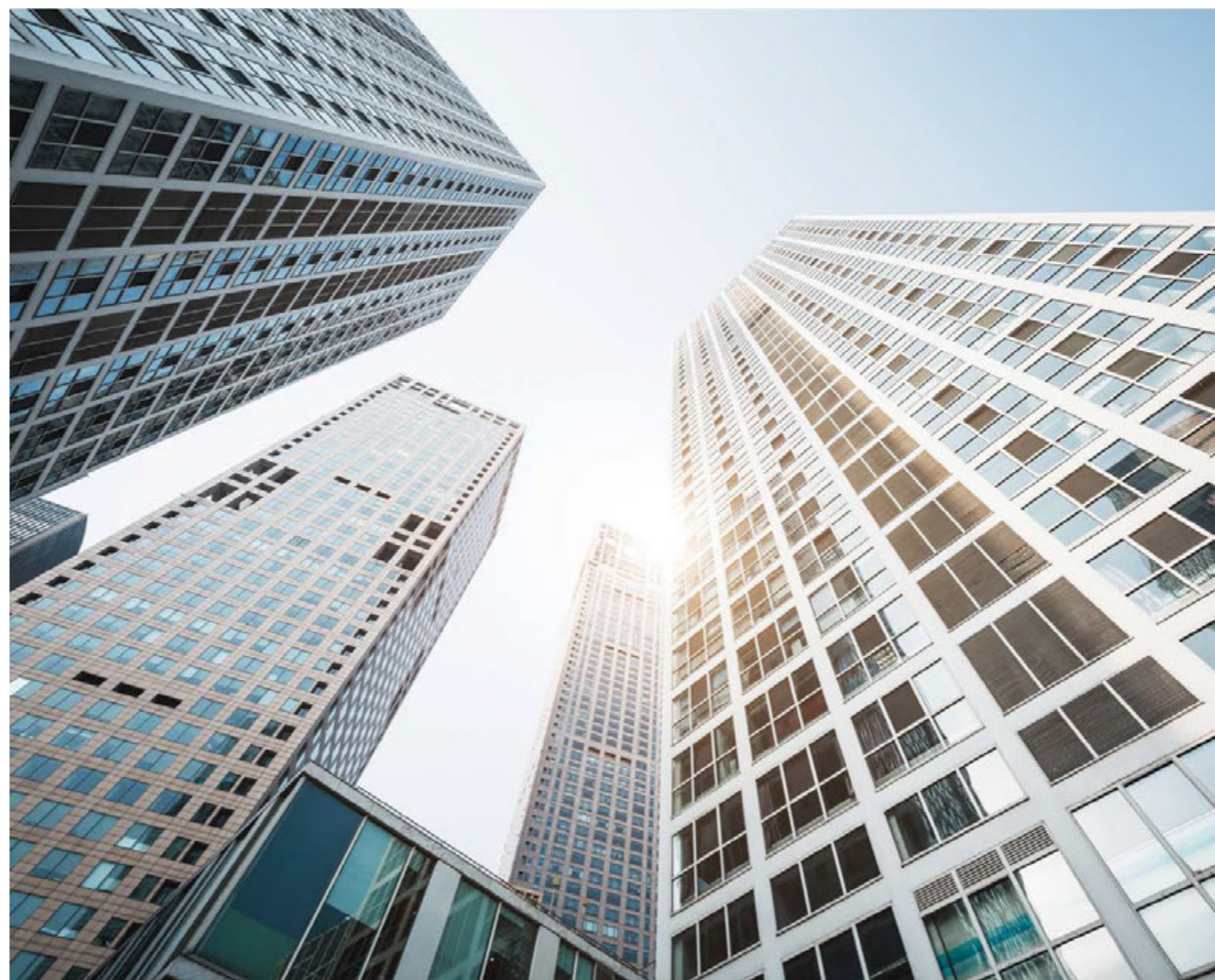


2019 | **MULTI V™**

2019 | LG HVAC SOLUTION

MULTI V™



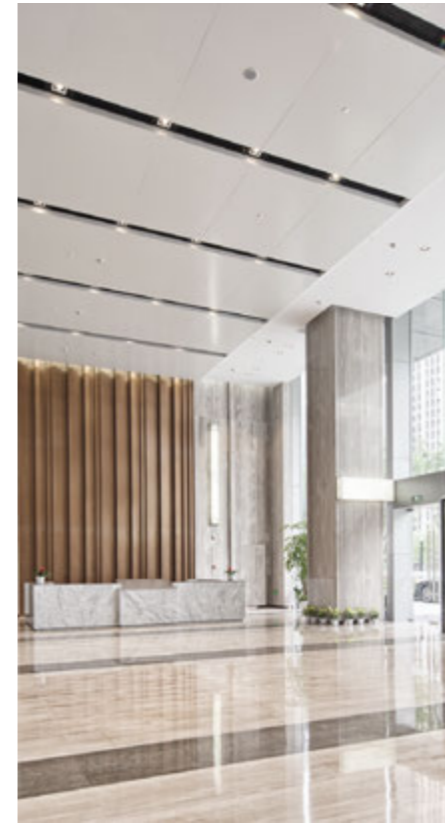
LG Electronics

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

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INDEX



OUTDOOR UNITS

020 - 091

MULTI V 5	022
MULTI V S	048
MULTI V M	060
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY)	066
MULTI V WATER S	088

INDOOR UNITS

092 - 145

WALL MOUNTED UNIT	094
CEILING MOUNTED CASSETTE	104
CEILING CONCEALED DUCT	118
FRESH AIR INTAKE UNIT	130
CEILING & FLOOR CONVERTIBLE UNIT	132
CEILING SUSPENDED UNIT	
CONSOLE & FLOOR STANDING UNIT	136
COMPATIBILITY	142
FEATURE FUNCTIONS	145

HOT WATER SOLUTION

146 - 151

HYDRO KIT	148
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VENTILATION SOLUTIONS

152 - 161

ERV	154
ERV WITH DX COIL	160

CONTROL SOLUTIONS

162 - 213

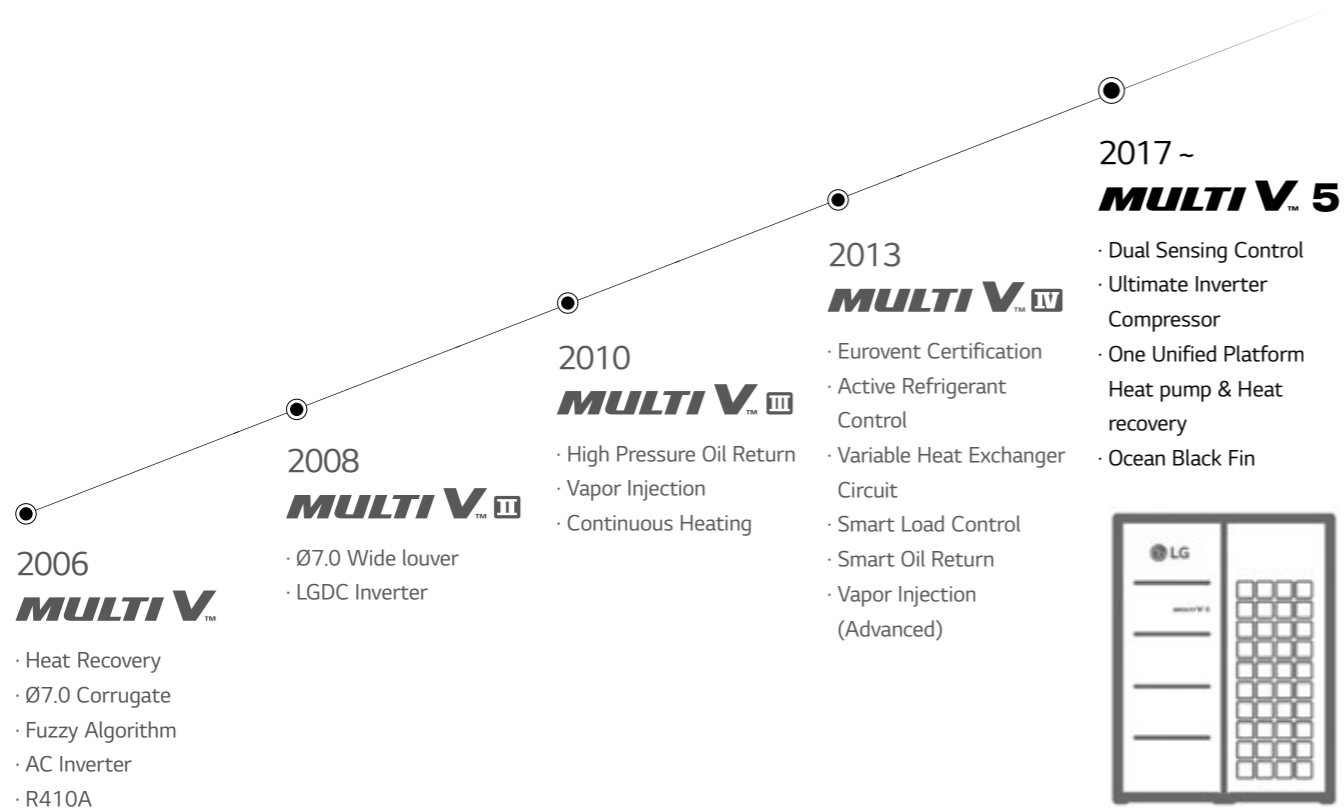
INDIVIDUAL CONTROL	166
CENTRALIZED CONTROL	174
INTEGRATION DEVICE	186

ACCESSORIES

214 - 235

MECHANICAL ACCESSORIES	216
PIPING ACCESSORIES	224

MULTI V BRAND HISTORY



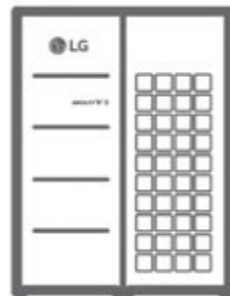
From the moment when LG introduced Korea's first residential air conditioner in 1968, the company has continuously enhanced its technological innovation and credibility. As a result of sustained improvement, LG VRF launched the first generation of MULTI V in 2006 and achieved significant development. With world's top class compressor and innovative technology competency applied on every part, cycle and controlling solutions, it has evolved to be one of the world's most efficient and reliable VRF solutions.

Following the first and second generations with Inverter technology and non-ozone depleting refrigerant, MULTI V III has advanced its efficiency with diverse cutting-edge technologies such as HiPOR™ that directly returns oil to compressor and Vapor Injection that allows double compression by adding mid-pressure refrigerant. The innovative technologies of 4th generation Multi V secured MULTI V brand with product leadership based on efficient system. For example, Smart Load Control that controls operational load according to external temperature. The other technology is optimized to manage refrigerant and heat exchange for cooling or heating.

Moreover, Multi V's wide range of VRF line-up satisfies various types and sizes of buildings; MULTI V S is the VRF with side discharge, designed for small to mid-sized building and MULTI V WATER is the water-cooled VRF solution with variable water flow controlling technology.

In 2017, the time has arrived for the ultimate VRF system, MULTI V 5. This generation has fully improved its technological potential with ever powerful and reliable yet economical LG's Ultimate Inverter Compressor, Ocean Black Fin with the most effective corrosion resistance performance and biomimetics technology-applied, enlarged fans. At the same time, the Dual Sensing Control offers users the most pleasant environment while minimizing the unnecessary energy loss with system that senses both the temperature and humidity to efficiently manage cooling, heating and part load operations.

With MULTI V 5 that has been solely designed for the ultimate efficiency, performance, flexibility, comfort and control, we are highly confident to bring the ultimate pleasant air 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 equipments. 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.



LG Energy Lab in Europe

Committed to meet all requirements regarding energy efficiency and environmental demands, LG has invested in its own testing facility named the LG Energy Lab. LG Energy Lab is an innovative site dedicated to commercial and residential products for heating, ventilation and the latest energy efficient air conditioning solutions. Also as a showcase, LG Energy Lab is equipped with complete monitoring and control systems. The performance of all products will be tracked and analyzed by a team of Research and Development engineers based in France and Korea, ensuring efficiency and reliability during the whole product lifecycle.



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: I. Draft Energy Estimation & Energy Modeling, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers a faster, easier, and a more accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

* LATS : LG Air-conditioner Technical Solution



I

Energy Estimation & Energy Modeling



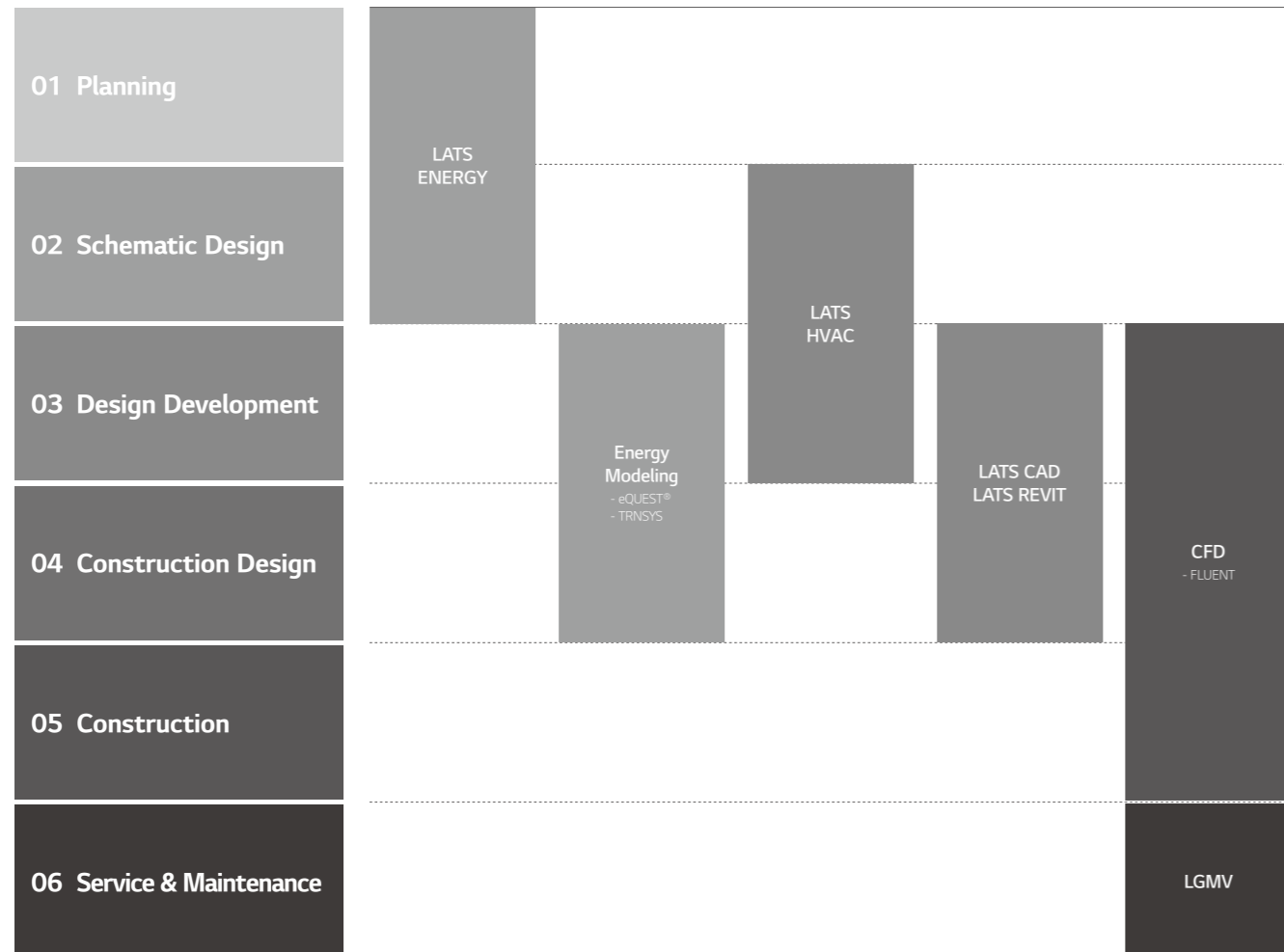
II

Model Selection & Design



III

Installation Environment Simulation



01 Draft Energy Estimation

LATS Energy

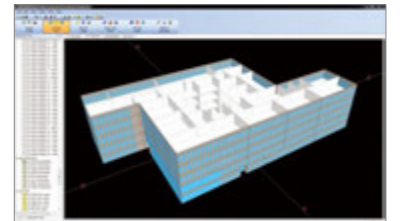
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project.



02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

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



03 Model Selection

LATS HVAC

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



04 Design

LATS CAD

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

* AutoCAD program is required.



LATS Revit

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

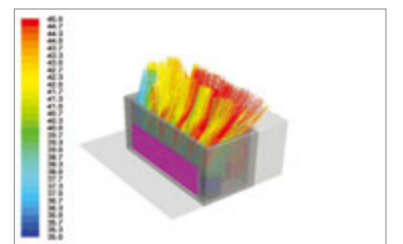
* AutoCAD Revit program is required.



05 Environment Simulation

CFD Analysis

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



06 Service & Maintenance

LGMV

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



BENEFITS OF LG MULTI V

Benefits for Building owners



Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance
- Requires no extra manpower for regular maintenance
- With diverse control systems, maintenance cost is minimized



Reliability Guaranteed in Every Aspect

- 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 Developers / Construction companies



Green Solutions

- Helps scoring LEED/BREAEM points
- Renewable energy solution provided through geothermal application



Maximizing Space Utilization

- Large Capacity in compact size enhances space utilization



Smart Building Solutions

- Easy interlocking with Building Management System
- Wi-fi control available for anytime anywhere (via mobile app. "LG SmartThinQ")
- Energy management and control according to usage and planning is possible with LG's centralized control solution



Benefits for Consultants



Versatile Solutions

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



Professional Designing Support

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



Optimized Comfort in HVAC 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 End-users



Cost Saving Operation

- High efficiency is assured in all line up
- Maximum 31% of cost saved through Multi V 5 Smart Load Control*



Comfortable Cooling & Heating

- Smart Load Control maximizes indoor comfort level
- Dual sensing 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

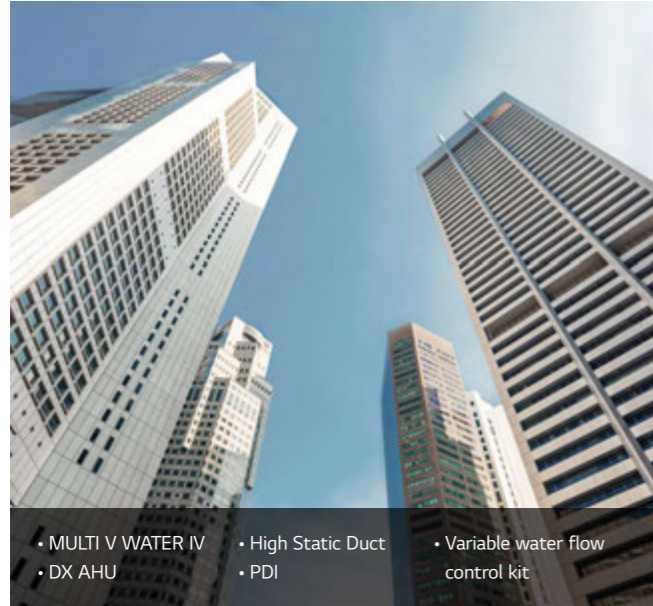
* Dual Smart Load Control ESEER based, below 50% humidity, model ARUM260LTE5
 ** LG internal test result



APPLICATION SOLUTIONS

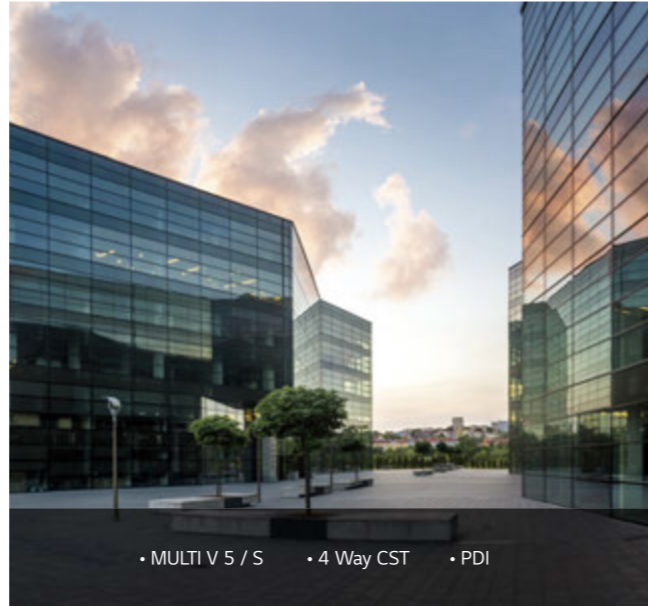
Office Supporting efficiency with flexibility

High Rise Office Building



- MULTI V WATER IV
- DX AHU
- High Static Duct
- PDI
- Variable water flow control kit

Small to Medium sized Office Building



- MULTI V S / S
- 4 Way CST
- PDI

MULTI V series vitalizes the workspace with fresh air at all time, combined with its various indoor selection. The intelligent control solutions add comfort to the space.

Commercial Maximize business, minimize costs

Shopping Mall



- MULTI V 5
- DX AHU

Retail



- MULTI V M
- ERV
- Convertible

QSR



- MULTI V M
- ERV
- Hydro Kit
- 4 Way CST

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 Home is where your comfort is

Condominium & Apartments



- MULTI V S HR
- Hydro Kit
- 1/2 Way CST
- 3rd party controller RTU gateway

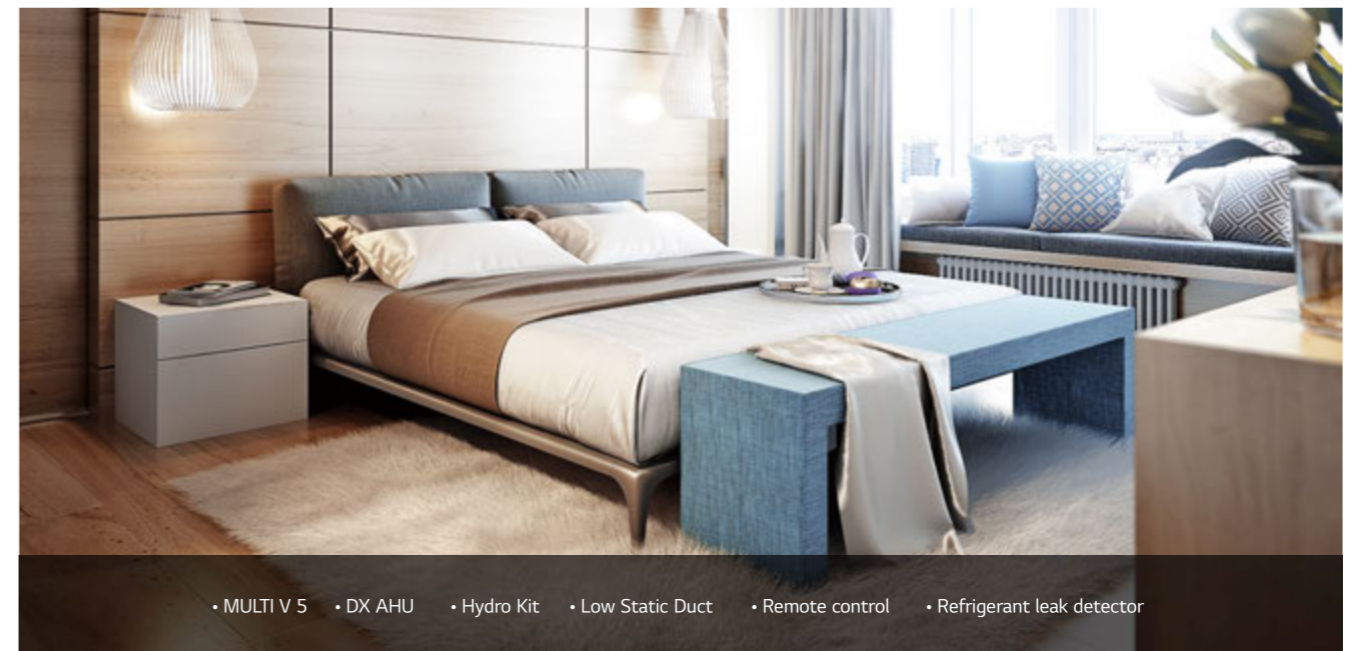
Single Family House & Villa



- MULTI V S
- Therma V
- ESS & PV Solar

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 in every aspect



- MULTI V 5
- DX AHU
- Hydro Kit
- Low Static Duct
- Remote control
- Refrigerant leak detector

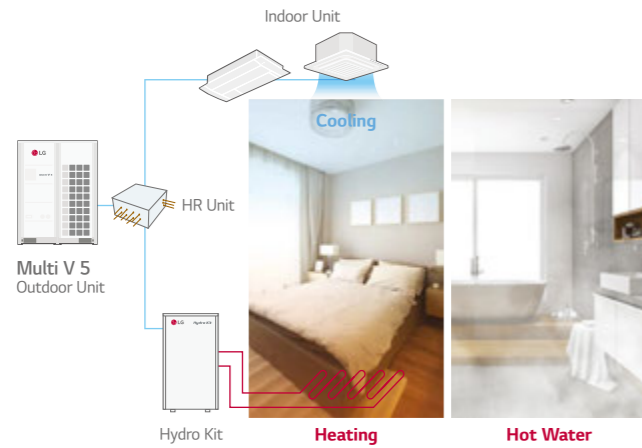
The diverse applications that can be applied to MULTI V 5 helps bring just the right solution to a sophisticated hotel business.

* ESS : Energy Storage System * PV : Photovoltaics

DIVERSE INTEGRATED SOLUTION

Hot Water Solution

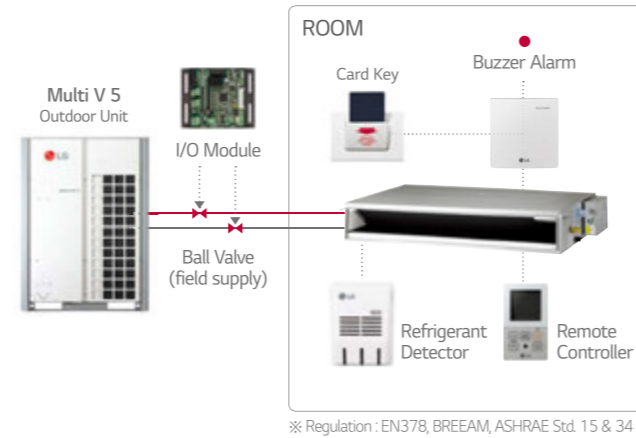
Cost of hot water can be reduced with heat pump system, which is highly efficient compared to a boiler system. The Hydro kit can be connected to Multi V 5, and hot water temperatures up to 80°C can be provided. Also energy saving can be increased when Hydro kit is combined with Multi V 5 Heat Recovery.



Refrigerant Leak Detection Solution

Real time refrigerant leak detection is needed for a safe environment. When the refrigerant concentration exceeds 6,000ppm for 5 seconds the indoor unit will stop operation and can also give an alarm using a buzzer or a light with the dry contact (option). The central controller can also display an error signal.

* When the solution for refrigerant leak detection is required, contact LG and discuss the requirement.



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

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.



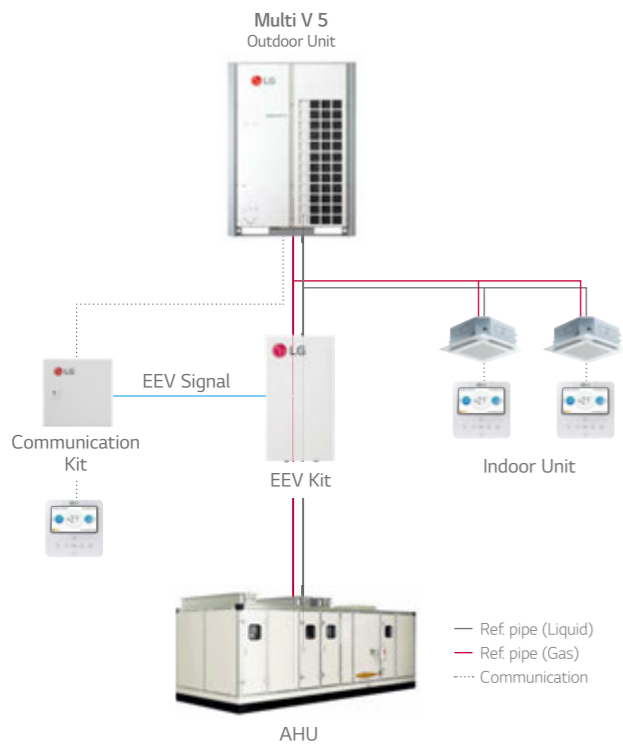
Interlocking Solution by Using ACS IO Module

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



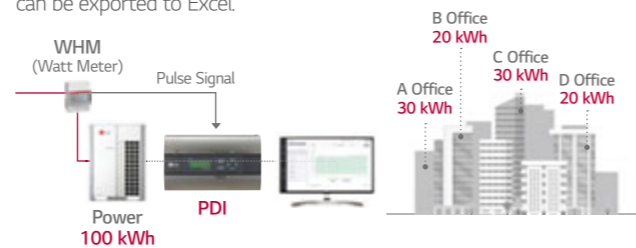
Air Handling Unit (AHU) Solution

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.



