21H (H/P) | PWFMD200 |
| Basic | On / Off | ○ | ○ | ○ | ○ | ○ | ○ |
| | Fan Speed Control | ○ | ○ | ○ | ○ | ○ | ○ |
| | Temperature Setting | ○ | ○ | ○ | ○ | ○ | ○ |
| | Mode Change | ○ | ○ | ○ | ○ | - | ○ |
| | Auto Swing | ○ | ○ | ○ | ○ | ○ | ○ |
| | Vane Control (Louver Angle) | ○ | ○ | ○ | ○ | ○ | ○ |
| | E.S.P (External Static Pressure) | ○ | ○ | ○ | ○ | - | - |
| | Electric Failure Compensation | ○ | ○ | ○ | ○ | - | ○ |
| | Indoor Temperature Display | ○ | ○ | ○ | ○ | ○ | ○ |
| | ALL Button Lock (Child Lock) | ○ | ○ | ○ | ○ | - | - |
| Advanced | Schedule / Timer | Weekly-Yearly | Weekly-Yearly | Weekly | - | - | Sleep / On / Off |
| | Additional Mode Setting 1) | ○ | ○ | ○ | - | - | - |
| | Time Display | ○ | ○ | ○ | - | - | ○ |
| | Humid. Display | ○ | ○ | - | - | - | - |
| | Advanced Lock (mode, set point, set point range, on/off Lock) | Advanced Lock | Advanced Lock | - | - | - | - |
| | Filter Sign | ○ | ○ | ○ | - | - | - |
| | Energy Management 2) | ○ | ○ | ○ | - | - | - |
| | Dual Set Point | ○ | ○ | - | - | - | - |
| | Human Detection | - | ○ | - | - | - | - |
| | Temp, Humidity Compensation | ○ | ○ | - | - | - | - |
| ETC | Wifi AP mode setting | ○ | ○ | ○ | ○ | ○ | - |
| | Operation Status LED | ○ | ○ | ○ | ○ | ○ | - |
| | Wireless Remote Controller Receiver | ○3) | - | ○3) | ○3) | ○3) | - |
| | Display | 5 inch Color | 4.3 inch Color | 4.3 inch mono | 2.6 inch mono | 2.6 inch mono | 2 inch mono |
| | Size (W x H x D, mm) | 137 x 121 x 16.5 | 120 x 120 x 16 | 120 x 120 x 16 | 64 x 120 x 15 | 64 x 120 x 15 | 51 x 153 x 26 |
| | Black Light Control for Screen Saver | ○ | ○ | - | - | - | - |
| | | | | | | | |

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWK000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
3) For ceiling type duct
Note:
- Indoor unit should have functions requested by the controller
- If you need more detail, please refer to the manual of product. (<http://partner.lge.com>: Home> Doc.Library> Manual)

HOT WATER SOLUTION

HYDRO KIT



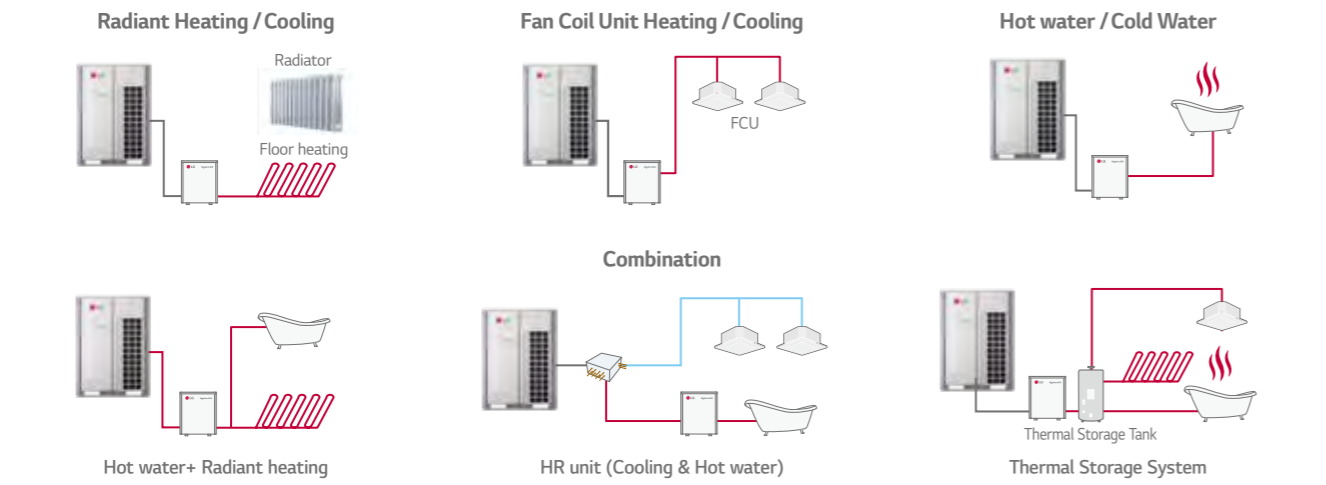
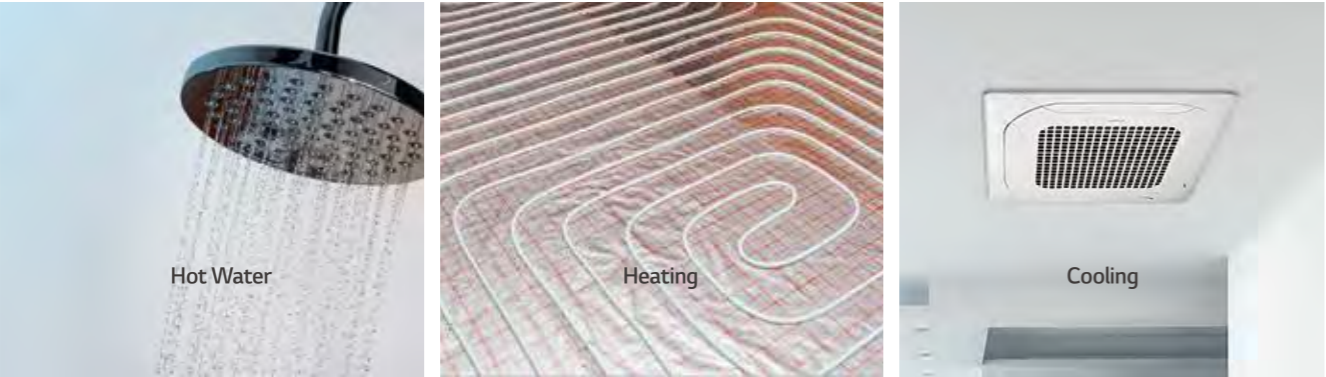
HYDRO KIT

Features & Benefits

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

Key Applications

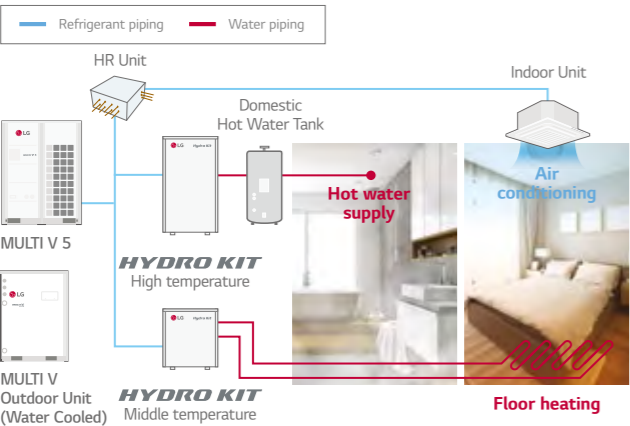
- Where Hot Water is needed such as domestic Hot Water, In-floor or radiant heat. Where cold water is needed such as Fan coil unit and chilled beam.



CONVENIENCE

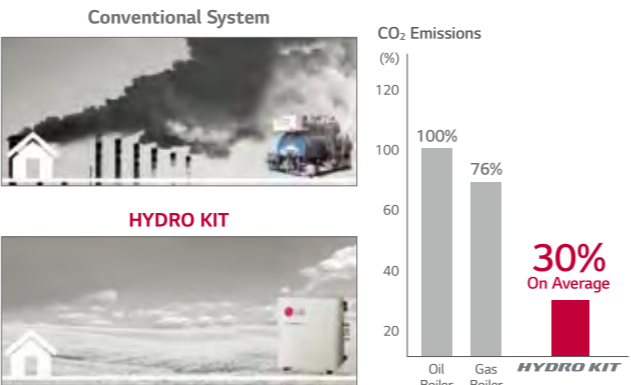
Total Solution

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



Eco-friendly Solution

Green energy solution through the reduction of CO₂ emissions.



EFFICIENCY

Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

1st Proposal MULTI V 5 HYDRO KIT

(Air Conditioning + Hot Water Supply + Floor Heating)

2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler

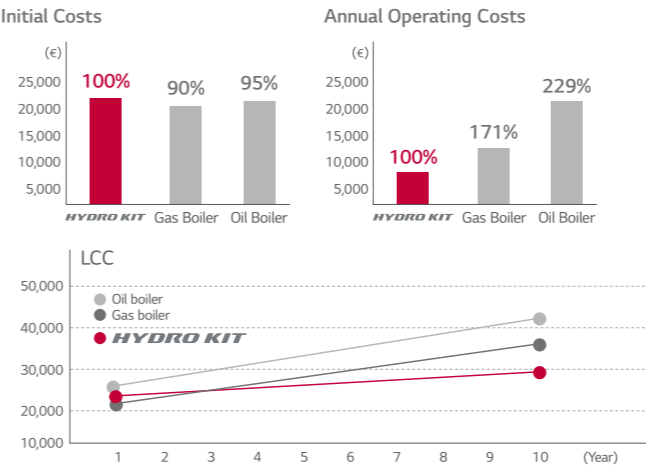
(Hot Water Supply + Floor Heating)

3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler

(Hot Water Supply + Floor Heating)

Analysis Conditions

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

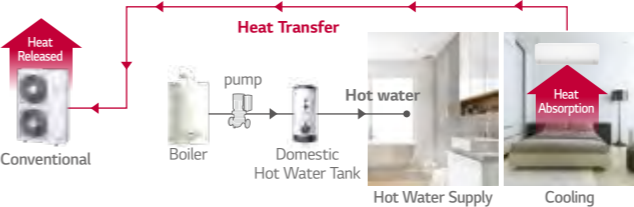


Energy Savings through Heat Recovery

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

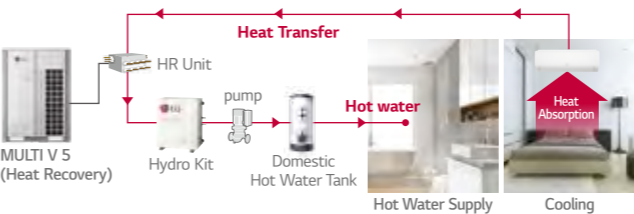
Conventional

Absorbed heat is released to outdoor air.

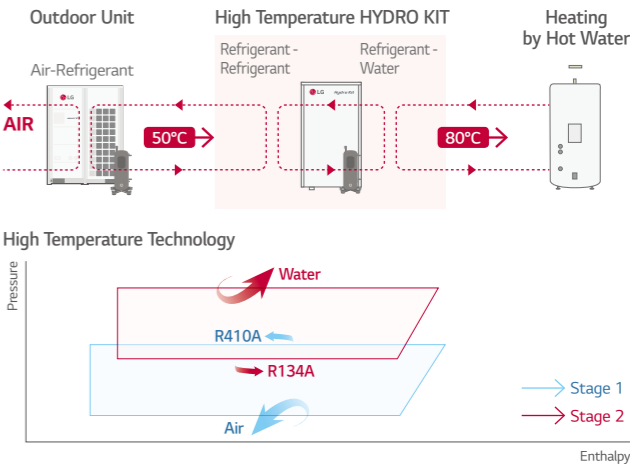


HYDRO KIT

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

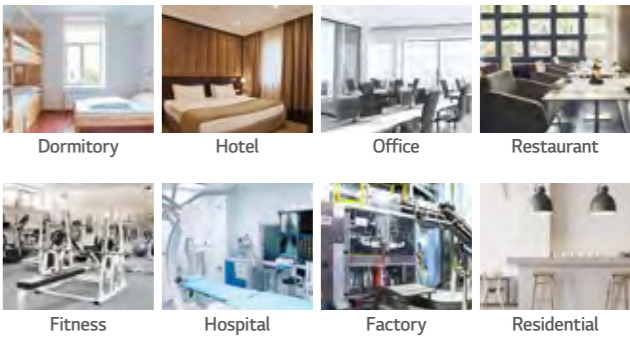


High Temperature HYDRO KIT Cycle Diagram



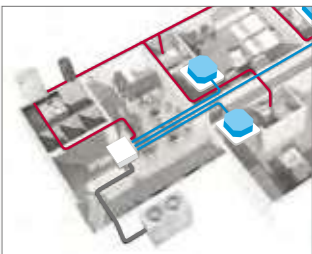
Various Applications

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



Hotel Application

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



Office Application

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



HYDRO KIT

ARNH04GK2A4 / ARNH10GK2A4



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

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

Accessories

| Chassis | ARNH04GK2A4 | ARNH10GK2A4 |
|---|---|-------------|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leakage Detector | PRLDNVSO | |
| EEV Kit | - | - |
| Independent Power Module | ○ | |
| Robot Cleaner | - | - |
| Pre Filter (washable) | - | - |
| Ion Generator | - | - |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible) PDRYCB320 (Universal input ¹⁾) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

HYDRO KIT

ARNH04GK3A4 / ARNH08GK3A4



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

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

Accessories

| Chassis | ARNH04GK3A4 | ARNH08GK3A4 |
|---|---|-------------|
| Drain Pump | - | - |
| Cassette Cover | - | - |
| Refrigerant Leakage Detector | PRLDNVSO | |
| EEV Kit | - | - |
| Independent Power Module | ○ | |
| Robot Cleaner | - | - |
| Pre Filter (washable) | - | - |
| Ion Generator | - | - |
| CO ₂ Sensor | - | - |
| Ventilation Kit | - | - |
| IR Receiver | - | - |
| Zone Controller | - | - |
| Dry Contact (with additional accessory) | PDRYCB000 (1 point contact), PDRYCB300 (8 points for thermostat compatible) PDRYCB320 (Universal input ¹⁾) | |
| External Input (1 point) | ○ | |
| Wi-Fi | PWFMD200 | |

※ ○ : Applied, - : Not applied
Option : Refer to model name in table
1) Available from April 2020

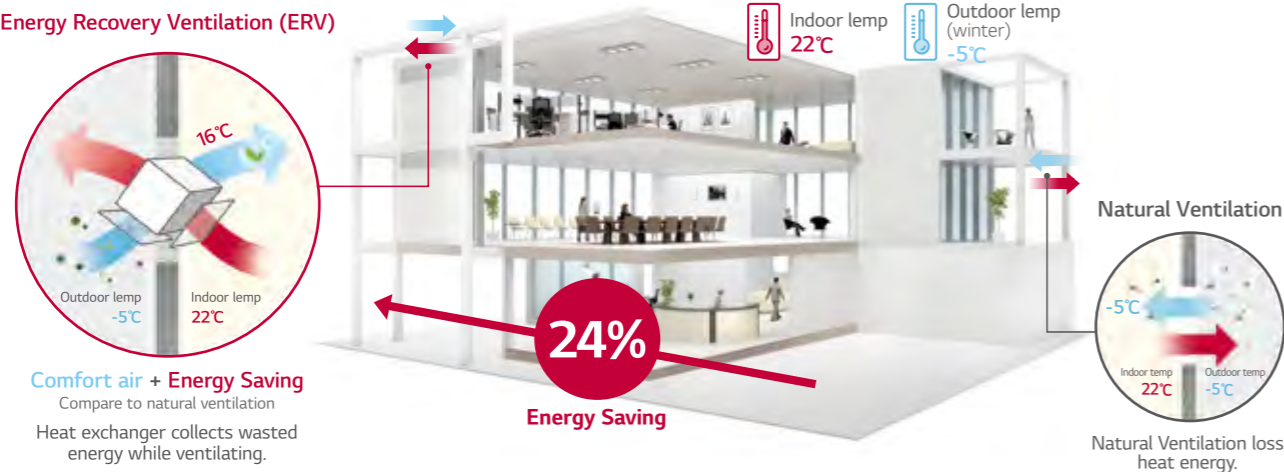
VENTILATION SOLUTIONS

ERV / ERV WITH DX COIL



ENERGY RECOVERY VENTILATION (ERV)

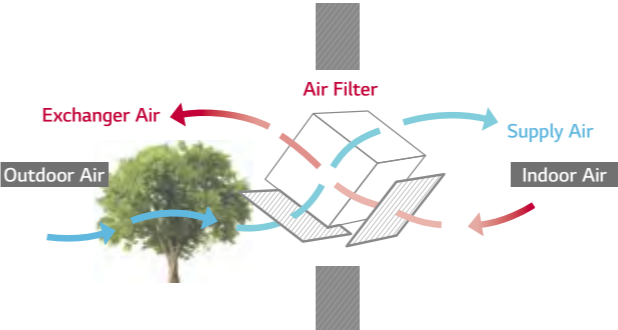
NECESSITY OF ERV



HIGH EFFICIENCY

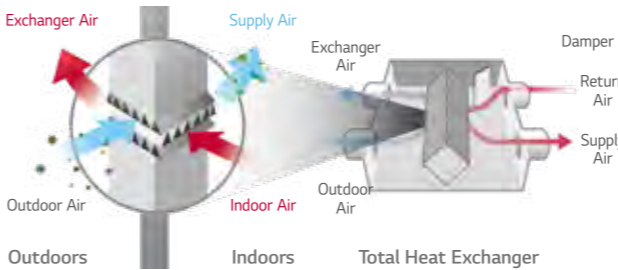
High Efficiency Heat Exchanger

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



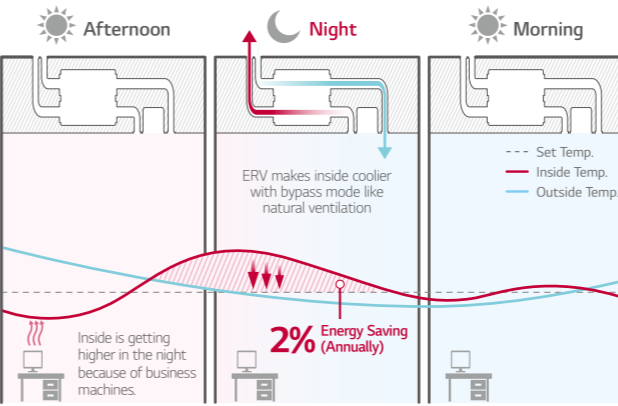
Exhaust System

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



Night Time Free Cooling

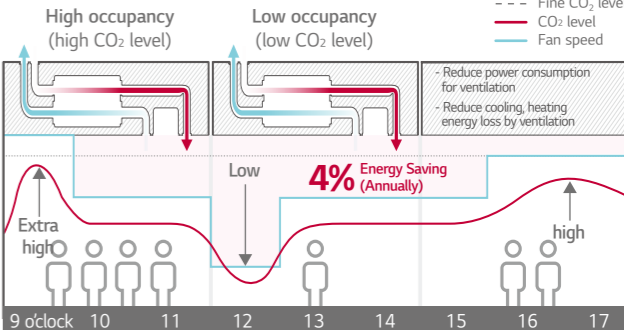
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



* 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

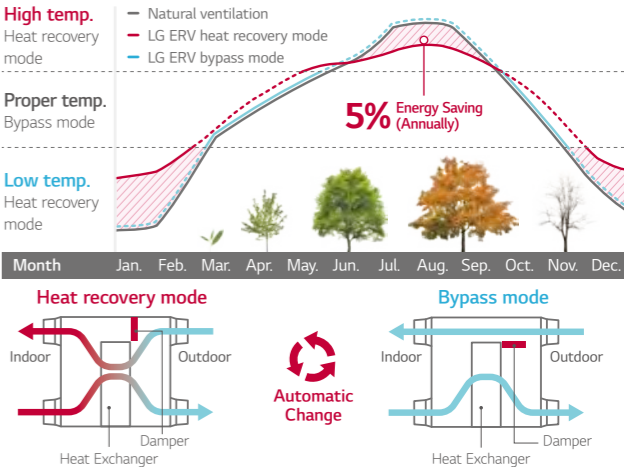
LG ERV reduces energy loss with auto fan speed control following CO₂ level



* 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

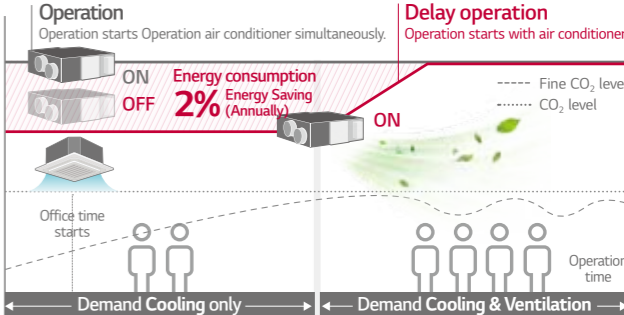
LG ERV senses outdoor temperature and operates automatically following weather condition.



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

Delay Operation

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



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

COMFORT & RELIABILITY

CO₂ Level Monitoring

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

CO₂ Level Visualization

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

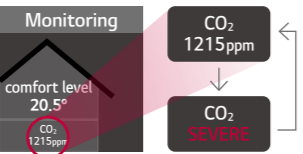


Main display
If the CO₂ level is above 900ppm in the room, the red mark is on.



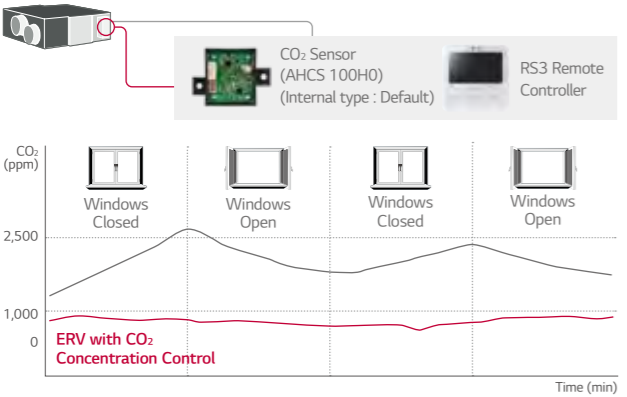
* The remote controller screen image may change.
* Applicable to only Standard III, Premium remote controller.

Further information
CO₂ level and room condition are displayed continuously.



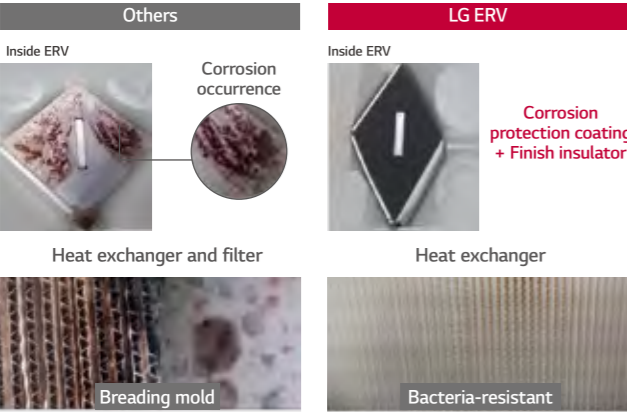
CO₂ Concentration Control

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



High Durability

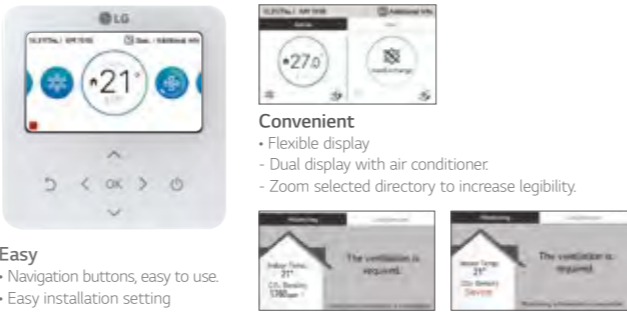
LG ERV durability is increased through bacteria-resistant material of heat exchanger and corrosion protection coating. It prevents shortening product life due to corrosion and mold and supplies high quality air to inside by minimizing the bacteria.



CONVENIENCE

Easy Control

Wired remote controller is easy for usage.



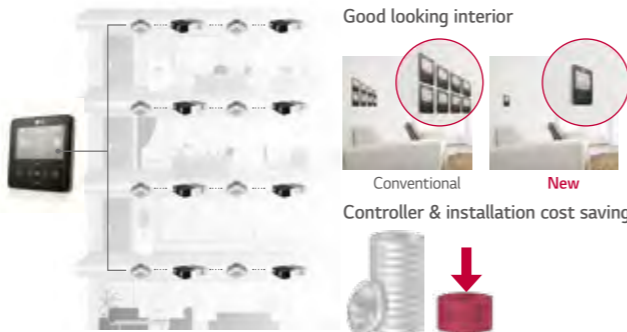
Visible
• Indoor CO₂ level
• Alarm for filter change / Remained time to change filters

Group Control

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

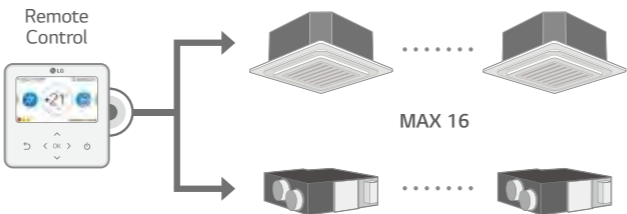
Several units combination

16 units group control is available with 1 remote controller.