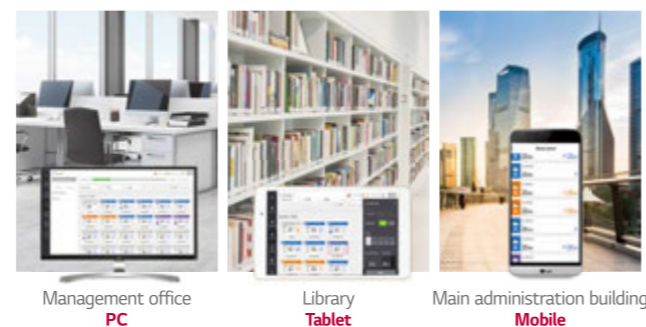
Power Consumption Distribution Solution

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.



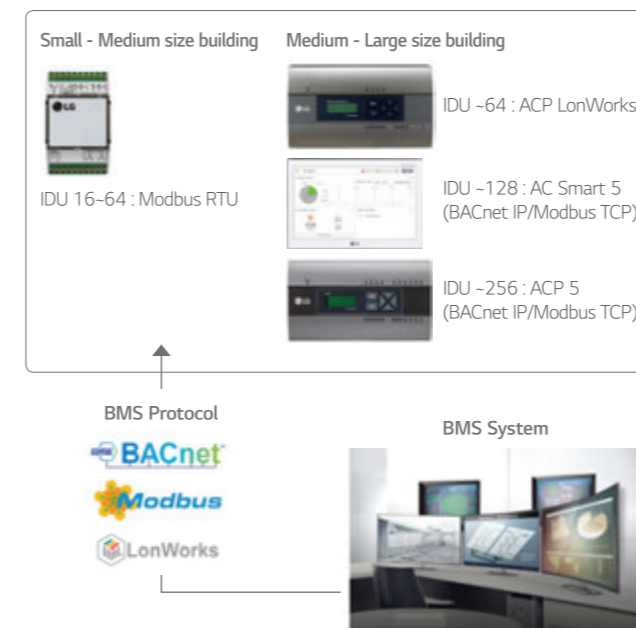
Total Control on Any Device

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 of your devices.



Integration Solution with BMS

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



Interlocking Solution Using Dry Contact

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

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

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



LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White) PREMTB100	PQRCVCLQW	PQWRHQ0FDB	AC Ez PQCSZ250S0 (Indoor Unit -32)	ACP 5 PACPSA000 (Indoor Unit -256)	ACP Lonworks PLNWKB000 (Indoor Unit -64)
Standard III (Black) PREMTBB10	PQRCVCLQ	Wi-Fi Controller LG Wi-Fi Modem For Indoor Unit PWFMD200	AC Ez Touch PACEZA000 (Indoor Unit -64)	AC Manager 5 PACMSA000 (Indoor Unit -8,192)	Modbus RTU Gateway PMBUSB00A
Standard II (White) PREMTB001	PQRCHCA0QW (Simple for Hotel)		AC Smart 5 PACSSA000 (Indoor Unit -128)	KNX Gateway LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	KNX Gateway LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64
Standard II (Black) PREMTBB01	PQRCHCA0Q (Simple for Hotel)			PI-485 For Indoor Unit (ERV) PHNFP14A0	PI-485 For Indoor Unit (ERV) PHNFP14A0
Premium PREMTA000 PREMTA000A PREMTA000B					

Note
 1. AC Smart 5 & ACP 5 provides BACnet IP / Modbus TCP
 2. KNX Gateway is provided by INTESIS

CENTRALIZED CONTROL	INTEGRATION DEVICE			
Facility Integrator	Indoor Unit		Outdoor Unit	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator) Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	Simple Dry Contact PDRYCB000	Group Control Wire PZCWRCG3	IO Module (Input / Output Module) For MULTI V 5 PVDSMN000	Communication Kit Return/Room Air control PAHCMR000
ACS IO Module (Input / Output Module) PEXPMB000	Dry Contact for Thermostat PDRYCB300	Remote Temperature Sensor PQRSTA0	Variable Water Flow Control kit For MULTI V WATER IV PWFCKN000	Discharge Air control PAHCMS000
Chiller Option Kit PCHILLN000	2 Points Dry Contact (For Setback) PDRYCB400	Low Profile Remote Temperature Button Sensor ZRTBS01	Low Ambient Kit For MULTI V IV, 5 PRVC2	Control kit PRCKD21E (- 4 ODU) PRCKD41E (- 8 ODU)
ACU IO Module NEW UIO PEXP300	For Modbus PDRYCB500	Zone Controller 4 Zones by thermostat ABZCA	Cool / Heat Selector PRDSBM	EEV Kit (Electronic Expansion Valve) PRLK048A0 (- 10HP) PRLK096A0 (- 20HP)
NEW UO PEXP200				TXV Kit (Thermal Expansion Valve) PATX13A0E (8 - 16HP) PATX20A0E (18 - 26HP) PATX25A0E (28 - 36 HP) PATX35A0E (38 - 46 HP) PATX50A0E (48 - 56 HP)
NEW UI PEXP100				

OUTDOOR UNITS

MULTI V 5 / MULTI V S / MULTI V M

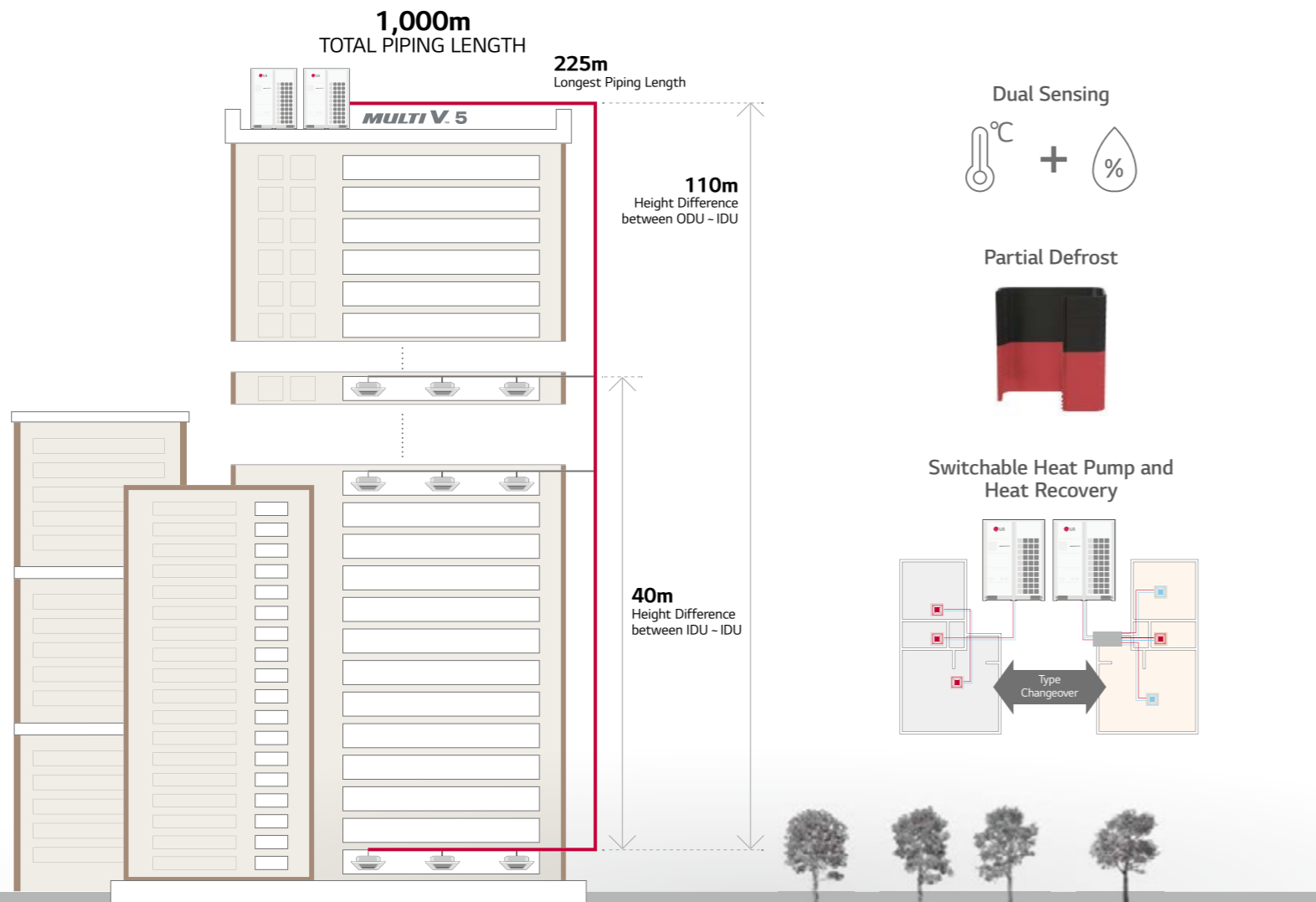
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY) /

MULTI V WATER S



MULTI V 5

- Air cooled VRF Heat Pump & Heat Recovery
- 22.4kW ~ 268.8kW (Cooling capacity based)
- 3Φ, 380 ~ 415V, 50 ~ 60Hz
- Top discharge outdoor unit
- Ability to function as Heat Pump or Heat Recovery



Features & Benefits

- Ultimate energy saving with Dual Sensing Control
- Certified corrosion resistance for heat exchanger
- Heat pump and heat recovery are interchangeable with one platform
- Includes low noise operation mode

Key Applications

- High rise up to 110M building
- Large commercial office and shopping mall
- Individually and simultaneous operation at premium hotel
- Capable of replacing large chiller facilities

CREATIVE TECHNOLOGIES

Dual Sensing SLC (Smart Load Control)

Enhanced energy saving & increased indoor Comfort

Cooling loads vary according to both temperature and humidity. With Dual sensing SLC, the proper amount of work can be exerted to meet the load not only depending on current temperature, but also on humidity. As a result, less capacity will be needed at the same temperature when humidity is lower.

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

Smart Load Control monitors two inputs

- 1) Outdoor ambient dry bulb temperature
- 2) 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?

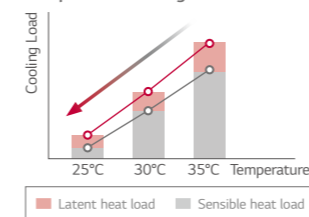
Enhanced energy savings

- **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.

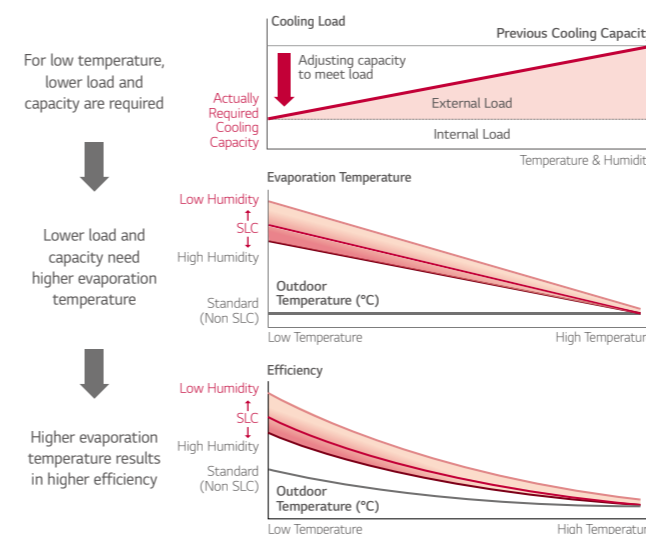
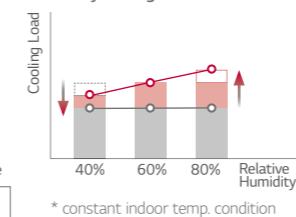
Increased indoor comfort

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 the changed conditions have a chance to impact indoor comfort.

Cooling load according to temperature change



Cooling load according to humidity change



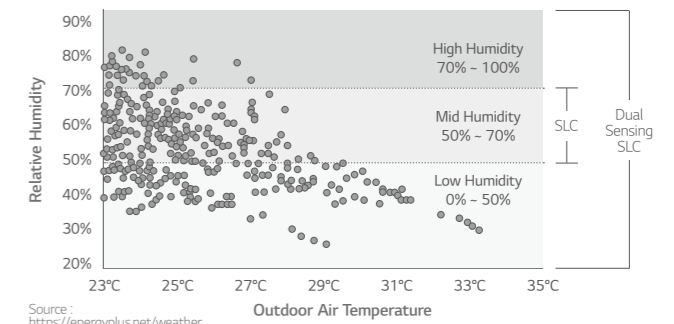
Energy Saving by Dual (Temperature & Humidity) Sensing Control

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

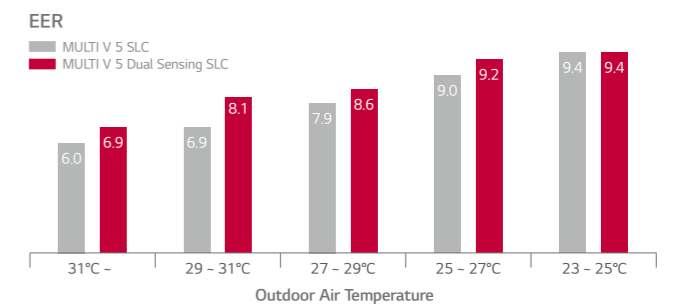


Time Portion of Relative Humidity in Summer (Warsaw, Poland)

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.



* 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

CREATIVE TECHNOLOGIES

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

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.

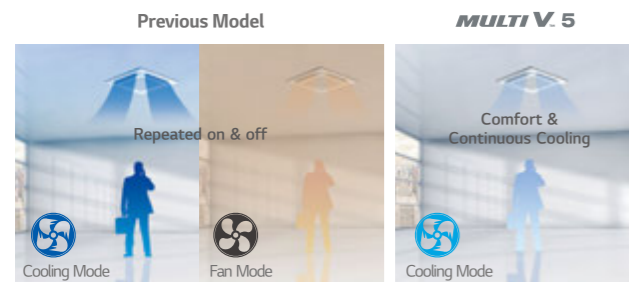
What are the benefits?

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

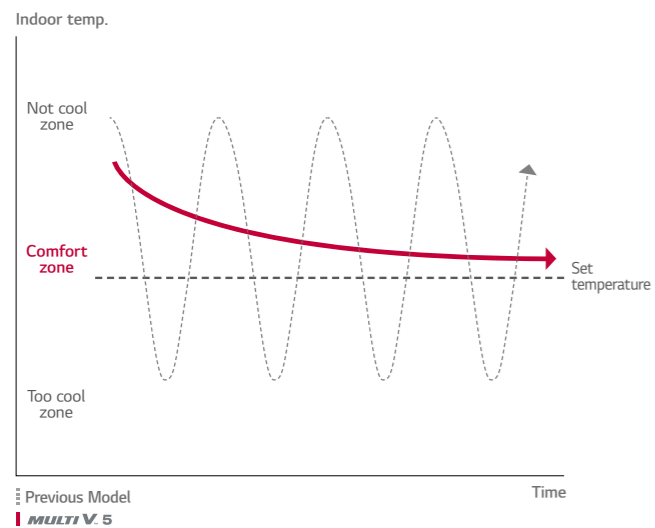
Raising superheat reduces refrigerant volume flowing through the coil. As flow decreases, demand on the compressor decreases and the compressor speed will be reduced, thus saving energy.



* Indoor unit set up available with Standard III Remote Controller

Preventing cold draft & repeated turn On / Offs

Improved Indoor Comfort



Intelligent Defrost

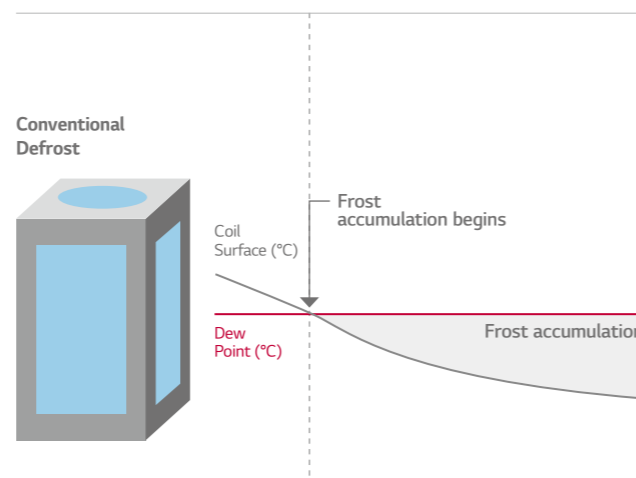
Increased heating run-hours

MULTI V 5 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.

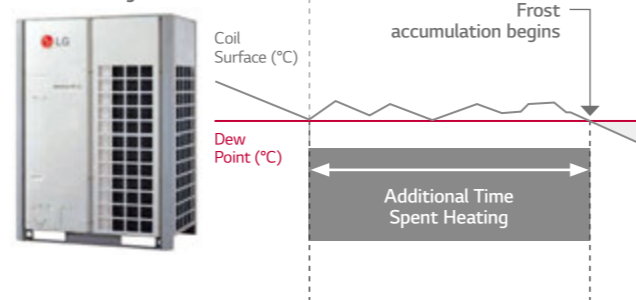
MULTI V 5 computes the current ambient air dew point temperature - the temperature at which frost will form on the outdoor unit coil in winter operation. MULTI V 5 makes continuous adjustments to the refrigeration cycle operating parameters to keep the outdoor coil surface temperature above actual dew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

What are the benefits?

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



LG Intelligent Defrost / Smart Heating



Increased heating operation time per day: Up to 17%
 • LG Internal Test result,
 • Test condition (MULTI V 5 vs MULTI V IV, 22HP)
 - Outdoor: 2/1°C, Indoor: 20/15°C
 - Humidity: 83%, Dew Point: -0.5°C

Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

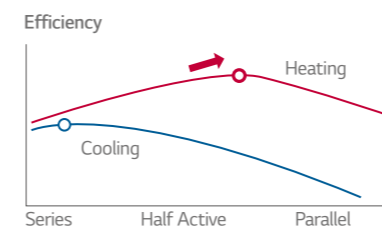
MULTI V 5 outdoor units are manufactured with horizontally split ODU coil consisting of two independent circuit sections. Each half of the coil is independently controlled.

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.

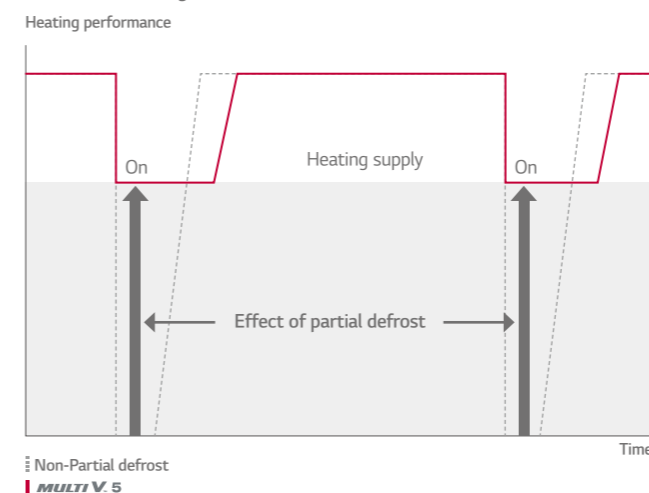
What are the benefits?

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



Continuous Heating



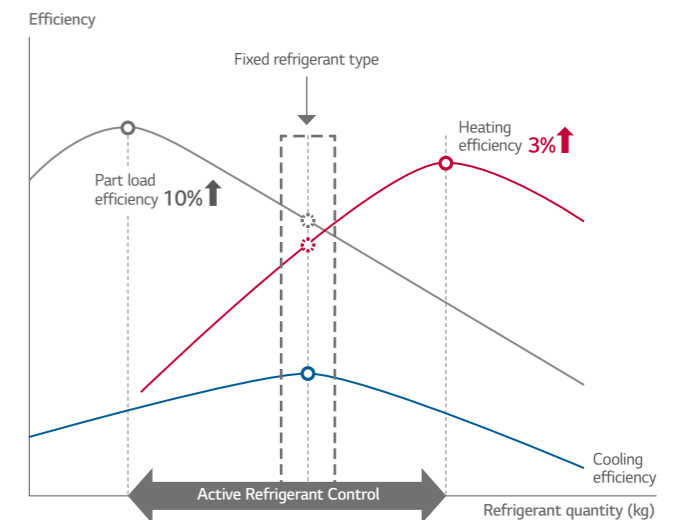
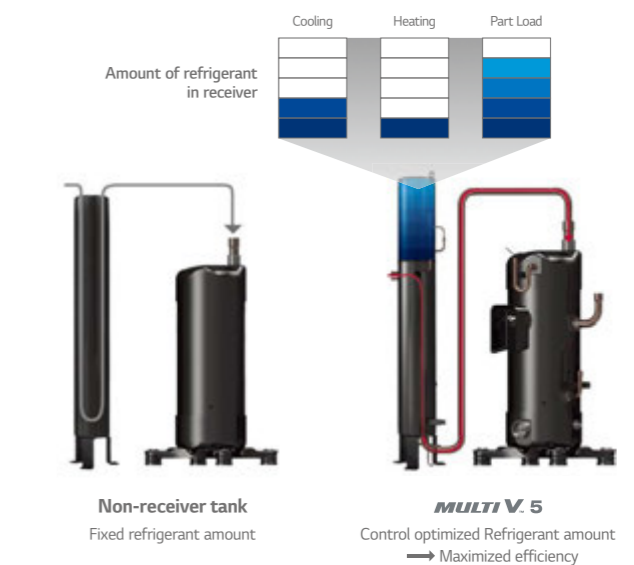
Active Refrigerant Control

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.



CREATIVE TECHNOLOGIES

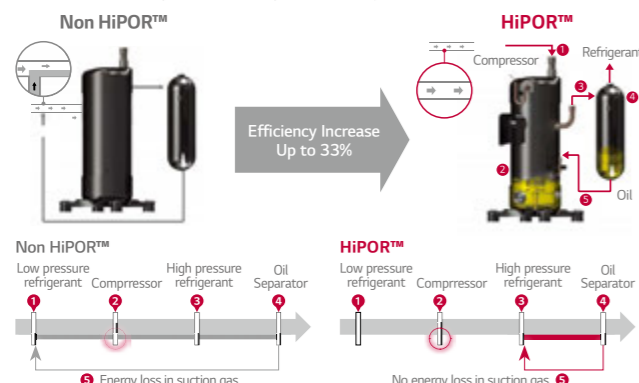
HiPOR™

Maximized reliability & efficiency of compressor

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 does not waste energy when oil flows between the separator and the compressor. Because the operating pressure in the chamber containing the oil sump of the compressor and the pressure in the oil separator are nearly equal, there is no loss in compressor efficiency.

What are the benefits?

Maximizes reliability and efficiency of the compressor



- LG Internal Test result,
- Test condition - 15Hz Rating Condition : TC = 37.9C°, Te: 7.2C

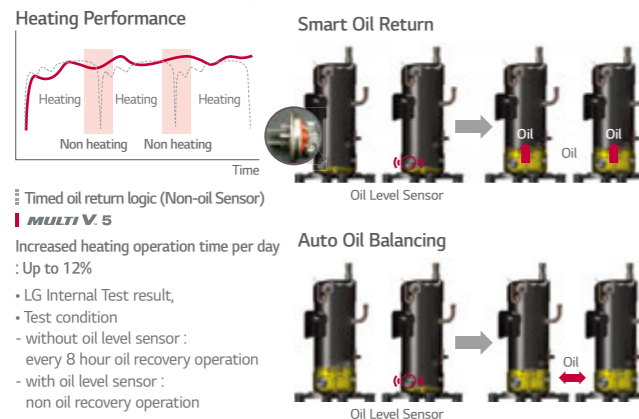
Smart Oil Management

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



Sub-cooling & Vapor Injection

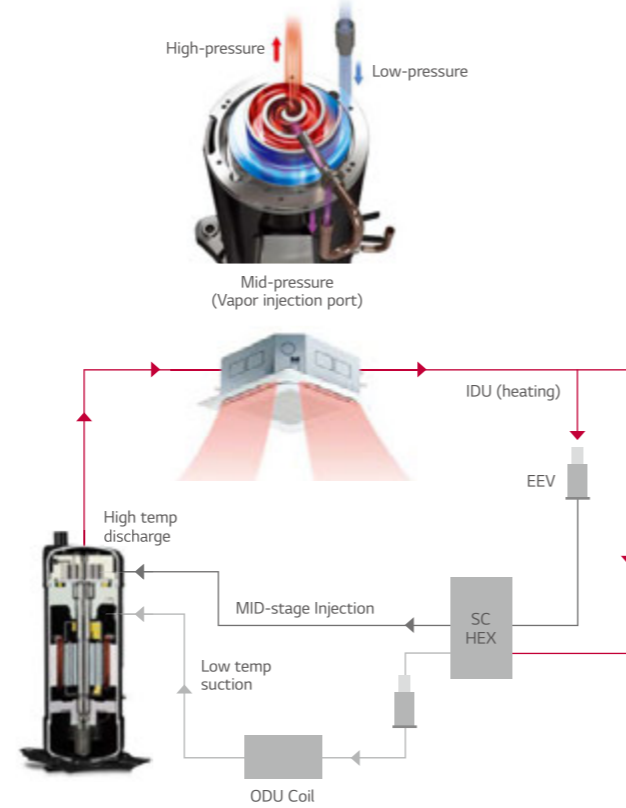
Increased heating performance

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.

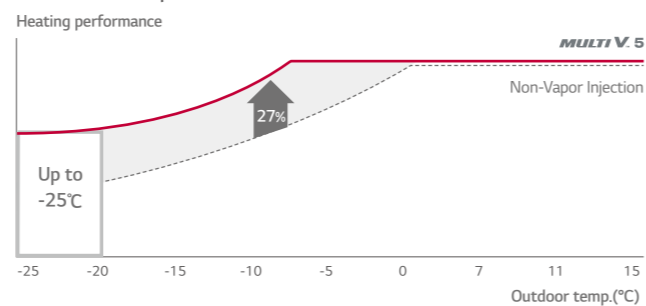
What are the benefits?

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



Performance Comparison



* Improved heating performance by 27%
* Comparison tested on 10HP model

Ocean Black Fin

Improved durability

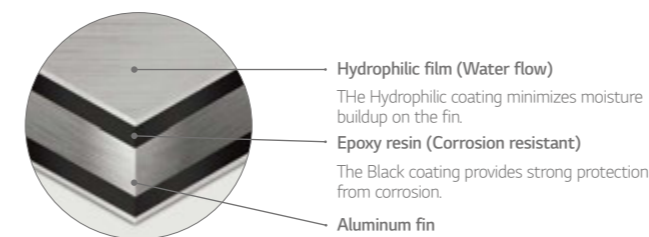
The black coating with enhanced epoxy resin is applied on the heat exchanger for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup 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, UL (Underwriters Laboratories).

What are the benefits?

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



* Tested by Method B
(Test condition: Salt contaminated condition + severe industrial / traffic environment (NO₂ / SO₂))



Condition of salt spray test

Temperature	35°C
Mist of 5% NaCl (mass fraction) solution	

Condition of gas exposure test

Temp.	Relative Humidity	Gas Volume Fraction	
		NO ₂	SO ₂
25°C	95%	10 x 10 ⁻⁶	5 x 10 ⁻⁶

Biomimetic Fan

Maximized performance

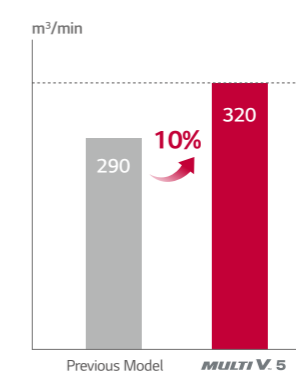
MULTI V 5 outdoor units fans have been upgraded. The moire pattern from external texture of clam shells has been applied on fans to create the range difference that results in reduction of noise level. At the same time, unlike the fans installed in previous products that generate separation of flow due to absence of tubercles, the bumpy back design inspired by the bumps on the humpback whale's flipper is applied as the tubercles on the back side of the fans, increasing wind power by reducing flapping. 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.

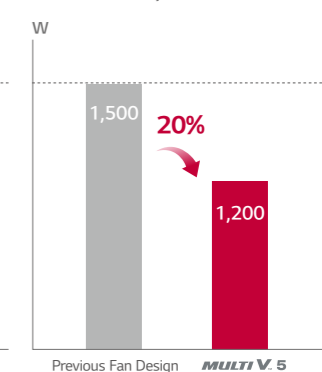


Air flow rate



* Comparison based on 20HP model

Power consumption



* Comparison based on air volume of 290m³/min

DESIGN FLEXIBILITY

One Unified Model

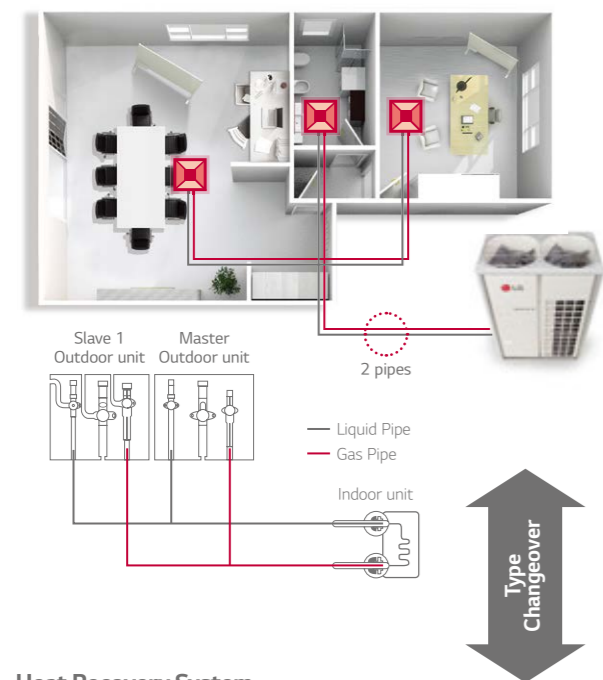
Heat pump / Heat recovery with one platform

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. By providing suitable solutions that cater to any building types and their requirements, MULTI V 5 offers the best HVAC system.

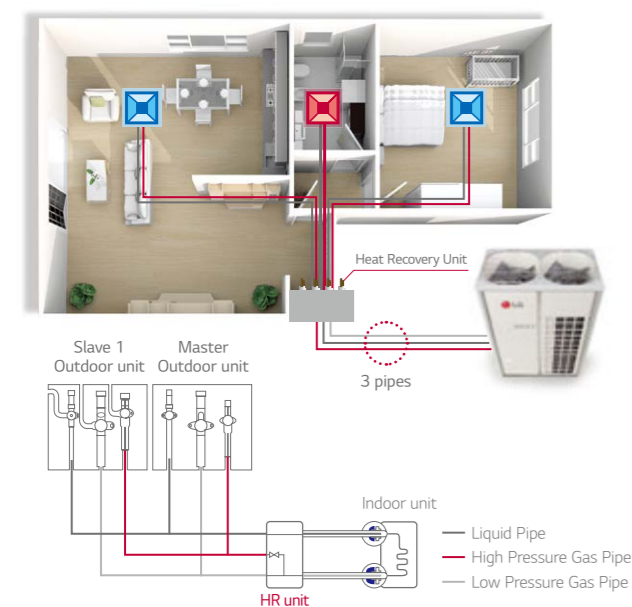
What are the benefits?

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



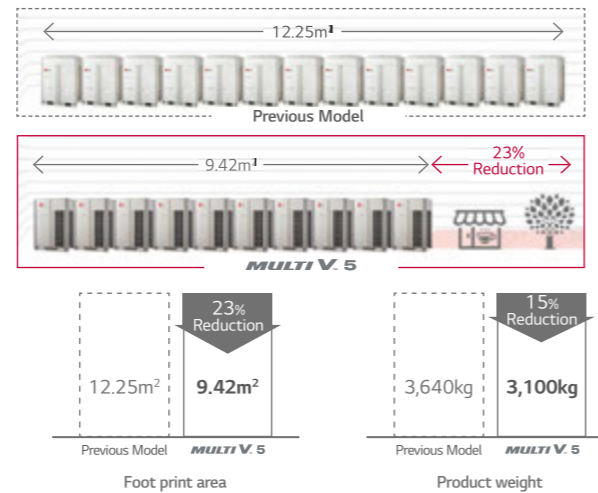
Heat Recovery System



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.

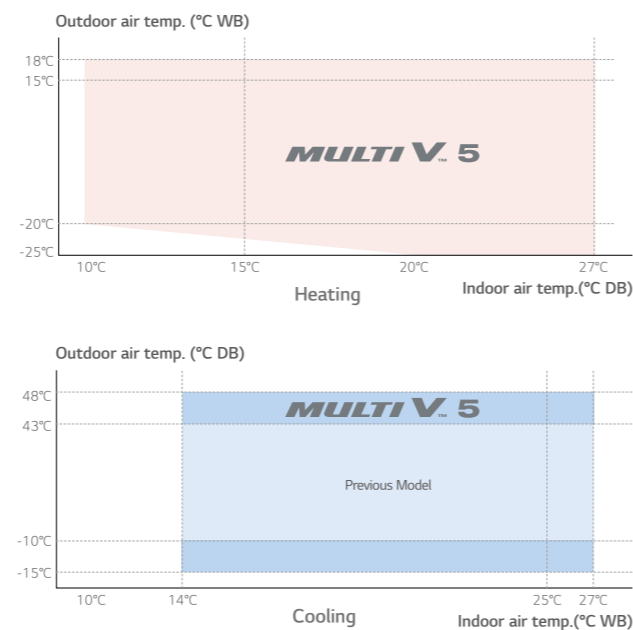


* Comparison basis : 1 Rows of outdoor units 728kW (72.8kW x 10sets) installation case

Wider Operation Range

Able to operate at extreme conditions

With enhanced inverter compressor and control technology coming from improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 has achieved extended range of cooling and heating operations. For heating, it can operate at as low as -25°C to perform properly even at very cold environment. It is improved perfectly to fully function at extreme conditions such as performing cooling operation at -15°C, making the product adequate for uses in specialized venues 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.



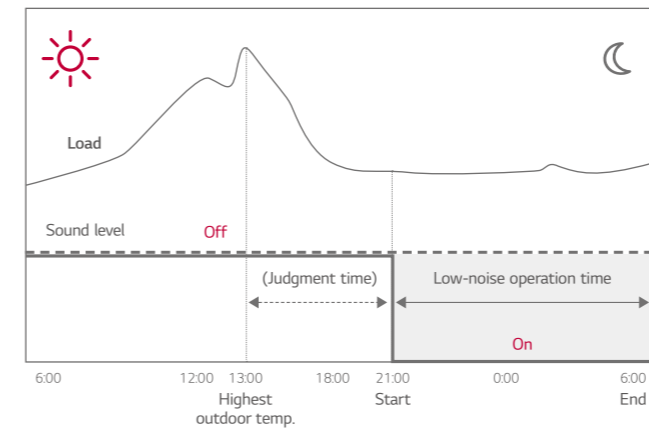
USER-FRIENDLY CONTROL

Low-Noise Operation

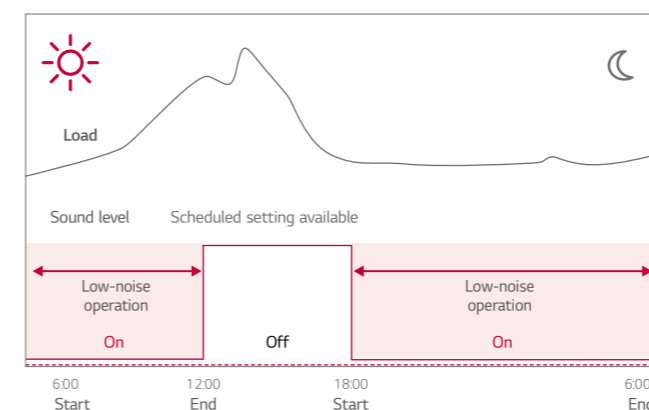
For noise sensitive environment

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



Model (HP)	8 - 12HP	14 - 20HP	22 - 26HP
Step	Sound Pressure, dB(A)		
1	55	59	60
2	52	56	57
3	49	53	55

* Capacity could be decreased during Low-Noise operation.

Simple Test Run via LGMV

Increased overall efficiency in installation

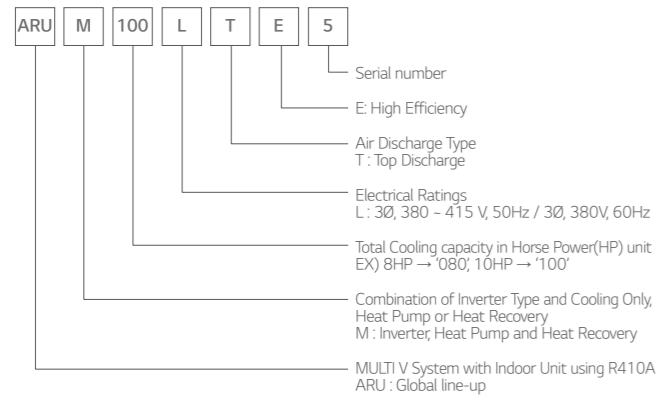
To make sure that the product functions properly, conducting a test run is recommended. For previous product, professional engineer who is well-aware of more than 40 different functional settings and more than 200 error codes had to check main parts in order to make sure that the test run had succeeded. 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

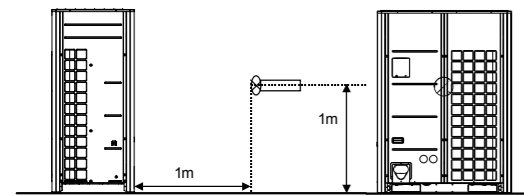
LGMV



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.

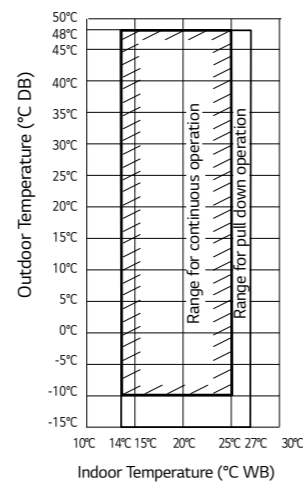
Outside Unit Function

Category	Functions	MULTI V 5
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	○
	HiPOR™ (High Pressure Oil Return)	○
	Humidity Sensor	○
	Anti Corrosion Black Fin	○
	Oil Sensor	○
Useful Function	Dual Sensing	○
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	○
	Auto 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	○
	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	PACSSA000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP Lonworks	PLNWKB000
	ACP BACnet	PQNF17C0
Installation	Refrigerant Charging Kit	PRAC1
	Variable Water Flow Valve Control Kit	-
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Low Ambient Kit		PRVC2
IO Module (ODU Dry Contact)		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTI0
	Mobile LGMV	PLGMVW100

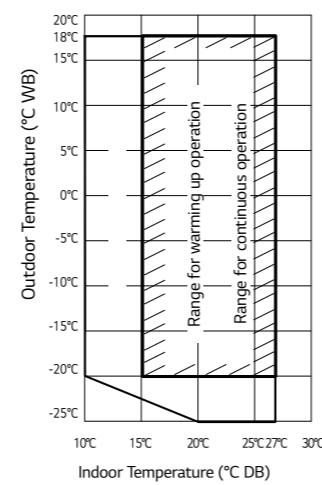
※ ○ : Applied, - : Not Applied

Cooling / Heating Operation

Cooling



Heating

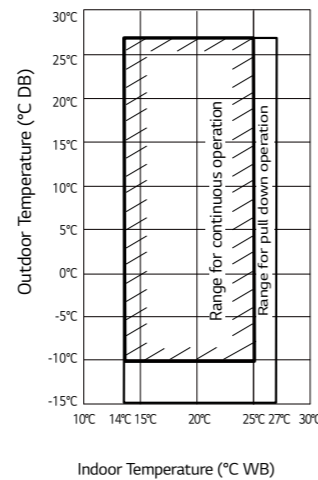


Note

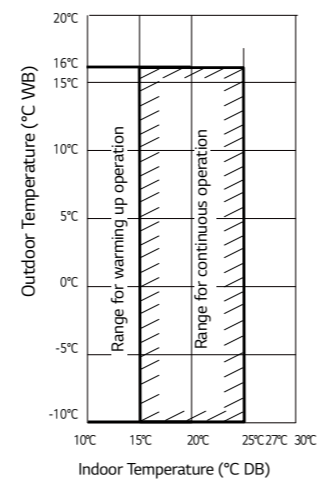
- These figures assume the following operating conditions:
Equivalent piping length : 7.5m
Level difference : 0m
- Range of pull down operation :
If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.

Simultaneous Cooling / Heating Operation

Cooling



Heating

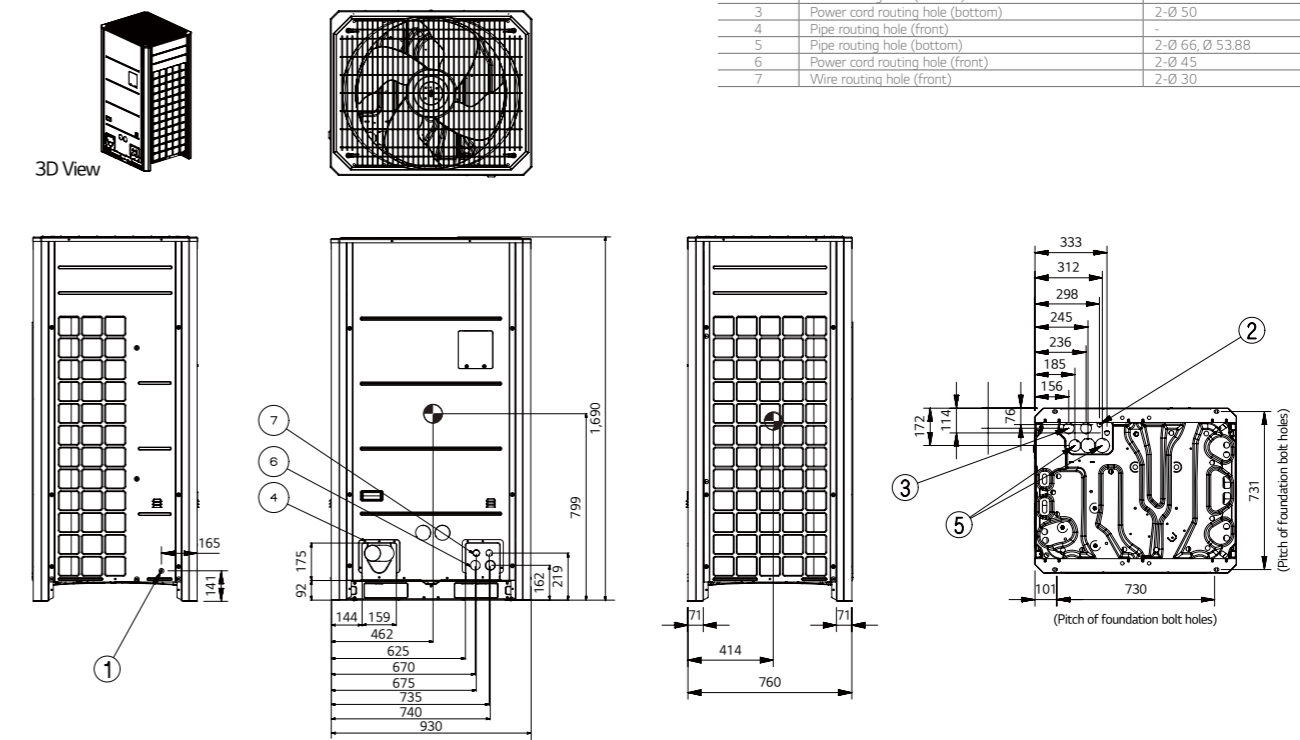


Note

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

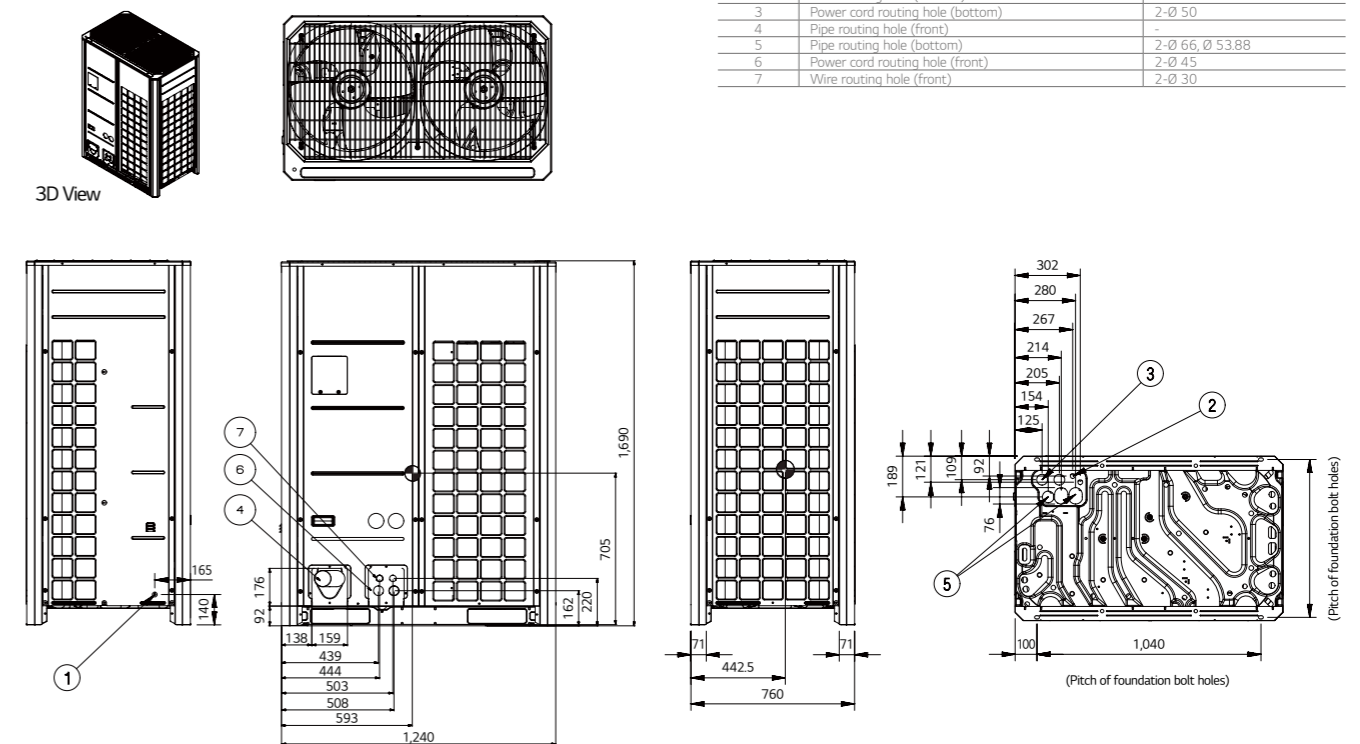
[Unit : mm]



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?

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%	50 ~ 200%
	2 Unit	50 ~ 160%	50 ~ 160%
	3 or 4 Units	50 ~ 130%	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.

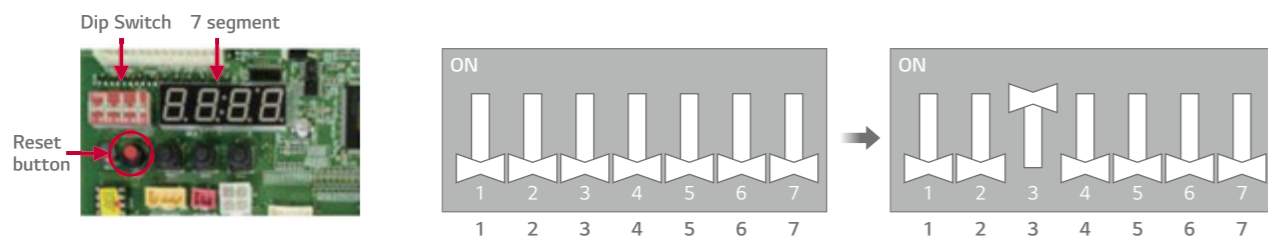
ODU	IDU	Compatibility	ODU DIP Switch No. 3	If dip switch setting is not correct	Ref.
MULTI V IV MULTI V 5	Gen. 2 (ARNU*2)	○	Must be OFF (factory default)	Can not communicate between Indoor & Outdoor unit (System will not be operated)	
	Gen. 4 (ARNU*4)	○	Must be ON to enable gen. 4 functions	When Dip 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)

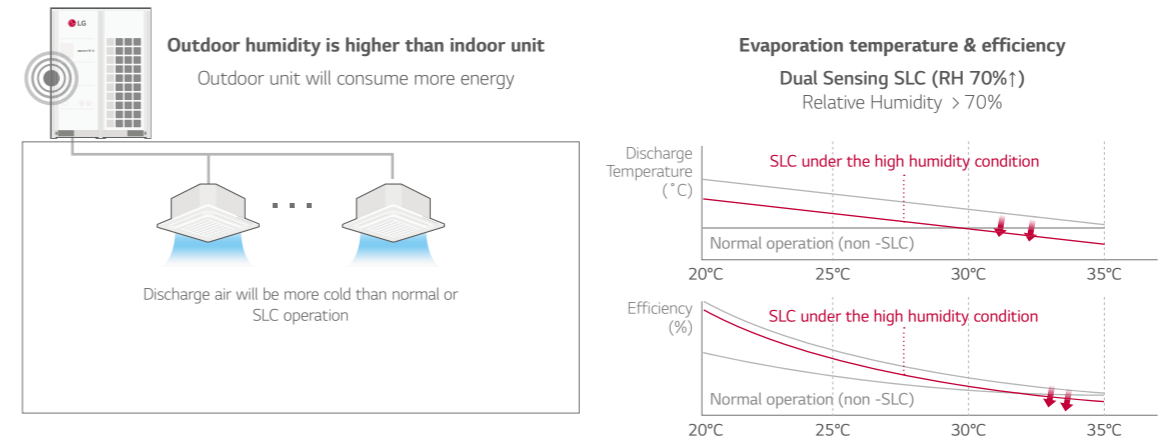
ODU main PCB dip switch is all "OFF" at default state

- (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.

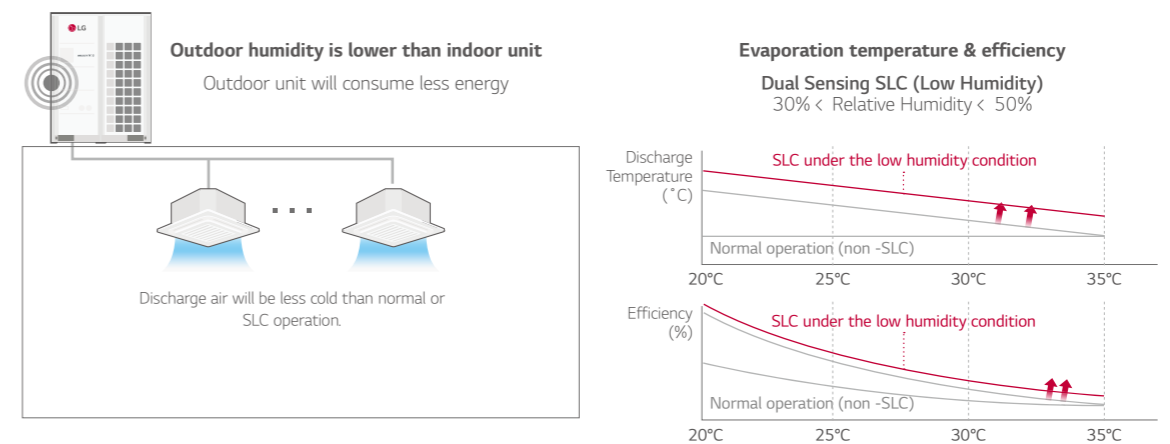


Q3 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?

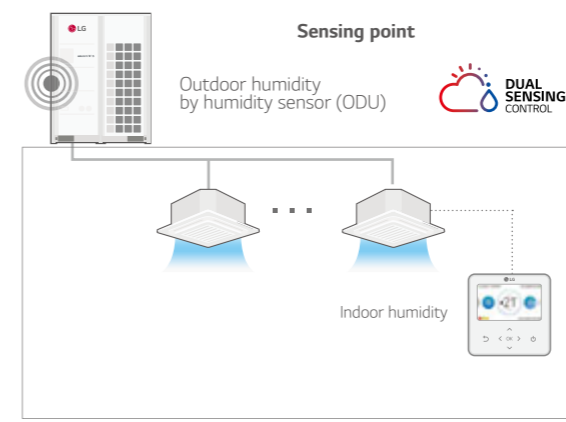
A3 During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode.
 - When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more 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 keep comfort and save energy you may turn off outdoor unit humidity sensing or propose to install new standard remote controller in order to sensing indoor humidity.



SLC Setting

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

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)

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

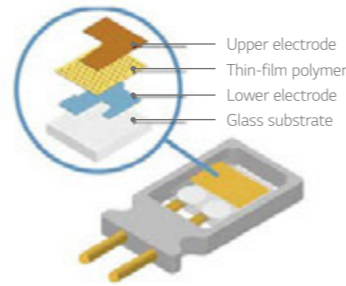
※ User can turn off humidity control in ODU Setting (humidity reference) <Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

MULTI V 5 Q&A

Q4 What is the principle and accuracy of humidity sensor?