Interlocking with Air Conditioning System

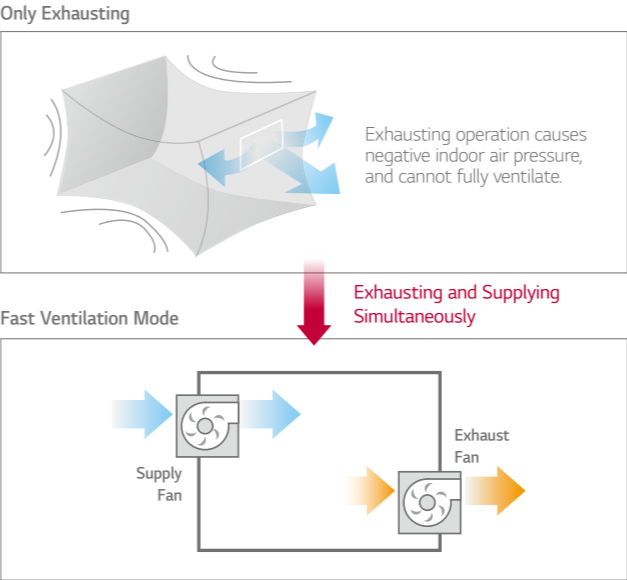
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



CONVENIENCE

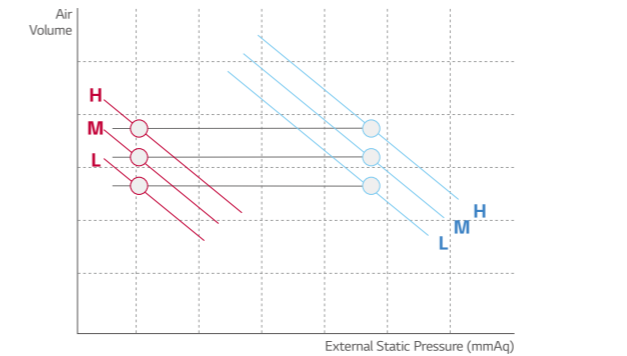
Fast Ventilation Mode

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



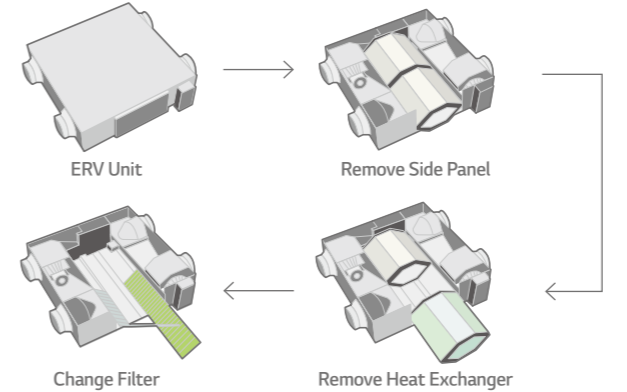
External Static Pressure Control

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



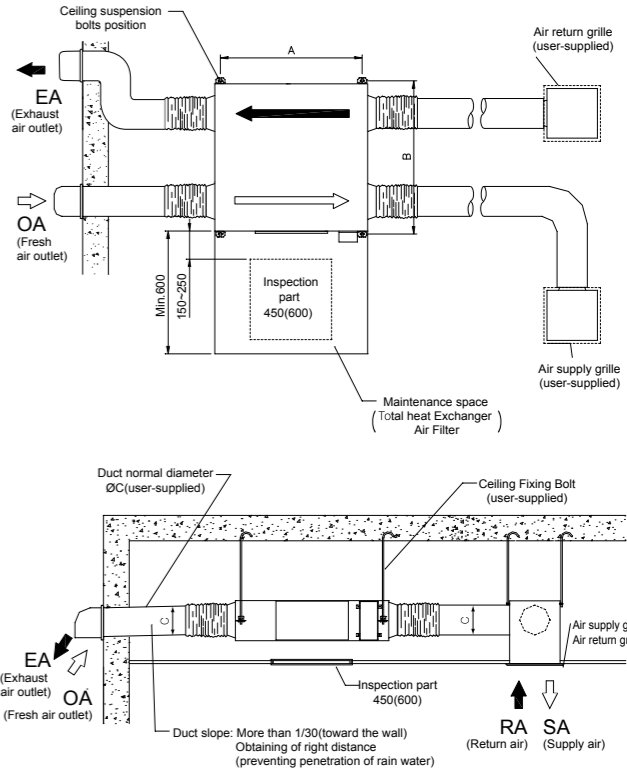
Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.

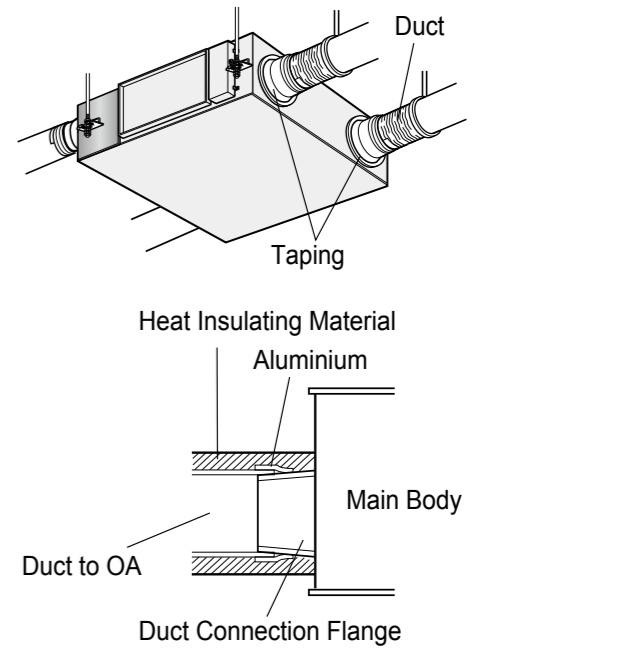


Installation Scene

LZ-H025GBA4 / LZ-H035GBA5 / LZ-050GBA5



Connection of Duct



ERV

LZ-H025GBA4 / LZ-H035GBA5
LZ-H050GBA5



| Model | | Unit | LZ-H025GBA4 | LZ-H035GBA5 | LZ-H050GBA5 |
|---------------------------|---------------------------------|------------------------|---------------------------|--------------------|--------------------|
| Dimensions (W x H x D) | Body | mm | 988 x 273 x 1,014 | | |
| | Weight | kg | 44 | | |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | | |
| Normal Air flow | | m³/h | 250 | 350 | 500 |
| ERV Mode | Operating Step | | Super-high / High / Low | | |
| | Current | SH / H / L A | 0.70 / 0.60 / 0.42 | 1.05 / 0.90 / 0.50 | 1.65 / 1.56 / 0.80 |
| | Power Input | SH / H / L W | 97 / 87 / 52 | 150 / 125 / 60 | 247 / 230 / 95 |
| | Air Flow | SH / H / L m³/h | 250 / 250 / 150 | 350 / 350 / 210 | 500 / 500 / 320 |
| | External Static Pressure | SH / H / L Pa | 100 / 70 / 50 | 150 / 100 / 50 | 150 / 100 / 50 |
| | Temperature Exchange Efficiency | SH / H / L % | 80 / 80 / 83 | 80 / 80 / 82 | 79 / 79 / 82 |
| | Enthalpy Exchange Efficiency | Heating (SH / H / L) % | 70 / 70 / 72 | 75 / 75 / 80 | 75 / 75 / 78 |
| | | Cooling (SH / H / L) % | 66 / 66 / 68 | 71 / 71 / 75 | 68 / 68 / 75 |
| | Energy Label | A+ to G Scale | A | B | B |
| | Sound Pressure Level | SH / H / L dB(A) | 29 / 28/ 24 | 35 / 32 / 26 | 37 / 36 / 28 |
| | Sound Power Level | SH / H / L dB(A) | 50 | 53 / 50 / 42 | 57 / 56 / 46 |
| | Operating Step | | Super-high / High / Low | | |
| Bypass Mode | 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 |
| | Operating Step | | Super-high / High / Low | | |
| Duct Work | Qty | EA | 4 | | |
| | Size (Φ) | mm | Φ200 | | |
| Supply Air Fan | Qty | EA | 1 | | |
| | Type | | Direct-Drive Sirocco | | |
| Exhaust Air Fan | Qty | EA | 1 | | |
| | Type | | Direct-Drive Sirocco | | |
| Filters | Qty | EA | 2 | | |
| | Type | | Cleanable fibrous fleeces | | |
| | Size (W x H x D) | mm | 855 x 10 x 166 | | |

Note : 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.

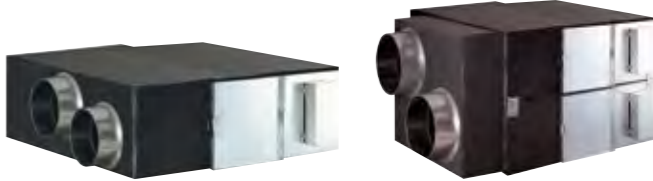
Accessories

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

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

ERV

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



| Model | | Unit | LZ-H080GBA5 | LZ-H100GBA5 | LZ-H150GBA5 | LZ-H200GBA5 |
|---------------------------|---------------------------------|------------------------|---------------------------|---------------------|---------------------------|-----------------------|
| Dimensions (W x H x D) | Body | mm | 1,101 x 405 x 1,230 | | 1,353 x 815 x 1,230 | |
| | Weight | kg | 63 | | 130 | |
| Power Supply | | Ø, V, Hz | 1, 220-240, 50 | | 1, 220-240, 50 | |
| Normal Air flow | | m³/h | 800 | 1,000 | 1,500 | 2,000 |
| ERV Mode | Operating Step | | Super-high / High / Low | | Super-high / High / Low | |
| | Current | SH / H / L A | 2.13 / 1.75 / 1.00 | 2.92 / 2.38 / 1.40 | 4.26 / 3.50 / 2.00 | 5.92 / 4.76 / 2.80 |
| | Power Input | SH / H / L W | 328 / 266 / 144 | 463 / 370 / 208 | 660 / 530 / 290 | 926 / 740 / 420 |
| | Air Flow | SH / H / L m³/h | 800 / 800/ 660 | 1,000 / 1,000 / 800 | 1,500 / 1,500 / 1,200 | 2,000 / 2,000 / 1,600 |
| | External Static Pressure | SH / H / L Pa | 160 / 100 / 50 | 160 / 100 / 50 | 160 / 100 / 50 | 160 / 100 / 50 |
| | Temperature Exchange Efficiency | SH / H / L % | 82 / 82 / 83 | 80 / 80 / 81 | 82 / 82 / 83 | 80 / 80 / 81 |
| | Enthalpy Exchange Efficiency | Heating (SH / H / L) % | 73 / 73 / 76 | 71 / 71/ 73 | 73 / 73 / 76 | 71 / 71/ 73 |
| | | Cooling (SH / H / L) % | 66 / 66 / 70 | 64 / 64 / 67 | 66 / 66 / 70 | 64 / 64 / 67 |
| | Sound Pressure Level | SH / H / L dB(A) | 40 / 36 / 32 | 40 / 37 / 33 | 43 / 39 / 35 | 43 / 40 / 36 |
| | Sound Power Level | SH / H / L dB(A) | 56 / 53 / 47 | 59 / 56 / 52 | 59 / 56 / 50 | 62 / 59 / 55 |
| | 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 |
| Bypass Mode | 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 |
| | 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 |
| Duct Work | Qty | EA | 4 | | 4 + 2 | |
| | Size (Φ) | mm | Φ250 | | Φ250 + Φ350 | |
| 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

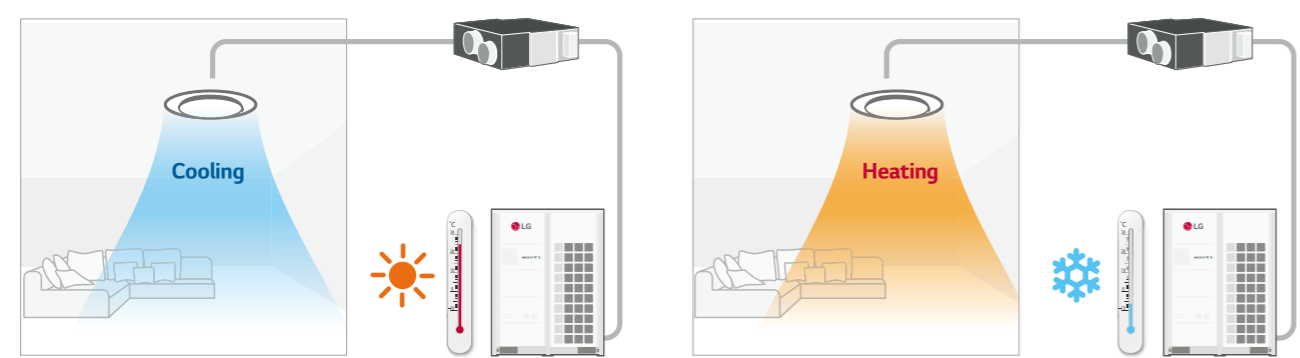
| Chassis | LZ-H080GBA5 | LZ-H100GBA5 | LZ-H150GBA5 | LZ-H200GBA5 |
|---|-------------|-------------|---|-------------|
| Drain Pump | | | - | |
| Cassette Cover | | | - | |
| Refrigerant Leakage Detector | | | - | |
| EEV Kit | | | - | |
| Independent Power Module | | | - | |
| Robot Cleaner | | | -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

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

ERV WITH DX COIL

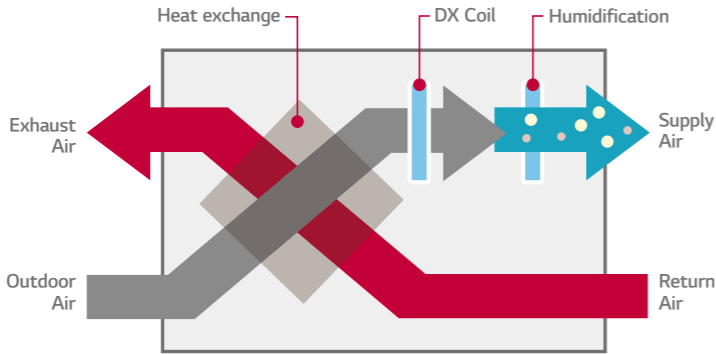
Providing Cool & Warm Fresh Air

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



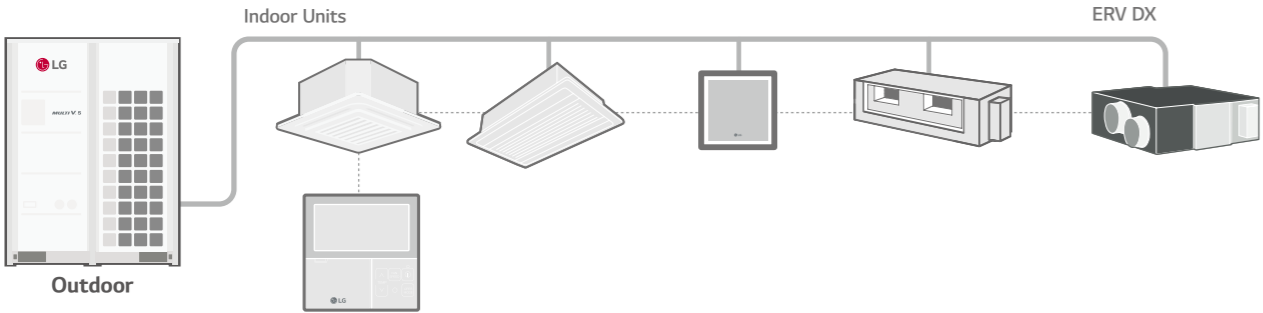
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



ERV WITH DX COIL

LZ-H050GXH4 / LZ-H080GXH4

LZ-H100GXH4 / LZ-H050GXN4

LZ-H080GXN4 / LZ-H100GXN4



| Model | | | LZ-H050GXH4 | LZ-H080GXH4 | LZ-H100GXH4 | LZ-H050GXN4 | LZ-H080GXN4 | LZ-H100GXN4 |
|---------------------------------|---------------------------------------|-------|--|-----------------|---------------------|--|-----------------|---------------------|
| Fresh Air | Cooling | kW | 4.93 | 7.46 | 9.12 | 4.93 | 7.46 | 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 |
| | Cooling (SH / H / L) | % | 61 / 61 / 63 | 50 / 50 / 53 | 45 / 45 / 50 | 61 / 61 / 63 | 50 / 50 / 53 | 45 / 45 / 50 |
| Enthalpy Exchange Efficiency | Heating (SH / H / L) | % | 76 / 76 / 77 | 67 / 67 / 69 | 64 / 64 / 66 | 76 / 76 / 77 | 67 / 67 / 69 | 64 / 64 / 66 |
| | 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 | | | Ø, V, Hz | | | | | |
| Power Input (Nominal) | | | Heat Exchange Mode (SH / H / L) kW | | | | | |
| Nominal Running Current (RLA) | | | Heat Exchange Mode (SH / H / L) A | | | | | |
| 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 | | |
| Net Weight | | | kg | | | 105 | | |
| Piping Connection | | | Liquid | | | Ø6.35 | | |
| | | | Gas | | | Ø12.7 | | |
| | | | Water | | | Ø6.35 | | |
| | | | Drain Pipe (Internal Dia.) | | | Ø25 (1) | | |
| Connection Duct Diameter | | | mm | | | Ø250 | | |

Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2. Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3. Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
4. Cooling and heating capacities are based on the following conditions. : Fan is based on High and Super-high.
5. The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber.
6. The specifications, designs and information here are subject to change without notice.

Accessories

| Chassis | LZ-H050GXH4 | LZ-H080GXH4 | LZ-H100GXH4 | LZ-H050GXN4 | LZ-H080GXN4 | LZ-H100GXN4 |
|---|-------------|-------------|-------------|-----------------------------|-------------|-------------|
| Drain Pump | - | - | - | - | - | - |
| Cassette Cover | - | - | - | - | - | - |
| Refrigerant Leakage Detector | - | - | - | PRLDNVS0 | - | - |
| EEV Kit | - | - | - | - | - | - |
| Independent Power Module | - | - | - | - | - | - |
| Robot Cleaner | - | - | - | - | - | - |
| Pre Filter (washable) | - | - | - | - | - | - |
| Ion Generator | - | - | - | - | - | - |
| CO ₂ Sensor | - | - | - | AHCS100H0 | - | - |
| Ventilation Kit | - | - | - | - | - | - |
| IR Receiver | - | - | - | - | - | - |
| Zone Controller | - | - | - | - | - | - |
| Dry Contact (with additional accessory) | - | - | - | PDRYCB000 (1 point contact) | - | - |
| External Input (1 point) | - | - | - | PDRYCB500 (Modbus) | - | - |
| Wi-Fi | - | - | - | ○ | - | - |

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

CONTROL SOLUTIONS

INDIVIDUAL CONTROL / CENTRALIZED CONTROL
INTEGRATION DEVICE



LG CONTROL SOLUTIONS





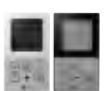


MULTI V 5 offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These control systems are equipped with user-friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling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



INDIVIDUAL
CONTROL



FEATURE FUNCTIONS

| Controller Name | Wired Remote Controller | | | | | Wireless Remote Controller | Wi-Fi Controller |
|-----------------|---|---|---|---|---|---|---|
| | Premium | Standard III | Standard II | Simple | Simple(Hotel) | | |
| Model Name |  |  |  |  |  |  |  |
| | PREMTA000 PREMTA000A PREMTA000B | PREMTB100 PREMTBB10 | PREMTB001 PREMTBB01 | PQRCVCL0Q PQRCVCL0QW | PQRCHCA0Q PQRCHCA0QW | NEW PWLSSB21H (H/P) | PWFMDD200 |
| Basic | On / Off | ○ | ○ | ○ | ○ | ○ | ○ |
| | Fan Speed Control | ○ | ○ | ○ | ○ | ○ | ○ |
| | Temperature Setting | ○ | ○ | ○ | ○ | ○ | ○ |
| | Mode Change | ○ | ○ | ○ | ○ | ○ | ○ |
| | Auto Swing | ○ | ○ | ○ | ○ | ○ | |
| | Vane Control (Louver Angle) | ○ | ○ | ○ | ○ | ○ | ○ |
| | E.S.P (External Static Pressure) | ○ | ○ | ○ | ○ | - | - |
| | Electric Failure Compensation | ○ | ○ | ○ | ○ | - | ○ |
| | Indoor Temperature Display | ○ | ○ | ○ | ○ | ○ | |
| | ALL Button Lock (Child Lock) | ○ | ○ | ○ | ○ | - | - |
| Advanced | Schedule / Timer | Weekly-Yearly | Weekly-Yearly | Weekly | - | Sleep / On / Off | Weekly |
| | Additional Mode Setting ¹⁾ | ○ | ○ | ○ | - | - | - |
| | Time Display | ○ | ○ | ○ | - | ○ | - |
| | Humid. Display | ○ | ○ | - | - | - | - |
| | Advanced Lock (mode, set point, set point range, On / Off Lock) | Advanced Lock | Advanced Lock | - | - | - | - |
| | Filter Sign | ○ | ○ | ○ | - | - | - |
| | Energy Management ²⁾ | ○ | ○ | ○ | - | - | - |
| | Dual Set Point | ○ | ○ | - | - | - | - |
| | Human Detection | - | ○ | - | - | - | - |
| | Temp, Humidity Compensation | ○ | ○ | - | - | - | - |
| ETC | Wi-Fi AP Mode Setting | ○ | ○ | ○ | ○ | ○ | - |
| | Operation Status LED | ○ | ○ | ○ | ○ | - | - |
| | Wireless Remote Controller Receiver | ○ ³⁾ | - | ○ ³⁾ | ○ ³⁾ | - | - |
| | Display | 5 inch Color | 4.3 inch Color | 4.3 inch mono | 2.6 inch mono | 2.6 inch mono | 2 inch mono |
| | Size (W x H x D, mm) | 137 x 121 x 16.5 | 120 x 120 x 16 | 120 x 120 x 16 | 64 x 120 x 15 | 64 x 120 x 15 | 51 x 153 x 26 |
| | Black Light Control for Screen Saver | ○ | ○ | - | - | - | - |

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Centralized control (PACEZA000 / PACSSA000 / PACPSA000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
3) For ceiling type duct
Note : 1. Indoor unit should have functions requested by the controller
2. If you need more detail, please refer to the manual of product. (<http://partner.lge.com: Home> Doc.Library> Manual>)

STANDARD III WIRED REMOTE CONTROLLER

4.3 inch colored screen with modern design



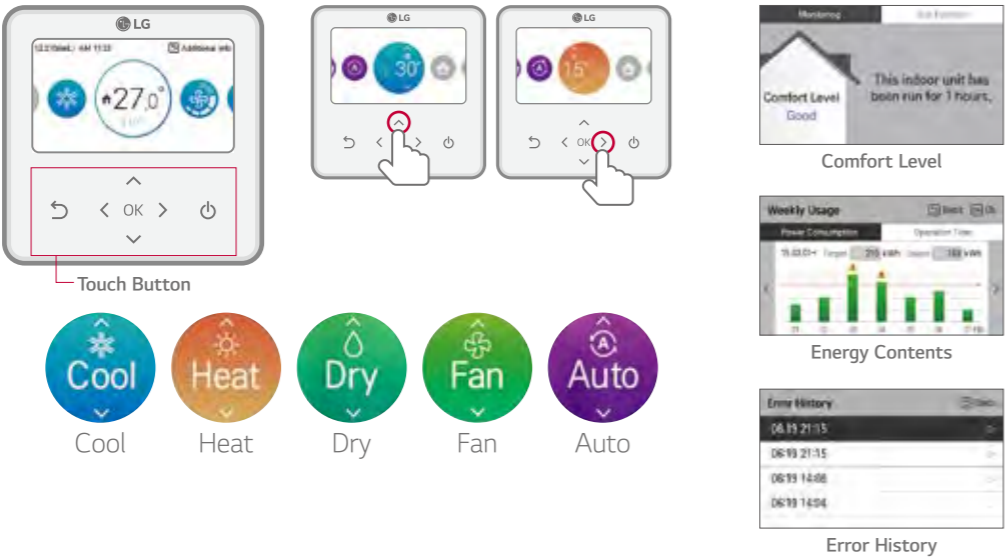
PREMTB100 (White) PREMTBB10 (Black)

Features & Benefits

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

| Model Name | PREMTB100 / PREMTBB10 |
|--|--|
| On / Off | <input type="radio"/> |
| Fan Speed Control | <input type="radio"/> |
| Temperature Setting | <input type="radio"/> |
| Mode Change | Cooling / Heating / Auto / Dehumidification / Fan |
| Additional Mode Setting ¹⁾ | Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling |
| Auto Swing | <input type="radio"/> |
| Vane Control (Lower direction) | <input type="radio"/> |
| E.S.P (External Static Pressure) ²⁾ | <input type="radio"/> |
| Reservation | Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday |
| Time Display | <input type="radio"/> |
| Electric Failure Compensation | <input type="radio"/> |
| Lock | All / On & Off / Mode / Set temperature range |
| Filter Sign | <input type="radio"/> (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 | <input type="radio"/> |
| Indoor Temperature Display | <input type="radio"/> |
| Indoor Humidity Display | <input type="radio"/> |
| Human Detection | <input type="radio"/> |
| 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 | <input type="radio"/> |
| Home Leave | 2 set points control |

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) This function is available for duct type
3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
Note : 1. Indoor unit needs to have functions requested by the controller
2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly

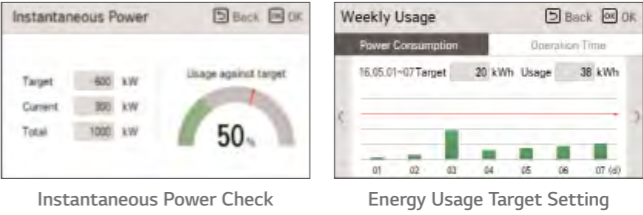


Energy Savings

Energy Management

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

* PDI (PQNUD1S40 / PPWRDB000) is required.