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

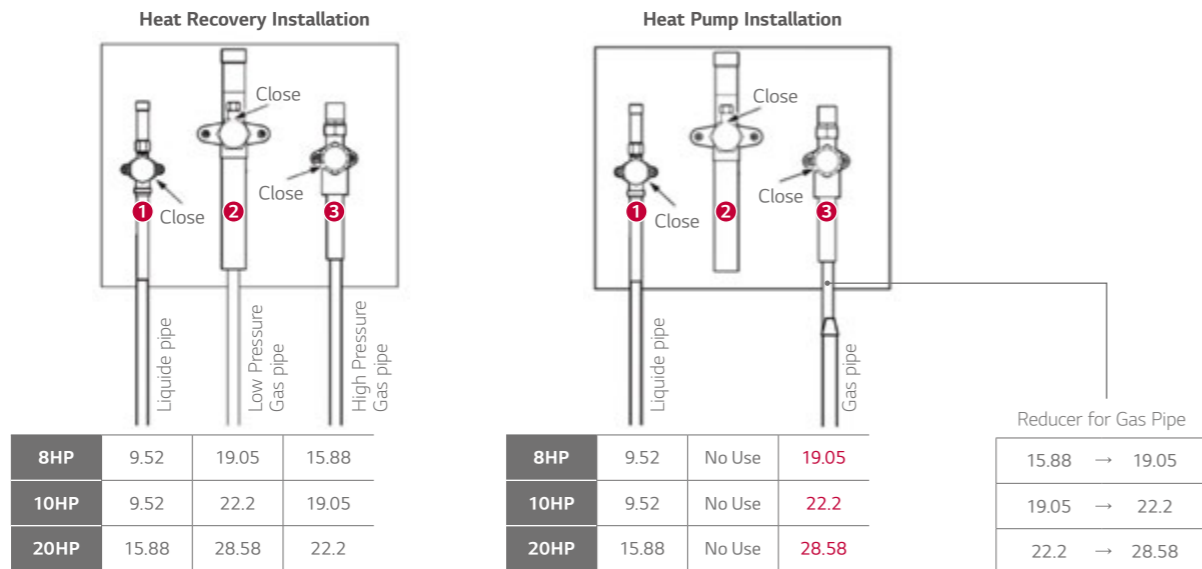
The capacitive measurement principle established and proved itself as a standard in the past. For this principle, the sensor element is built out of a capacitor. The dielectric is a polymer which absorbs or releases water proportional to the relative environmental humidity, and thus changes the capacitance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



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

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

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



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

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 with 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



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ARUM080LTE5 / ARUM100LTE5 / ARUM120LTE5 / ARUM140LTE5

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
	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	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
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge cc		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	900 x 2
	Air Flow Rate (High)	m ³ /min x No.	240 x 1	240 x 1	240 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connctions #1	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)
Pipe Connctions #2	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) x 1
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	mm ² 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 t-CO ₂ eq.	kg	7.5	9.5	9.5
	Control		15.7	19.8	19.8
Power Supply	Ø, V, Hz	3, 380 - 415, 50	3, 380 - 415, 50	3, 380 - 415, 50	3, 380 - 415, 50
		3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		13 (20)	16 (25)	20 (30)	23 (35)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)



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ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5 / ARUM220LTE5

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)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge cc		3,900	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
	Air Flow Rate (High)	m ³ /min x No.	320 x 1	320 x 1	320 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connctions #1	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)
Pipe Connctions #2	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	mm ² 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 t-CO ₂ eq.	kg	13.5	16.0	16.0
	Control		28.2	33.4	33.4
Power Supply	Ø, V, Hz	3, 380 - 415, 50	3, 380 - 415, 50	3, 380 - 415, 50	3, 380 - 415, 50
		3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		26 (40)	29 (45)	32 (50)	35 (56)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

MULTI V 5



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ARUM240LTE5 / ARUM260LTE5 / ARUM221LTE5 / ARUM241LTE5

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)	m ³ /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 Connctions #1	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 Connctions #2	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	mm ² 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
			3,380, 60	3,380, 60	3,380, 60	3,380, 60
Number of Maximum Connectable Indoor Units ¹⁾			39 (61)	42 (64)	35 (44)	39 (48)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)



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ARUM261LTE5 / ARUM280LTE5 / ARUM300LTE5 / ARUM320LTE5

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)	m ³ /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 Connctions #1	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 Connctions #2	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	mm ² 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
			3,380, 60	3,380, 60	3,380, 60	3,380, 60
Number of Maximum Connectable Indoor Units ¹⁾			42 (52)	45 (56)	49 (60)	52 (64)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

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
	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	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 3	5,300 x 3	5,300 x 3
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	9,100	9,100	9,100
	Type		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 4
	Air Flow Rate (High)	m ³ /min x No.	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions #1	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 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)
Pipe Connctions #2	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 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 x 1,690 x 760) x 2	(1,240 x 1,690 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
	Heating	dB(A)	66.6	67.8	68.0
Sound Power Level	Cooling	dB(A)	93.8	95.5	96.0
	Heating	dB(A)	97.6	99.4	100.0
Communication Cable	mm ² 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
	Precharged Amount in Factory	kg	25.5	26.5	30.5
	t-CO ₂ eq.		53.2	55.3	63.7
	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, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		55 (64)	58 (64)	61 (64)	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)



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)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	10,400	10,400	10,400
	Type		Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output x Number	W x No.	900 x 4	900 x 4	900 x 4
	Air Flow Rate (High)	m ³ /min x No.	320 x 2	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions #1	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 Connctions #2	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	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 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
	Heating	dB(A)	68.2	68.9	69.3
Sound Power Level	Cooling	dB(A)	96.8	97.1	97.1
	Heating	dB(A)	100.5	100.8	101.1
Communication Cable	mm ² 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
	Precharged Amount in Factory	kg	33.0	33.0	33.0
	t-CO ₂ eq.		68.9	68.9	68.9
	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, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

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	140.0	145.6	151.2	156.8	
	Heating (Rated) kW	140.0	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	39.00	41.74	
EER		4.16	4.06	4.21	4.15	
SEER		-	-	-	-	
COP	Rated Capacity	4.54	4.41	4.60	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	
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	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)
Fan	Oil Charge	cc	13,000	13,000	14,300	14,300
	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)	m ³ /min x No.	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)
Pipe Connctions #1	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)
Pipe Connctions #2	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)
	Liquid Pipe	mm (inch)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)	Ø 19.05 (3/4)
Dimensions (W x H x D)	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)
		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)	67.0	67.1	67.2	67.4
Sound Power Level	Heating dB(A)	68.6	68.7	68.8	69.5	
	Cooling dB(A)	96.4	96.6	97.1	97.4	
Communication Cable	Heating dB(A)	100.3	100.5	100.8	101.0	
		mm ² 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	40.0	40.0	42.5	42.5
	t-CO ₂ eq.		83.5	83.5	88.7	88.7
	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⁾		64	64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)



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 ARUM120LTE5	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)
Fan	Oil Charge	cc	14,300	14,300	14,300	15,600	
	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 6	900 x 6	900 x 6
	Air Flow Rate (High)	m ³ /min x No.	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	320 x 3	320 x 3	320 x 3
Pipe Connctions #1	Discharge	Side / Top	TOP	TOP	TOP	TOP	
	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)
Pipe Connctions #2	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)
Dimensions (W x H x D)	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) - Shipping		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 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3
	Net Weight	kg x No.	(310 x 1) + (237 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) + (250 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
Sound Power Level	Heating dB(A)	69.8	70.4	70.5	70.6	70.6	
	Cooling dB(A)	97.4	98.3	98.5	98.6	99.0	
Communication Cable	Heating dB(A)	101.4	102.2	102.5	102.6	102.8	
		mm ² 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	
	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	
	Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	64	

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

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
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	(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	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)	m ³ /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
Pipe Connctions #1	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 Connctions #2	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.	(1,240x1,690x760)x3	(1,240x1,690x760)x3	(1,240x1,690x760)x3	(1,240x1,690x760)x3 + (930x1,690x760)x1	(1,240x1,690x760)x3 + (930x1,690x760)x1
Dimensions (W x H x D) - Shipping	mm x No.	(1,280x1,825x796)x3	(1,280x1,825x796)x3	(1,280x1,825x796)x3	(1,280x1,825x796)x3 + (960x1,825x796)x1	(1,280x1,825x796)x3 + (960x1,825x796)x1
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	mm ² 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
	t-CO ₂ eq.		104.4	104.4	106.5	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
		3,380, 60	3,380, 60	3,380, 60	3,380, 60	3,380, 60
Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)



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 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM140LTE5
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
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	(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
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)	m ³ /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 3) + (240 x 1)
	Drive	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connctions #1	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 Connctions #2	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.	(1,240x1,690x760)x3 + (930x1,690x760)x1	(1,240x1,690x760)x3 + (930x1,690x760)x1	(1,240x1,690x760)x3 + (930x1,690x760)x1	(1,240x1,690x760)x3 + (930x1,690x760)x1	(1,240x1,690x760)x4
Dimensions (W x H x D) - Shipping	mm x No.	(1,280x1,825x796)x3 + (960x1,825x796)x1	(1,280x1,825x796)x3 + (960x1,825x796)x1	(1,280x1,825x796)x3 + (960x1,825x796)x1	(1,280x1,825x796)x3 + (960x1,825x796)x1	(1,280x1,825x796)x4
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 2) + (300 x 1) + (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 2) + (312 x 1) + (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	mm ² 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	64.5
	t-CO ₂ eq.		124.2	124.2	124.2	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
		3,380, 60	3,380, 60	3,380, 60	3,380, 60	3,380, 60
Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

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	
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	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)	m ³ /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 Connctions #1	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 Connctions #2	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 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 x 760) x 4	(1,240 x 1,690 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	mm ² 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-CO ₂ 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	

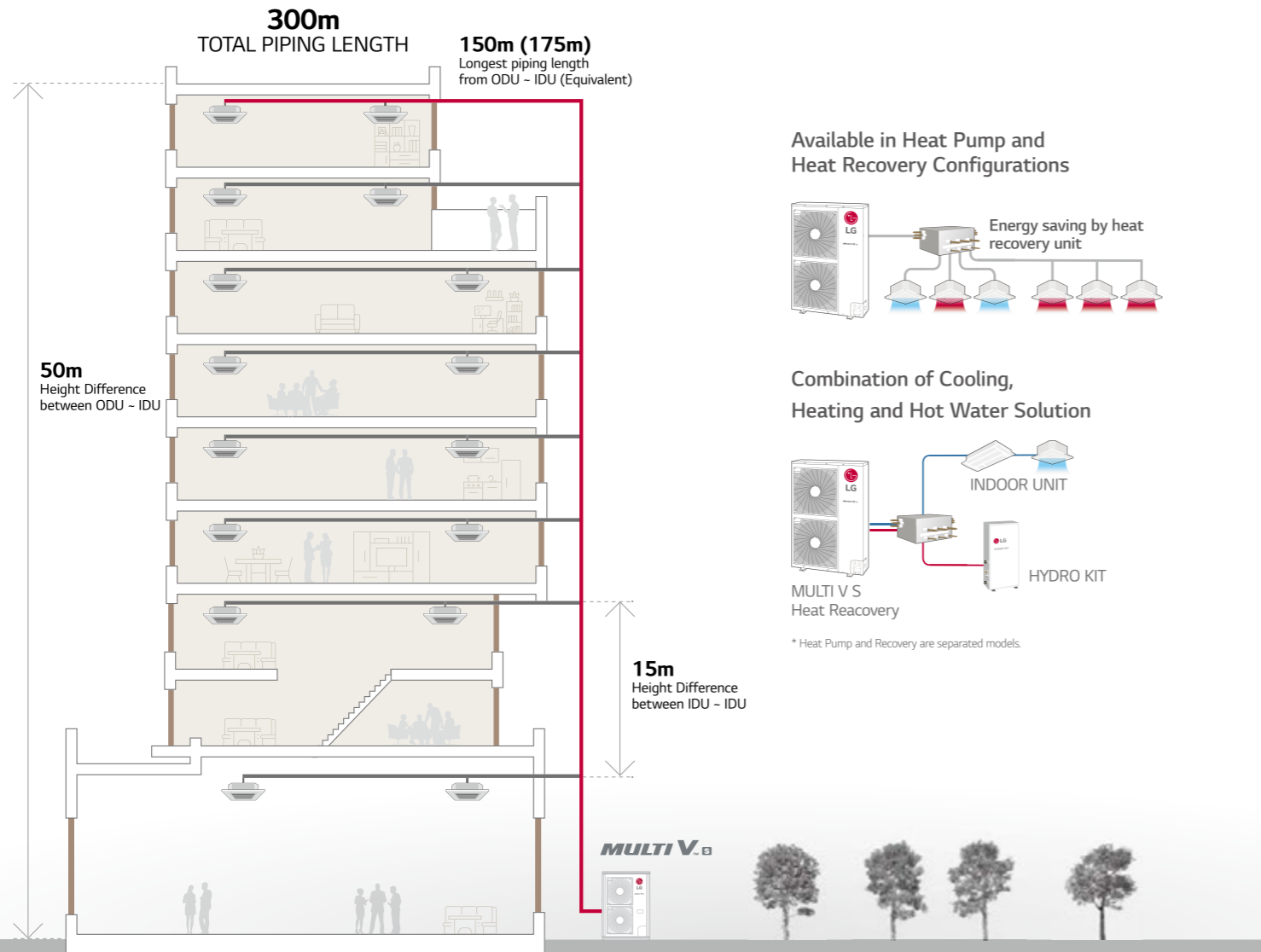
1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

NOTES

- Eurovent Test Condition :** For more info regarding program consult www.eurovent-certification.com
- 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 Zero.
- Wiring cable size must comply with the applicable local and national code.**
- Sound Level Values can be increased owing to ambient conditions during operation.**
- The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.**
- 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)
- Due to our policy of innovation some specifications may be changed without notification.**
- This product contains Fluorinated greenhouse gases.**

MULTI V S

- Air cooled VRF Heat pump & Heat Recovery
- 12.1 ~ 33.6kW (Cooling capacity based)
- Both 1Φ, 220 ~ 240V, 50 ~ 60Hz and 3Φ, 380 ~ 415V, 50 ~ 60Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system



Features & Benefits

- Energy saving
- High reliability
- Improved user convenience

Key Applications

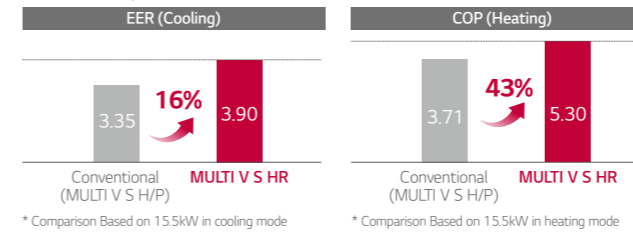
- Premium residential apartment / house
- Small sized office / restaurant / retail shops
- Building with multiple owners

ENERGY SAVING

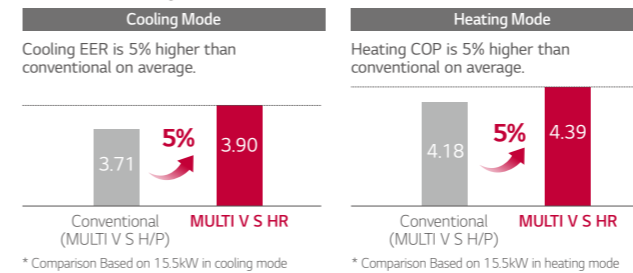
EER / COP / Part Load

Saving Energy Cost with High Efficient Product

Heat Pump



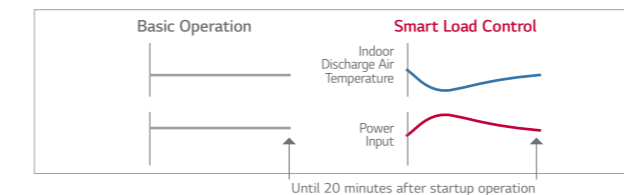
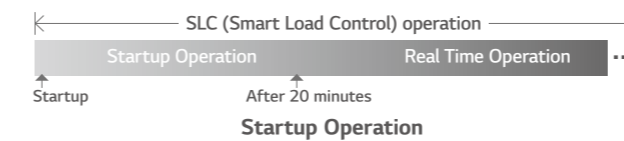
Heat Recovery



Smart Load Control Applied

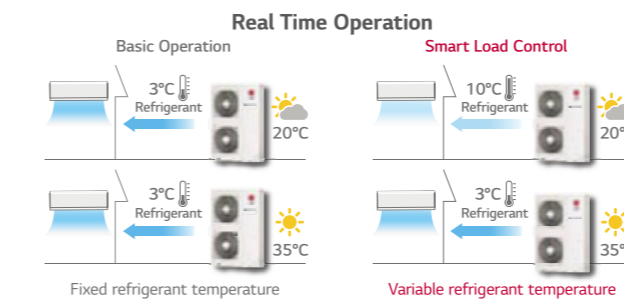
Increase comfortable sensation and Max. 23% energy saving thanks to MULTI V load control

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



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

Max. 10% Energy saving

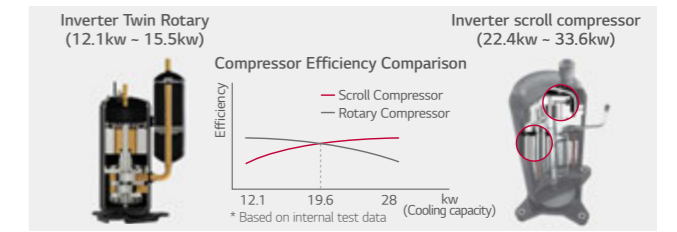


Max. 13% Energy saving

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 PTEM TB100 (White) /PREM TB110 (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.

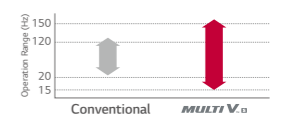
Surface Coating

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

Inverter scroll compressor

World Best Class Compressor Speed

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



6 By-pass Valve

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

Direct Oil Injection

- Eliminate suction refrigerant gas heat loss through direct oil injection into compression chamber (efficiency increases)
- Reliability increase due to proper oil amount supply

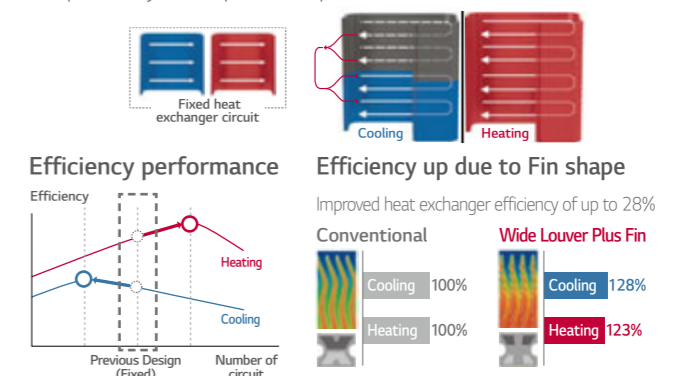
Scroll Profile

- The enhanced reliability by increasing the thickness of scroll central part within largest pressure
- 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 (LG's own technology)

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.

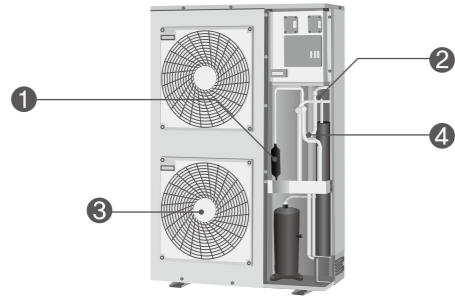


HIGH RELIABILITY

High Reliability of Refrigerant Components

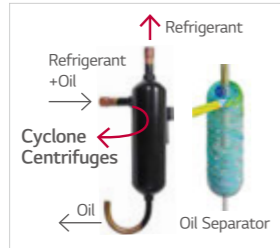
Superior Performance and Strong Durable Components are developed by LG's technologies

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



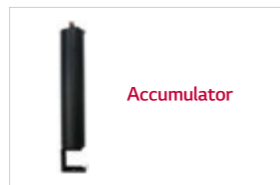
1 Cyclonic oil separator

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



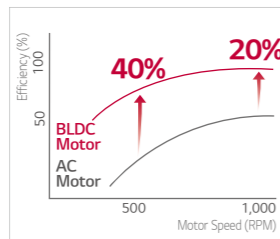
2 Large Volume Accumulator

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



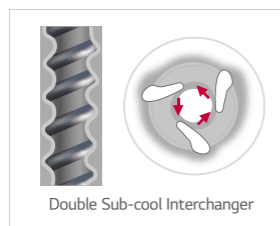
3 BLDC Fan Motor

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



4 Double Sub-cool Interchanger

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



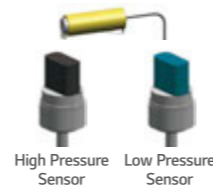
* Based on equivalent pipe length

Smart Control

Pressure Control applied for smart, quick, and precise responds to the user's requested temperature

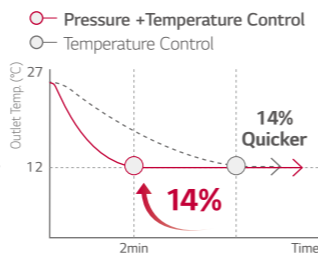
Temperature + Pressure Control

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



Quick Operating Response

The desired temperature can be reached in up to 14% less time in cooling mode due to pressure control. The indoor environment can be controlled more accurately and more comfortably.



* Specifications may vary for each model.

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

Strong Durability against high salinity and heavily polluted air

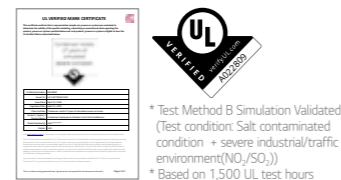
LG's exclusive Ocean Black Fin is applied on the heat exchanger of MULTI V S in order to perform even in corrosive environments. The strong protection from various corrosive external environments such as seaside with high salt contamination and industrial cities with severe air pollution keeps MULTI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



Corrosion Resistance Proven by 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, UL (Underwriters Laboratories).

Certified protection



Condition of salt spray test	
Temperature	35°C
Mist of 5% sodium chloride solution	
Condition of gas exposure test	
R.H.	95%
NO ₂	10 x 10 ⁻⁵
SO ₂	5 x 10 ⁻⁶

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.



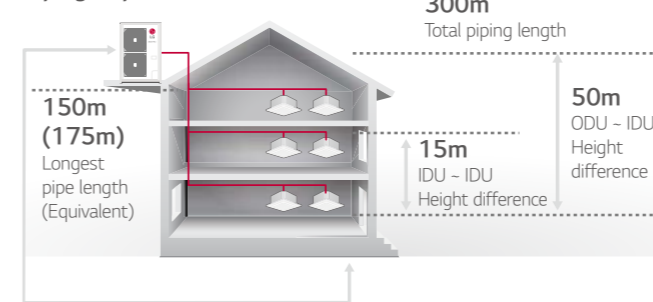
IMPROVED USER CONVENIENCE

Sufficient Pipe Length Limit

Sufficient pipe length limitation provides flexible design and installation

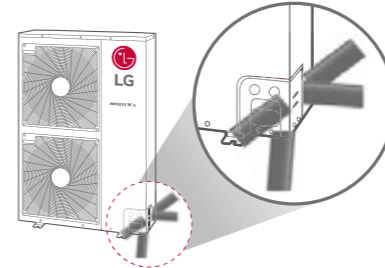
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

Piping Capabilities



4 Way Piping

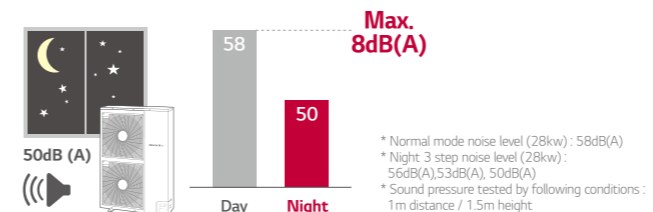
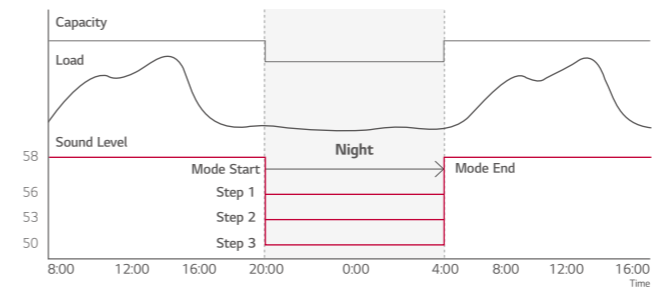
- Free design and installation by 4 way piping.



Low Noise Operation

Free from noise at any time with low noise operation function

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



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

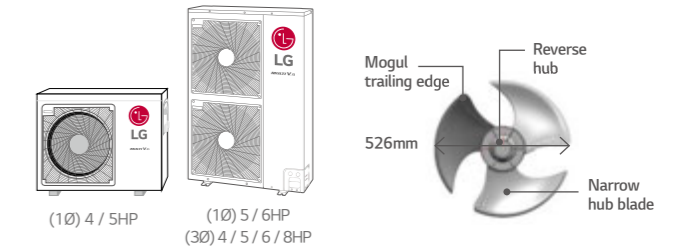
Fan Technology and RPM Control

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

For efficient operation, newly developed fan blows higher air volume and has more high static pressure. In addition, operating noise is decreased.

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.

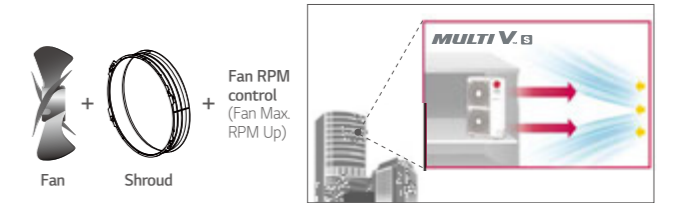


Super canon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB (A).



Fan RPM control

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



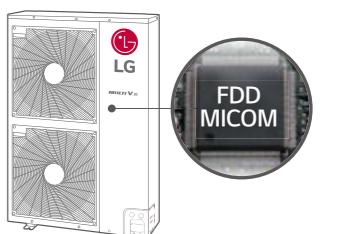
- Straight air flow
 - New shroud adopted
 - Performs high static pressure

Upgraded Fault Detection and Diagnosis

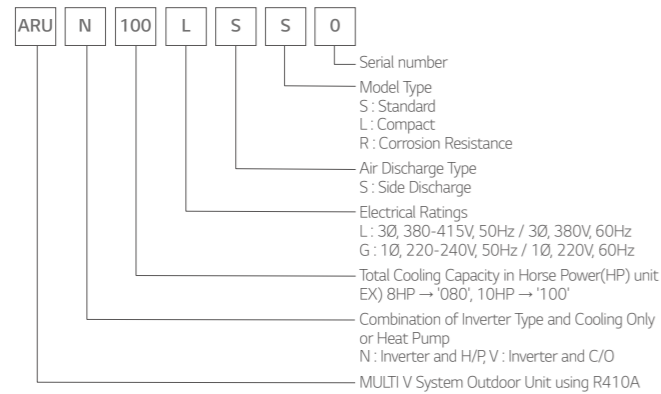
Easy and convenient maintenance with self-diagnosis

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

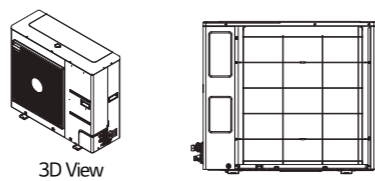
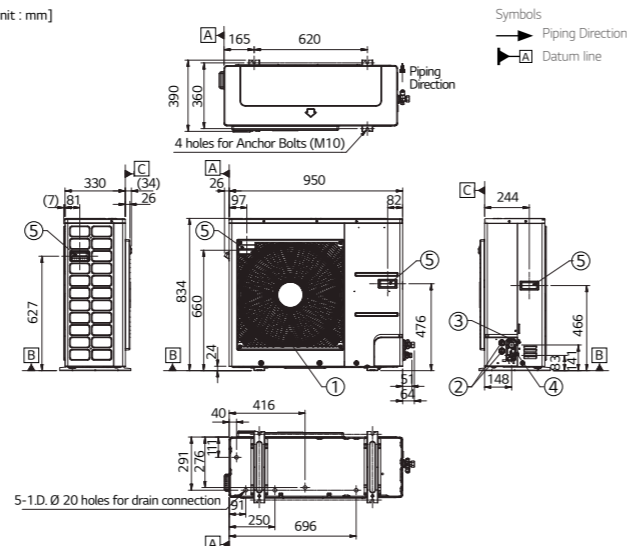


Outdoor Unit Function

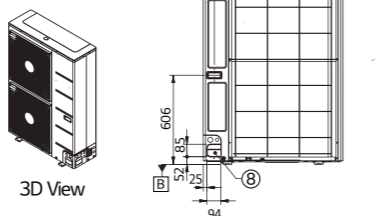
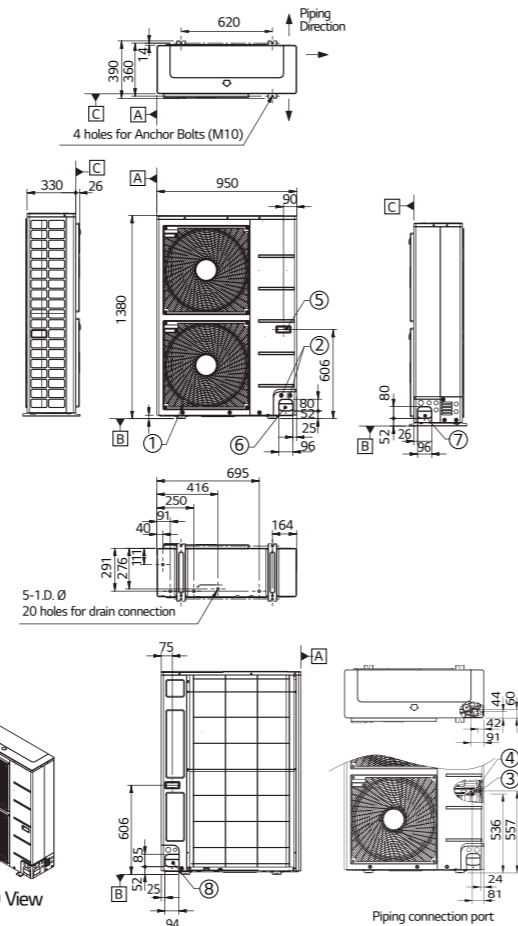
Category	Functions	MULTI V S
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	ARUB060GSS4 only
	Anti Corrosion Black Fin	○
	Oil Sensor	-
Special Function	Dual Sensing	ARUB060GSS4 only
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto 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	ARUB060GSS4 only	
Basic Function	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	-
Central Controller	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
BNU (Building Network Unit)	AC Manager 5	PACM5A000
	ACP Lonworks	PLNWKB000
IO Module (ODU Dry Contact)	ACP BACnet	PQNF17C0
	PVDSMN000	PVDSMN000
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Cycle Monitoring Device	LGMV	PRCTILO
	Mobile LGMV	PLGMVW100
Additional kit	Refrigerant Charging Kit	○ (Logical operation) Not applied to ARUB060GSS4
	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	-

※ ○ : Applied, - : Not Applied

[Unit : mm]



[Unit : mm]

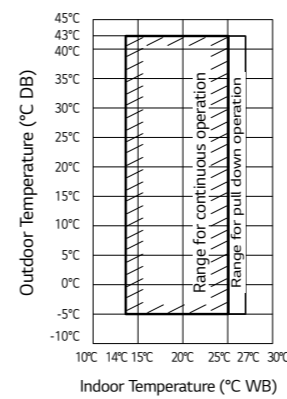


No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Welding joint
4	Liquid Pipe Connection	Welding joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

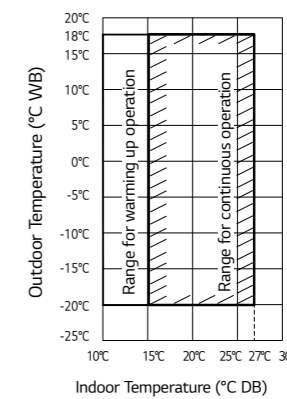
- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulation or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international 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.

Heat Pump

Cooling

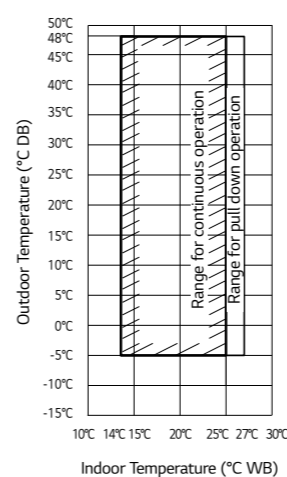


Heating

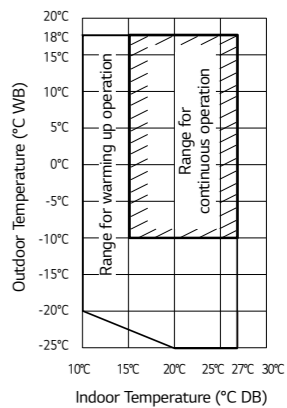


Heat Recovery

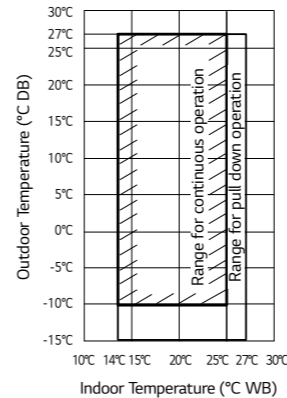
Cooling



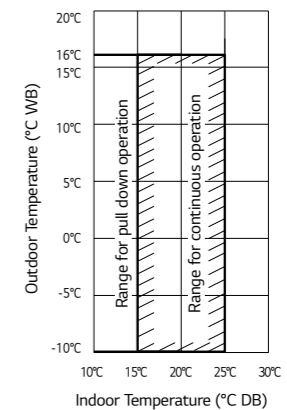
Heating



Simultaneous Cooling



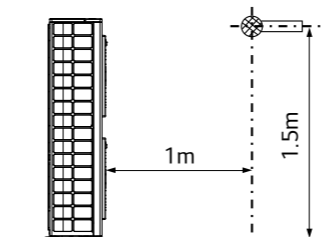
Simultaneous Heating



Note

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



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



ARUN040GSS0 / ARUN040GSRO / ARUN050GSL0

HP		4	5
Model Name	General Model	ARUN040GSS0	ARUN050GSL0
	Corrosion Resistance Model	ARUN040GSRO	-
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	Rated Capacity	5.9	5.7
SCOP		5.15	4.96
Exterior	Color (General)	Warm Gray	Warm Gray
	Color (Corrosion Resistance)	Morning Gray	-
	RAL Code (Classic), General	RAL 7044	RAL 7044
	RAL Code (Classic), Corrosion Resistance	RAL 7030	-
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
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) m ³ /min x No.	60 x 1	60 x 1
	Drive	DC INVERTER	DC INVERTER
Pipe Connections	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)	75.0	75.0
Communication Cable	mm ² 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
		1, 220, 60	1, 220, 60
Number of Maximum Connectable Indoor Units		8	8*

*: 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 Level Values are measured at Anechoic chamber. 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



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ARUN050GSS0 / ARUN050GSRO / ARUN060GSS0 / ARUN060GSRO

HP		5	6
Model Name	General Model	ARUN050GSS0	ARUN060GSS0
	Corrosion Resistance Model	ARUN050GSRO	ARUN060GSRO
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	Rated Capacity	5.77	5.30
SCOP		5.23	5.19
Exterior	Color (General)	Warm Gray	Warm Gray
	Color (Corrosion Resistance)	Morning Gray	Morning Gray
	RAL Code (Classic), General	RAL 7044	RAL 7044
	RAL Code (Classic), Corrosion Resistance	RAL 7030	RAL 7030
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
Fan	Type	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number W x No.	124 x 2	124 x 2
	Air Flow Rate (High) m ³ /min x No.	110 x 1	110 x 1
	Drive	DC INVERTER	DC INVERTER
Pipe Connections	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	(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	(1,140 x 1,462 x 461) x 1
Net Weight	kg x No.	94 x 1	94 x 1
Shipping Weight	kg x No.	106 x 1	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	mm ² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	R410A	R410A
	Precharged Amount in factory kg	3.0	3.0
	t-CO ₂ eq.	6.3	6.3
	Control	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50
		1, 220, 60	1, 220, 60
Number of Maximum Connectable Indoor Units		10	13

Note: 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

- Refer to EUROVENT certification regulation for more detail test conditions.
- Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

2. Performances are based on the following conditions :

- Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
- Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

3. The maximum combination ratio is 160%.

4. Wiring cable size must comply with the applicable local and national codes.

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

6. Sound Level Values are measured at Anechoic chamber. 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



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ARUN040LSSO / ARUN050LSSO / ARUN060LSSO
ARUN040LSRO / ARUN050LSRO / ARUN060LSRO

HP		4	5	6
Model Name	General Model	ARUN040LSSO	ARUN050LSSO	ARUN060LSSO
	Corrosion Resistance Model	ARUN040LSRO	ARUN050LSRO	ARUN060LSRO
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	Rated Capacity	6.49	5.77	5.30
SCOP		5.02	5.23	5.19
Exterior	Color (General)	Warm Gray	Warm Gray	Warm Gray
	Color (Corrosion Resistance)	Morning Gray	Morning Gray	Morning Gray
	RAL Code (Classic), General	RAL 7044	RAL 7044	RAL 7044
	RAL Code (Classic), Corrosion Resistance	RAL 7030	RAL 7030	RAL 7030
Heat Exchanger	Type	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	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
Fan	Type	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number W x No.	124 x 2	124 x 2	124 x 2
	Air Flow Rate (High) m ³ /min x No.	110 x 1	110 x 1	110 x 1
	Drive	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connections	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	(950 x 1,380 x 330) x 1	(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	(1,140 x 1,462 x 461) x 1	(1,140 x 1,462 x 461) x 1
Net Weight	kg x No.	96 x 1	96 x 1	96 x 1
Shipping Weight	kg x No.	108 x 1	106 x 1	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	mm ² 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	3.0	3.0
	t-CO ₂ 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	3, 380 - 415, 50	3, 380 - 415, 50
		3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units		8	10	13

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
 - Refer to EUROVENT certification regulation for more detail test conditions.
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
 2. Performances are based on the following conditions :
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
 3. The maximum combination ratio is 160%.
 4. Wiring cable size must comply with the applicable local and national codes.
 5. Due to our policy of innovation some specifications may be changed without notification.
 6. Sound Level Values are measured at Anechoic chamber. 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



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



ARUN080LSSO / ARUN100LSSO / ARUN120LSSO

HP		8	10	12
Model Name	General Model	ARUN080LSSO	ARUN100LSSO	ARUN120LSSO
	Corrosion Resistance Model	-	-	-
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	3.70	3.77	4.92
SCOP		4.33	4.17	3.86
Exterior	Color (General)	Warm Gray	Warm Gray	Warm Gray
	Color (Corrosion Resistance)	-	-	-
	RAL Code (Classic), General	RAL 7044	RAL 7044	RAL 7044
	RAL Code (Classic), Corrosion Resistance	-	-	-
Heat Exchanger	Type	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
	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
Fan	Type	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number W x No.	124 x 2	250 x 2	250 x 2
	Air Flow Rate (High) m ³ /min x No.	140 x 1	190 x 1	190 x 1
	Drive	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connections	Liquid Pipe mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	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)
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	(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	(1,215 x 1,795 x 500) x 1
Net Weight	kg x No.	115 x 1	144 x 1	157 x 1
Shipping Weight	kg x No.	127 x 1	160 x 1	173 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	mm ² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	R410A	R410A	R410A
	Precharged Amount in factory kg	3.5	4.5	6.0
	t-CO ₂ 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	3, 380 - 415, 50
		3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units		13	16	20

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
 - Refer to EUROVENT certification regulation for more detail test conditions.
 - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
 2. Performances are based on the following conditions :
 - Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 - Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
 3. The maximum combination ratio is 160%.
 4. Wiring cable size must comply with the applicable local and national codes.
 5. Due to our policy of innovation some specifications may be changed without notification.
 6. Sound Level Values are measured at Anechoic chamber. 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 RECOVERY



ARUB060GSS4



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

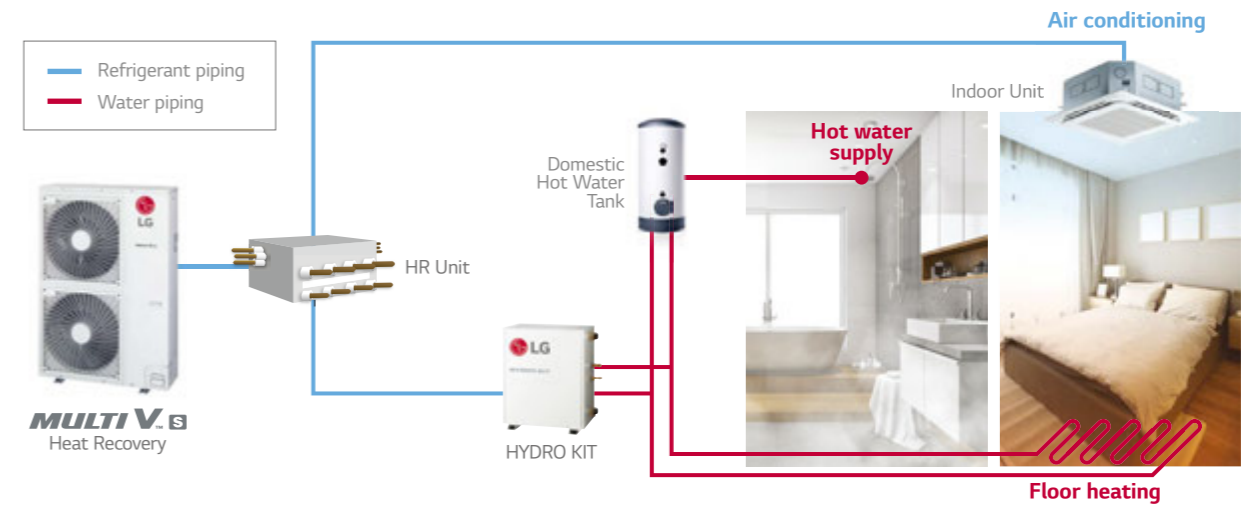
HP			6
Model Name	ARUB060GSS4		
Capacity	Cooling (Rated)	kW	15.5
	Heating (Rated)	kW	18.0
Input	Cooling (Rated)	kW	3.97
	Heating (Rated)	kW	4.10
EER	3.90		
SEER	6.84		
COP	Rated Capacity	4.39	
SCOP	4.38		
Exterior	Color	Warm Gray	
	RAL Code (Classic)	RAL 7044	
Heat Exchanger	Type	Wide Louver Plus	
	Type	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
Fan	Type	Axial Flow Fan	
	Motor Output x Number	W x No.	124 x 2
	Air Flow Rate (High)	m ³ /min x No.	110 x 1
	Drive	DC INVERTER	
Pipe Connctions #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)	80.0
	Heating	dB(A)	84.0
Communication Cable	mm ² x No. (VCTF-SB)	1.0 - 1.5 x 2C	
Refrigerant	Refrigerant Name	R410A	
	Precharged Amount in factory	kg	3.5
	t-CO ₂ eq.	7.3	
Control	Electronic Expansion Valve		
	Power Supply	Ø, V, Hz	1, 220 - 240, 50
Number of Maximum Connectable Indoor Units	1, 220, 60		
	13		

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

MULTI V S APPLICATION GUIDE

System Diagram

Providing a total solution by heat pump, air conditioning (cooling by refrigerant & chilled water, heating by refrigerant & hot water) and domestic hot water supply.

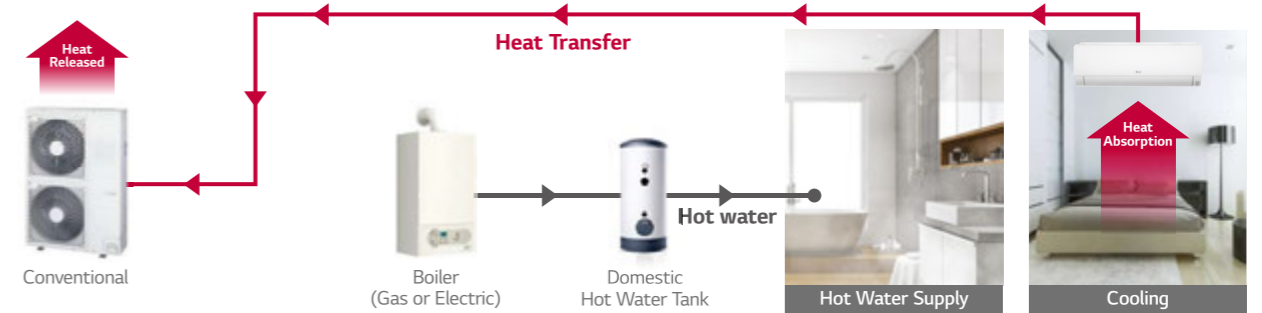


Energy Saving

Energy consumption can be reduced since absorbed heat from indoor space is used for supplying hot water.

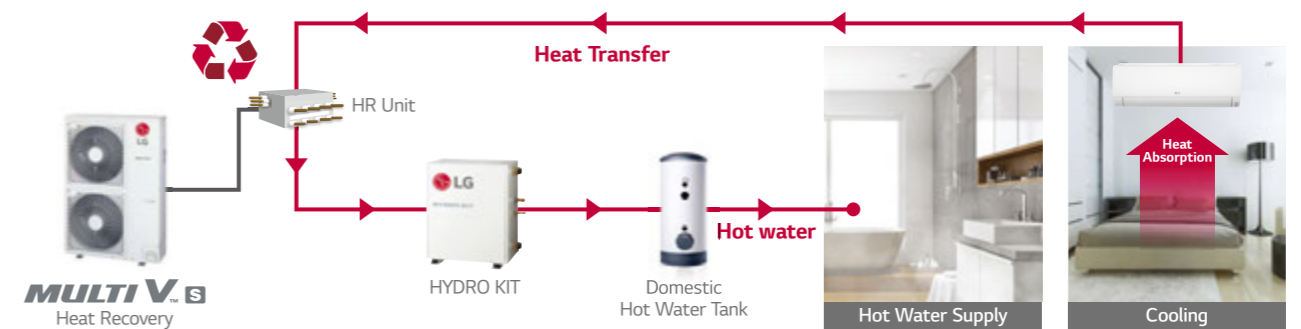
Conventional

Absorbed heat is released to outdoor air.



MULTI V S Heat Recovery with HYDRO KIT

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

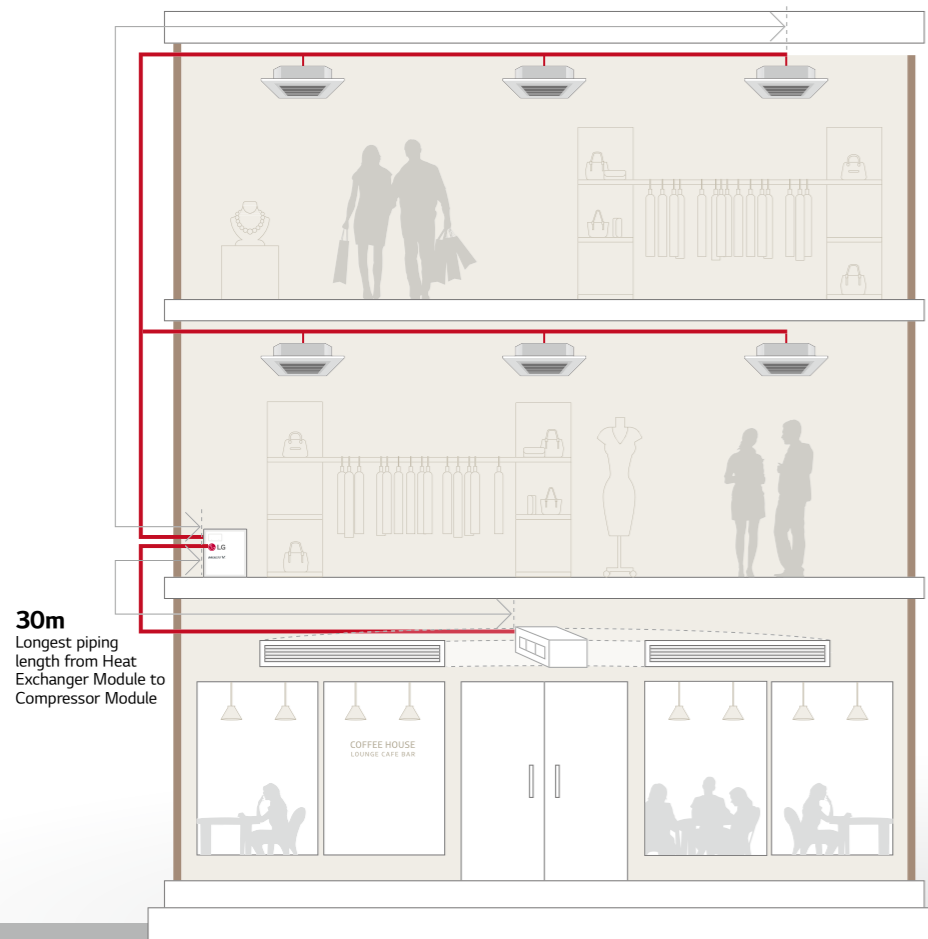


MULTI V M

- Air Cooled VRF Heat Pump
- 14kW (Cooling capacity based)
- 3Φ, 380 ~ 415V, 50 ~ 60Hz (Compressor Module)
- 1Φ, 220 ~ 240V, 50 ~ 60Hz (Heat Exchanger Module)
- Outdoor unit is installed inside building

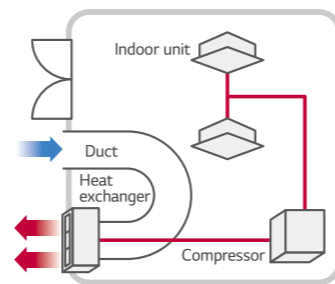
70m
Longest piping length from Compressor Module to Indoor unit

140m
TOTAL PIPING LENGTH

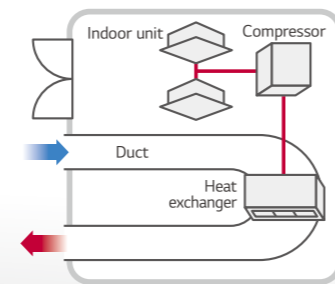


30m
Longest piping length from Heat Exchanger Module to Compressor Module

Direct Inlet / Outlet Case



Duct Connected Case



Features & Benefits

- Flexible design & installation
- Space & installation cost saving
- Easy maintenance
- Building permit could be simplified

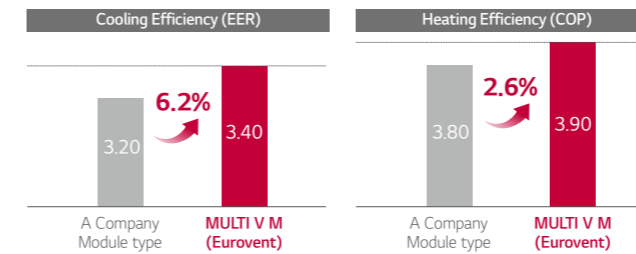
Key Applications

- Regulation that outdoor unit should be installed inside building
- Lack of installation space at restaurant, retail shop
- Do not want to expose the outdoor unit for safety reason or aesthetic design
- Building nearby that could cause noise problem or historic city centers

HIGH CLASS EFFICIENCY

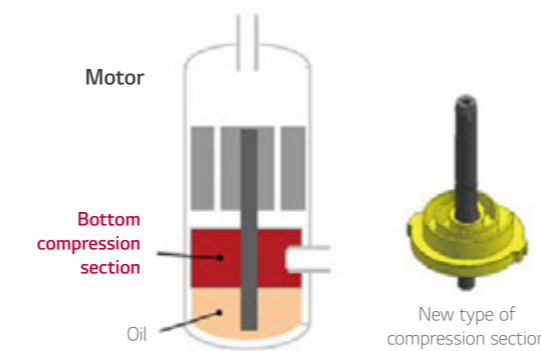
World's best inverter compressor, smart load control and wide louver plus fin make world class high efficiency

Energy Efficiency



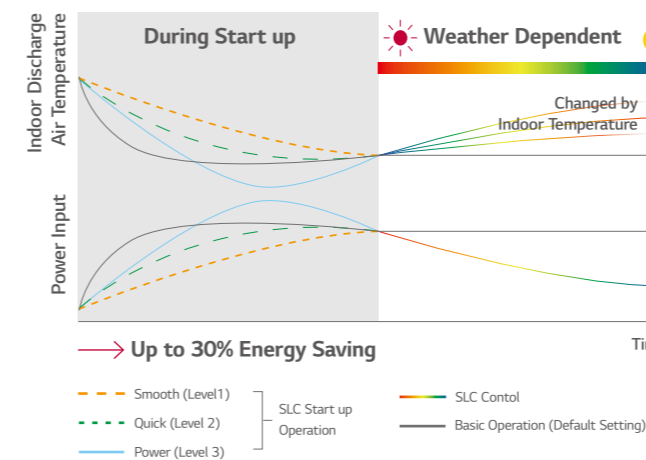
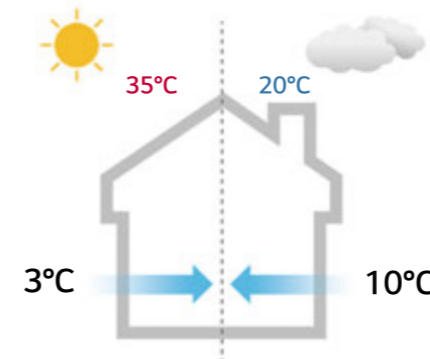
New Type Scroll

MULTI V M ensures world's best class energy efficiency with innovative technology including the LG's New Type Scroll compressor.



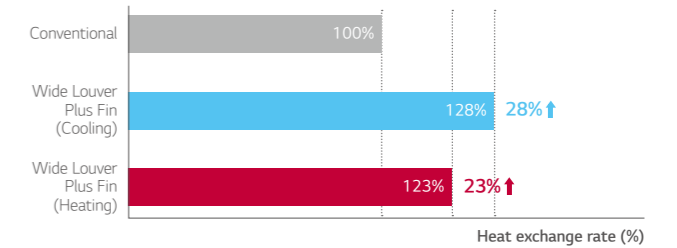
Smart Load Control

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

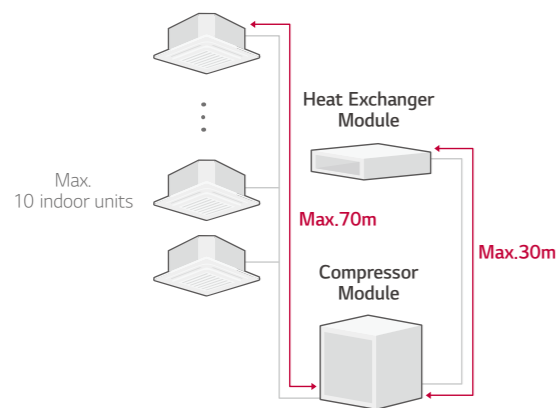


- Can only be installed inside the building
- Discharge air volume less than 60CMM
- Securing more than 5m distance between outdoor discharge grilles
- Securing at least 2.5m from the floor
- Securing more than 2.5m from surrounding windows

FLEXIBLE DESIGN & INSTALLATION

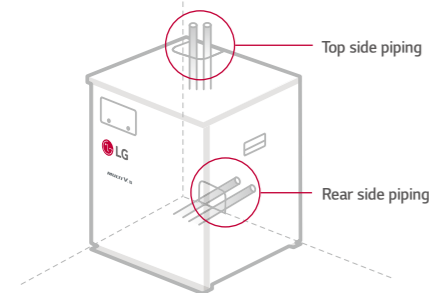
Module Type

- Increased freedom of design
 - Additional structure installation and ceiling construction isn't required
- Ease of service (Replacement of the comp)
- Low noise by module (vs Integrated Type)



Flexible Piping Location

Neat & easy installation by flexible piping location piping.



Increased Freedom of Design

Additional structure installation or ceiling construction isn't required due to improved freedom of design. This makes replacement of the compressor easier, making the service and maintenance of products handy. Moreover, split module provides low noise operation in comparison to the integrated type.