Time Limit Control

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



2 Set Points Control

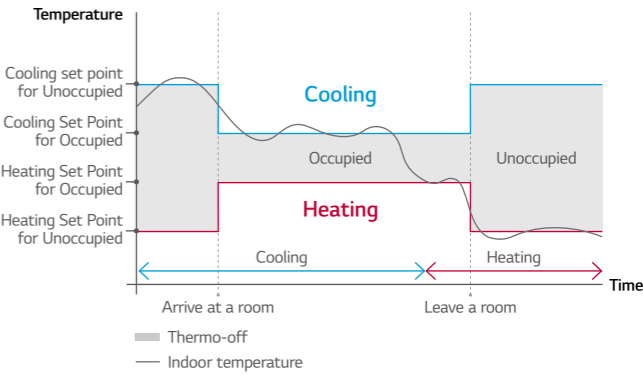
Auto Changeover for convenience

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

Setback for energy savings and comfort

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

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



External Device On / Off



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



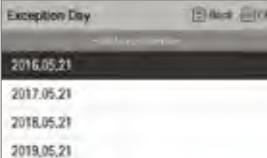
Customized Interlocking Control
User can create a control scenario where the external heater switches on when temperature drops below or rises above a certain temperature.

Schedule Function



Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day settings

Possible to set up exceptional date on regular schedule.

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design.



PREMTA000 ¹⁾ / PREMTA000A ²⁾ / PREMTA000B ³⁾

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

Features & Benefits

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



Full Touch Screen

Easy Energy Management

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

Easy Scheduling

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

2 Set points Control

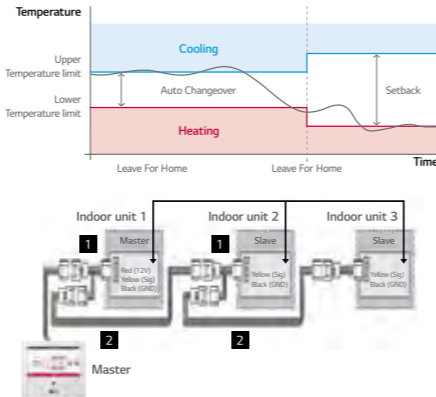
- Auto changeover switching the operation mode automatically
 - Setback (Home Leave) Changing status by occupied / unoccupied
- * This function is only for Heat Recovery system and Single heat pump.

Group Control

- 1. Max. 16 Indoor units by one remote controller.

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

※ ○ : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) This function is available for duct type
3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
4) For ceiling type ducted unit
Note : 1. Indoor unit needs to have functions requested by the controller
2. 2 set points control works normally with MULT V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly



STANDARD II WIRED REMOTE CONTROLLER

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



PREMTB001 (White) PREMTBB01 (Black)

Features & Benefits

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

| Model Name | PREMTB001 / PREMTBB01 |
|-------------------------------------|--|
| On / Off | ○ |
| Fan Speed Control | ○ |
| Temperature Setting | ○ |
| Mode Change | Cooling / Heating / Auto / Dehumidification / Fan |
| Additional Mode Setting | Energy-Saving Cooling / Robot Cleaning / Heater / Humidification |
| Auto Swing | ○ |
| Vane Control (Louver direction) | ○ |
| E.S.P (External Static Pressure) | ○ |
| Reservation | Simple / Sleep / On / Off / Weekly / Holiday |
| Time Display | ○ |
| Electric Failure Compensation | ○ |
| Child Lock | ○ |
| Filter Sign | ○ (Remain time + Alarm) |
| Operation Status LED | ○ |
| Indoor Temperature Display | ○ |
| Wireless Remote Controller Receiver | ○ ¹⁾ |
| Size (W x H x D, mm) | 120 x 120 x 16 |
| Blacklight | ○ |
| Power Consumption Monitoring | ○ ²⁾ |
| Check Model Information | ○ |

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

SIMPLE WIRED REMOTE CONTROLLER

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



PQRCVCLOQW (White) / PQRCVCLOQ (Black) PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Features & Benefits

- Small remote control with minimal functionality

| Model Name | PQRCVCLOQW / PQRCVCLOQ | PQRCHCA0QW / PQRCHCA0Q |
|-------------------------------------|---|------------------------|
| On / Off | ○ | ○ |
| Fan Speed Control | ○ | ○ |
| Temperature Setting | ○ | ○ |
| Mode Change | Cooling / Heating / Auto / Dehumidification / Fan | - |
| Auto Swing | ○ | ○ |
| Vane Control (Louver direction) | ○ | ○ |
| E.S.P (External Static Pressure) | ○ | ○ |
| Electric Failure Compensation | ○ | ○ |
| Child Lock | ○ | ○ |
| Indoor Temperature Display | ○ | ○ |
| Wireless Remote Controller Receiver | ○ ¹⁾ | ○ ¹⁾ |
| Size (W x H x D, mm) | 70 x 121 x 16 | 70 x 121 x 16 |
| Blacklight | ○ | ○ |

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

WIRELESS REMOTE CONTROLLER



NEW
PWLSSB21H (H/P)

Features & Benefits

- Easy to use while moving • Main functions are available

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

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

LG Wi-Fi MODEM

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



PWFMD200

Features & Benefits

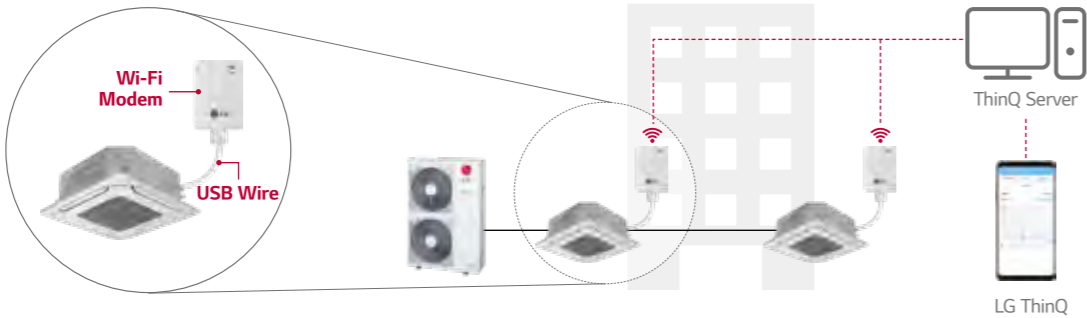
- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app(SmartThinQ) is available
- Simple operation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

| Model Name | PWFMD200 |
|--------------------------|---|
| Size (W x H x D, mm) | 48 x 68 x 14 |
| Interfaceable Products | MULTI V Indoor unit ³⁾ |
| Connection Type | Indoor unit 1:1 |
| Communication Frequency | 2.4 GHz |
| Wireless Standards | IEEE 802.11b/g/n |
| Mobile Application | LG SmartThinQ (Android v4.1(Jellybean) or higher; iPhone iOS 9.0 or higher) |
| Optional Extension Cable | PWYREW000 (10m extension) |

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

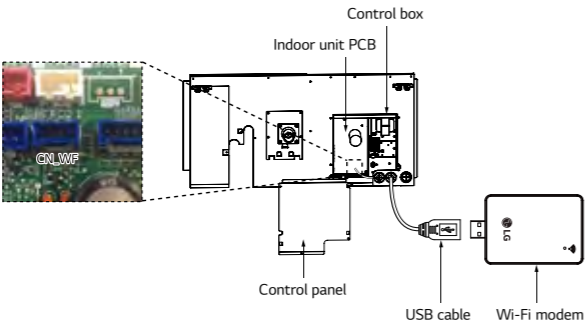


Overview



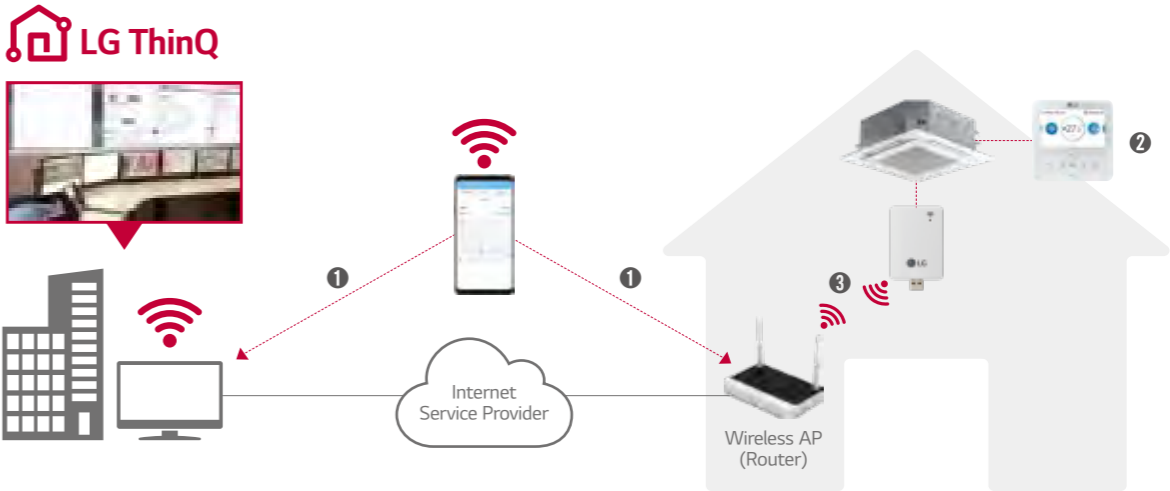
* Search "LG SmartThinQ" on Google market or Appstore then download the app.
* Internet service with Wi-Fi connection has to be available.

Installation Scene



* Each indoor unit has a Wifi modem installation location inside the product, and it can be installed by exposure if necessary.

LG ThinQ Connectivity



Connection (Pairing) Order

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

ThinQ Mobile App

Simple operation for various functions








Easy Management



CENTRALIZED CONTROL

CENTRALIZED CONTROLLER FEATURE LIST

| Controller Name | | | AC Ez | AC Ez Touch | AC Smart 5 ³⁾ | ACP 5 ³⁾ | ACP Lonworks | AC Manager 5 ³⁾ |
|---------------------|-----------------------------------|--|---|---|---|---|---|---|
| Model Name | | |  |  |  |  |  |  |
| | | | PQCSZ250S0 | PACEZA000 | PACSSA000 | PACP5A000 | PLNWK000 | PACM5A000 |
| Product | DO | | - | - | 2 | 4 | 2 | - |
| | DI | | - | 1 | 2 | 10 | 2 | - |
| | IDUs | | 32 | 64 | 128 | 256 | 64 | 8,192 |
| | ERV | | 32 | 64 | 128 | 256 | 64 | 8,192 |
| | Max. Connectable No. | | 32 | 64 | 128 | 256 | 64 | 8,192 |
| | A/C + ERV | | 32 | 64 | 128 | 256 | 64 | 8,192 |
| Compatibility | AHU | | - | - | 16 | 16 | 16 ⁴⁾ | 16x32 |
| | Chiller | | - | - | 5 Optional ²⁾ | 10 Optional ²⁾ | - | 10x32 |
| | Air Conditioner | | ○ ¹⁾ | ○ | ○ | ○ | ○ | ○ |
| | Ventilation (ERV / ERV DX) | | ○ ²⁾ | ○ | ○ | ○ | ○ | ○ |
| | Heating | | - | ○ | ○ | ○ | ○ | ○ |
| | AHU | | - | - | ○ | ○ | ○ | ○ |
| Additional Function | Chiller | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | - | ○ |
| | ACS IO | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Add Drawing | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Group Management | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Auto Changer Over | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Set Back | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| Schedule | 2 Set | | - | ○ | ○ | ○ | ○ ⁴⁾ | ○ |
| | Change Alarm | | - | Filter | Filter | Filter | Filter | Filter |
| | Indoor Unit Lock | | - | ○ | ○ | ○ | ○ ⁴⁾ | - |
| | Cycle | | - | - | ○ | ○ | ○ ⁴⁾ | ○ |
| | | | ○ | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ | ○ | ○ ⁴⁾ | ○ |
| Auto Control | Peak Control | | - | ○ | ○ | ○ | ○ ⁴⁾ | ○ |
| | Priority Control | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Outdoor Unit Capacity Control | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Time limit control | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | InterLocking | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | - | ○ |
| Energy Navigation | Power | | - | ○ | ○ | ○ | ○ ⁴⁾ | ○ |
| | Gas | | - | - | ○ | ○ | ○ ⁴⁾ | ○ |
| | Run time | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Email | | - | - | - | - | ○ ⁴⁾ | - |
| | PC / USB | | - | - | ○ ⁴⁾ | PC | PC | PC |
| | | | - | - | - | - | - | ○ |
| History | Report (Control / Error) | | - | Error | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Send Email | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Save to PC / USB ⁶⁾ | | - | - | - | - | ○ ⁴⁾ | - |
| | Summer Time | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | Outdoor Unit Oil-Return Operation | | - | - | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | - |
| | User Authority | | - | Password | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| etc | PC Access | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |
| | | | - | ○ | ○ ⁴⁾ | ○ ⁴⁾ | ○ ⁴⁾ | ○ |

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

AC EZ TOUCH

Smart management with 5 inch touch screen for small site.



PACEZA000

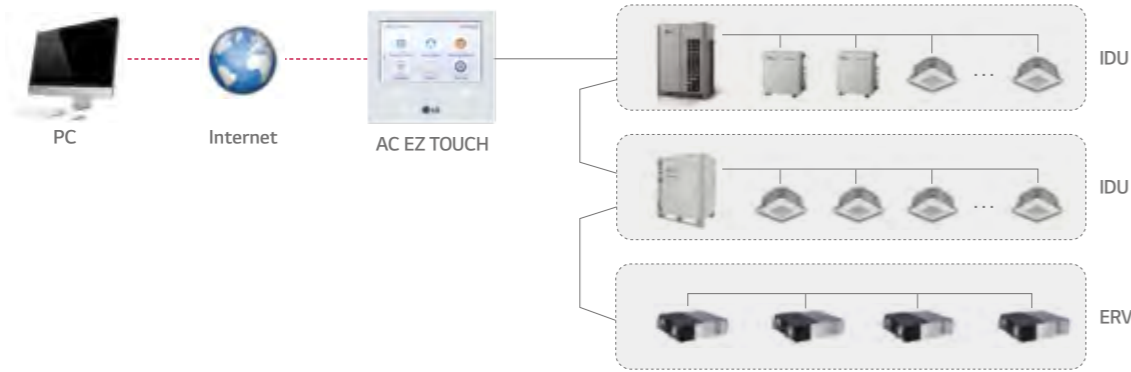
Features & Benefits

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

| Model Name | PACEZA000 |
|--|---|
| Size (W x H x D, mm) | 137 x 121 x 25 |
| Interfaceable Products | MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V |
| Maximum number of units | 64 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Error Check | ○ |
| Slave Mode (Interlocking with higher level controller) | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Remote Access | By client S/W |
| Emergency Stop & Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation History | Error record |
| ODU Low Noise ¹⁾ | ○ |
| Daylight Saving Time | ○ |
| External IO Port | DI 1 |
| IPv6 Support | ○ |

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

Overview



Feature

PC Access

Users can control each space efficiently through PC access.



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

Energy Statistics (with PDI)

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

| Energy | | |
|----------------------|------------|------------------|
| 2016.2.8 ~ 2016.3.19 | | |
| | Today | Week |
| | Month | |
| Name | Usage(kWh) | Accumulated(kWh) |
| Group1 | 110 | 3021 |
| Group2 | 150 | 6186 |
| Group3 | 130 | 4267 |
| Group4 | 120 | 7614 |

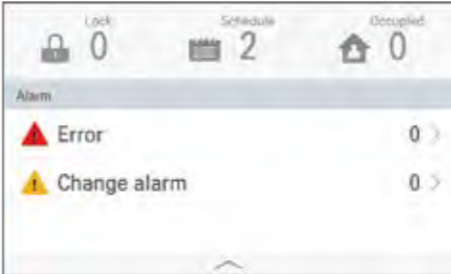
Energy Mode

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



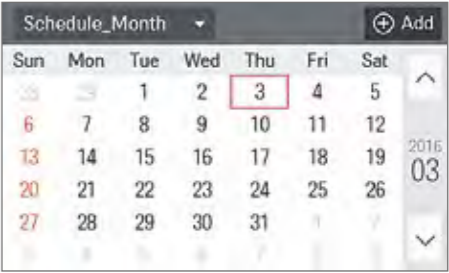
Alarm Indicator

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



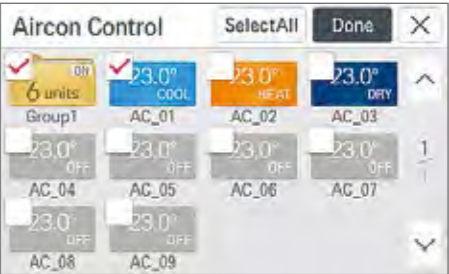
Schedule

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



Group / Individual Control

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



AC EZ

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



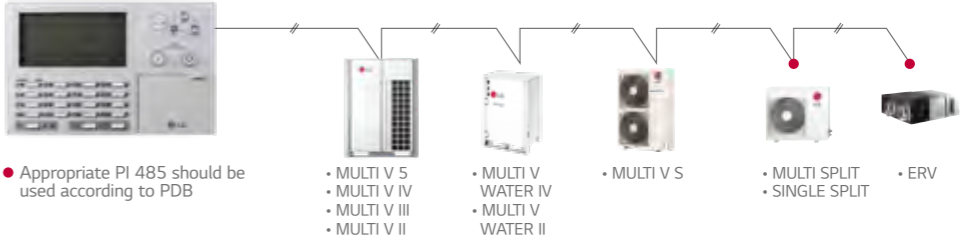
PQCSZ250S0

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

※ ○ : Applied, - : Not Applied

Features & Benefits

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



AC SMART 5

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



PACS5A000

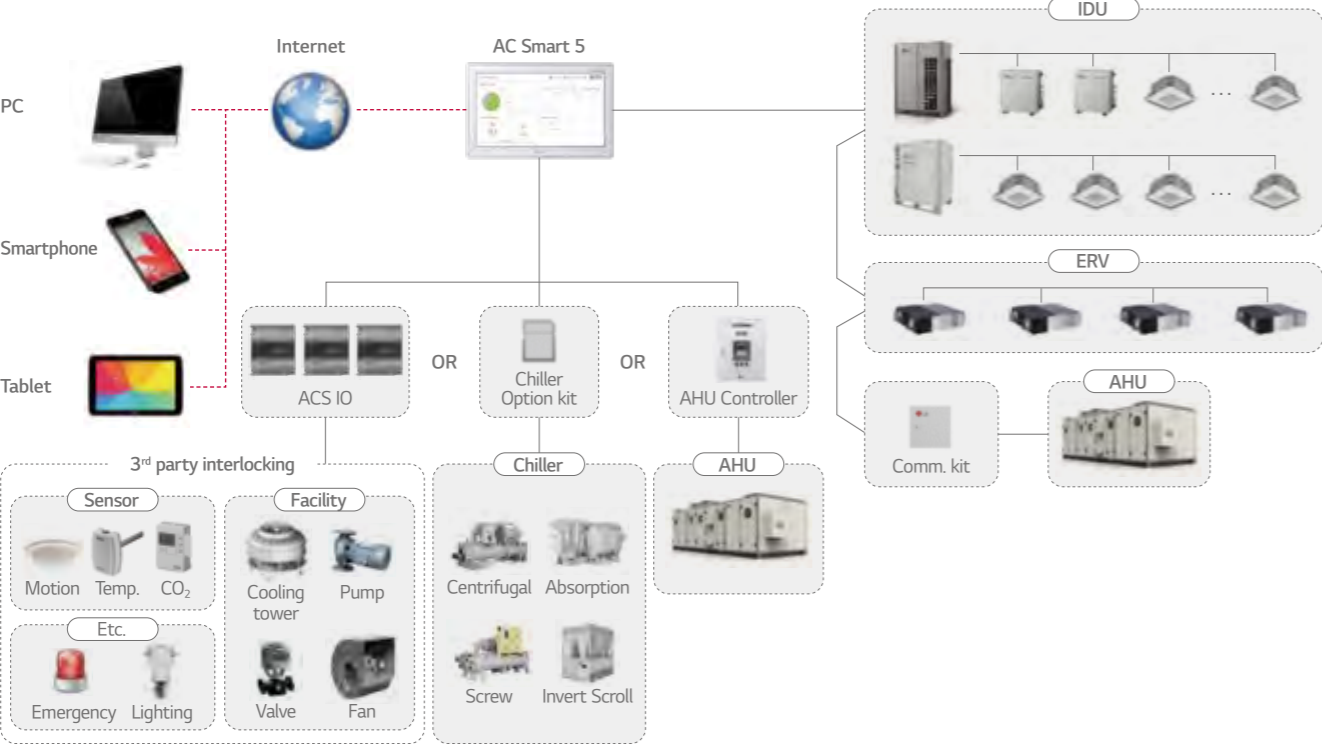
Features & Benefits

- The central controller allows control of the LG HVAC system to various platforms. (Touch screen, PC, Smartphone, Tablet)
- DI : 2 / DO : 2
- Max. 128 IDU control
- BACnet IP/Modbus TCP
- Schedule
- Map view (Visual navigation)
- Time limit control / Auto change over
- Energy monitoring
- History / Operation trend
- Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
- Multi level grouping
- Emergency stop & alarm
- Error alarm by e-mail

| Model Name | PACS5A000 |
|--|--|
| Size (W x H x D, mm) | 253.2 x 167.7 x 28.9 |
| Interfaceable Products | MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾ |
| Maximum number of units | 128 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Advanced Function Setting and Display ²⁾ | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check | ○ |
| Slave Mode (Interlocking with higher level controller) | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Web Access | ○ |
| Emergency Stop & Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation Time Limit | ○ |
| Visual Navigation | ○ |
| Operation Trend | ○ |
| Interlock Control | ○ |
| Virtual Group Control | ○ |
| ODU Capacity Control | ○ |
| Energy Navigation (with PDI) | ○ |
| Daylight Saving Time | ○ |
| External IO Port | DI 2 / DO 2 |
| BMS Integration ³⁾ | BACnet IP / Modbus TCP |
| IPv6 Support | ○ |

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLLN000) is required
2) It is only available in some products
3) For the detail point list, please refer to the installation manual

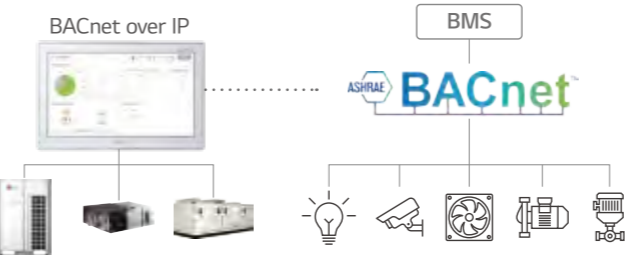
Overview



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

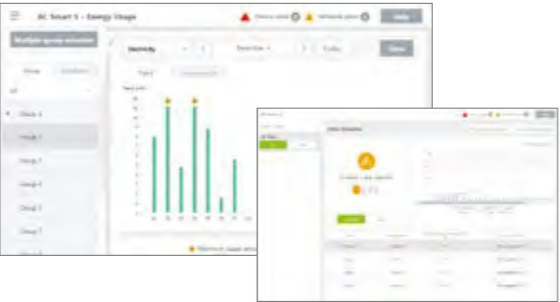
Building Management System (BMS) Integration

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



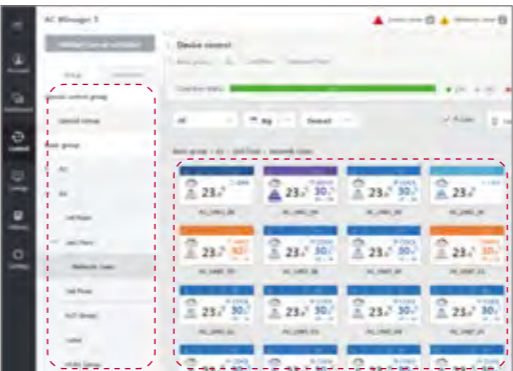
Energy Management

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



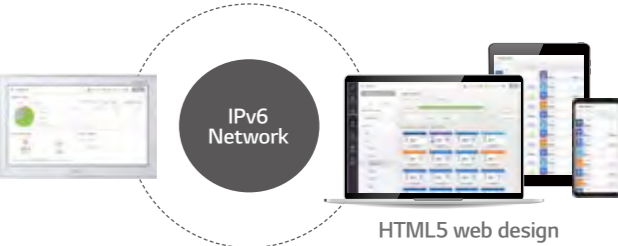
Multi Level Group Composition

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



Advanced Network Accessibility

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



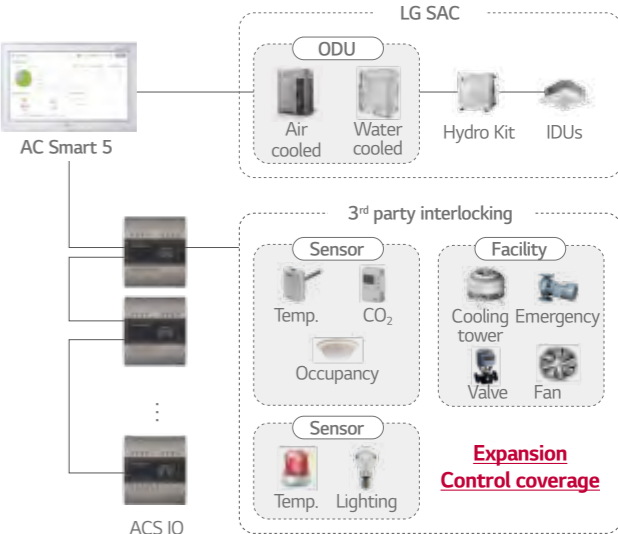
Visualized Control

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



Interlocking with 3rd party equipment

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



ACP 5

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



PACP5A000

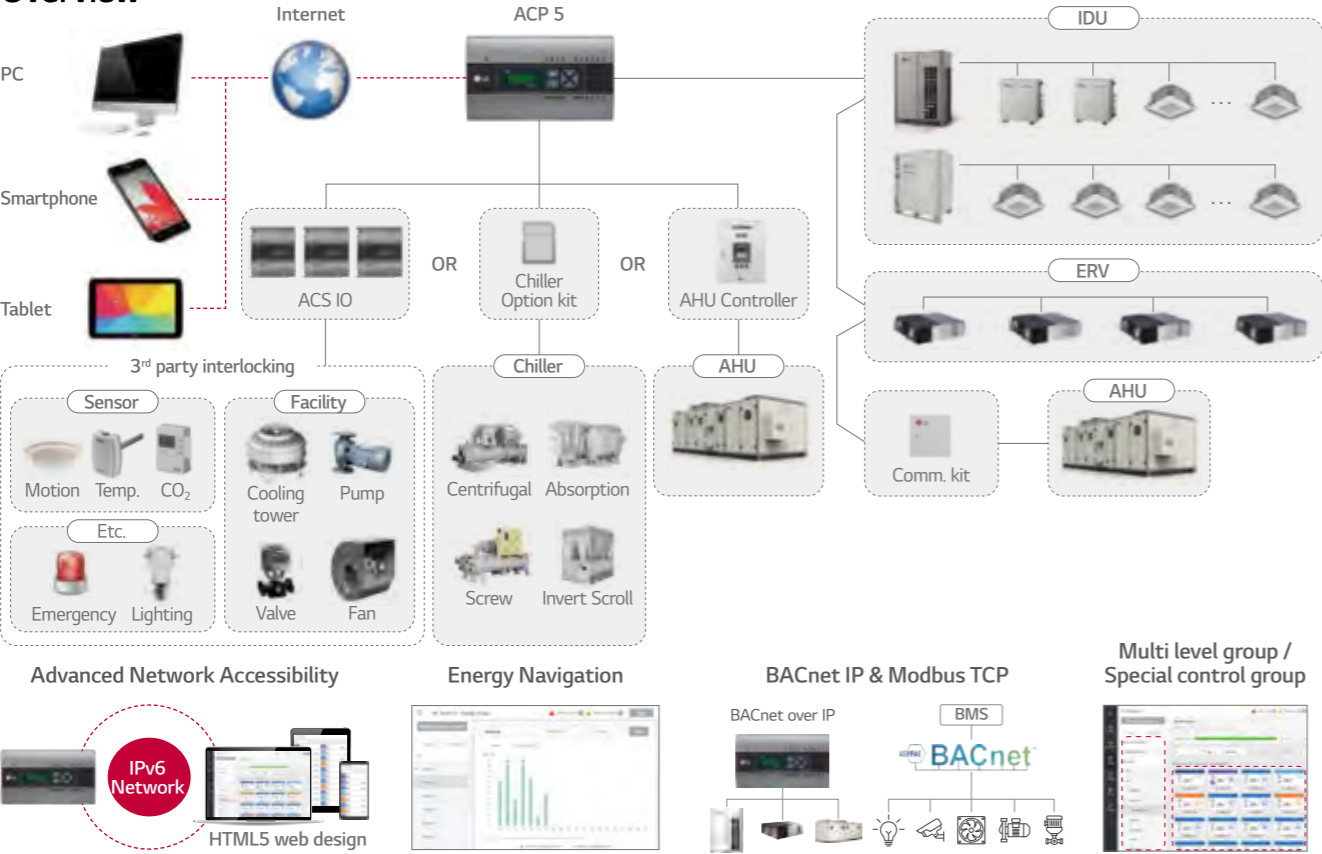
Features & Benefits

- The central controller allows control of the LG HVAC system by various platforms. (PC, Smartphone, Tablet)
 - DI :10 / DO : 4
 - Max. 256 IDU control
 - BACnet IP/Modbus TCP
 - Schedule
 - Map view (Visual navigation)
 - Time limit control / Auto change over
 - Energy monitoring
 - History / Operation trend
 - Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
 - Multi level grouping
 - Emergency stop & alarm
 - Error alarm by e-mail

| Model Name | PACP5A000 |
|---|--|
| Size (W x H x D, mm) | 270 x 155 x 65 |
| Interfaceable Products | MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾ |
| Maximum number of units | 256 |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Advanced Function Setting and Display ²⁾ | Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX) |
| Error Check | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Web Access | ○ |
| Emergency Stop & Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation Time Limit | ○ |
| Visual Navigation | ○ |
| Operation Trend | ○ |
| Interlock Control | ○ |
| Virtual Group Control | ○ |
| ODU Capacity Control | ○ |
| Energy Navigation (with PDI) | ○ |
| Daylight Saving Time | ○ |
| External IO Port | DI 10 / DO 4 |
| BMS Integration ³⁾ | BACnet IP / Modbus TCP |
| IPv6 Support | ○ |

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLLN000) is required
2) It is only available in some products
3) For the detail point list, please refer to the installation manual

Overview



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

ACP LONWORKS GATEWAY

LonWorks easily link LG air conditioners and other existing building systems. By including ACP control function, the controlling continues even when error occurs with BMS.



PLNWKB000

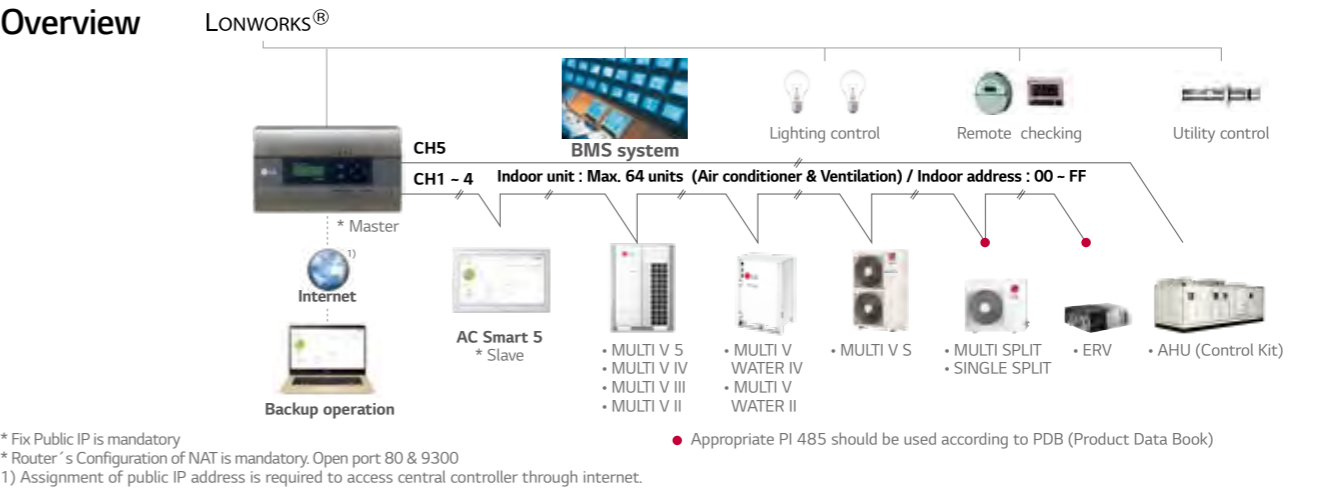
Features & Benefits

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

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

※ ○ : Applied, - : Not Applied

Overview



* Fix Public IP is mandatory
* Router 's Configuration of NAT is mandatory. Open port 80 & 9300
1) Assignment of public IP address is required to access central controller through internet.
● Appropriate PI 485 should be used according to PDB (Product Data Book)

PI 485

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



PHNFP14A0

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

AC MANAGER 5

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



PACM5A000

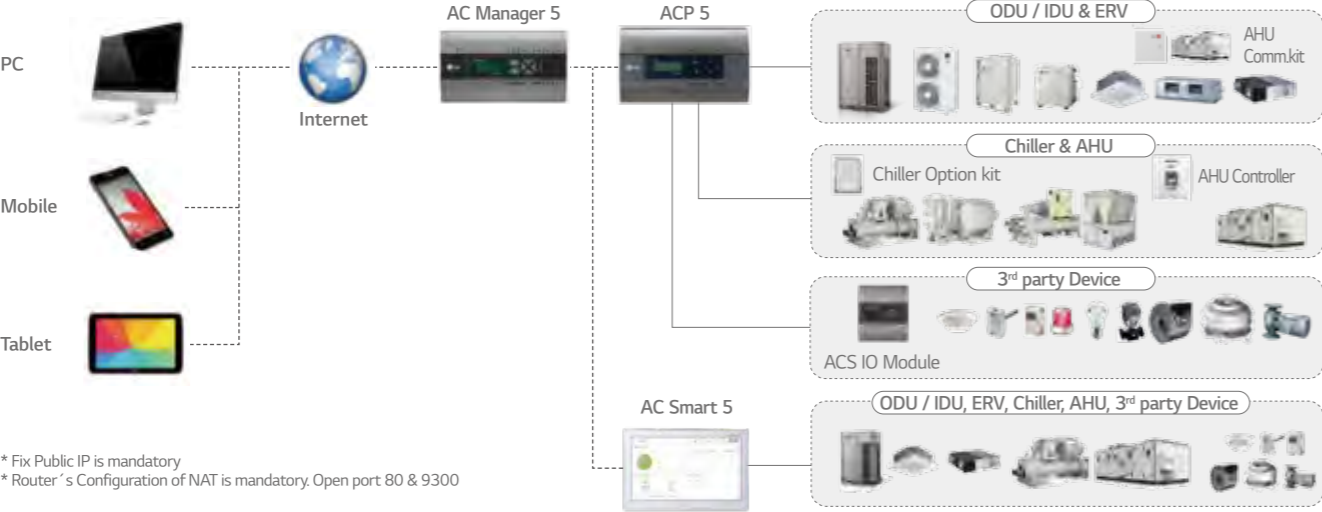
Features & Benefits

- Consol Type : No needs software installation and lock-key
- Max 8,192 IDU Control
- Schedule
- Map View (Visual Navigation)
- Time limit control / Auto change over
- Energy Monitoring / Navigation
- History / Operation Trend
- Emergency stop & alarm
- Error alarm by E-mail
- Multi Language
(Eng, Ita, Spa, Por, Rus, Fra, Ger, Tur, Pol, Chi, Kor)

| Model Name | PACM5A000 |
|---|--|
| Size (W x H x D, mm) | 270 x 155 x 65 |
| Interfaceable Products | MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾ |
| Maximum number of units | 8,192 (supports 32 ACP 5 or AC Smart 5) |
| Individual / Group Control | On & Off / Mode / Temperature / Fan speed |
| Individual Controller Lock | Temperature / Mode / Fan speed / All |
| Error Check | ○ |
| Schedule | Weekly / Monthly / Yearly / Exception day |
| Web Access | ○ |
| Emergency Alarm Display | ○ |
| Power Consumption Monitoring (with PDI) | ○ |
| Auto Changeover / Setback | ○ |
| Temperature Limit | ○ |
| Operation Time Limit | ○ |
| Visual Navigation | ○ |
| Operation Trend | ○ |
| Interlock Control | ○ |
| Virtual Group Control | ○ |
| ODU Capacity Control | ○ |
| Energy Navigation (with PDI) | ○ |

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

Overview



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



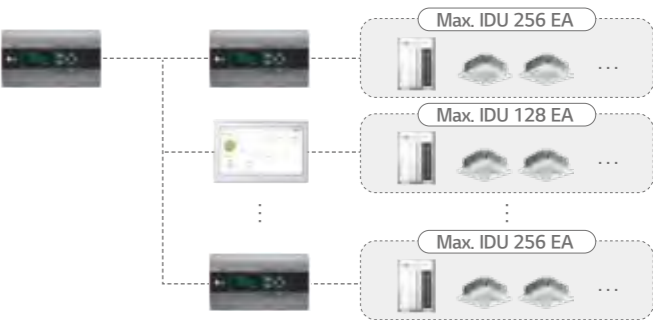
Stand-alone

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



Up to 8,192 Connections for Indoor Units

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



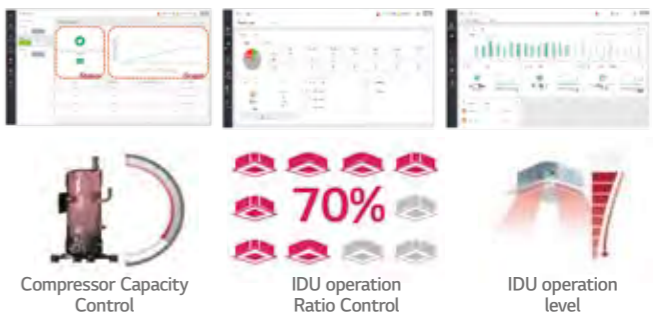
Advanced Network Accessibility & User Friendly GUI (reddot award)

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



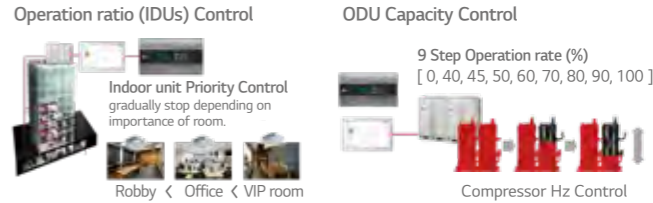
Energy Navigation & Energy Usage Trend

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



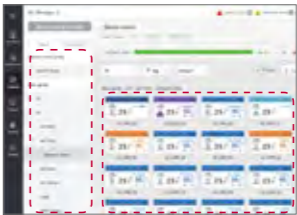
Peak Control

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



Multi Level Group Composition

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



MODBUS RTU GATEWAY

Providing Modbus RTU connection between LG Air conditioners and BMS.



PMBUSB00A

Features & Benefits

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

Modbus Gateway Memory Map

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

Coil Register (0 x 01)

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

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

Discrete Register (0 x 02)

| No. | Data Bit | | | Function | Register |
|-----|-----------------|----------------------------|------------------------------|--|--|
| | Air Conditioner | ERV / DX ERV | HydroKit & THERMA V | | |
| 1 | Connected IDU | Connected IDU | Connected IDU | 0 : Disconnected / 1 : Connected | Register = N X 16 + ① (N = Indoor Unit Central Address) |
| 2 | Alarm | Alarm | Alarm | 0: Normal / 1: Alarm | |
| 3 | Filter Alarm | Filter Alarm ¹⁾ | Hot Water Only ²⁾ | 0 : Normal / 1: Alarm Hydrokit – 0 : Normal / 1: Hot Water Only | |
| 4 | Reserved | Reserved | Target Temp Select | 0: Air / 1: Water | |
| 5 | Reserved | Reserved | Error Division ²⁾ | 0 : CH type error / 1: BC type error | |

* Note ¹⁾ : This register value is applied 'DX Ventilator' ONLY. * Note 2) : This register value is applied 'Hydrokit' ONLY.

MODBUS RTU GATEWAY

Holding Register (0 x 03)

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

* Note ¹⁾ : This register value is applied 'DX Ventilator' ONLY.
* Note ²⁾ : This value range can be between 0 ~ 127[°C]. And it would be limited by upper & lower value according to the setting of remote controller.

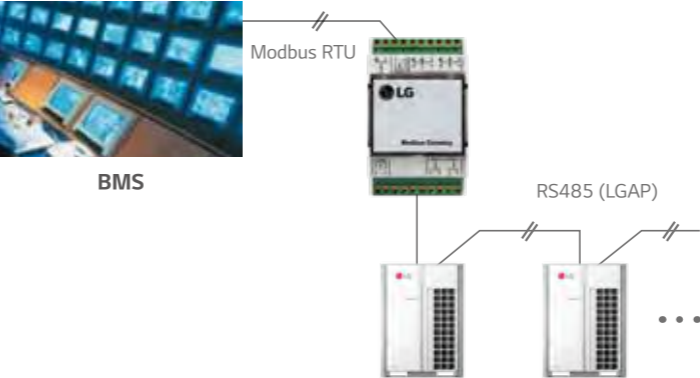
Input Register (0 x 04)

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

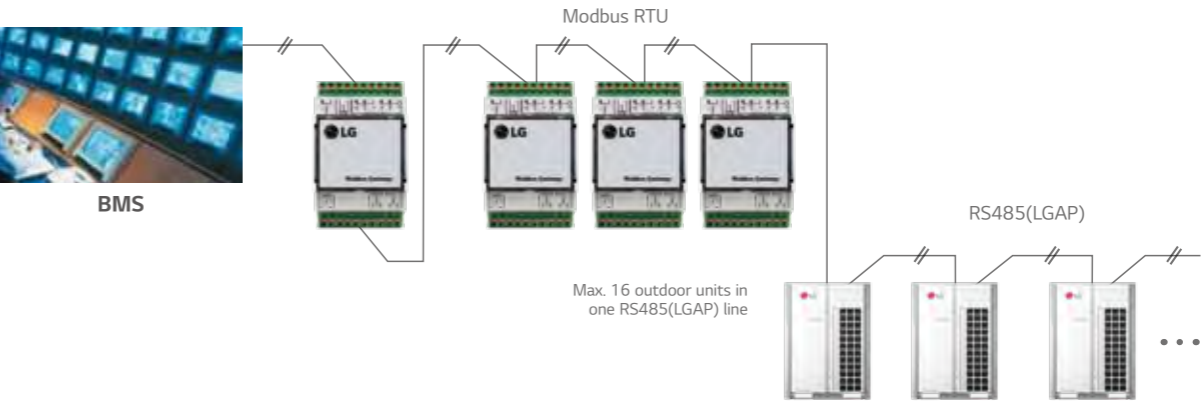
* Note ¹⁾ : This register value is applied 'DX Ventilator' ONLY.
* Note ²⁾ : This register value is applied 'AWHP' ONLY.

Installation Scene

- Single module
Max. 16 indoor units with a single module



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



INTEGRATION DEVICE

PDI (POWER DISTRIBUTION INDICATOR)

PDI shows distributed power consumption of up to 128 indoor units



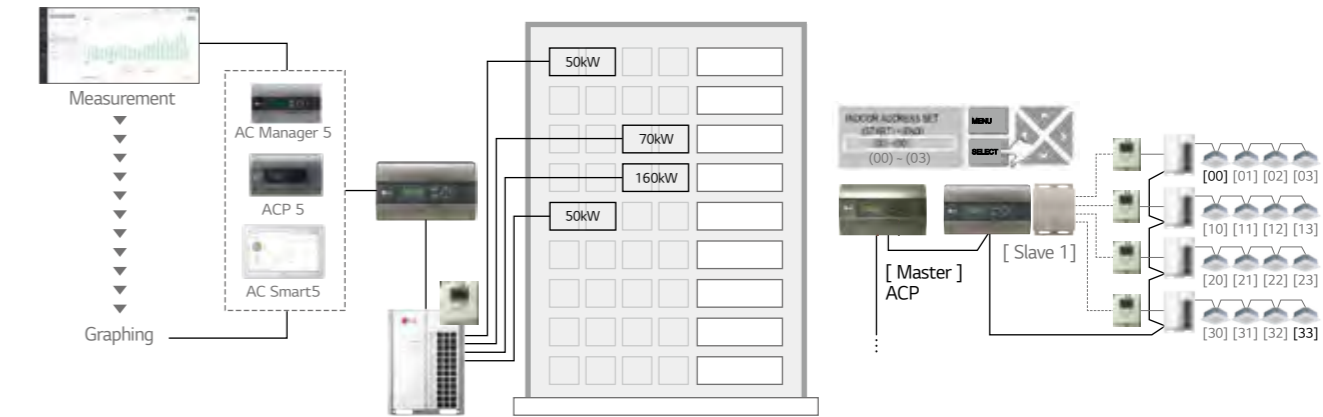
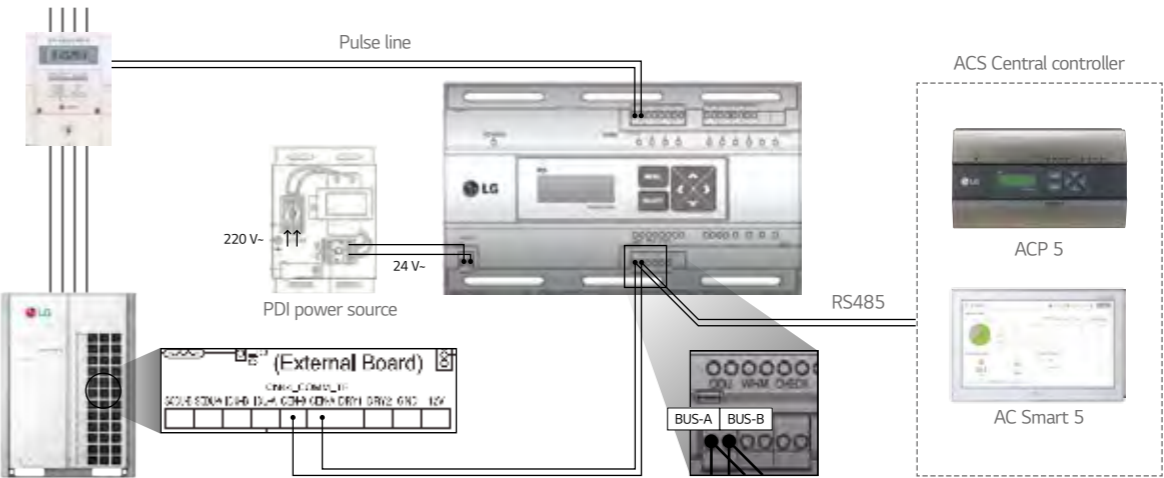
PQNUD1S40 (Premium, 8 port)
PPWRDB000 (Standard, 2 port)

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

※ ○ : Applied, - : Not Applied

Features & Benefits

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



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

ACS IO MODULE

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



PEXPMB000

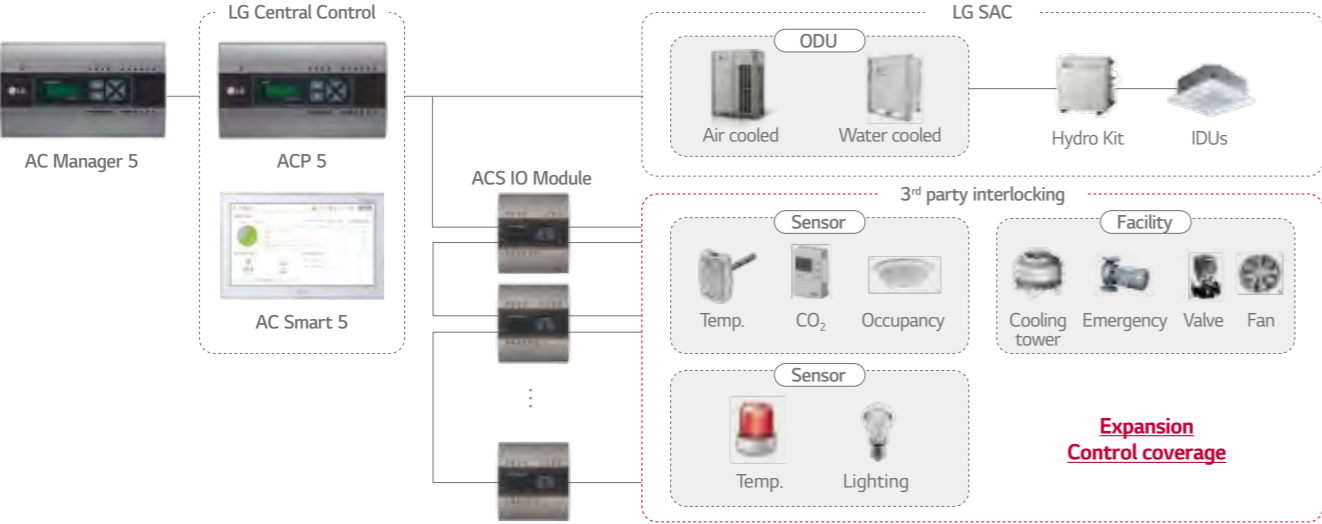
| Model Name | | PEXPMB000 | |
|-------------------|-------------------------------|-----------|-------------------|
| Linkable Products | | PACS4B000 | |
| | | PACP4B000 | |
| | | PACS5A000 | |
| | | PACP5A000 | |
| Communication | RS-485 | 1 ch. | |
| | Digital Input | 3 port | |
| I/O | Digital Output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

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

Features & Benefits

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

Key Application



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

ACU IO MODULE

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

ACU.UIO



PEXPMB300

ACU.UO



PEXPMB200

ACU.UI



PEXPMB100

| Module Name | PEXPMB300 | PEXPMB200 | PEXPMB100 |
|-------------------------------|----------------------------|-----------|-----------|
| Linkable Products | PACS5A000, PACP5A000 | | |
| Communication RS-485 | 2 ch. ¹⁾ | 1 ch. | 1 ch. |
| Digital Input | - | - | 3port |
| Digital Output | 2port | 6port | - |
| Universal Input ²⁾ | 4port | - | 6port |
| Analog Output | 2port | 4port | |
| Value Spec | | Min. | Max. |
| Analog Input | DC (Voltage) | 0V | 10V |
| Analog Output | DC (Voltage) | 0V | 10V |
| Digital Input | Binary Input (Non Voltage) | - | - |
| Digital Output | Normal Open | - | 30VDC, 1A |

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

Features & Benefits

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

CHILLER OPTION KIT

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



PCHLLN000

| Model Name | PCHLLN000 |
|------------------------|---|
| Monitoring Points | Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) / Condensor status / Generator status (Abs. chiller only) |
| On / Off | ○ |
| Target Temp. setting | ○ |
| Mode Change | Scroll chiller only |
| Schedule | ○ |
| Interfaceable Products | Scroll, Screw, Centrifugal, Absorption (LG Only) |

※ ○ : Applied, - : Not Applied

Cycle Display Example



Installation Scene






- Chiller Option Kit installation of LG HVAC Solution product should be conducted by a specialized installation service engineer.
- Chiller Option Kit installation can be achieved with a SD Card.
- The SD Card can install Chiller Option Kit in one LG HVAC Solution product.