Heat exchanger module can be installed in false ceiling spaces



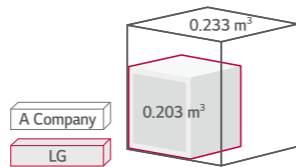
Compressor module can be installed at any place inside



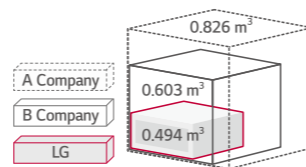
SPACE SAVING & CONVENIENT INSTALLATION

Volume

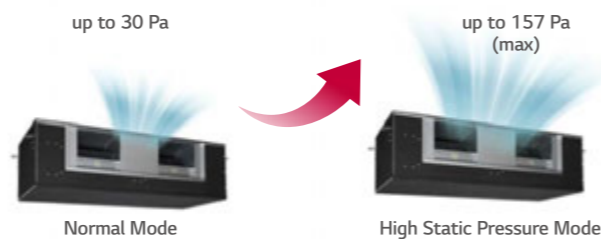
Compressor Module



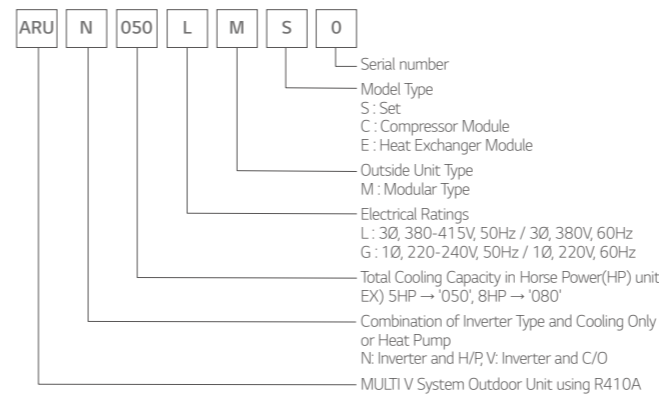
Heat Exchanger Module



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



Nomenclature



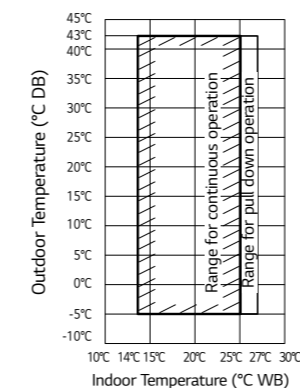
Outside Unit Function

Category	Functions	Modular
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	-
	Anti Corrosion Black Fin	○
Useful Function	Oil Sensor	-
	Dual Sensing	-
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	-
	Defrost / Deicing	○
Reliability	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
Central Controller	Soft Start	○
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
BNU (Building Network Unit)	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
Installation	ACP Lonworks	PLNWKB000
	ACP BACnet	PQNFBI7CO
PDI (Power Distribution Indicator)	Refrigerant Charging Kit	-
	Variable Water Flow Valve Control Kit	-
Cool / Heat Selector	Standard	-
	Premium	-
Low Ambient Kit	PRDSBM	-
	-	-
IO Module (ODU Dry Contact)	PVDSMN000	-
	-	-
Cycle Monitoring Device	LGMV	PRCTILO
	Mobile LGMV	PLGMVW100

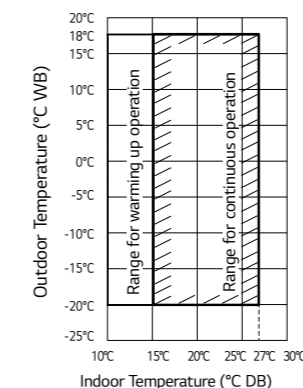
※ ○ : Applied, - : Not Applied

Heat Pump

Cooling

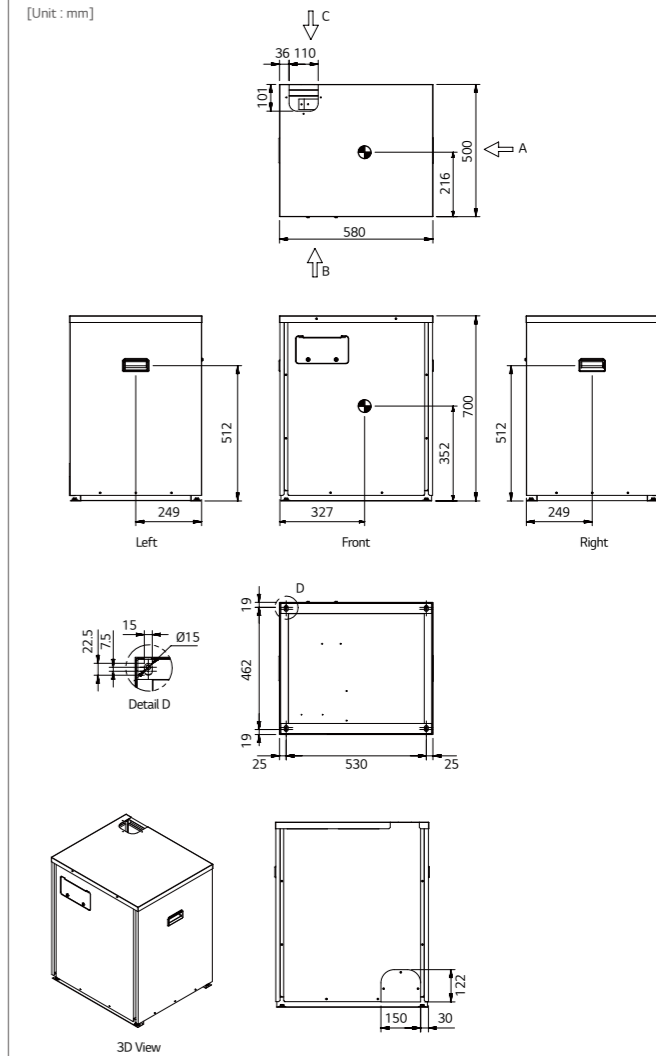


Heating



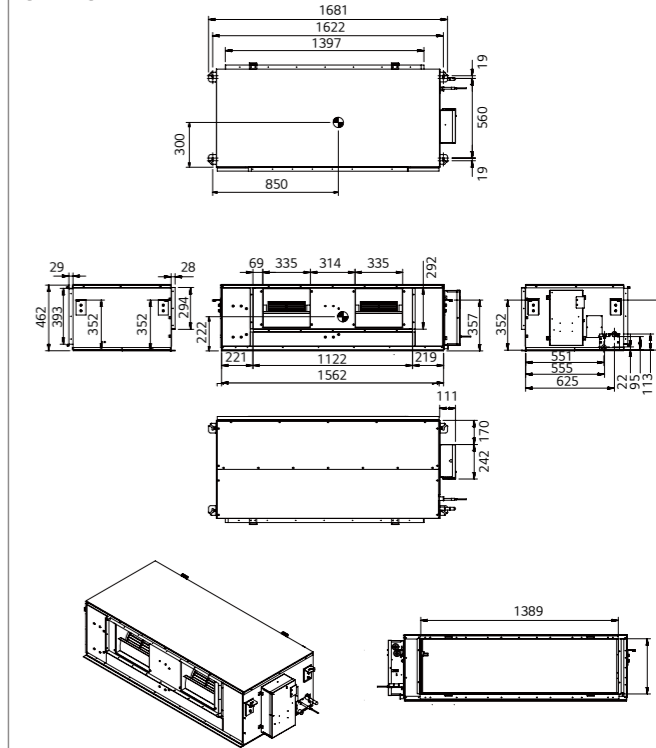
Compressor Module

[Unit : mm]



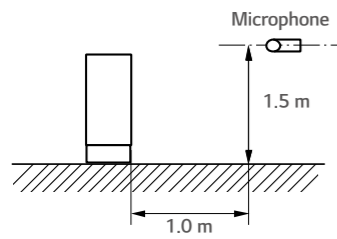
Heat Exchanger Module

[Unit : mm]



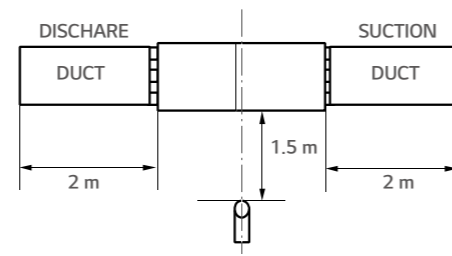
Position of Sound Pressure Level Measuring

Compressor Module



* Measuring place : Anechoic chamber

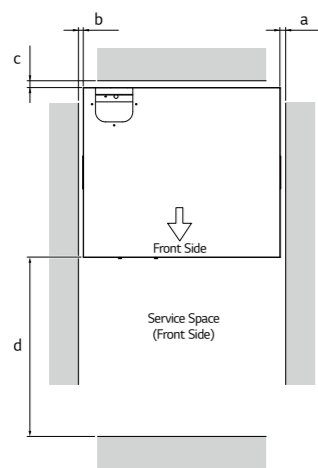
Heat Exchanger Module



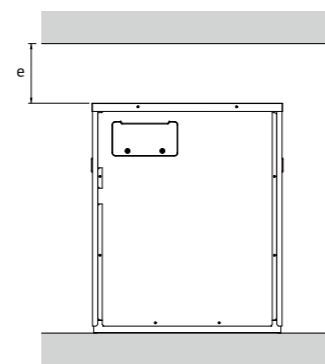
* Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View



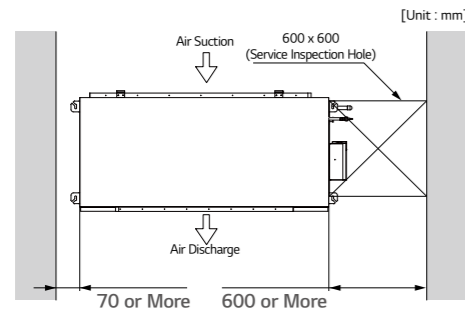
Front View



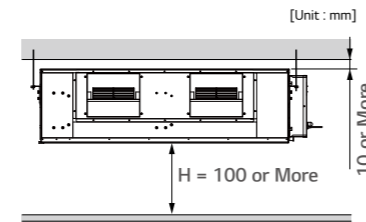
Category	Mark	Description	Installation Space (mm)
Compressor Module	a	Right	10 or More
	b	Left	10 or More
	c	Rear	10 or More
	d	Front	500 or More
	e	Top	200 or More

Installation Space for Compressor Module

Top View



Front View



MULTI V M



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



System

	HP	5
Model Name	Set	ARUN050LMSO
	Compressor Module	ARUN050LMCO
	Heat Exchanger Module	ARUN050GMEO
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

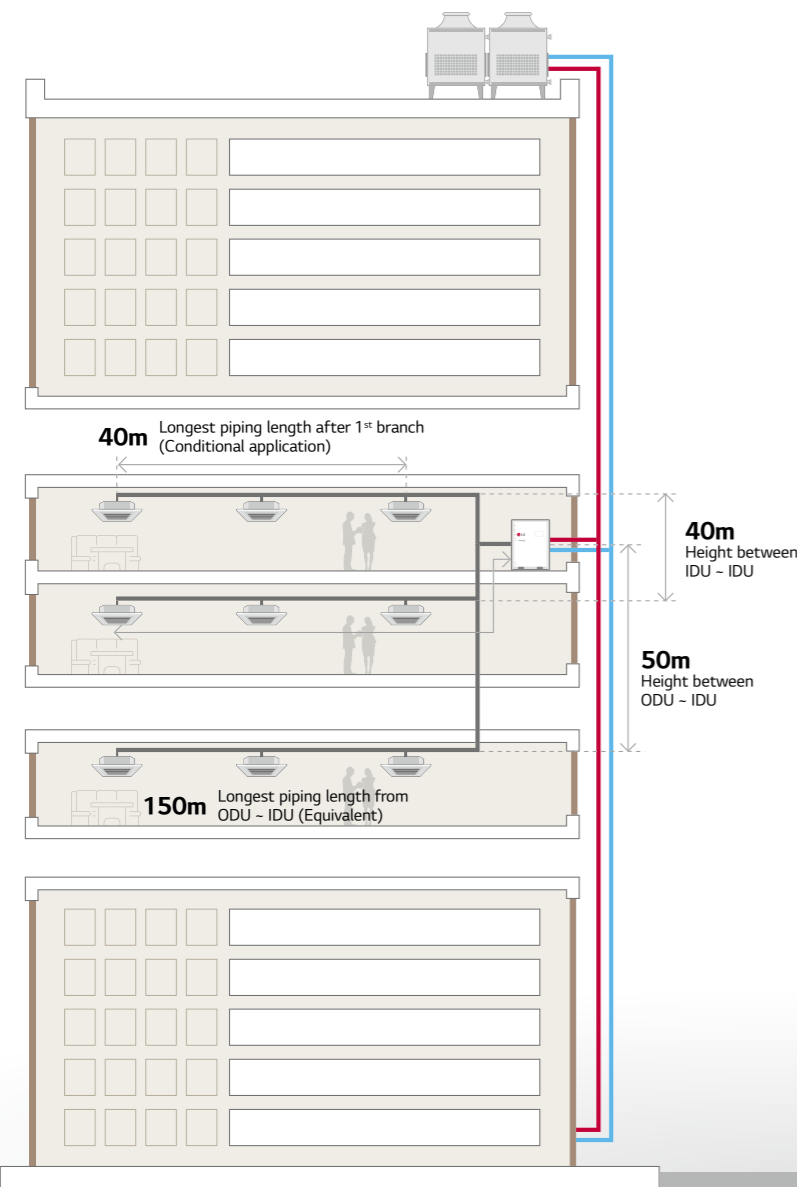
Module

	HP	5
Model Names	Compressor Module	Heat Exchanger Module
	ARUN050LMCO	ARUN050GMEO
Exterior	Color	Morning Gray
	RAL Code (Classic)	RAL 7030
Dimensions (W x H x D)	Net mm x No.	580 x 700 x 500
	Shipping mm x No.	618 x 833 x 564
Weight	Net kg x No.	69 x 1
	Shipping kg x No.	76 x 1
Compressor	Type	Hermetic Motor Compressor
	Combination x No.	(Inverter) x 1
	Motor Output W x No.	3,200
	Oil Type	FVC68D (PVE)
Heat Exchanger	Type	-
		Wide Louver Plus / Black Fin
Fan	Type	-
		Sirocco Fan
External Static Pressure	Motor Output x Number W x No.	-
	Air Flow Rate (Rated) m³/min x No.	-
Pipe Connctions	Nominal (Rated, Factory Set) mmAq (Pa)	-
	Max. mmAq (Pa)	-
Sound Pressure Level	Liquid mm (inch)	∅ 9.52 (3/8) to IDU
	Gas mm (inch)	∅ 15.88 (5/8) to IDU
	Drain mm (inch)	-
Sound Power Level	Cooling (Rated) dB(A)	45.0
	Heating (Rated) dB(A)	45.0
Communication Cable	Cooling (Rated) dB(A)	59.0
	Heating (Rated) dB(A)	66.0
Refrigerant	mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C to IDU
	Refrigerant Name	R410A
	Precharged Amount kg	2.0
	t-CO ₂ eq.	4.175
Power Supply	Control	-
	∅, V, Hz	3, 380 - 415, 50

- ※ ○ : Applied, - : Not Applied
- Note: 1. Due to our policy of innovation some specifications may be changed without notification.
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 3. Power factor could vary less than ±1% according to the operating conditions.
 4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
 5. Performances are based on the following conditions :
 • *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 • *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 • Interconnected Pipe Length 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
 6. The maximum combination ratio is 130%.
 7. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

MULTI V WATER IV

- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 201.6kw (Cooling capacity based)
- 3Φ, 380 ~ 415V, 50 ~ 60Hz
- Outdoor unit installed indoor



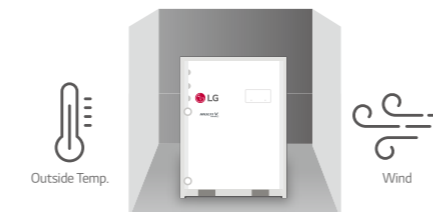
Features & Benefits

- Operation independent of weather conditions
- Utilizing renewable source
- Replacement of Chiller-FCU system

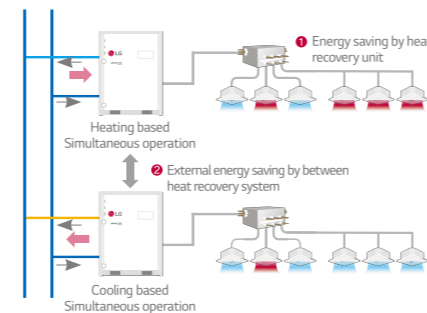
Key Applications

- Large scale office with curtain wall
- Building using geothermal & various water heat source
- Luxurious residential building
- Seaside building

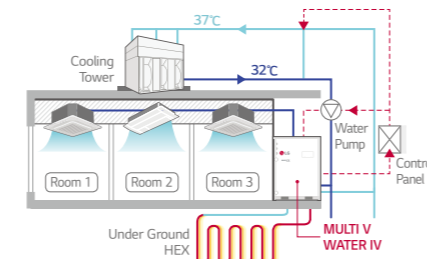
Operation independent of weather conditions



Available in Heat Pump & Heat Recovery Configuration



Geothermal Application

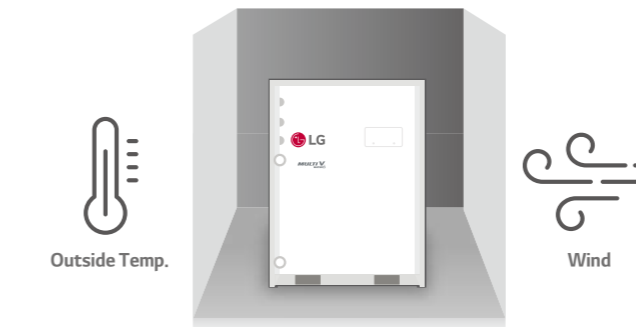


Total Piping Length	300m
Longest piping length from ODU - IDU(Equivalent)	150m (175m)
Longest piping length after 1 st branch (Conditional application)	40m (90m)
Height between ODU - IDU	50m
Height between IDU - ODU	40m

KEY FEATURES

High Efficiency System Regardless of External Conditions

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

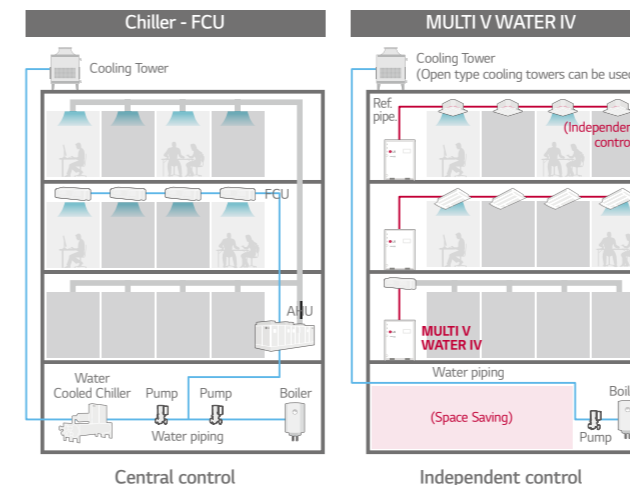
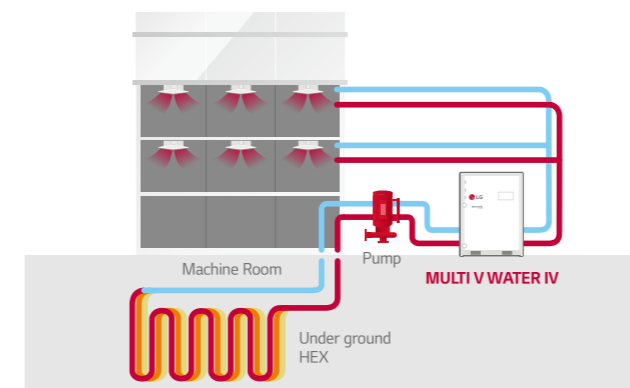


MULTI V WATER IV System for Geothermal Applications

Uses underground heat sources such as soil, ground water, lake, river, etc. as renewable energy for cooling and heating of a building. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface. It is highly efficient since it uses renewable energy.

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

* Please contact local LG office for application availability.

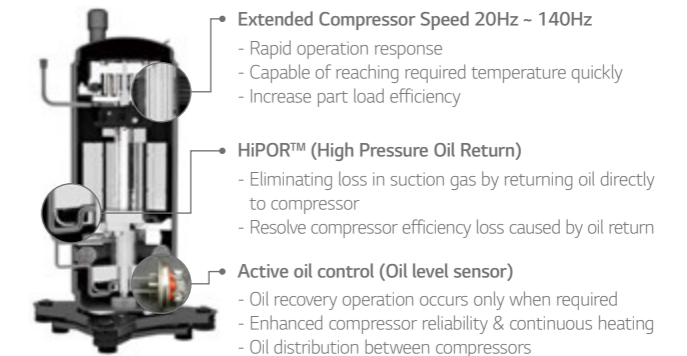


ENERGY SAVING

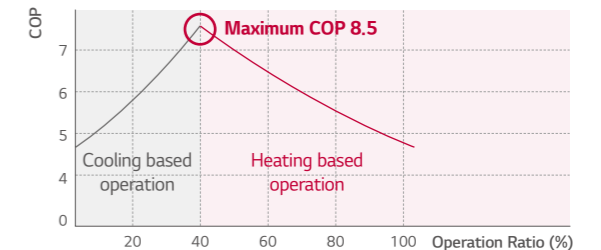
Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

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

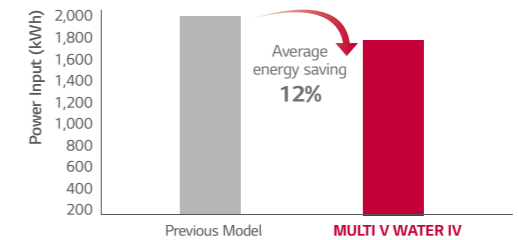


Maximum COP

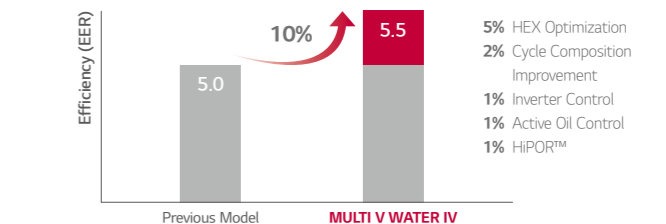


* Outside unit water inlet temperature : 7°C
 * Indoor temperature : 20°C DB / 15°C WB
 * Maximum COP Condition : Cooling 40% + Heating 60% operation

Economical, Highly Efficient System

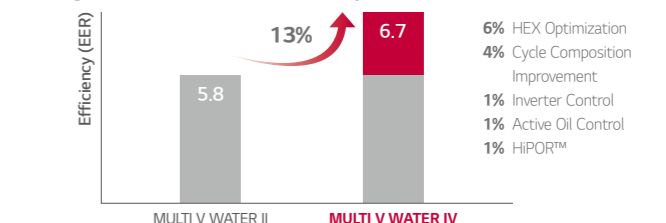


LG's 4th Generation Inverter Compressor



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

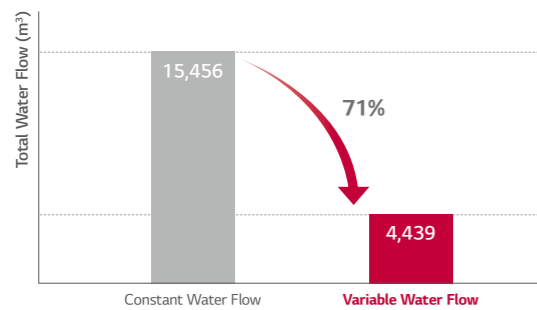
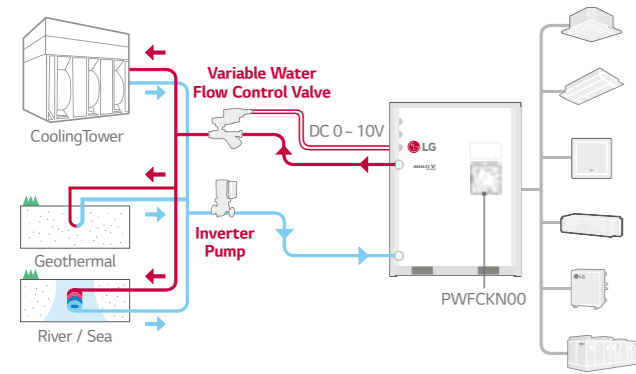
Integrated Part Load Efficiency



WATER SAVING

Variable Water Flow Control (Option) Supporting your buildings to become greener

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

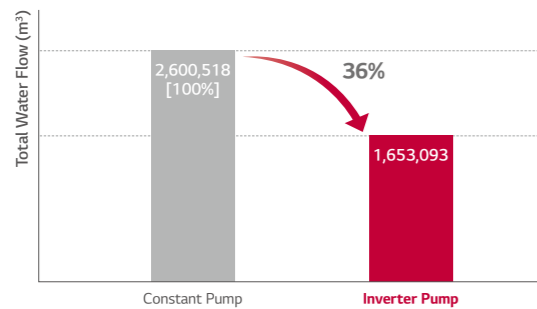


Note
1. Location : Paris, France
2. Office, 68,000m²
3. Operation time : 1,344 hours (cooling period)

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 SAVING

Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

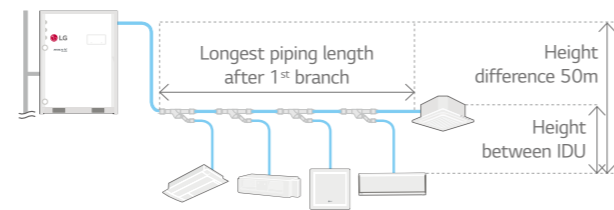
Providing 8 - 20HP (22.4 - 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

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 1st 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.

Conventional	MULTI V WATER IV
28kW x 4EA Per each 880 x 550 mm	56kW x 2EA Per each 755 x 500 mm
	61% Reduced

* 112kw, Floor area based

Lightweight

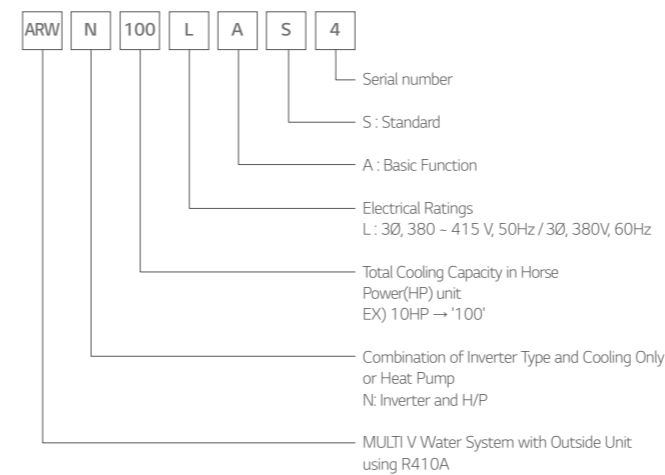
Nothing or Decrease additional load reinforcement work at building

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

154kg Previous Model	127kg MULTI V WATER IV
	18% Reduced

* Based on 28kW

Nomenclature

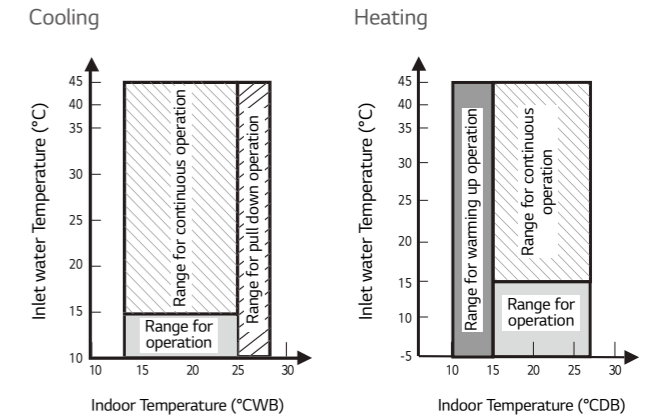


Outside Unit Function

Category	Functions	MULTI V WATER IV
Key Refrigerant Components	Variable Path of Outdoor unit HEX	-
	HiPOR™ (High Pressure Oil Return)	○
	Humidity Sensor	-
	Anti Corrosion Black Fin	-
	Oil Sensor	○
Useful Function	Dual Sensing	-
	Low Noise Operation	-
	High Static Mode of Outdoor Unit Fan	-
	Partial Defrosting	-
	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	-
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	-
	Outdoor Unit Control Refer to Humidity	-
	Defrost / Deicing	-
	High Pressure Switch	○
Reliability	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
Central Controller	Test Run Function	○
	AC Ez (Simple Controller)	PQCSZ25050
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACSA000
	ACP (Advanced Control Platform) IV	PQPC22A0
	ACP (Advanced Control Platform) 5	PACPSA000
BNU (Building Network Unit)	AC Manager 5	PACM5A000
	ACP Lonworks	PLNWKB000
Installation	ACP BACnet	PQNF17C0
	Refrigerant Charging Kit	-
PDI (Power Distribution Indicator)	Variable Water Flow Valve Control Kit	PWFCKN000
	Standard	PPWRDB000
Cool / Heat Selector	Premium	PQNUD1S40
	Low Ambient Kit	PRDSBM
IO Module (ODU Dry Contact)	Low Ambient Kit	-
	IO Module (ODU Dry Contact)	PVDSMN000
Cycle Monitoring Device	Cycle Monitoring Device	PRCTILO
	Mobile LGMV	PLGMVW100

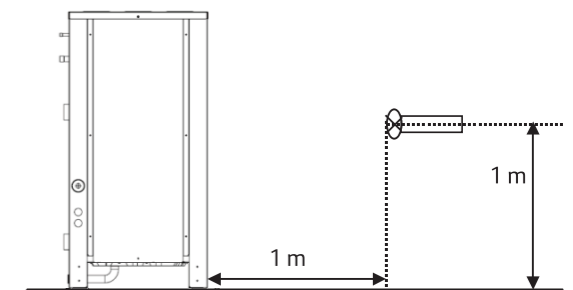
※ ○ : Applied, - : Not Applied

Operation Limits



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
2	Header	ARBL054
		ARBL057
		ARBL104
		ARBL107
3	Connection pipe of Outdoor Units	ARBL1010
		ARBL2010
		ARCNN21
		ARCNN31
		ARCNN41

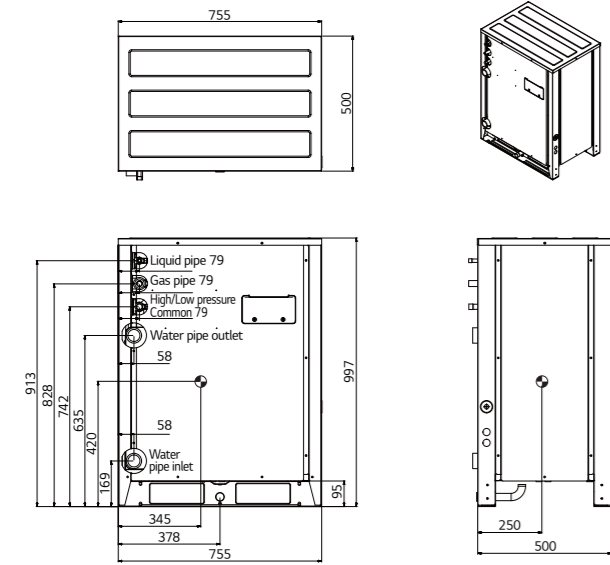
MULTI V WATER IV Heating Dissipation Value by Model

Model	HP	Heating Dissipation Value		
		W	kcal/h	kcal/s
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°C, WB : 32°C
 ※ A design stage should be considered to ventilation system in mechanical room.