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



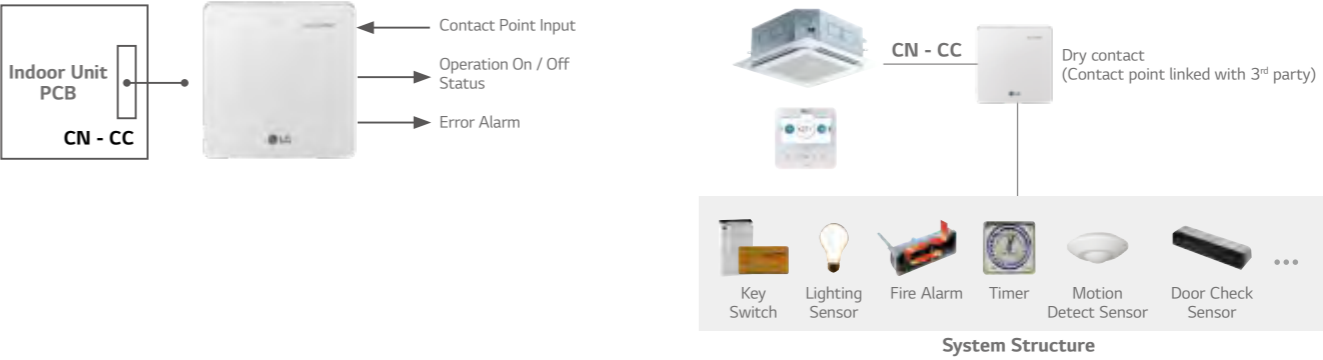
DRY CONTACT

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

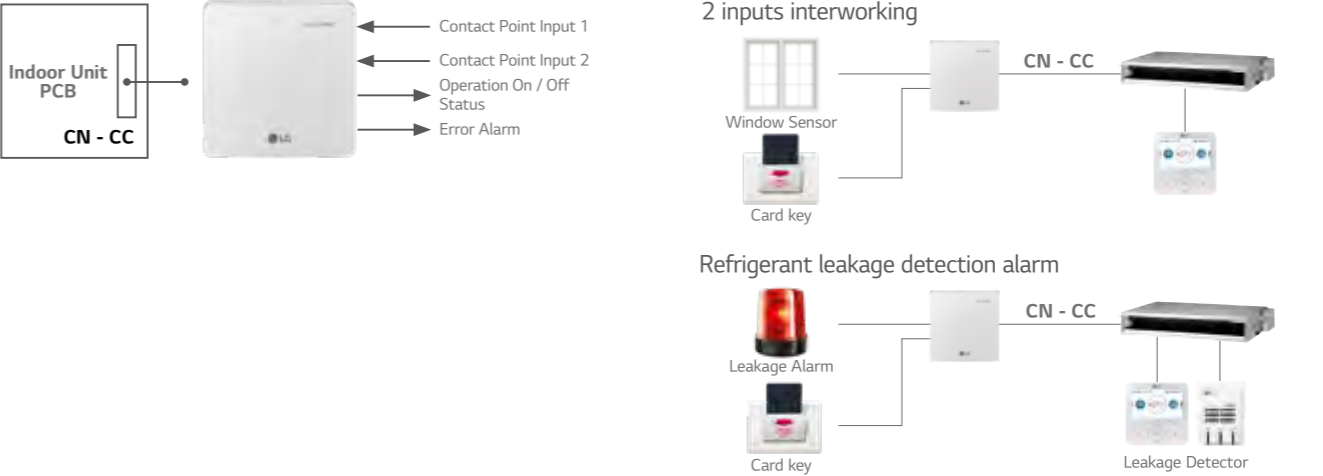
| Model Name | | PDRYCB000 | PDRYCB400 | PDRYCB300 | PDRYCB320* | PDRYCB500 |
|----------------------|------------------|---|---|---|---|---|
| | |  |  |  |  |  |
| Case | | ○ | ○ | ○ | ○ | ○ |
| Input Port | | 1 | 2 | 8 | 8 | - |
| Universal Input port | | - | - | - | 1 | - |
| Comm. Protocol | | -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

※ ○ : Applied, - : Not Applied
*Available from April 2020
Note : 1. Compatibility of PDRYCB300 / PDRYCB320
- Can use with all types of aircon indoor units after 2010 (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can not use with Single package models
- AWHP : 3 series split and monobloc models
2. Compatibility of PDRYCB400
- Can use with all types of aircon indoor units after 2010 (Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can not use with single package models
- Can not use with AWHP, Hydrokit models
3. (Select & Fix) : This function is preset by rotary switch.

PDRYCB000



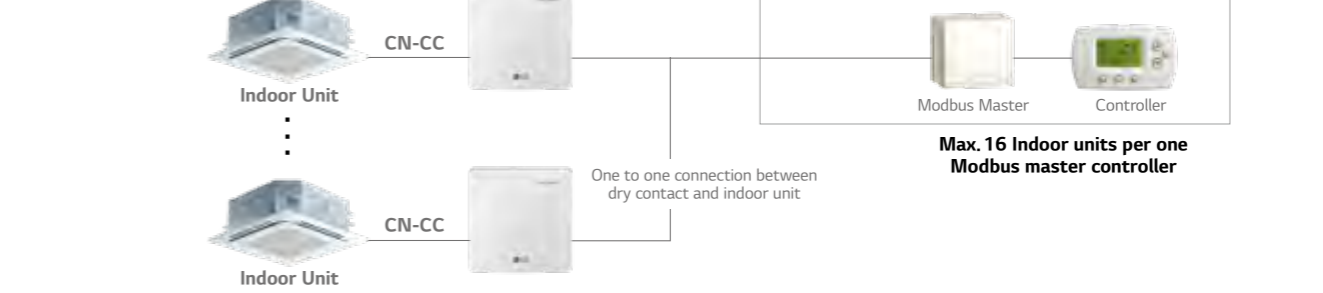
PDRYCB400



PDRYCB300 / PDRYCB320



PDRYCB500



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

GROUP CONTROL WIRE

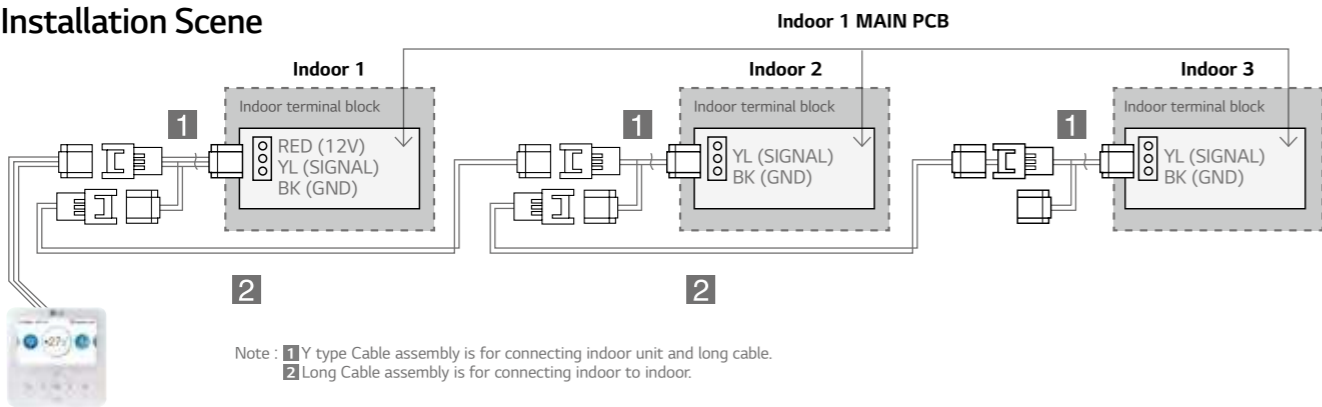
Cables used to connect a wired remote controller up to 16 indoor units.



PZCWRCG3

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

Installation Scene



REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature.



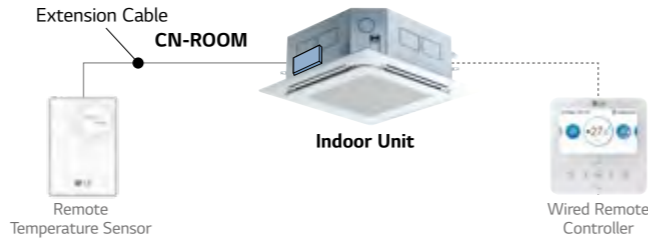
PQRSTA0

Features & Benefits

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

Installation Scene

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



LOW PROFILE REMOTE TEMPERATURE BUTTON SENSOR

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



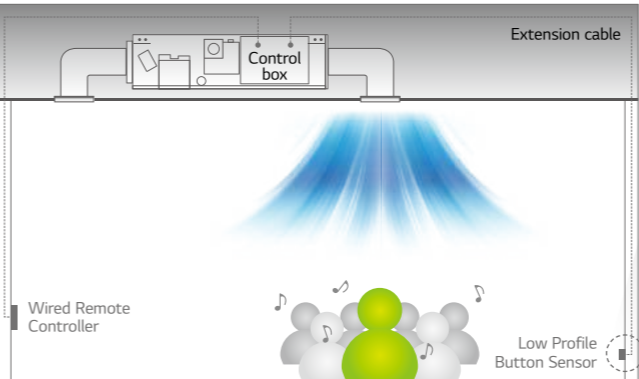
ZRTBS01

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

Features & Benefits

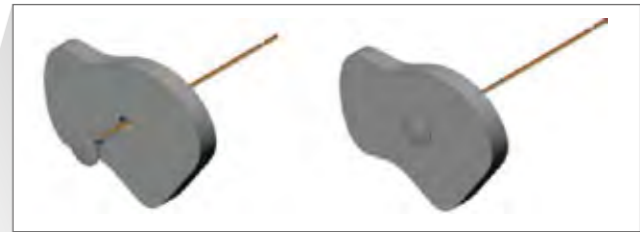
- Ideal for locations where aesthetics are as important as the temperature measurement
- Inconspicuous wall sensor that mounts easily by pushing through a 10mm hole and secured with a peel off tape strip
- Small flush sensor mounting
- Accurate direct air measurement
- Paintable with latex or oil base

Key Application

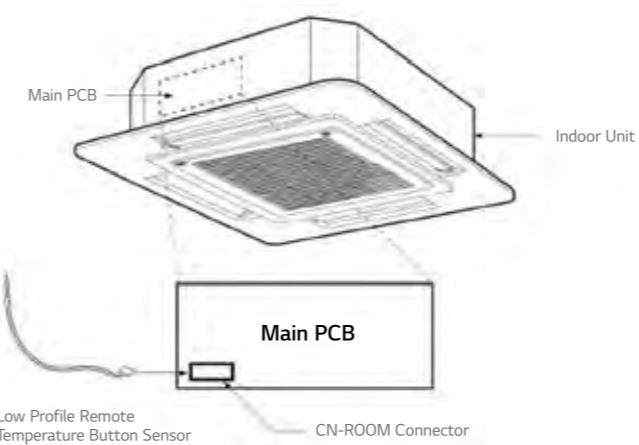


Models Applied

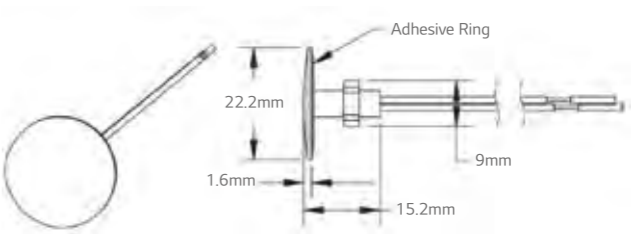
- LG indoor units excluding Wall-Mounted Type



Installation Scene



Drawing



ZONE CONTROLLER

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



ABZCA

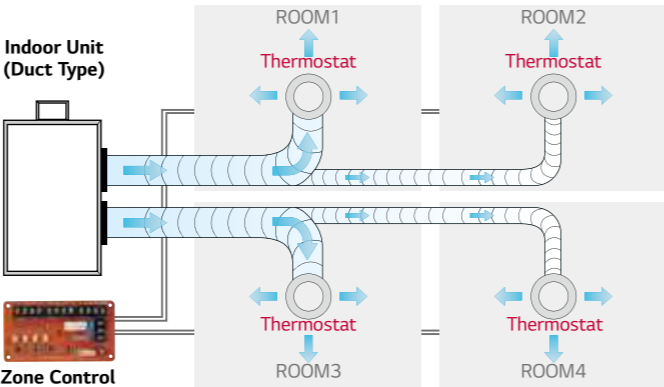
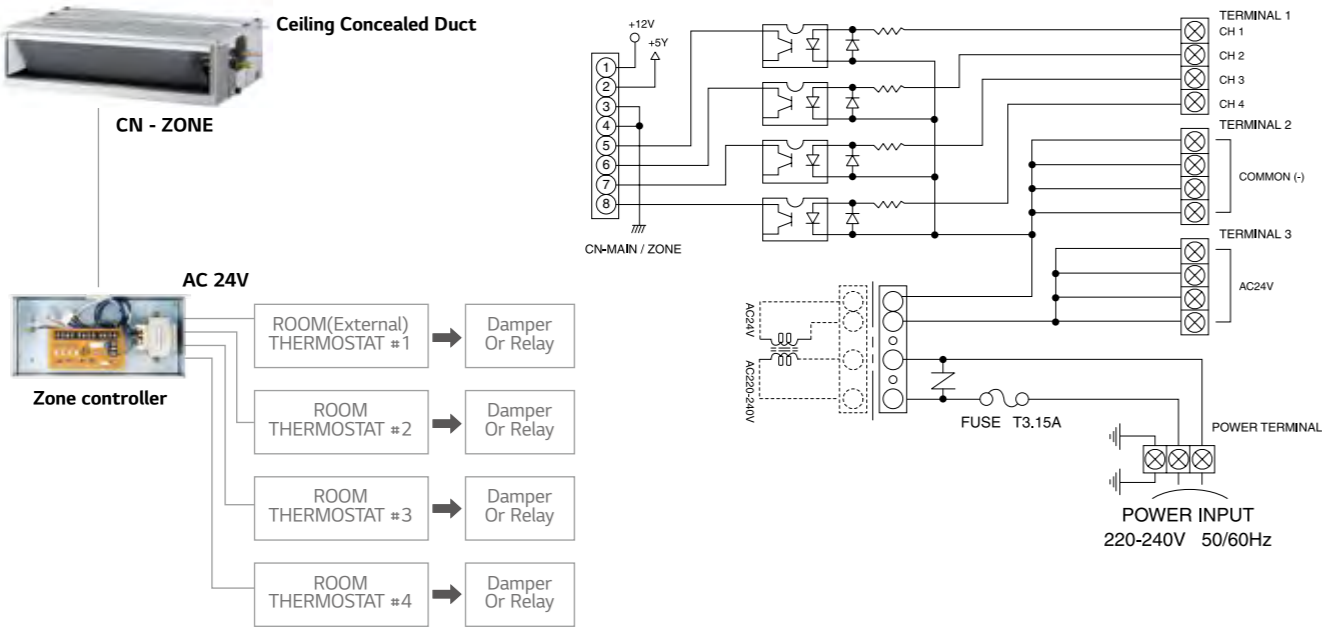
Features & Benefits

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

Models Applied

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

Wiring Diagram



IO MODULE

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



PVDSMN000

Features

Function

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

Description

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

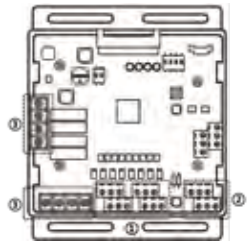
Note : IO Module is not compatible for MULTI V III

Models Applied

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

Part Description

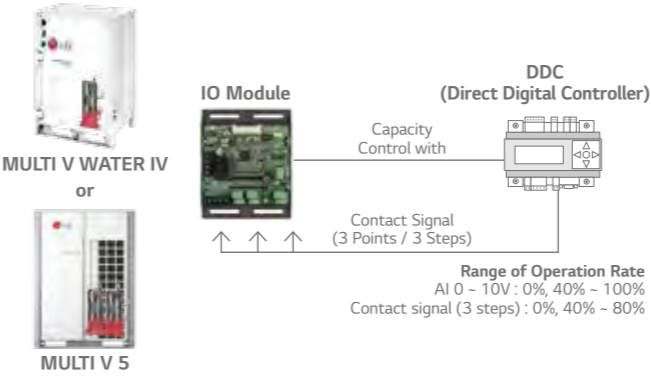
- 1) Digital Input Part (DI : Dry Contact Input)
 - Demand control by contact input (3 Step)
 - Low Noise Operation input
 - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
 - Open : External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



Key Application

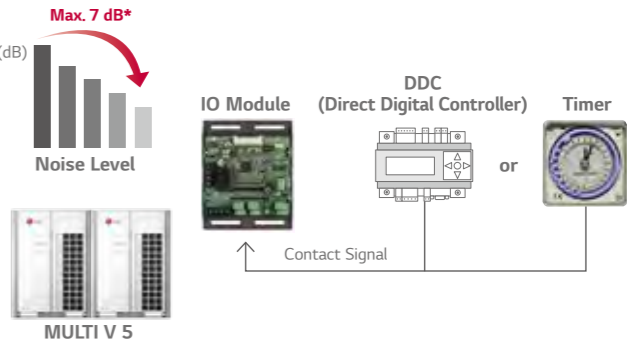
Demand Control

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



Low Noise Operation

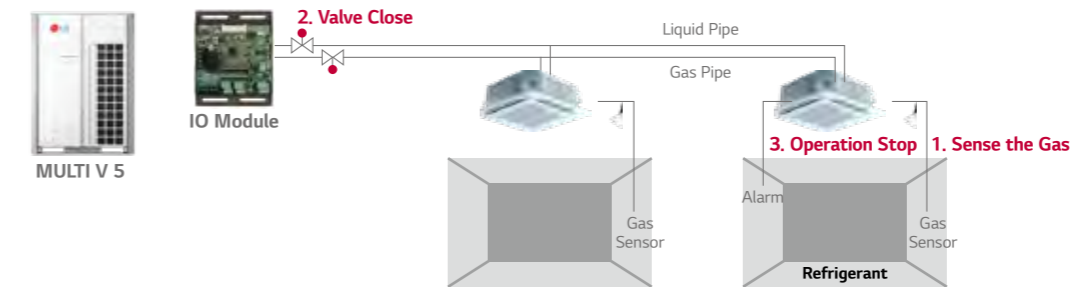
To reduce noise level , control outdoor unit's fan speed by dry contact input.



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

Refrigerant Leakage detection with Pump-down

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



WATER COMMUNICATION MODULE NEW

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



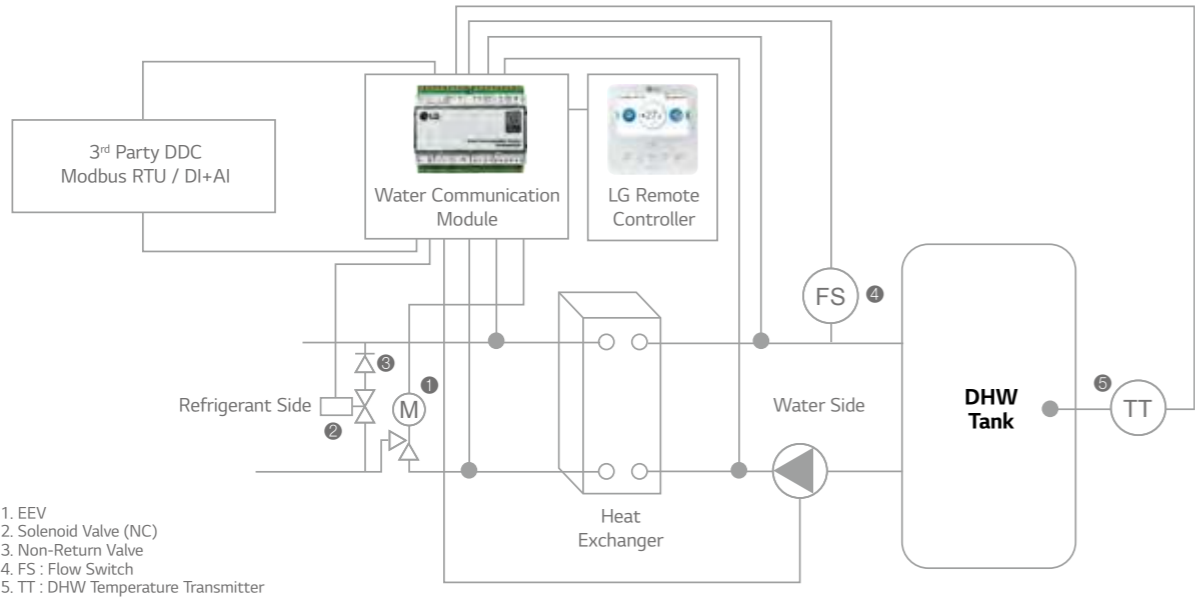
PAHCMW000

| 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 3 rd 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 3 rd party |
| | UI2 | 0-10V Set Temp | Target Temp. Setting |
| | UI3 | DHW Temperature Transmitter 0 ~ 10V | Measured Water Temp Input by 3 rd 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 |

Features & Benefits

Interlocking with 3rd parties can make various solution with LG MULTI V outdoor unit.

Overview



• 3rd party solenoid, non-return valve, heat exchanger, flow switch and DHW temperature transmitter(optional) must be purchased separately (field supplied items)

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 |
|------------|-----------------------|------------------------|------------|-------------|
| | Standard III | AC EZ touch | AC smart 5 | |
| | PREMTW101 | PACEZA000 | PACS5A000 | |

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 PRLK048A0 | HP/HR | 0.95 | 3/8" / 9.52mm |
| >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.

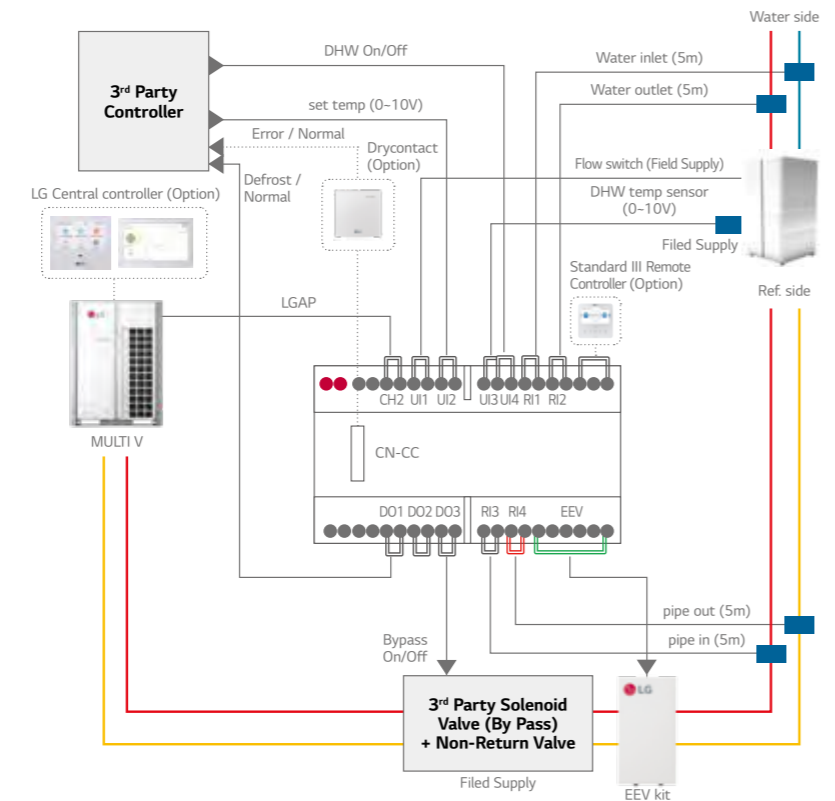
| Controller | Nominal Flow | Flow switch Cut off |
|------------|--------------|---------------------|
| L/min*kW | 3.29 | 1.23 |

• 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

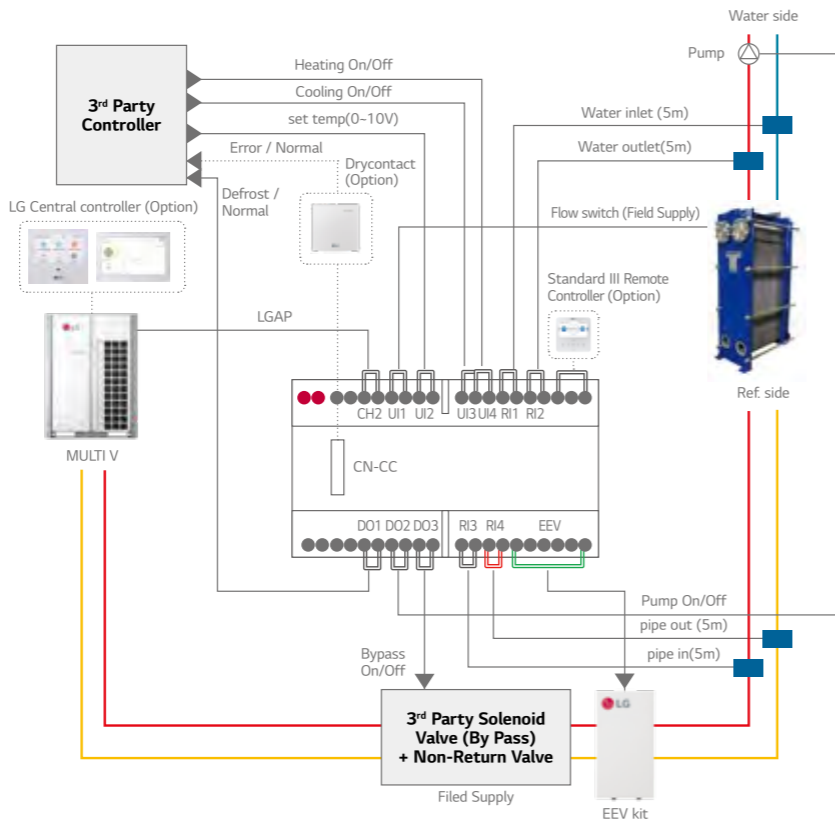
WATER COMMUNICATION MODULE APPLICATION

Installation scene with Contact connection

Contact signal + DHW Only Setting



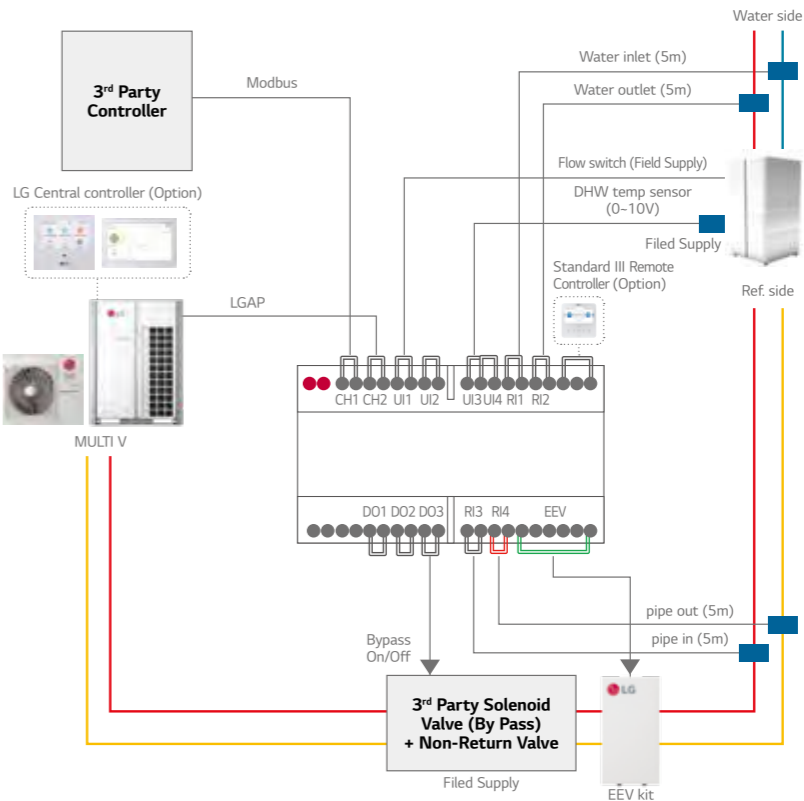
Contact signal + Heating / Cooling Setting



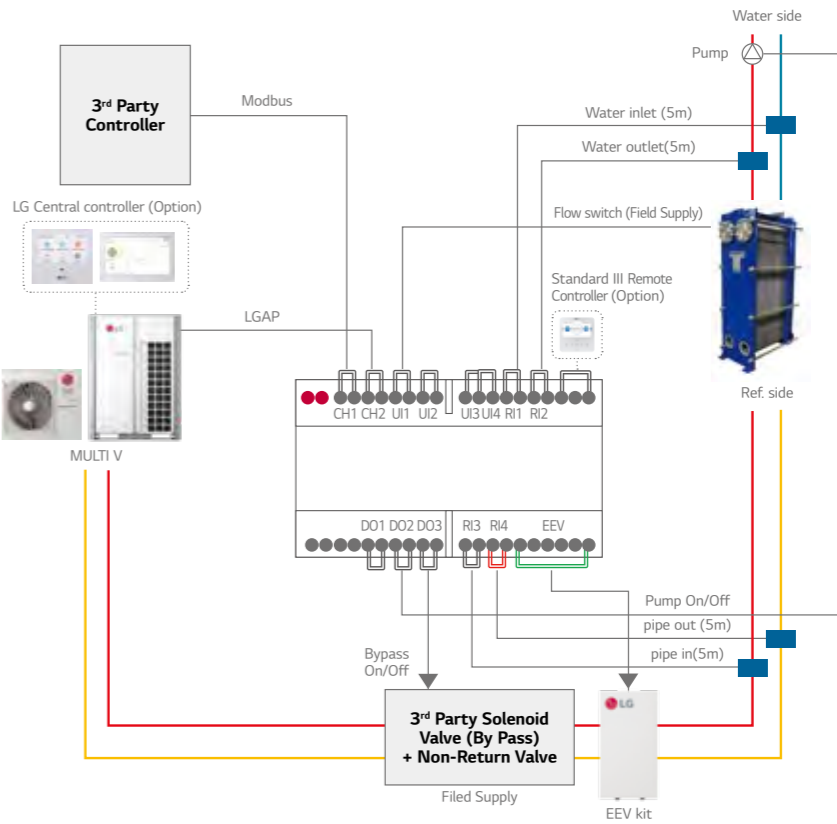
※ In case of Contact control, LG controllers can only support monitoring functions

Installation scene with Modbus / LG Control(optional) connection

Modbus+ DHW Only Setting



Modbus+ Heating/Cooling Setting



VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow.



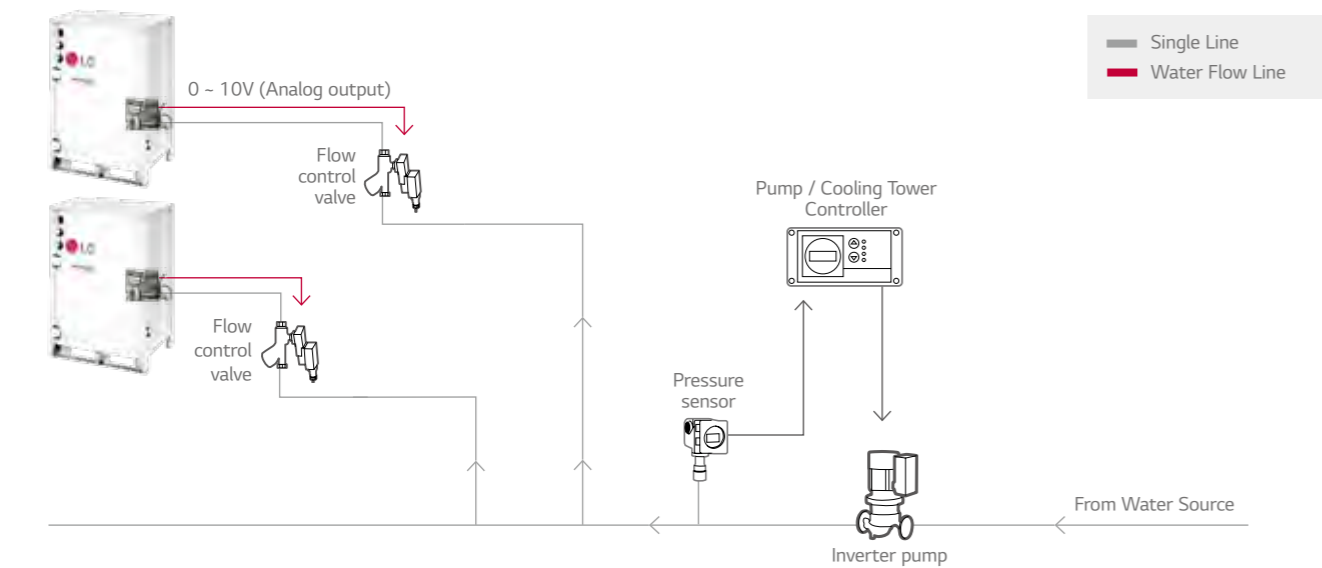
PWFCN000
(MULTI V WATER IV)

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)

- Advantage**
- 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

Wiring Diagram



- 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

External integration module for cooling operation with -25°C low ambient temperature.

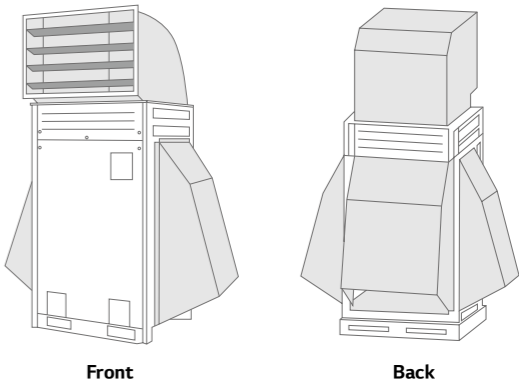


PRVC2

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)

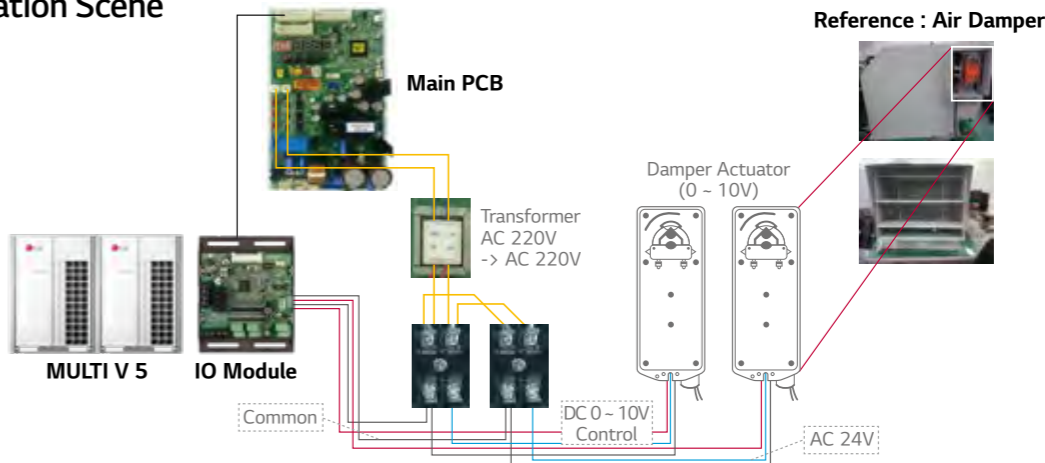
- Description**
- Low ambient kit supports -25° C cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0 ~ 10V proportional to condensing pressure.
 - Low ambient kit provides IO Module function.
 - External snow hood and air damper are required for this item.
 - Transformer and terminal block are included.



Models Applied

- MULTI V 5
- MULTI V IV

Installation Scene



Note : The IO Module can control maximum three actuators. Please, review damper actuator's installation manual.

COOL / HEAT SELECTOR

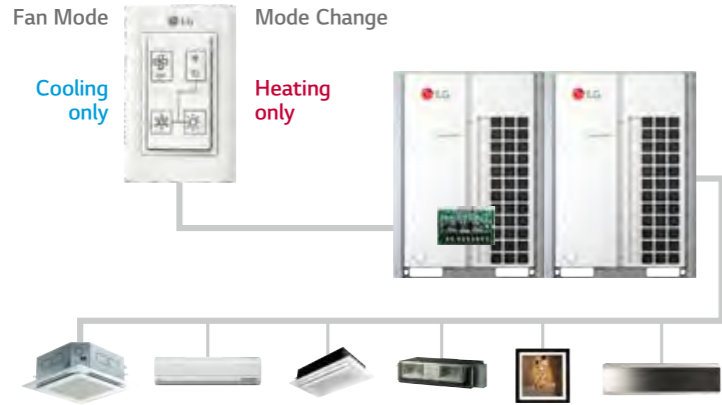
Cooling only, heating only, and fan mode can be selected.



PRDSBM

Features

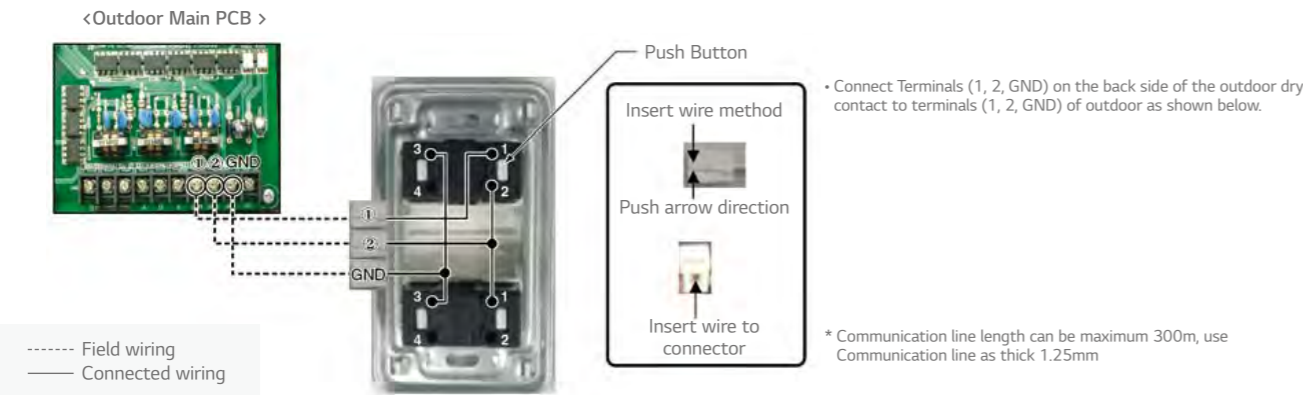
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

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

Wiring Diagram



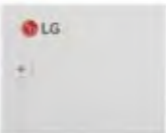
AHU KITS

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

COMMUNICATION KIT



PAHCMR000



PAHCMS000

NEW

CONTROL KIT



PAHCNM000

EEV KIT



PRLK048A0
PRLK096A0

NEW

CONTROLLER MODULE



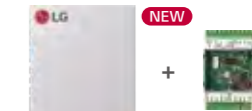
PAHCMM000



PAHCMC000



PRLK396A0



PRLK594A0

Specifications

Control Application Kit

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

Expansion Application Kit

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

AHU KITS

Communication Kit

HIGH ENERGY EFFICIENCY

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

- High energy efficiency inverter system
- Large range of expansion application Kit
 - : Max 168 kW EEV Kit¹⁾
- 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

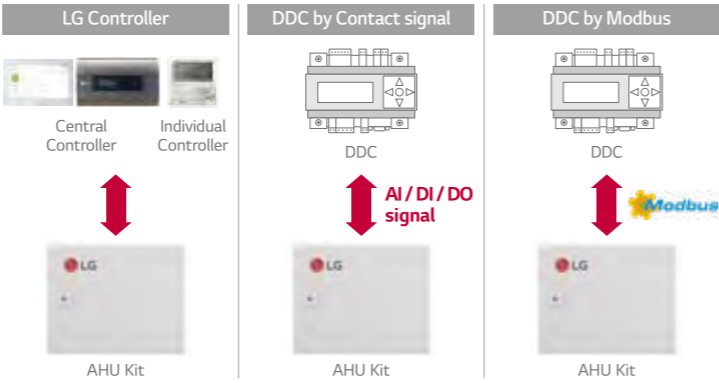


DIVERSE OPTIONS FOR CONTROL

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

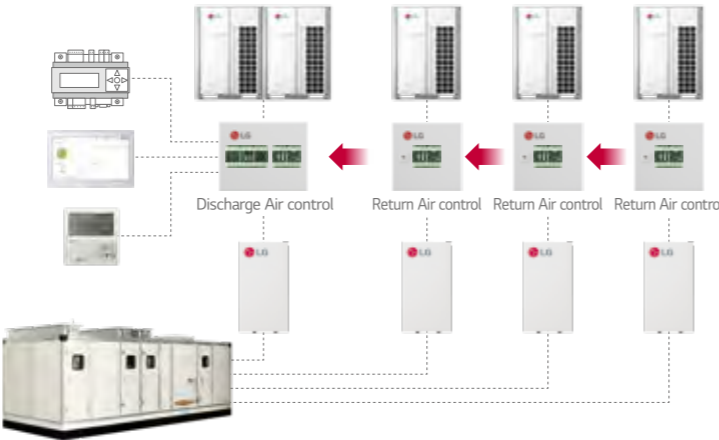
1) DDC : Direct Digital Controller



EXPANDABLE SYSTEM DESIGN

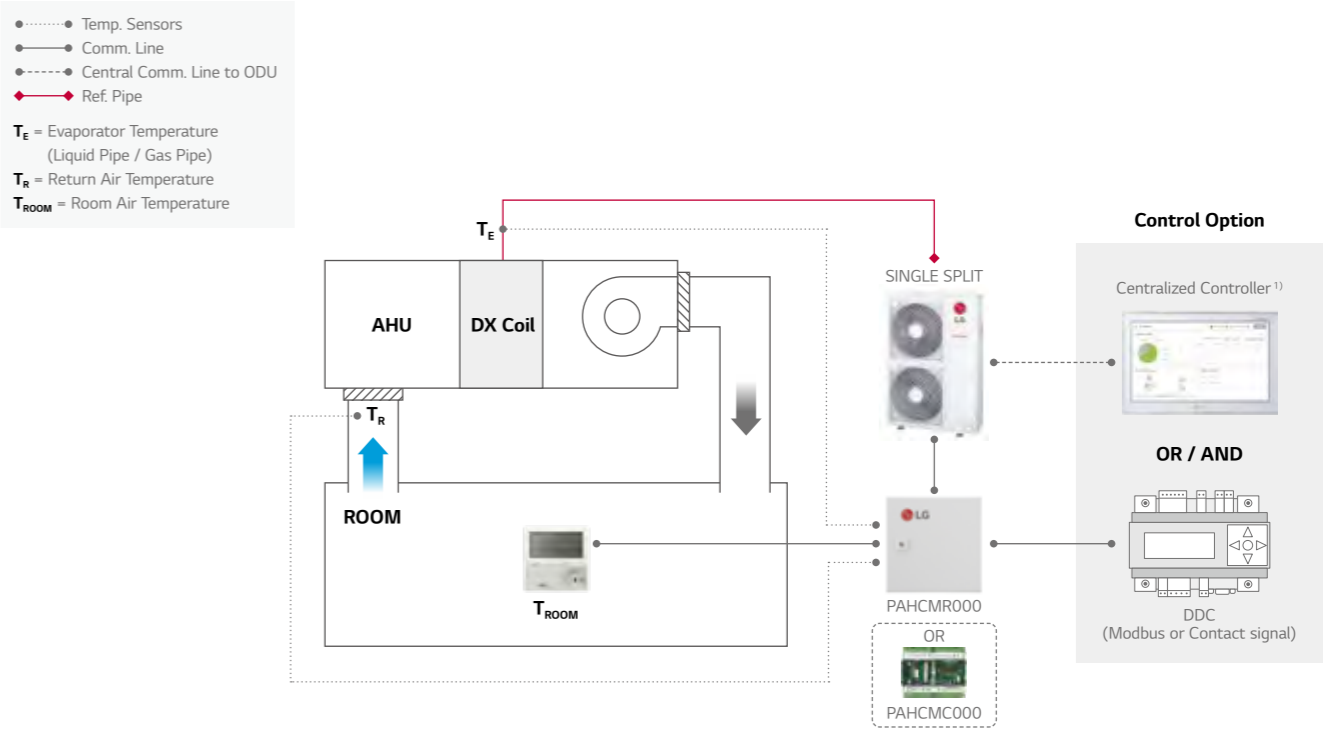
LG AHU system can be a suitable solution for various sites due to its application flexibility and wide range of line up with large capacity models. According to the required capacity, a single or multiple module combination is possible due to the AHU communication kit's modular design.