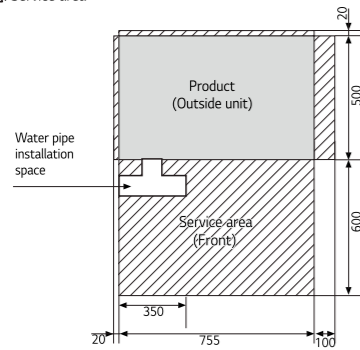
ARWN080LAS4 / ARWN100LAS4 / ARWN140LAS4 / ARWN200LAS4

[Unit : mm]

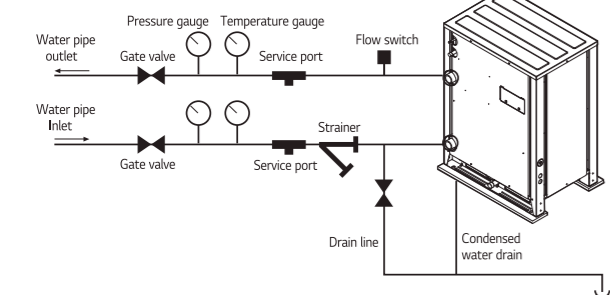


Individual Installation

▨ Service area



Water Piping Installation



Precaution of Installation

1. Do not install the unit at the outdoors. (Otherwise it may cause fire, electric shock and trouble.) Recommended ambient temperature of outdoor unit is between 0 ~ 40°C
2. Keep the water temperature between **10 ~ 45°C**. Otherwise it may cause the breakdown. Standard water supply temperature is 30°C for cooling and 20°C for heating.
3. Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
4. Be careful of the **water purity control**. Otherwise it may cause the breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product Data Book)
5. The water pressure resistance of the water pipe system of this product is **1.98MPa**
6. Always install a **trap** so that the drained water does not back flush
7. Install a **pressure gauge and temperature gauge** at the inlet and outlet of the water pipe.
8. **Flexible joints** must be installed not to cause any leakage from the vibration of pipes.
9. Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
10. 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.)
11. When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is **50%**.)
12. 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.
 - 1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
 - 2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
 - 3) When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
 - 4) As the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
 - 5) As a result of the damage of the heat exchanger from the freezing, the 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 131,000 people. In 1988, after two years of construction, the new headquarters for Bouygues Construction was officially opened for business. Named Challenger, the complex became a technological showcase for late 20th century architecture.

LG Solution

Bouygues decided to convert their headquarters into an eco-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/cm ²	45	45
	Head Loss	kPa	10.7	28.6
	Rated Water Flow	LPM	77	96
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
	Oil Type	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Pipe Connctions	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Gas Pipe	mm (inch)	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)
	Outlet	A (inch)	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)
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	58.0
	Heating	dB(A)	51.0	57.0
Sound Power Level	Cooling	dB(A)	59.0	70.0
	Heating	dB(A)	63.0	69.0
Communication Cable	mm ² 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
	t-CO ₂ eq.		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
		3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		13 (20)	16 (25)	23 (35)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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	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/cm ²	45	45
	Head Loss	kPa	30.1	10.7 + 10.7
	Rated Water Flow	LPM	192	77 + 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
	Oil Type	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Pipe Connctions	Liquid Pipe	mm (inch)	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)
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)
	Outlet	A (inch)	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)
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	51.8
	Heating	dB(A)	60.0	55.1
Sound Power Level	Cooling	dB(A)	66.0	63.8
	Heating	dB(A)	72.0	67.1
Communication Cable	mm ² 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
	t-CO ₂ eq.		6.3	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
		3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		32 (50)	26 (40)	29 (45)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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
	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.	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
	Pipe Connctions	Liquid Pipe	mm (inch)	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)
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)	58.3	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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			35 (44)	39 (48)	45 (56)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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

ARWN300LAS4 / ARWN340LAS4 / ARWN400LAS4

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/cm ²	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
	Pipe Connctions	Liquid Pipe	mm (inch)	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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			49 (60)	55 (64)	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero

- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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)	
Pipe Connctions	Liquid Pipe	mm (inch)	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)	
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)	
	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)	
	Drain Outlet	A (inch)	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	
	Heating	dB(A)	62.1	62.3	
Sound Power Level	Cooling	dB(A)	71.7	71.9	
	Heating	dB(A)	74.1	74.3	
Communication Cable	mm ² 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	
	t-CO ₂ eq.		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	
		3, 380, 60	3, 380, 60	3, 380, 60	
Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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)	
Pipe Connctions	Liquid Pipe	mm (inch)	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)	
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)	
	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)	
	Drain Outlet	A (inch)	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	
	Heating	dB(A)	63.4	62.0	
Sound Power Level	Cooling	dB(A)	69.8	74.0	
	Heating	dB(A)	75.4	76.0	
Communication Cable	mm ² 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	
	t-CO ₂ eq.		24.6	24.6	
	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, 60	3, 380, 60	3, 380, 60	
Number of Maximum Connectable Indoor Units ¹⁾		64	64	64	

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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)
	Oil Charge	cc	11,600	11,600	11,600
Pipe Connctions	Liquid Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	Ø 22.2 (7/8)
	Gas Pipe	mm (inch)	Ø 44.5 (1-3/4)	Ø 44.5 (1-3/4)	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 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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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
Pipe Connctions	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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	45	45
	Head Loss	kPa	10.7	28.6
	Rated Water Flow	LPM	77	96
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
	Oil Type	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Pipe Connctions #1	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Low Pressure Gas Pipe	mm (inch)	Ø 22.2 (7/8)	Ø 22.2 (7/8)
	High Pressure Gas Pipe	mm (inch)	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)
	Outlet	A (inch)	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)
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
	Heating	dB(A)	51.0	53.0
Sound Power Level	Cooling	dB(A)	59.0	62.0
	Heating	dB(A)	63.0	65.0
Communication Cable	mm ² 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
	t-CO ₂ eq.		12.1	12.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		3, 380 - 415, 50	3, 380 - 415, 50
			3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		13 (20)	16 (25)	23 (35)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	45	45
	Head Loss	kPa	30.1	10.7 + 10.7
	Rated Water Flow	LPM	192	77 + 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
	Oil Type	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Pipe Connctions #1	Liquid Pipe	mm (inch)	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)
	High Pressure Gas Pipe	mm (inch)	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)
	Outlet	A (inch)	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)
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
	Heating	dB(A)	60.0	54.0
Sound Power Level	Cooling	dB(A)	66.0	62.0
	Heating	dB(A)	72.0	66.0
Communication Cable	mm ² 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
	t-CO ₂ eq.		6.3	24.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		3, 380-415, 50	3, 380-415, 50
			3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾		32(50)	26(40)	29(45)

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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
Pipe Connctions #1	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	mm ² 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	
	t-CO ₂ eq.		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	
		3, 380, 60	3, 380, 60	3, 380, 60	
Number of Maximum Connectable Indoor Units ¹⁾		35 (44)	39 (48)	45 (56)	

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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)	
	Oil Charge	cc	5,800	5,800	6,000
Pipe Connctions #1	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	mm ² 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	
		3, 380, 60	3, 380, 60	3, 380, 60	
Number of Maximum Connectable Indoor Units ¹⁾		49 (60)	55 (64)	64	

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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
Pipe Connctions #1	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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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	cc	8,800	8,800	9,000
Pipe Connctions #1	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	mm ² 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
			3, 380, 60	3, 380, 60	3, 380, 60
Number of Maximum Connectable Indoor Units ¹⁾			64	64	64

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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/cm ²	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)
	Oil Charge	cc	11,600	11,600	11,600
Pipe Connctions #1	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	mm ² 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
Power Supply	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	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

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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	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/cm ²	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
Pipe Connctions #1	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	mm ² 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
Power Supply	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	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

1) The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%. (2.2kW criteria)

* This product contains Fluorinated Greenhouse Gases. (R410A)

Note : 1. Capacities and Inputs 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), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

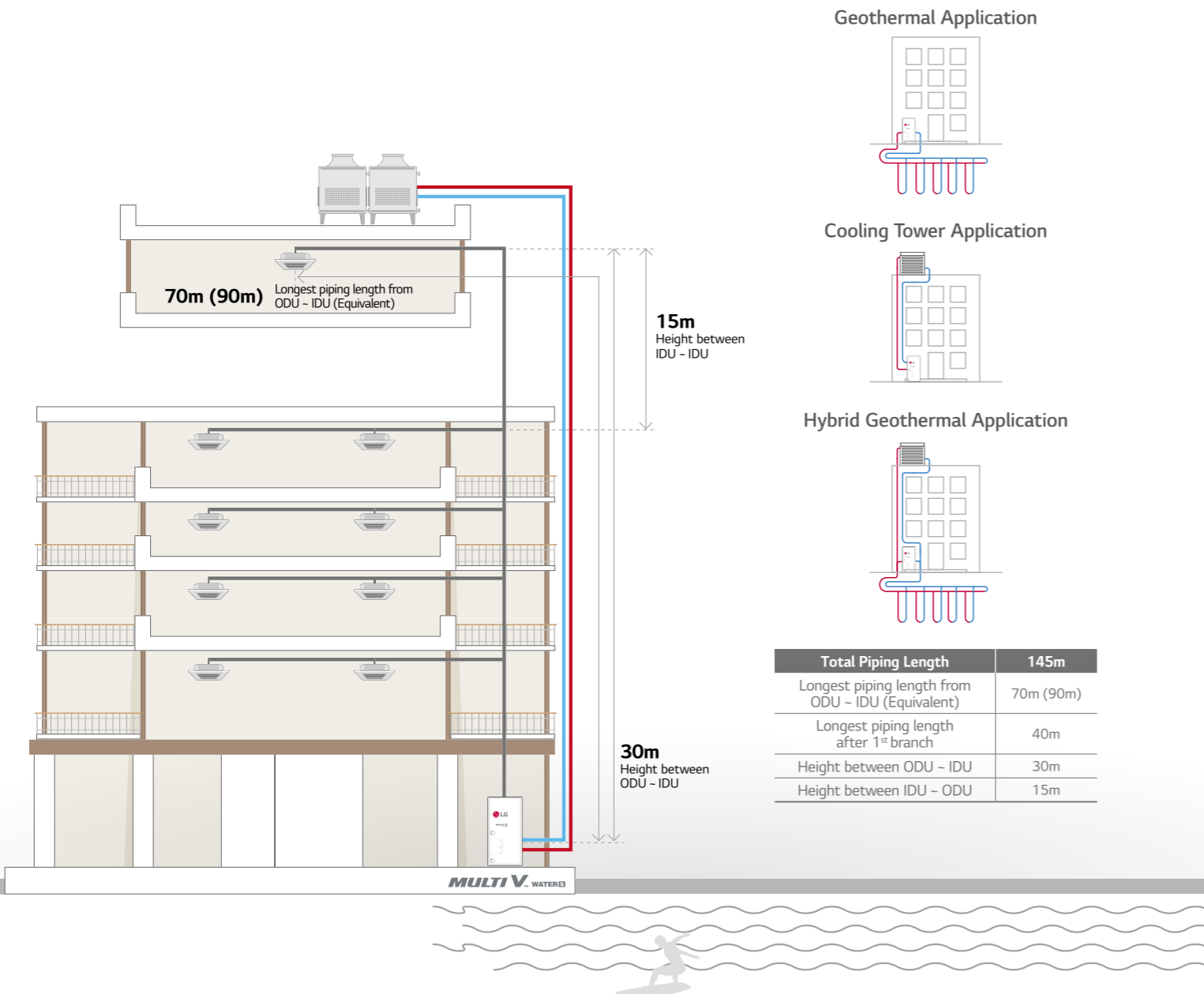
2. Capacities are net capacities

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

4. Add an anti freeze to circulation water when outside 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 S

- Water Cooled VRF Heat Pump
- 11.2 ~ 15.5kW (Cooling capacity based)
- 1Φ, 220 ~ 240V, 50 ~ 60Hz
- Outdoor unit installed indoor



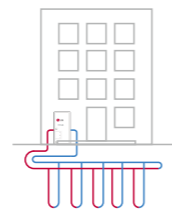
Features & Benefits

- Independent weather condition
- Utilizing renewable source
- Replacement of Chiller-FCU system

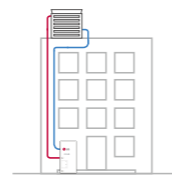
Key Applications

- Small-medium scale office
- Building using geothermal & various water heat source
- Luxurious residential building
- Seaside hotel

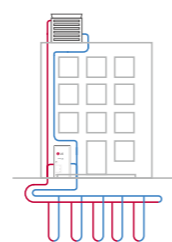
Geothermal Application



Cooling Tower Application



Hybrid Geothermal Application



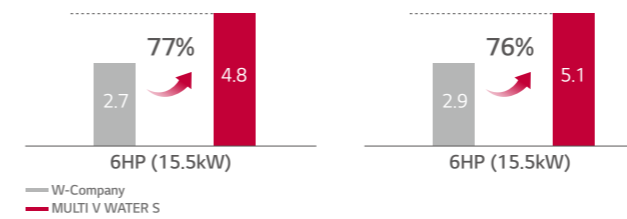
ENERGY SAVING

World's First Class Cooling and Heating Efficiency

MULTI V WATER S EER and COP is superior

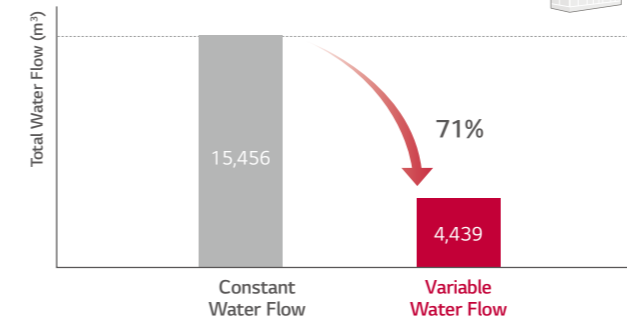
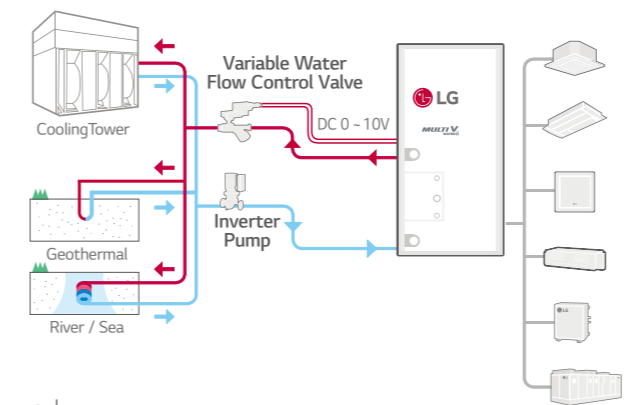
EER is Max. 81% higher than W-Company

COP is Max. 76% higher



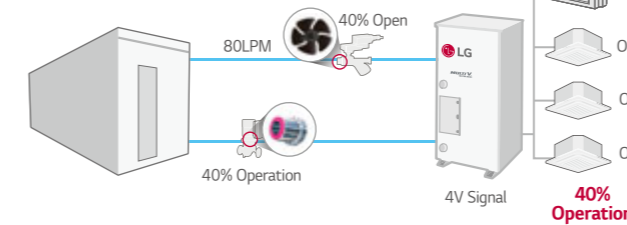
Variable Water Flow Control (Option)

Supporting your buildings to become greener



Note: 1. Location : France
 2. Total operationn time : 1,344hr
 3. Indoor temperature : Normal office environment
 4. Outdoor temperature : Average summer temperature
 5. Inlet flow temperature : Approximately 30°C

Valve control



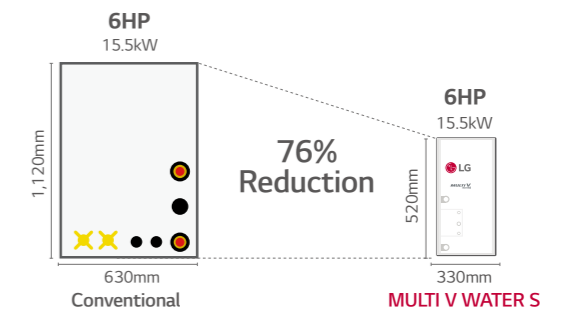
Signal [V]	Water Flow
10	100%
9	90%
8	80%
7	70%
6	60%
5	50%
4	40%

SPACE SAVING & CONVENIENT INSTALLATION

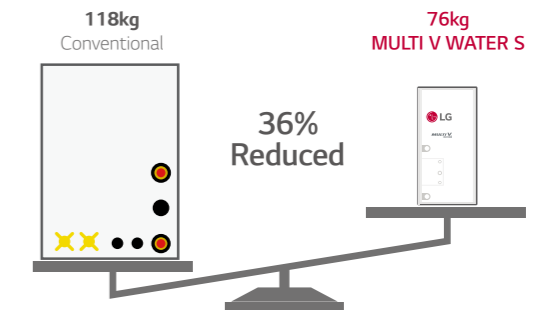
Compact Size

Outdoor unit can be placed inside a closet, no need for roof or outside space. It can be applicable for small space application such as shops in city centers and malls.

Foot print area

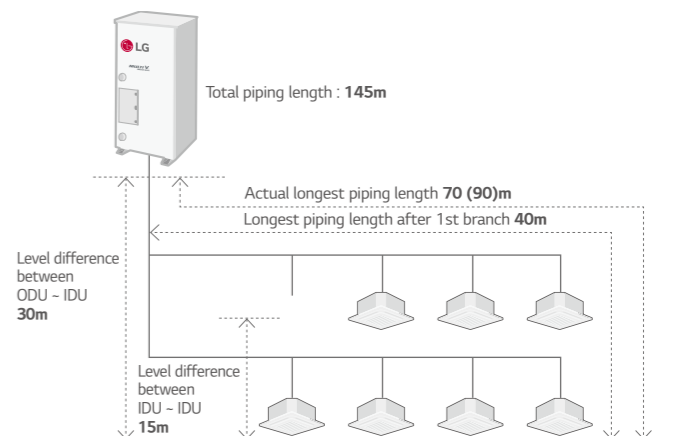
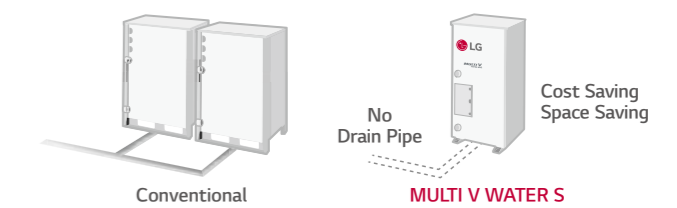


Weight

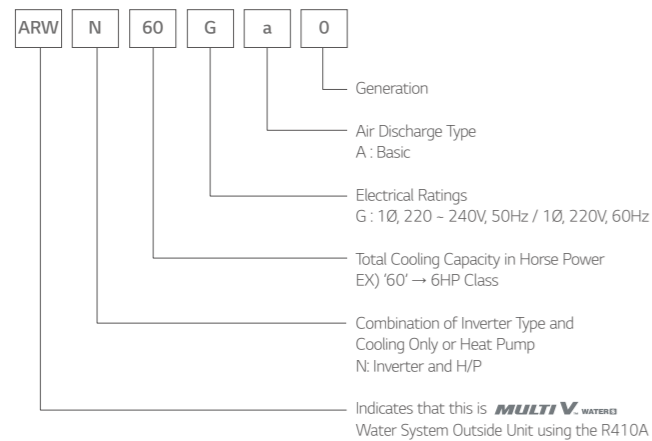


Convenient Installation

Absence of drain pipe makes installation easier.



Nomenclature

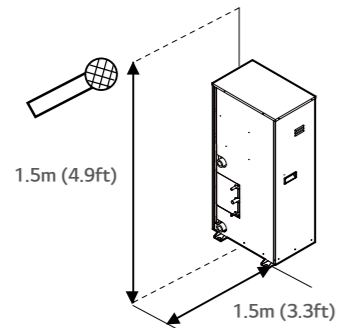


Outside Unit Function

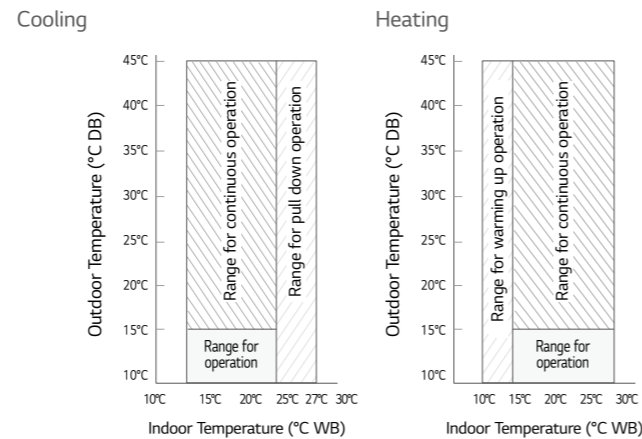
Category	Functions	MULTI V WATER S
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	-
	Anti Corrosion Black Fin	-
	Oil Sensor	-
Useful Function	Dual Sensing	-
	Low Noise Operation	-
	Hgh Static Mode of Outdoor Unit Fan	-
	Partial Defrosting	-
	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	-
	AC Smart IV	PACS4B000
	AC Smart 5	PAC55A000
	ACP (Advanced Control Platform) IV	PQCPC22A0
BNU (Building Network Unit)	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
Installation	ACP Lonworks	-
	ACP BACnet	-
PDI (Power Distribution Indicator)	Refrigerant Charging Kit	PRAC1
	Variable Water Flow Valve Control Kit	PRVCO
Cool / Heat Selector	Standard	PPWRDB000
	Premium	-
Cycle Monitoring Device	Low Ambient Kit	-
	IO Module (ODU Dry Contact)	-
Mobile LGMV	LGMV	PRCTILO
	Mobile LGMV	-

※ ○ : Applied, - : Not Applied

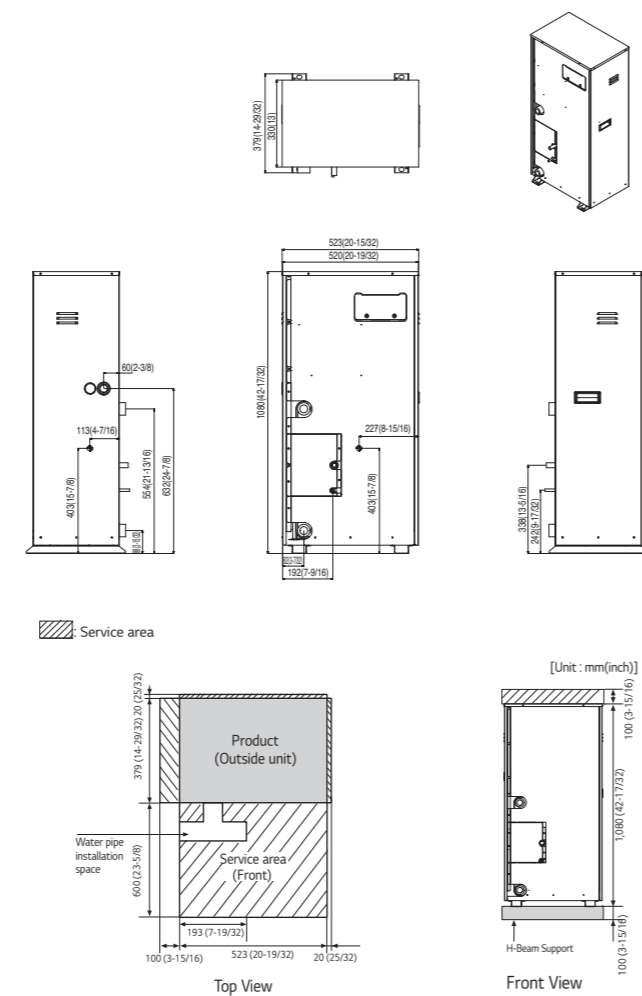
Position of Sound Pressure Level Measuring



Heat Pump



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



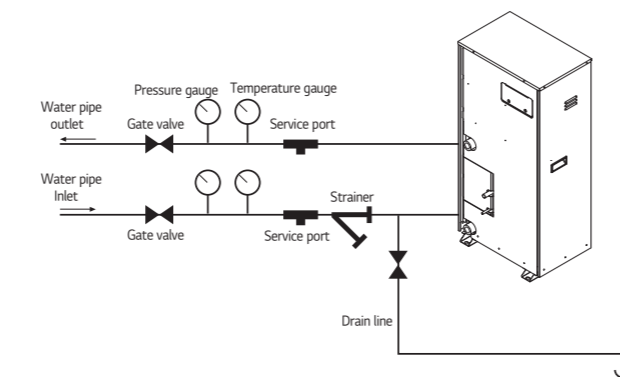
MULTI V WATER S



ARWN60GA0

HP			6
Capacity	Cooling (Rated)	kW	15.5
	Heating (Rated)	kW	18.0
Input	Cooling (Rated)	kW	3.20
	Heating (Rated)	kW	3.50
EER			4.84
COP	Rated Capacity		5.14
Exterior	Color	Warm Gray	
	RAL Code (Classic)	RAL 7044	
Heat Exchanger	Type	Cupro brazed Stainless Steel Plate	
	Maximum Pressure	kgf/cm ²	45
	Resistance	kPa	28.4
	Head Loss	LPM	60
Compressor	Type	BLDC Inverter Twin Rotary	
	Combination x No.	(Inverter) x 1	
	Motor Output x Number	W x No.	4,000 x 1
	Oil Type	FVC68D (PVE)	
Pipe Connctions	Liquid Pipe	mm (inch)	Ø 9.52 (3/8)
	Gas Pipe	mm (inch)	Ø 19.05 (3/4)
Water Connecting Pipes	Inlet	A (inch)	32A (PT 1-1/4)
	Outlet	A (inch)	32A (PT 1-1/4)
Dimensions (W x H x D)	mm x No.		(520 X 1,080 X 330) x 1
Dimensions (W x H x D) - Shipping	mm x No.		(688 x 1,170 x 414) x 1
Net Weight	kg x No.		76 x 1
Shipping Weight	kg x No.		82 x 1
Sound Pressure Level	Cooling	dB(A)	50.0
	Heating	dB(A)	50.0
Sound Power Level	Cooling	dB(A)	62.0
	Heating	dB(A)	62.0
Communication Cable	mm ² x No. (VCTF-SB)		1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	R410A	
	Precharged Amount in Factory	kg	1.0
	t-CO ₂ eq.	2.1	
Power Supply			Electronic Expansion Valve
	Ø, V, Hz	1, 220 - 240, 50	
Number of Maximum Connectable Indoor Units			1, 220, 60
			13

* This product contains Fluorinated Greenhouse Gases. (R410A)
Note : 1. Capacities are based on the following conditions :
- Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Water 30°C (86°F)
- Heating Temperature : Indoor 20°C (68°F) DB / 15°C (59°F) WB / Water 20°C (68°F)
- Piping Length : Interconnected Pipe Length = 7.5m
- Difference Limit of Elevation (Outside - Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national codes.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
5. Add an anti freeze to circulation water when outside 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 UNIT / CEILING MOUNTED CASSETTE /
CEILING CONCEALED DUCT / FRESH AIR INTAKE UNIT /
CEILING & FLOOR CONVERTIBLE UNIT /
CEILING SUSPENDED UNIT /
CONSOLE & FLOOR STANDING UNIT /
/ 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	○	○	○
Comfort	Sleep Mode	○	○	○
	Timer (on / off)	○	○	○
	Timer (weekly)	○	○	○
	Two Thermistor Control	○	○	○
	Group Control	○	○	○

※ ○: Applied, - : Not applied

SMART

Wi-Fi Control

Control your air conditioners by using the smart internet devices as Android or iOS based smartphones.



LG SmartThinQ

Search "LG SmartThinQ" on Google market or Appstore then download the app.

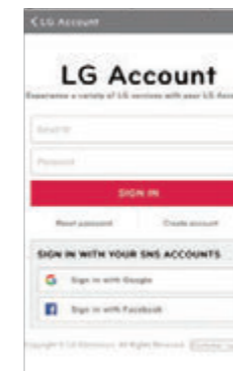
Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.

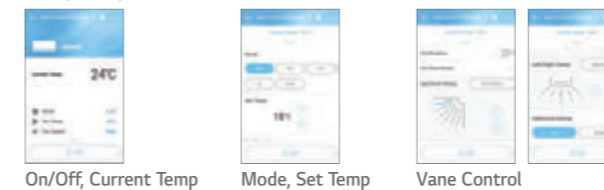


Easy Registration and Log-in

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



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

Let's every member of your family choose their own preferred air conditioning temperature and fan speed, then save the settings in their app to run later. You can save the setting for each air conditioner as well.