- Multiple module combination for large capacity AHU

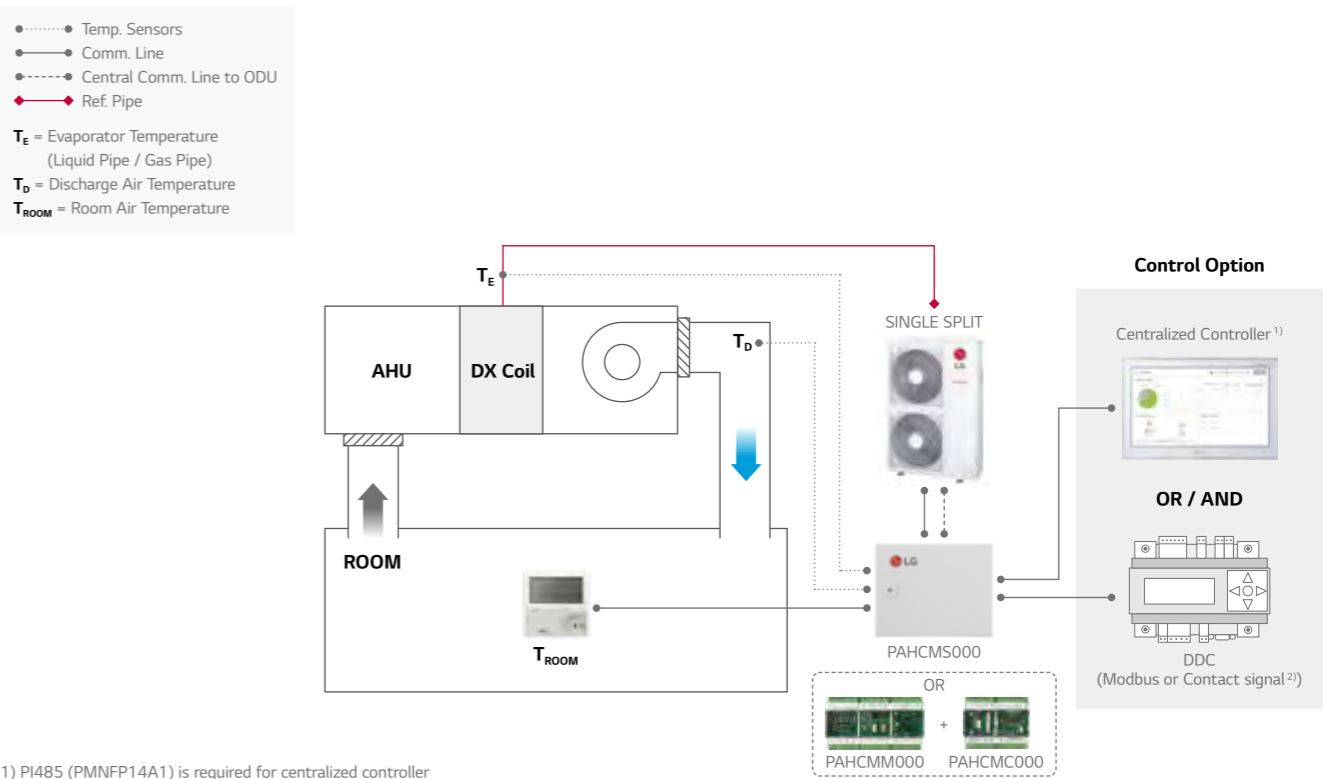


Single Split Application (Communication Kit & Controller Module)

Single Split + Return / Room Air Temperature Control

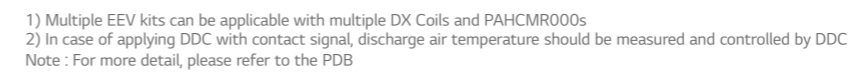
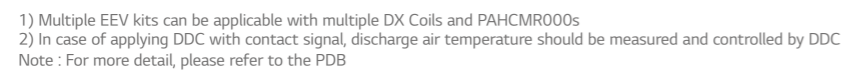


Single Split + Discharge Air Temperature Control



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

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



AHU KITS

Communication Kit Function

Communication with DDC via Contact Signal

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

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

Communication with DDC via Modbus protocol

| Function List | PAHCMR000 (PAHCMC000) | PAHCMS000 (PAHCMM000 +PAHCMC000) | Note |
|---|----------------------------|-------------------------------------|---|
| Operation On/Off | On / Off | On / Off | |
| Operation Mode | Cooling / Heating / Fan | Cooling / Heating / Fan | |
| Return (Room) Air Temperature | 16 ~ 30 ℃ | - | |
| Discharge Air Temperature ²⁾ | - | 12 ~ 50 ℃ | Dip SW1-2 Discharge Temp. Control Type should be set 'On' |
| Fan Speed ³⁾ | High / Middle / Low | - | |
| Forced Thermal On/Off | - | - | |
| ODU Capacity Control ²⁾ | - | 40 ~ 100% | Dip SW1-2 Discharge Temp. Control Type should be set 'On' |
| Emergency Stop | - | - | |
| Operation | On / Off | On / Off | |
| Operation Mode | Cooling / Heating / Fan | Cooling / Heating / Fan | |
| Return(Room) Air Temperature | ○ | - | Corresponding air temperature sensor connected to AHU Comm. Kit is required |
| Discharge Air Temperature | - | ○ | |
| Fan Speed | High / Middle / Low | High / Middle / Low | |
| Defrost Operation | Defrost/Normal | Defrost/Normal | |
| Error Alram | Error / Normal, Error code | Error / Normal, Error code | |
| Compressor On/Off | On / Off | On / Off | |

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

Communication Kit Function

With LG Control system (Individual & Centralized Controller)

| Function List | PAHCMR000 (PAHCMC000) | PAHCMS000 (PAHCMM000 +PAHCMC000) | Note |
|---|--------------------------|-------------------------------------|--|
| Operation On/Off | On/Off | On/Off | - |
| Operation Mode | Cooling/Heating/Fan | Cooling/Heating/Fan | Available operation mode can vary depending on the settings of Communication Kit |
| Return (Room) Air Temperature ²⁾ | 16 ~ 30 ℃ | - | - |
| Discharge Air Temperature ²⁾ | - | 12 ~ 50 ℃ | Standard II : 16 ~ 30 ℃ Standard III : 12 ~ 50 ℃ (Available in April, 2020) Central Controllers : 12~50℃ |
| Fan Speed ³⁾ | High/Mid/Low | High/Mid/Low | To control the AHU fan, dip switch 1-3 'DO type' should be set 'On(Fan Speed)' (PAHCMR000) |
| Operation | On/Off | On/Off | - |
| Operation Mode | Cooling/Heating/Fan | Cooling/Heating/Fan | - |
| Return (Room) Air Temperature | ○ | ○ | - |
| Discharge Air Temperature | | ○ | - |
| Fan Speed | High/Middle/Low | High/Middle/Low | - |
| Defrost Operation | On/Off | On/Off | Only with Individual Controller |
| Error Alram | Error Code | Error Code | Error code will be displayed on the screen |
| Compressor On/Off | On/Off | On/Off | Only with Individual Controller |

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

Compatibility with LG HVAC Controllers

| Controller | Individual Controller | | | Centralized Controller | | | | | BMS Gateway | PDI |
|------------|---|---|---|---|---|---|---|---|---|---|
| | Premium | Standard III | Standard II | AC Ez | AC Ez Touch | AC Smart 5 | ACP 5 | AC Manager 5 ¹⁾ | ACP Lonworks | Premium Standard |
| |  |  |  |  |  |  |  |  |  |  |
| Model no. | PREMTA000 PREMTA000A PREMTA000B | PREMTB100 PREMTBB10 | PREMTB001 | PQCSZ250S0 | PACEZA000 | PACS5A000 | PACP5A000 | PACM5A000 | PLNWkB000 | PQNUD1S40 PPWRDB000 |
| PAHCMR000 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| PAHCMS000 | - | ○ ²⁾ | ○ | - | - | ○ | ○ | ○ | - | - |

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

AHU KITS

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 | - | - | - | - |

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

| Type | Model | MULTI V | | | | MULTI V WATER | |
|--|--------------------------------------|---------|----|-----|---|---------------|----|
| | | 5 | IV | III | S | IV | II |
| Communication Kit (Controller Module) | PAHCMR000 (PAHCMC000) | ○ | ○ | ○ | ○ | ○ | ○ |
| | PAHCMS000 (PAHCMM000 + PAHCMC000) | ○ | ○ | ○ | ○ | ○ | ○ |
| Control Kit | PAHCNM000 | ○ | ○ | ○ | ○ | ○ | ○ |

Expansion Application Kit Compatibility

| EEV Kit Model | Capacity index (kW) | | Control Application Kit (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.

Control Kit

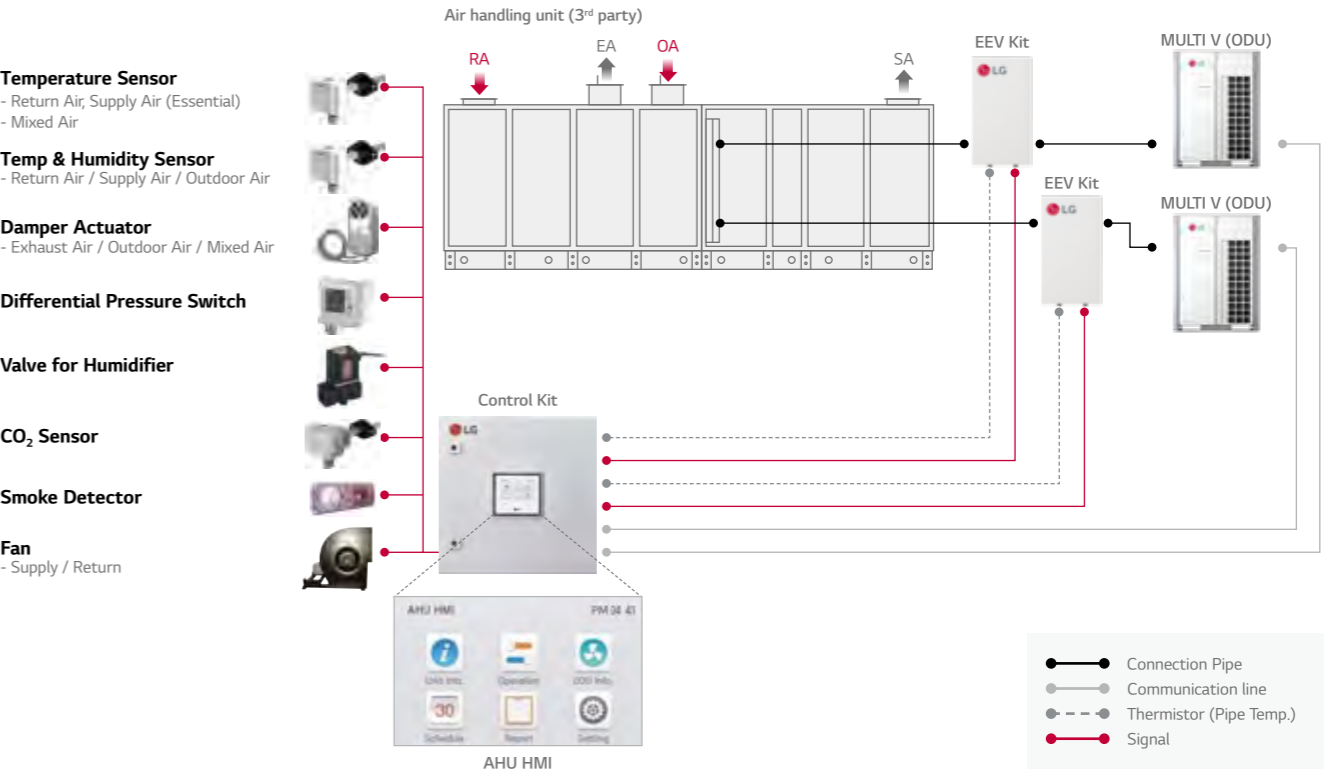
| List | Required Item |
|-----------------------------------|--|
| Heating / Cooling | SA / RA temperature sensor (or SA / RA temperature & humidity sensor) |
| Automatic Ventilation | SA / RA temperature, CO ₂ sensor, Damper actuator (OA, EA, MA) |
| Energy Saving (Cooling Mode Only) | SA temperature, OA / RA temp&humidity sensor, Damper actuator (OA, EA, MA) |
| Humidification | SA temperature, RA temperature & humidity sensor, Humidifier |
| Inverter Fan Control | SA / RA temperature, Static pressure sensor, Inverter driver for fan control |
| Filter Alarm | Difference pressure sensor |
| Smoke Detecting | Smoke detection sensor |

RA : Return Air, EA : Exhaust Air, OA : Outdoor Air, SA : Supply Air, MA : Mix air (RA + OA)

Field Supplied Item

| List | Required Specification | Apply Location |
|---|---|---|
| Temperature Sensor | - Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -50 ~ 50°C | - Apply to MA, SA, RA |
| Temperature & Humidity Sensor | - Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -40 ~ 70°C - Humidity boundary : 0 ~ 95% RH | - Apply to SA, RA, OA - Can not be applied to MA |
| Damper Actuator | - Power : AC 24V, In/Output signal : DC 0 ~ 10V - Rotation angle : 90° | - Apply to OA, EA, MA damper |
| Difference Pressure Sensor (for Filter) | - Power : AC 24V, Output signal : DC 0 ~ 10V * Boundary : 0 ~ 1000Pa - Switch type : Relay Open / Close | - Apply to filter |
| Static Pressure Sensor | - Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1000pa | - Apply to SA (for inverter control) |
| CO ₂ Sensor | - Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 2000ppm | - Apply to RA duct |
| Smoke Detection Sensor | - Power : AC 24V, From : Contact point type | - Apply to RA duct |

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



HOTEL

Hotel Control Solution



Guest Rooms

Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

Dry contact

Dry contact

Dry contact For thermostat

Refrigerant Leak detector

Reception

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

AC Smart 5 (Schedule)

Public Areas

Centralized management of the public areas

SHOPPING MALL

Shopping Mall Control Solution



Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alert

Maintenance Office

Reduces energy by checking operational trends

Atrium

Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

PDI

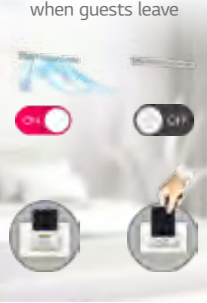






Central controller (Operation trend)

Central controller (Operation trend)

Comm. Kit

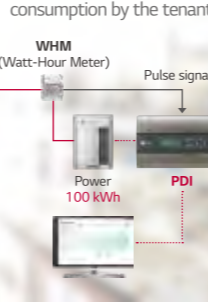
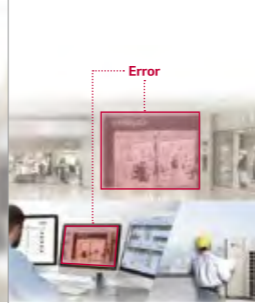



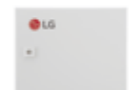



Central controller (Operation trend) + Chiller option kit

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 Modbus RTU(9,600bps) | PDRYCB300 NEW PDRYCB320* 8 contact point | PRLDNVSO Refrigerant leakage detector • 6000ppm | PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) |
| Input • Operation On / Off | Function • Operation • Indoor temperature • Error alarm • Set run mode • Set temperature • Set fan speed | Input • Universal Input* • Operation On / Off • Thermo On / Off • Operation mode (Fan / Heat / Cool) • Fan speed (Low / Middle / High) |  PREMTB100 Wired remote controller • 4.3 inch color LCD • Touch button |  PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) |
| Output • Operation On / Off status • Error alarm | | Output • Operation On / Off status • Error alarm | | |

* Available from April 2020

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 port) • Max. 128 IDU | PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) | PAHMR000 AHU Comm. Kit • Return air |
|  |  |  |
| PQNUD1S40 PDI Premium (8 port) • Max. 128 IDU | PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) | PAHMS000 AHU Comm. Kit • Discharge air |
| | |  PCHLLN000 Chiller option kit +  PACP5A000 ACP 5  PACS5A000 AC Smart 5 |

HOSPITAL

Hospital Control Solution



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


Wired remote controller


Central controller (Comfort level)


Dry contact



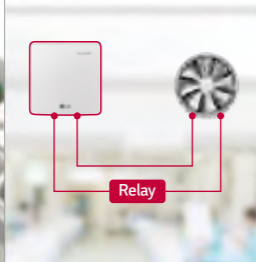



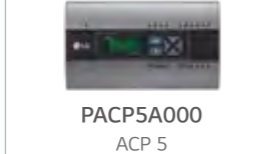


Service Zone
Energy savings based on flexible scheduling


Central controller (Schedule)

Lobby
Centralized management of AHU for large spaces



Comm. Kit

Design Proposal


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


ACADEMIC INSTITUTION

Academic Institution Control Solution




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



Wired remote controller



Central controller (Lock)

Lecture Hall
Schedule management according to academic plan




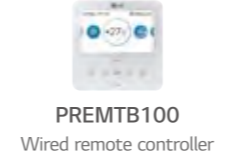
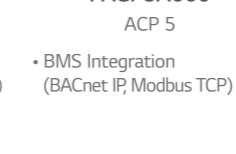

Central controller (Schedule)

Maintenance Office
Integrated management of distributed buildings
Centralized management with multiple interfaces


Central controller (Multiple management)


Central controller (HTML5)

Design Proposal

| Class Room | Lecture Room | 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 |
|  |  |  |
| PTVSMMAO Human detection sensor | PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP) | PACM5A000 AC Manager 5 • BMS Integration (BACnet IP, Modbus TCP) |
|  |  | |
| PREMTB100 Wired remote controller • 4.3 inch color LCD • Touch button | PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP) | |

OFFICE

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







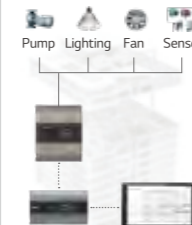


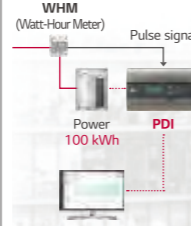


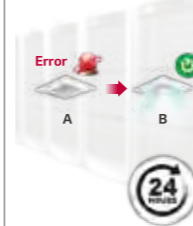




Server Room

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>PACS5A000 AC Smart 5</p> <ul style="list-style-type: none">• BMS Integration (BACnet IP, Modbus TCP)  <p>PACP5A000 ACP 5</p> <ul style="list-style-type: none">• BMS Integration (BACnet IP, Modbus TCP) | <p>Integrated management of HVAC with BMS system</p> <p>BMS Protocol</p>  <p>BMS System</p>  <p>PLNWKB000 LonWorks gateway</p>  <p>PMBUSB00A Modbus RTU gateway</p>  | <p>Reduce costs by replacing BMS</p>  <p>PEXPMB000 ACS IO Module</p>  <p>PEXPM300 PEXPM200 PEXPM100 ACU IO Module</p>  | <p>Reasonable power distribution to tenants</p>  <p>PPWRDB000 PDI Standard (2 port)</p> <ul style="list-style-type: none">• Max. 128 IDU  <p>PQNUD1S40 PDI Premium (8 port)</p> <ul style="list-style-type: none">• Max. 128 IDU  | <p>Main equipment 24 hours back up management</p>  <p>PACS5A000 AC Smart 5</p> <ul style="list-style-type: none">• BMS Integration (BACnet IP, Modbus TCP)  <p>PACP5A000 ACP 5</p> <ul style="list-style-type: none">• BMS Integration (BACnet IP, Modbus TCP) | <p>Energy savings based on occupancy detection</p>  <p>PTVSM40 Human detection sensor</p>  <p>PREMTB100 Wired remote controller</p> <ul style="list-style-type: none">• 4.3 inch color LCD• Touch button  |

RESIDENTIAL

Residential Control Solution



Home

Anytime, anywhere air conditioner control and access

Integrate systems for smart connectivity throughout

Bed Room






Use a familiar residential thermostat

Simple interlocking control by remote control

Apartment / Residence

Stable system operation

Design Proposal

| Home | | Bed Room | | Apartment |
|--|---|--|--|--|
| <p>Control your home air conditioner anytime, anywhere</p>  <p>PWFMDD200 LG Wi-Fi modem</p> <p>Function</p> <ul style="list-style-type: none">• On / Off• Fan speed• Operation mode• Vane control• Reservation (Sleep, Weekly On / Off)• Error check | <p>Build a Smart house</p>  <p>PDRYCB500 Modbus RTU (9,600bps)</p> <p>Function</p> <ul style="list-style-type: none">• Operation• Indoor temperature• Error alarm• Set operation mode• Set temperature• Set fan speed | <p>Use a familiar residential thermostat</p>  <p>PDRYCB300 NEW PDRYCB320* 8 contact point</p> <p>Input</p> <ul style="list-style-type: none">• Universal Input*• Operation On / Off• Thermo On / Off• Operation mode (Fan / Heat / Cool)• Fan speed (Low / Middle / High) <p>Output</p> <ul style="list-style-type: none">• Operation On / Off status• Error alarm <p><small>* Available from April 2020</small></p> | <p>Simple interlocking control by remote control</p>  <p>PREMTB100 Wired remote controller</p> <ul style="list-style-type: none">• 4.3 inch color LCD• Touch button | <p>Stable system operation when indoor unit power is lost</p>  <p>PRIP0 Independent power module</p> <ul style="list-style-type: none">• EEV full close function |

ACCESSORIES

MECHANICAL ACCESSORIES / PIPING ACCESSORIES



CASSETTE PANEL

The Independent Vane Operation makes desired and comfortable air flow.

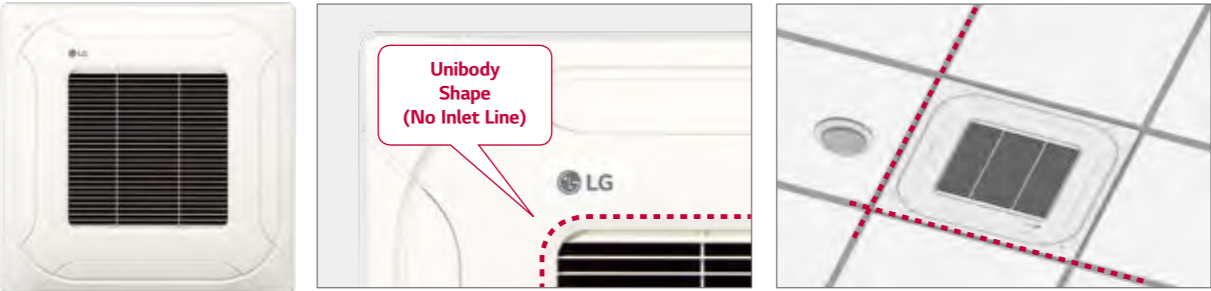


Key Features

- 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

- New 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile



Specification

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

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

DUAL VANE CASSETTE PANEL



Model Name

PT-AAGW0
PT-AEGW0
PT-AFGW0

Key Features

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

Specification

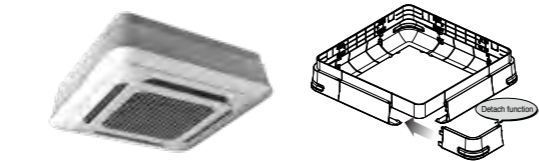
| Model | Suction Type | Color (RAL) | Gloss | Weight (kg) | Dimension (mm) | | |
|----------|--------------|------------------|-------|-------------|----------------|----|-----|
| | | | | | W | H | D |
| PT-AAGW0 | Grid | White (RAL 9003) | - | 7.1 | 950 | 35 | 950 |
| PT-AEGW0 | Grid | White (RAL 9003)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

Air Purification Kit

| Model | Image | Model name | Dielectric Dust collecting filter | Photocatalytic Deodorizing filter | HVPS | Ionizer |
|------------------|-------|------------|-----------------------------------|-----------------------------------|------|---------|
| | | | | | | |
| Air cleaning kit | | PTAHMP0 | ○ | ○ | ○ | ○ |

CASSETTE COVER

Cover in case of exposed cassette installation.



Key Features

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

Specification

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

Model Name

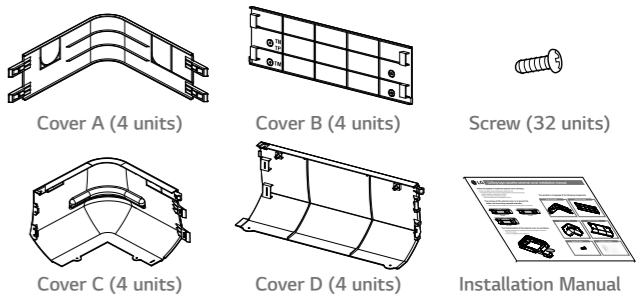
PTDCM / PTDCQ

Applied Products

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

Included Parts

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



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

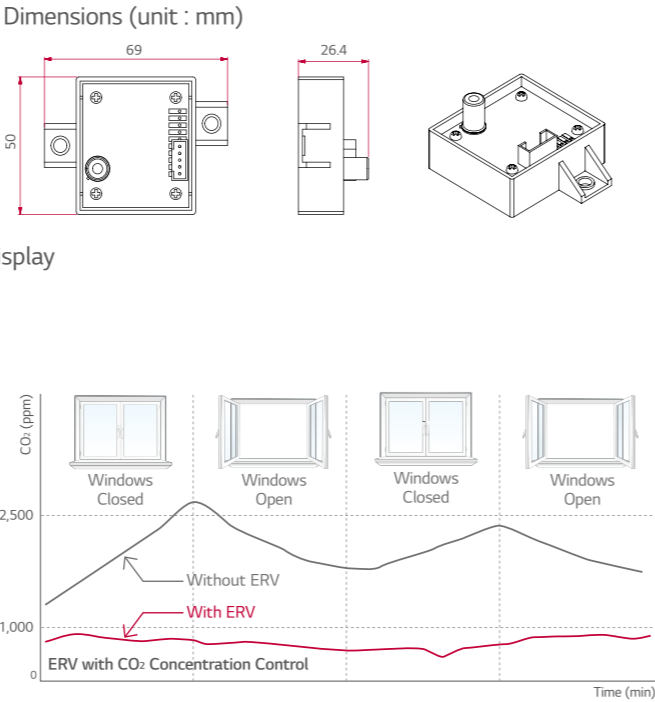
Applicable products

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

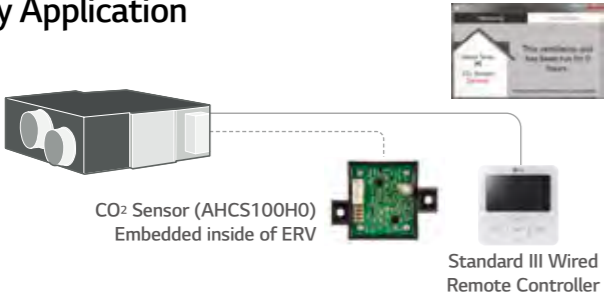
Key Features

- 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

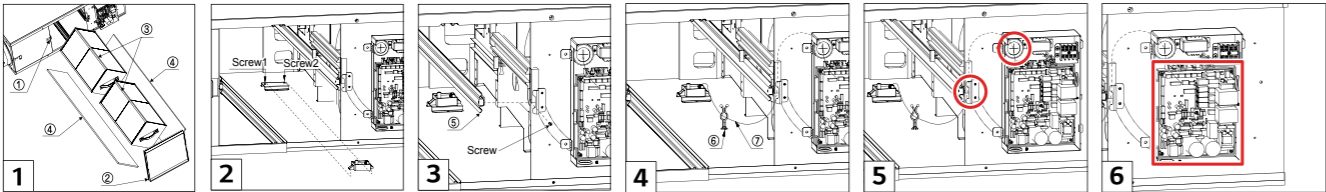


Key Application



How to Intstall

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



REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector ensures room safety.



Model Name
PRLDNVS0

Applied Products

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

Key Features

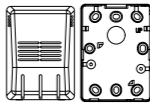
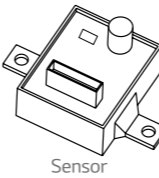
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is “on” when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is “off”.
- When the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

Specification

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

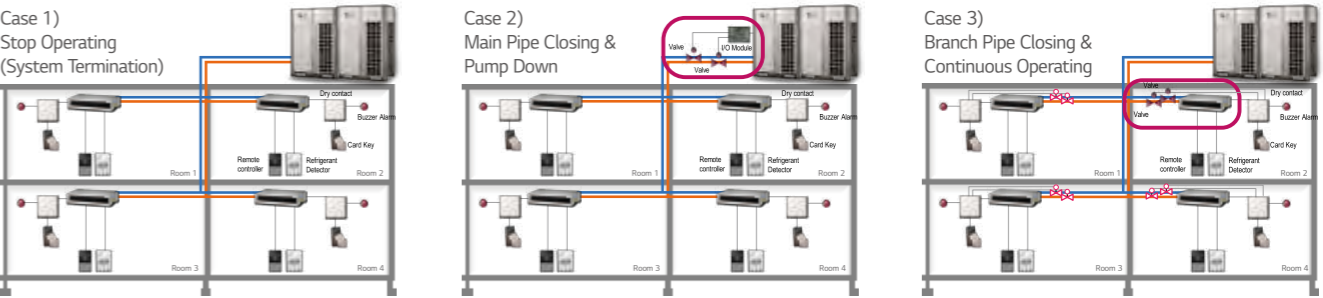
This function available for ARU****L**5 and 4(Multi V 5, Multi V IV H/P, H/R model)

Included Parts



Key Application

Refrigrant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)



※ Necessary accessory



PRLDNVS0 (Refrigerant leak detector)



[Optional / Field Supply] Automatic Ball Valve¹⁾



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

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

EEV KIT (FOR INDOOR UNIT)

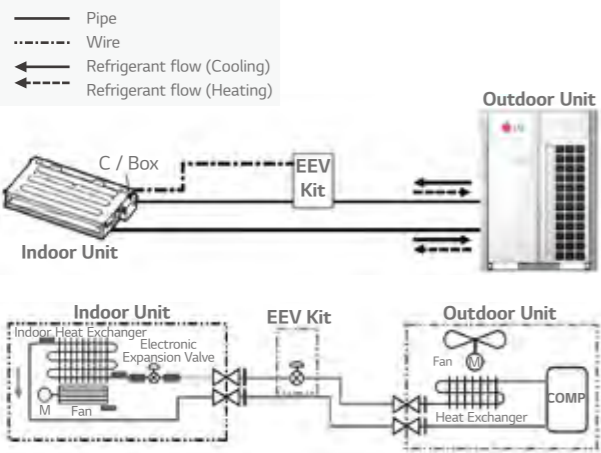
MULTI V EEV KIT is specially designed to reduce noise and make comfort environment.



Key Features

- Decreasing noise level of Multi V Indoor units and easy installation

Key Application



How to Install

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

Model Name

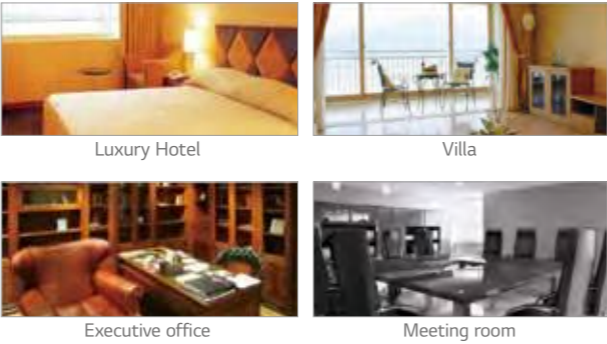
PRGK024A0

Applied Products

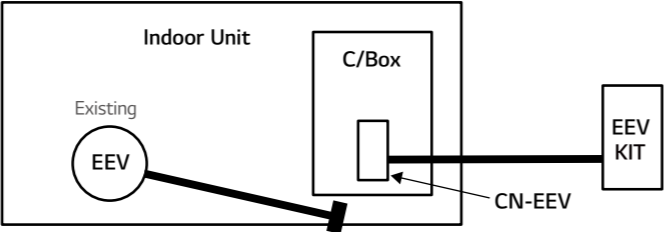
| Indoor Unt | Model | Chassis | Applicable |
|------------|-------------------|---------|------------|
| Cassette | 1 Way Cassette | TU | ○ |
| | 2 Way Cassette | TT | N/A |
| | | TS | ○(-5.6kW) |
| | | TR | ○ |
| | 4 Way Cassette | TQ | ○(-4.5kW) |
| | | TP | N/A |
| | | TN | N/A |
| Duct | | TM |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

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

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



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



IR RECEIVER

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



Model Name

PWLRVN000

Applied Products

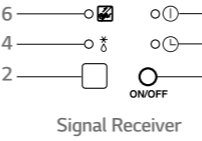
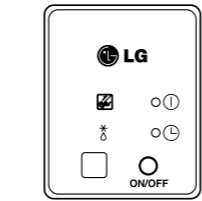
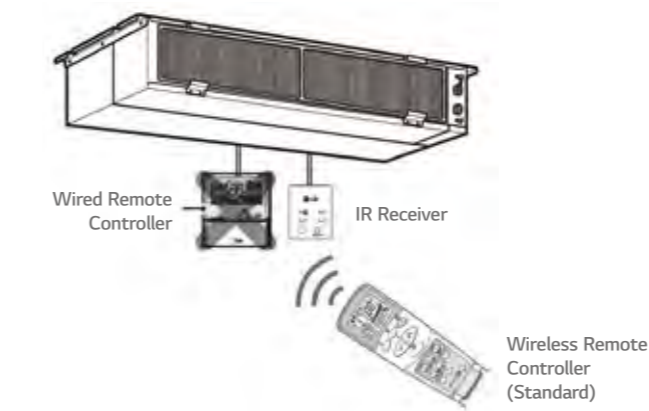
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Features

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

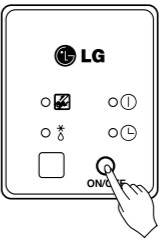
Key Application

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



Operation of Indication Lamps

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



Test Run Mode

After installing the product, you must run a Test Run mode. Press the Emergency Operation button for 5 seconds, until the LED flickers. Then the indoor unit, duct runs cooling mode for 18 minutes, where the setting temperature is 18℃ and the fan speed is high.

INDEPENDENT POWER MODULE

It closes EEV in indoor unit when power cut.



Model Name
PRIPO

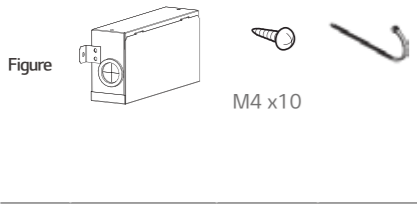
Applied Products
MULTI V Indoor Units

Key Features

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

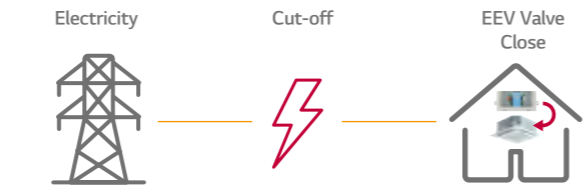
Included Parts

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

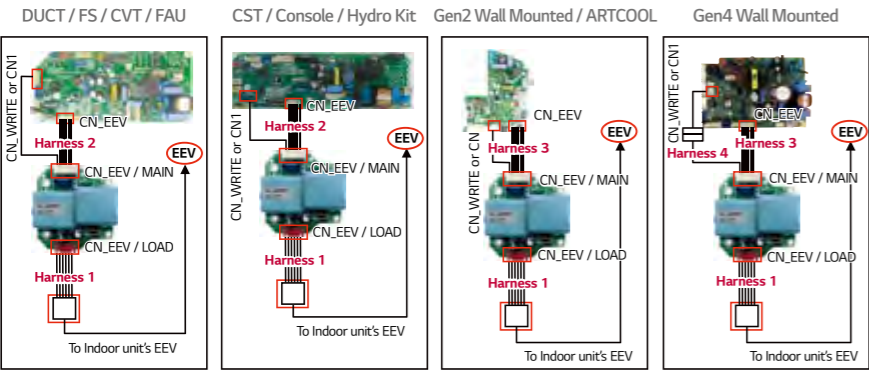


Key Application

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



How to Install



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

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

AUXILIARY HEATER RELAY KIT

Providing an efficient way to add auxiliary heat



Model Name
PRARS1

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

Model Name
PRARH1

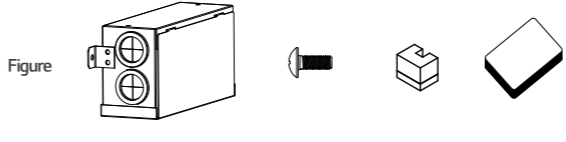
Applied Products
1,2,4 Way Ceiling Cassette, High Static Ducted, Low Static Ducted, Ceiling Suspended

Key Features

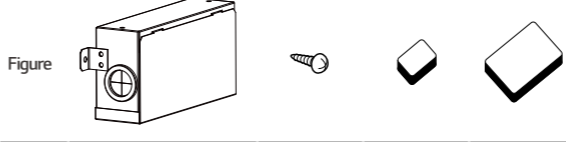
- Provides two stages of auxiliary heat for indoor unit
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source

Included Parts

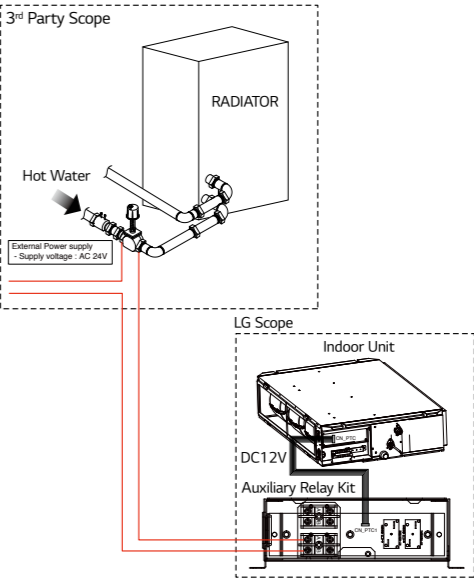
| Model | PRARH1 | | | |
|-------|----------------------------|-------|------------|---------------------|
| Item | Auxiliary Heater Relay Kit | Screw | Insulation | Installation Manual |
| Q'ty | 1 | 2 | 2 | 1 |



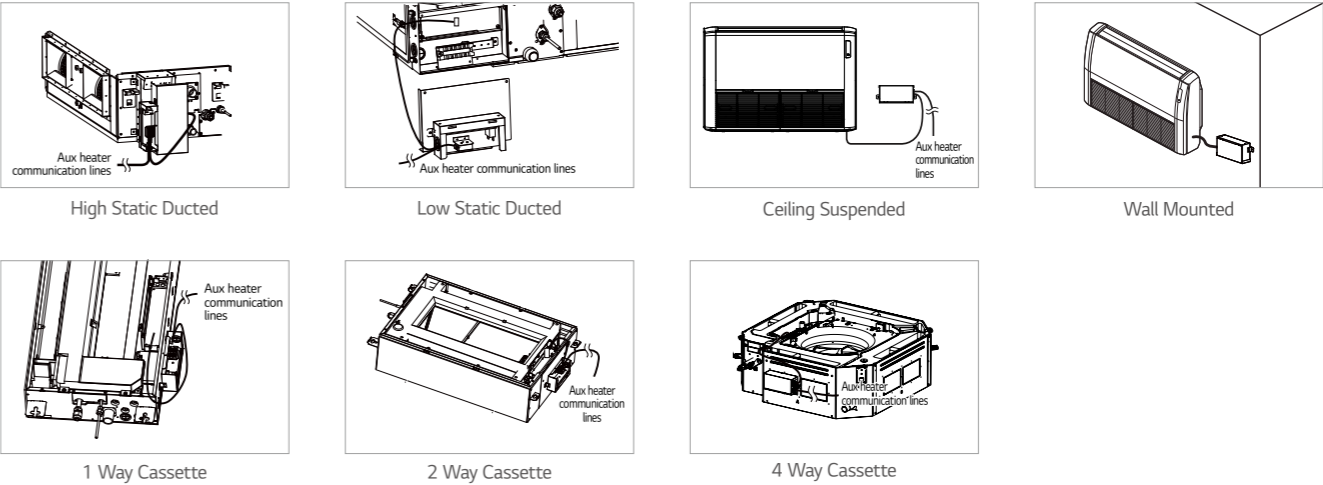
| Model | PRARS1 | | | |
|-------|----------------------------|-------|------------|---------------------|
| Item | Auxiliary Heater Relay Kit | Screw | Insulation | Installation Manual |
| Q'ty | 1 | 2 | 2 | 1 |



Key Application



How to Install



HEAT RECOVERY UNIT



Model Name

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

Applied Products

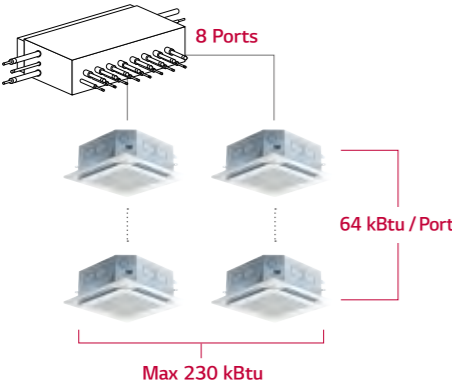
MULTI V 5
MULTI V IV
MULTI V WATER IV

Key Features

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

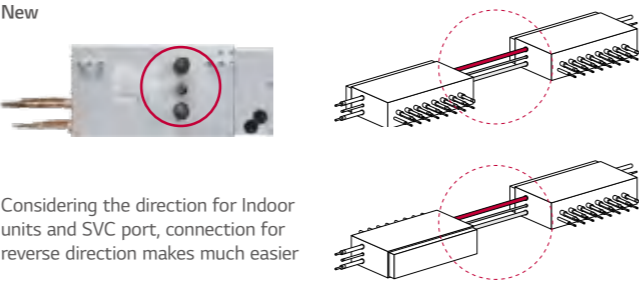
Connection Capacity

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

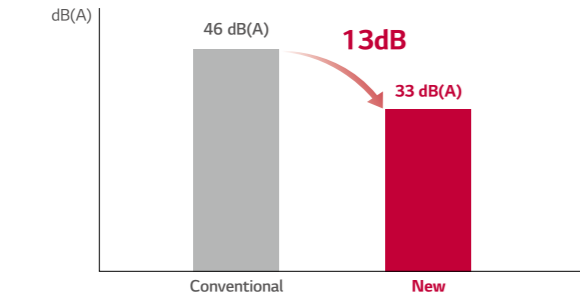


Flexible Connection

Series connection can be installed without pipes crossing.



Reduce Noise



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

Included Parts

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

Specification

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

Reducers for Indoor Unit and HR Unit

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

Y BRANCH AND HEADER BRANCH

For refrigerant distribution of indoor units.

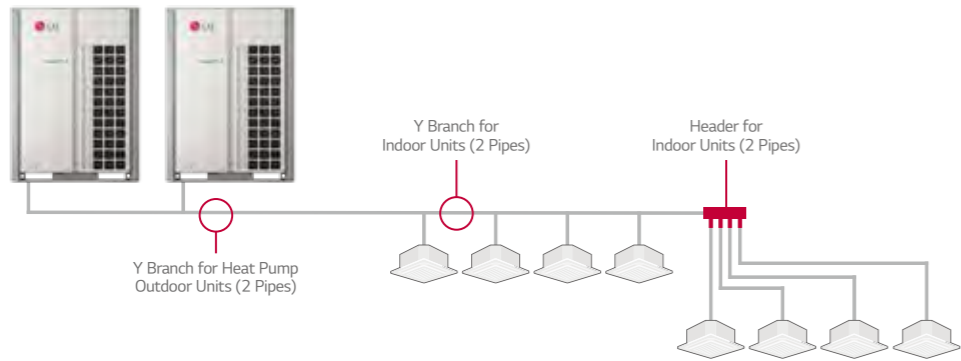


Key Features

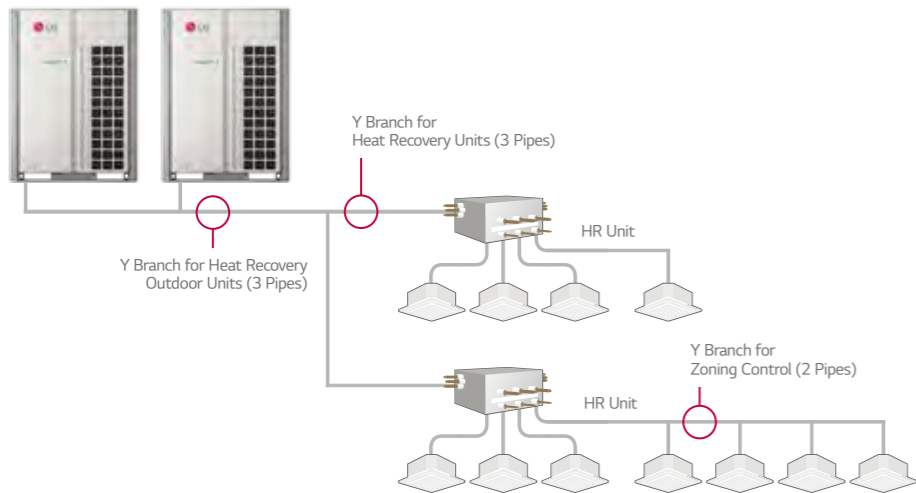
- Various Y Branch pipe of different capacities make Multi V installation much easier
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches

Key Application

Heat Pump System



Heat Recovery System



Model Name

Refer to specifications

Applied Products

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

Specification

Header Branch

R410A

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

PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump

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

(Unit : mm)

| 2 Outdoor Units | | |
|-----------------|------------------------|-------------|
| Model | High Pressure Gas Pipe | Liquid Pipe |
| ARCNN21 | | |
| | | |
| 3 Outdoor Units | | |
| Model | High Pressure Gas Pipe | Liquid Pipe |
| ARCNN31 | | |
| | | |
| 4 Outdoor Units | | |
| Model | High Pressure Gas Pipe | Liquid Pipe |
| ARCNN41 | | |
| | | |

Specification

Heat Recovery

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

(Unit : mm)

| 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 | | | |
| | | | |

PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump, Heat Recovery Zone Control

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

(Unit : mm)

| Model | Gas Pipe | Liquid Pipe |
|------------|----------|-------------|
| ARBLN01621 | | |
| ARBLN03321 | | |

| Model | Gas Pipe | Liquid Pipe |
|------------|----------|-------------|
| ARBLN07121 | | |
| ARBLN14521 | | |

| Model | Gas Pipe | Liquid Pipe |
|------------|----------|-------------|
| ARBLN23220 | | |

Specification

Heat Recovery

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

Unit : mm)

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

REFRIGERANT CHARGING KIT

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



Model Name

PRAC1

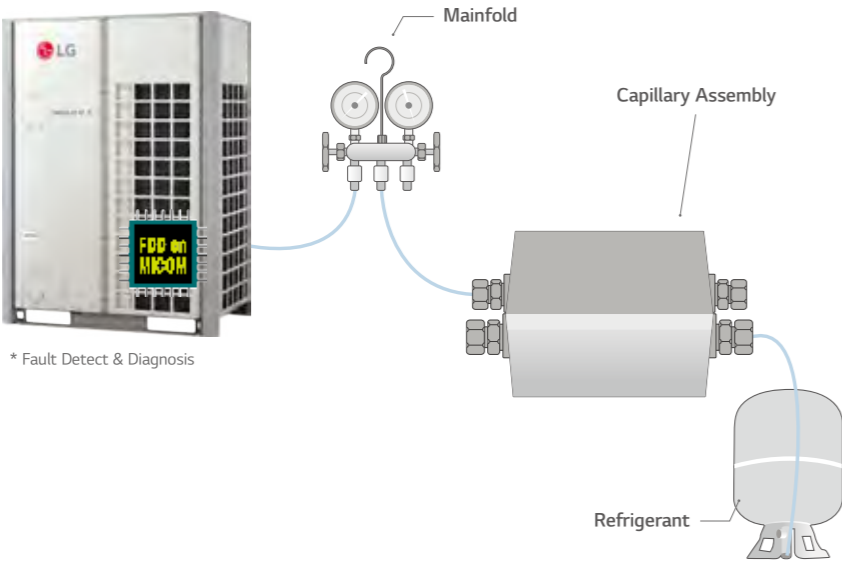
Applied Products

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

How to Use

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

Key Application



DRAIN HOSE

Easy drain installation



Model Name

- PHDHA05T
- PHDHA07T
- PHDHA05B
- PHDHA07B

Applied Products

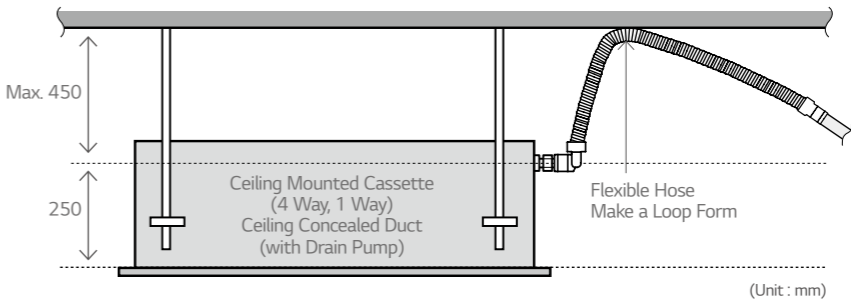
MULTI V Indoor units

Key Features

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

Key Application

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



Specification

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

STOPPER VALVES



Model Name

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

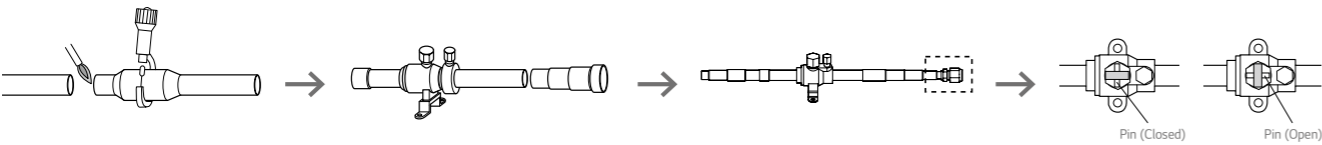
Key Features

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

Specification

| Model | Specification |
|---------|---------------|
| PRVT120 | |
| PRVT780 | |
| PRVT980 | |

How to Install

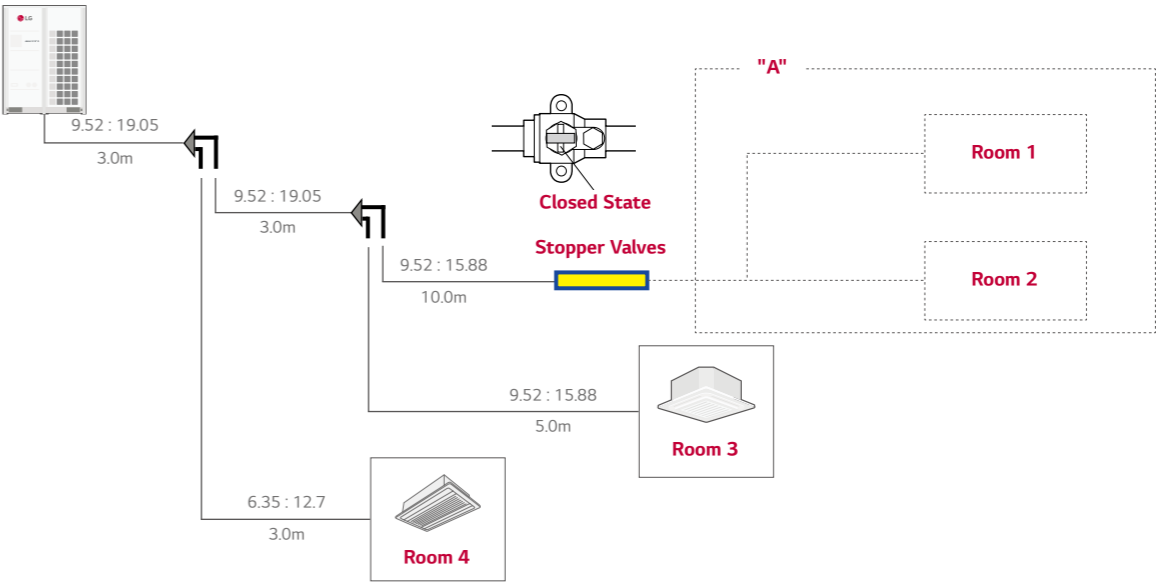


1. Cut the inlet side of the connector, and weld the pipe
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing an additional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



- 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.