Multiple Devices



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

Multi-Control



PERFECT HEALTHCARE

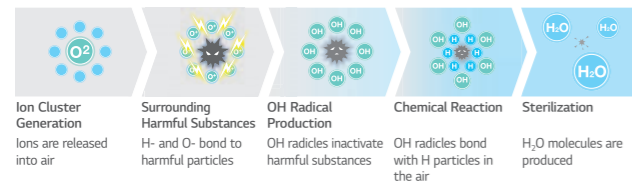
Ionizer^{PLUS}

The powerful Ionizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for 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 harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.



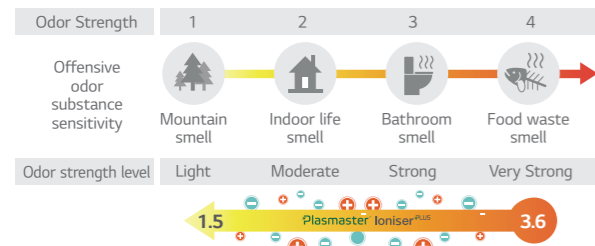
Sterilization Performance Evaluations

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



2.1 odor strength decrease in 60 minutes

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



Auto Cleaning

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

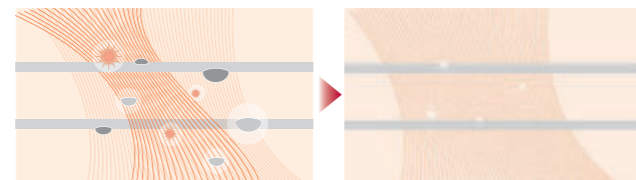
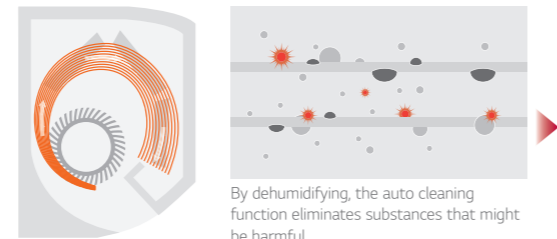
Pain Point

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



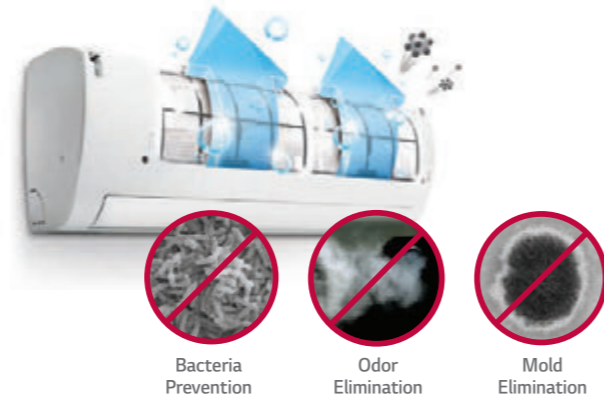
Cleans Filter with Regular Airflow

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



Removes Harmful Particles

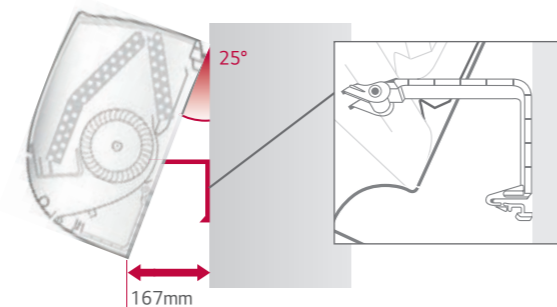
Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



INSTALLATION

Installation Support Clip

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



FAST COOLING & HEATING

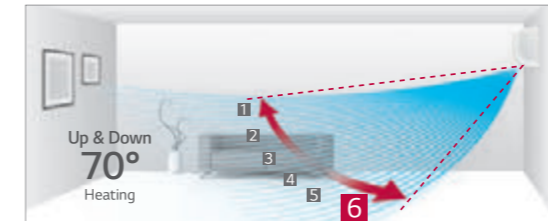
Auto Swing

Cool air reaches out to the entire room regardless of where the air conditioner is installed.

* Specifications may vary for each model.

6-Step Vane, Control up to 70°

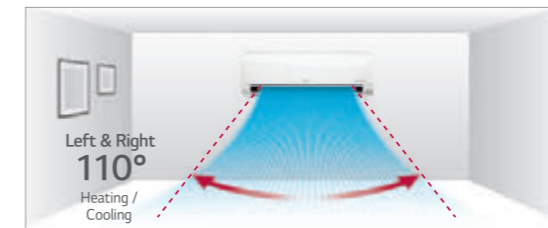
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control up to 100°

The louver can be adjusted by manual.



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

Easy and Simple Control

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



Up / Down Swing

Jet Cool

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

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

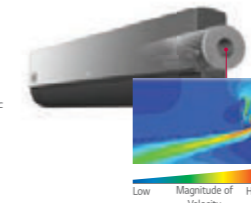
One Click "Jet Mode"

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



More Powerful Performance

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

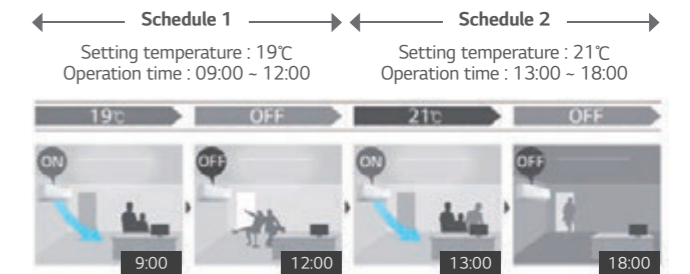


COMFORT

Scheduled Operation

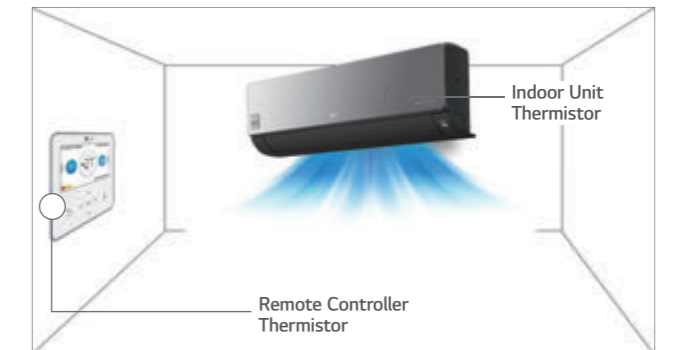
You can set the daily temperature, fan speed, the operation mode and automatic on/off time for two weeks. It will keep running on that time until cancelled by the user or after setting period.

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



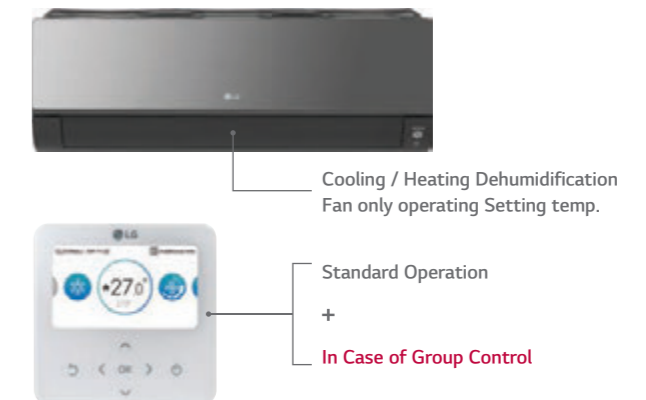
Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can 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
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)	m ³ /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
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			PRGK024A0		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (washable / anti-fungus)			○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			○		

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



ARNU18GSKR4 / ARNU24GSKR4

Model		Unit	ARNU18GSKR4	ARNU24GSKR4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Color			Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005
Dimensions (W x H x D)	Body	mm	998 x 345 x 212	998 x 345 x 212
	Shipping	mm	1,080 x 422 x 281	1,080 x 422 x 281
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m ³ /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
			1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU18GSKR4	ARNU24GSKR4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		○

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

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)	m ³ /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		mm ² 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	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		PRGK024A0	
Independent Power Module		PRIPO	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200 ¹⁾	

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

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)	m ³ /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		mm ² 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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

Chassis	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			PRGK024A0		
Independent Power Module			PRIPO		
Robot Cleaner			-		
Pre Filter (washable / anti-fungus)			○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			○		

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

STANDARD



ARNU18GSK*4 / ARNU24GSK*4

Model		Unit	ARNU18GSK*4	ARNU24GSK*4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
	Exterior Color		White	White
RAL Code			RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	975 x 354 x 209	975 x 354 x 209
	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m ³ /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		mm ² x No.	1, 220, 60	1, 220, 60
			1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Note : 1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

Chassis	ARNU18GSK*4	ARNU24GSK*4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	○	○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)	○	○
Wi-Fi	○	○

※ ○ : Applied, - : Not applied

Option : Refer to model name in table



ARNU30GSVA4 / ARNU36GSVA4

Model		Unit	ARNU30GSVA4	ARNU36GSVA4
Cooling Capacity		kW	8.8	10.4
Heating Capacity		kW	9.4	10.8
Power Input (H / M / L)	Nominal	W	54 / 43 / 31	85 / 51 / 36
	Exterior Color		White	White
RAL Code			RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	1,190 x 346 x 265	1,190 x 346 x 265
	Shipping	mm	1,265 x 432 x 335	1,265 x 432 x 335
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	113 x 1	113 x 1
	Air Flow Rate (H / M / L)	m ³ /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		mm ² x No.	1, 220, 60	1, 220, 60
			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	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		-
Independent Power Module		PRIP0
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	○	○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)	○	○
Wi-Fi		PWFMD200 ¹⁾

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

1) External installation only

CEILING MOUNTED CASSETTE



Features & Benefits

- Human Detection Control allows energy saving & comfort through "wind direction operation"
- New multi-functional 4 way cassette panel for large sizes with aesthetic shape
- The Independent Vane Operation makes desired and comfortable flow

Key Applications

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

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

※ ○ : Applied, - : Not applied

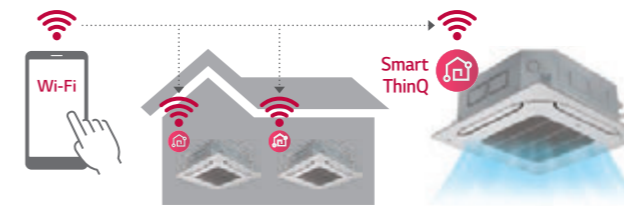
SMART

Wi-Fi Control

Control your air conditioners by using the smart internet devices as Android or iOS based smartphones.

LG SmartThinQ
 Search "LG SmartThinQ" 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.



Wi-Fi Connectivity

Allows every member of your family choose their own preferred air conditioning temperature and fan speed, then save the settings in their app to run later. You can save the setting for each air conditioner as well.

Multiple Devices



Multi-Control



ENERGY EFFICIENCY

Human Detect Sensor & Humidity Sensor

Apply human detect sensor
 Apply vision sensor
 - Saving energy
 - Supply comfortable flow
 - Sensor is optional accessory than can only be applied to PT-MCHW0

Comfortable and Power Saving Control based on Humidity
 Apply humidity sensor
 - Saving energy
 (To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed)

Direction control based on human motion

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

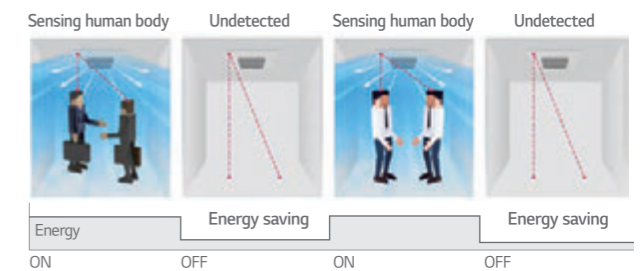


Detection range



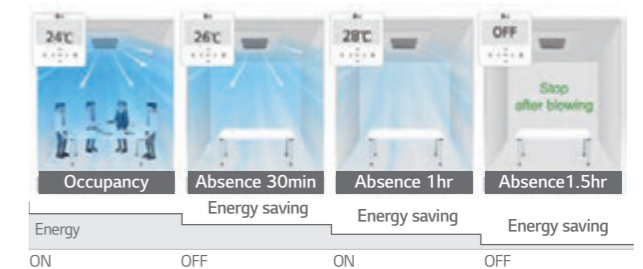
On/Off mode

The indoor unit automatically stops when detecting absence. It runs as the same as previous mode when sensing human body.



Temperature control mode

Energy savings by automatically setting target temperature during absence. (5/10/15/30/60min)



PERFECT HEALTHCARE

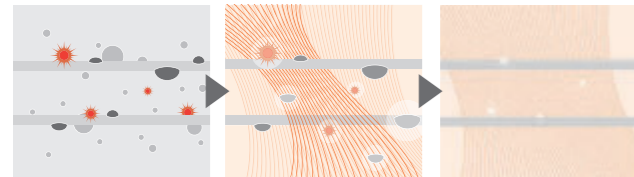
Auto Cleaning

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

* Specifications may vary for each model.

Cleans Filter with Regular Airflow

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



By dehumidifying, the auto cleaning function eliminates substances that might be harmful.
 The indoor environment remains odorless with the advanced deodorizing function.
 By preventing polluting of the heat exchanger caused by various germs and bacteria, the performance and life span of the air conditioner do not wither away even after a period of 10 years.

COMFORT

Quick Control

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

Conventional
Communication with indoor unit sequentially from 1st to end

New
Communication with user-controlling unit directly

1,200bps + Sequential transmission
 New: 9,600bps + Direct Transmission → 10times faster

* Ordinary outdoor unit communicates with indoor unit in regular transmission.
 ** In case of communication between outdoor unit and 64th indoor unit.

Group Control

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

Conventional
Standard Operation
Cooling / Heating Dehumidification Fan only operating Setting temp.

New
Standard Operation + In case of group control
Cooling / Heating Dehumidification Fan only operating Setting temp.

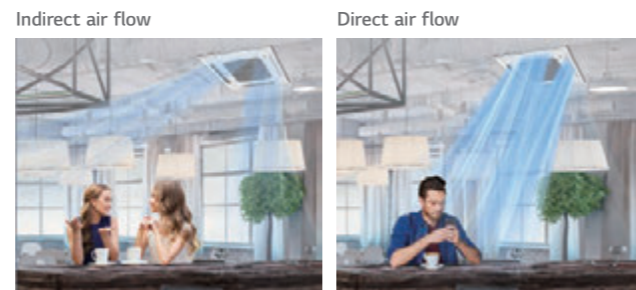
All type of indoor units in a group should be the same.

Sub function isn't applied

COMFORT

Independent Vane Control

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



6-Step Vane Control

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

20° 30° 40° 50° 60° 70°

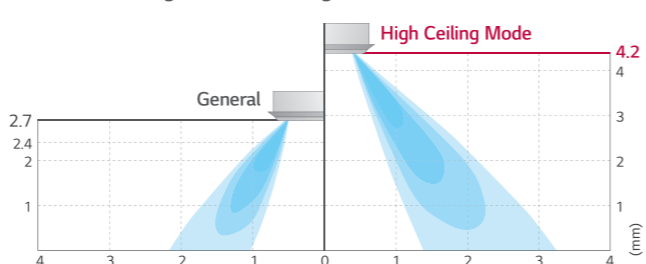
20° 70°

Left and Right (Auto Swing) 120°

Up and Down (6 step) 20° 70° Adjustable Vane

High Ceiling Mode

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



INSTALLATION

Compact and Stylish Design

New 4 way cassette panel is adapted unibody shape which is matching ceiling. Also panel size fits with ceiling tile.



Compact Size

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

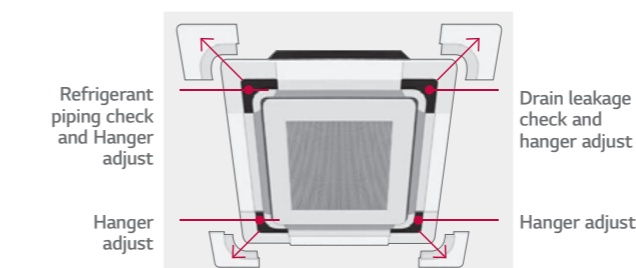
Capacity	Height
7.1 - 9.0kW	204mm
10.6kW	246mm
12.3 - 15.8kW	288mm

* Length x Width : 840 x 840mm

Convenient Panel Installation

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

Detachable Corner Design

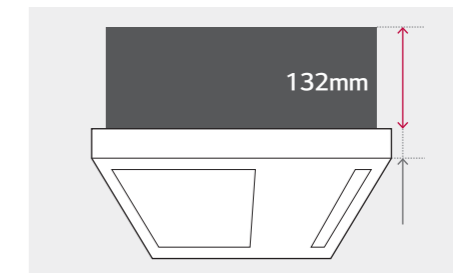


Drain leakage check
 Hanger adjust

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

Minimized Height

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

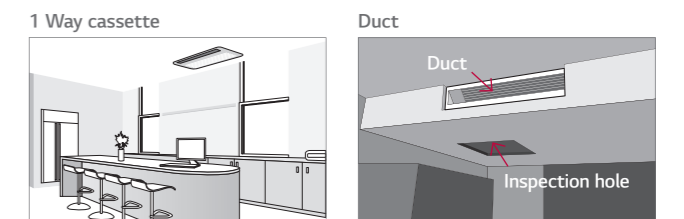


Size Comparison (Unit : mm)

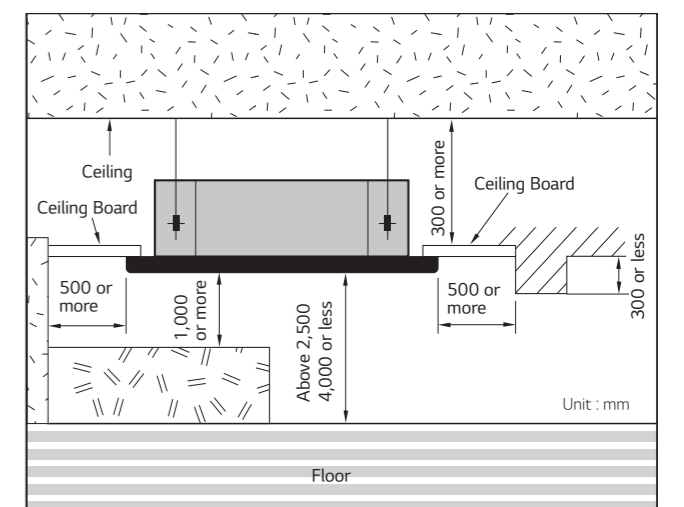
	A Company	B Company	LG
1 Way Cassette	215	230	132

Flexible Installation

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



Installation Standard



4 WAY CASSETTE (570 X 570)



ARNU05GTRD4 / ARNU07GTRD4 / ARNU09GTRD4 / ARNU12GTRD4
ARNU15GTQD4 / ARNU18GTQD4 / ARNU21GTQD4

Model		Unit	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4
Cooling Capacity	kW		1.6	2.2	2.8	3.6	4.5	5.6	6.0
Heating Capacity	kW		1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
Dimensions (W x H x D)	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m ³ /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	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre 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)	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)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	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	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² 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	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	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0
	Exterior Color		Morning Fog	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	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	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	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4
Drain Pump				○			
Cassette Cover				PTDCQ			
Refrigerant Leakage Detector				PRLDNVSO			
EEV Kit				PRGK024A0 (-4.5kW)			
Independent Power Module				PRIP0			
Robot Cleaner				-			
Pre Filter (washable / anti-fungus)				○			
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) PDRYCB400 (2 points input) PDRYCB501 (Modbus)			
External Input (1 point)				○			
Wi-Fi				PWFMD200			

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



ARNU05GTRC4 / ARNU07GTRC4 / ARNU09GTRC4 / ARNU12GTRC4
ARNU15GTQC4 / ARNU18GTQC4 / ARNU21GTQC4

Model		Unit	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Cooling Capacity	kW		1.6	2.2	2.8	3.6	4.5	5.6	6.0
Heating Capacity	kW		1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
Dimensions (W x H x D)	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m ³ /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	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre 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)	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)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	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	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² 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	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	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0
	Exterior Color		Morning Fog	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	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	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	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Drain Pump				○			
Cassette Cover				PTDCQ			
Refrigerant Leakage Detector				PRLDNVSO			
EEV Kit				PRGK024A0 (-4.5kW)			
Independent Power Module				PRIP0			
Robot Cleaner				-			
Pre Filter (washable / anti-fungus)				○			
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 point)				○			
Wi-Fi				-			

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

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	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
	Shipping	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	30 x 1	30 x 1	30 x 1	135 x 1
	Air Flow Rate (H / M / L)	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)
	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	20.8	20.8	20.8
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33
Sound Power Levels (H / M / L)		dB(A)	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
Communication Cable		mm ² 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	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4
Drain Pump			○	
Cassette Cover			PTDCM	
Refrigerant Leakage Detector			PRLDNVSO	
EEV Kit			-	
Independent Power Module			PRIPO	
Robot Cleaner			-	
Pre Filter (washable / anti-fungus)			○	
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) PDRYCB400 (2 points input) PDRYCB502 (Modbus)	
External Input (1 point)			○	
Wi-Fi			PWFMD200	

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



ARNU42GTM / C4ARNU48GTMC4 / ARNU54GTMC4

Model	Unit	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Cooling Capacity	kW	12.3	14.1	15.8
Heating Capacity	kW	13.8	15.9	18.0
Power Input (H / M / L)	Nominal W	104 / 75 / 53	120 / 80 / 62	135 / 93 / 70
Dimensions (W x H x D)	Body	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	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	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	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)
	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	25.6	25.6
Sound Pressure Levels (H / M / L)		dB(A)	44 / 41 / 38	46 / 43 / 41
Sound Power Levels (H / M / L)		dB(A)	58 / 55 / 50	60 / 56 / 55
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50
Communication Cable		mm ² x No.	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
	Exterior Color		Morning Fog	Morning Fog
	RAL Code		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 50 x 35 x 950
	Net Weight	kg	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	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Drain Pump			○
Cassette Cover			PTDCM
Refrigerant Leakage Detector			PRLDNVSO
EEV Kit			-
Independent Power Module			PRIPO
Robot Cleaner			-
Pre Filter (washable / anti-fungus)			○
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) PDRYCB400 (2 points input) PDRYCB502 (Modbus)
External Input (1 point)			○
Wi-Fi			PWFMD200

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

4 WAY CASSETTE HIGH SENSIBLE (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	19 / 15 / 12	22 / 17 / 14	25 / 17 / 14	27 / 18 / 14
	Body	mm	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840
Dimensions (W x H x D)	Shipping	mm	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917
	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	135 x 1	135 x 1	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m ³ /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	16.0 / 14.0 / 12.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	23.5	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	39 / 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	45 / 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
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² 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
Decoration Panel (Accessory)	Model Name		PT-UMC1 PT-MCHW0	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	Morning Fog
	RAL Code		RAL 9001	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	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	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 / anti-fungus)			○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			PWFMDD200		

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



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	104 / 75 / 53
	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Dimensions (W x H x D)	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	135 x 1	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m ³ /min	22.0 / 20.0 / 18.0	23.0 / 21.0 / 18.0	26.0 / 23.0 / 20.0	30.0 / 26.0 / 23.0
	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	25.6	25.6	25.6	25.6
Sound Pressure Levels (H / M / L)		dB(A)	42 / 40 / 38	43 / 41 / 38	46 / 42 / 39	49 / 45 / 42
Sound Power Levels (H / M / L)		dB(A)	48 / 45 / 43	49 / 47 / 43	52 / 48 / 44	55 / 51 / 48
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² 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	ARNU24GTMA4	ARNU28GTMA4	ARNU36GTMA4	ARNU42GTMA4
Drain Pump			○	
Cassette Cover			PTDCM	
Refrigerant Leakage Detector			PRLDNVSO	
EEV Kit			-	
Independent Power Module			PRIP0	
Robot Cleaner			-	
Pre Filter (washable / anti-fungus)			○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)			○	
Wi-Fi			PWFMDD200	

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

2 WAY CASSETTE



ARNU09GTSC4 / ARNU12GTSC4
ARNU18GTSC4 / ARNU24GTSC4

Model	Unit	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
Cooling Capacity	kW	2.8	3.6	5.6	7.1
Heating Capacity	kW	3.2	4	6.3	8
Power Input (H / M / L)	Nominal W	16 / 14 / 11	18 / 14 / 11	19 / 16 / 14	31 / 22 / 14
Dimensions (W x H x D)	Body	mm	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600
	Shipping	mm	1,033 x 270 x 665	1,033 x 270 x 665	1,033 x 270 x 665
	Type		Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W x No.	37 x 1	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m ³ /min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1	11.8 / 10.8 / 9.8
	Motor Type		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)
	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	18.1	18.1	18.1	18.1
Sound Pressure Levels (H / M / L)	dB(A)	33 / 31 / 29	34 / 32 / 29	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)	dB(A)	42 / 40 / 38	43 / 41 / 39	44 / 42 / 40	48 / 45 / 40
Power Supply	Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
Communication Cable	mm ² 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-USC	PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	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	ARNU18GTSC4	ARNU24GTSC4
Drain Pump			○	
Cassette Cover			-	
Refrigerant Leakage Detector		PRLDNVSO		
EEV Kit		PRGK024A0 (-5.6kW)		
Independent Power Module		PRIPO		
Robot Cleaner		-		
Pre Filter (washable / anti-fungus)		○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)		○		
Wi-Fi		PWFMD200		

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

1 WAY CASSETTE



ARNU07GTUC4 / ARNU09GTUC4 / ARNU12GTUC4
ARNU18GTTC4 / ARNU24GTTC4

Model	Unit	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Cooling Capacity	kW	2.2	2.8	3.6	5.6	7.1
Heating Capacity	kW	2.5	3.2	4.0	6.3	7.1
Power Input (H / M / L)	Nominal W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450
	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	1,499 x 259 x 538
	Type		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
	Air Flow Rate (H / M / L)	m ³ /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	13.3 / 12.1 / 10.9
	Motor Type		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)
	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	13.6	13.6	13.6	15.6	15.6
Sound Pressure Levels (H / M / L)	dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)	dB(A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	56 / 51 / 48	59 / 53 / 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	mm ² 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
Decoration Panel (Accessory)	Model Name		PT-UUC (Grill) PT-UUD (Panel)	PT-UUC (Grill) PT-UUD (Panel)	PT-UUC (Grill) PT-UTD (Panel)	PT-UTC (Grill) PT-UTD (Panel)
	Exterior Color		Noble White	Noble White	Noble White	Noble White
	RAL Code		RAL 9003	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 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500
	Net Weight	kg	4.6 / 5.3	4.6 / 5.3	4.6 / 5.3	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	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Drain Pump			○		
Cassette Cover			-		
Refrigerant Leakage Detector		PRLDNVSO			
EEV Kit		PRGK024A0			
Independent Power Module		PRIPO			
Robot Cleaner		-			
Pre Filter (washable / anti-fungus)		○			
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		○			
Wi-Fi		-			

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

1 WAY CASSETTE



ARNU07GTUD4 / ARNU09GTUD4 / ARNU12GTUD4

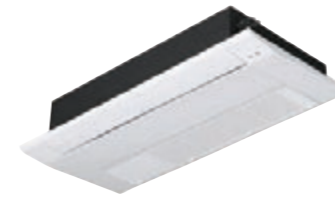
Model		Unit	ARNU07GTUD4	ARNU09GTUD4	ARNU12GTUD4
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20
	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450
Dimensions (W x H x D)	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538
	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m ³ /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
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² 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 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	ARNU07GTUD4	ARNU09GTUD4	ARNU12GTUD4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		○	
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) PDRYCB400 (2 points input) PDRYCB501 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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



ARNU18GTDD4 / ARNU24GTDD4

Model		Unit	ARNU18GTDD4	ARNU24GTDD4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.1
Power Input (H / M / L)	Nominal	W	38 / 28 / 24	51 / 33 / 26
	Body	mm	1,180 x 132 x 450	1,180 x 132 x 450
Dimensions (W x H x D)	Shipping	mm	1,499 x 259 x 538	1,499 x 259 x 538
	Type		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m ³ /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
			1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UTC (Grill) PT-UTD (Panel)	PT-UTC (Grill) PT-UTD (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	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	ARNU18GTDD4	ARNU24GTDD4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		-
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		○
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) PDRYCB400 (2 points input) PDRYCB503 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMDD200

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

CEILING CONCEALED DUCT



Features & Benefits

- Easy and flexible duct working thanks to adjust air volume by E.S.P (External Static Pressure) control function
- Invisible product (Hidden in ceiling) coordinates with any interior design
- Quiet and efficient operation

Key Applications

- Office
- Hotel
- Retail
- Residential building

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

※ ○ : Applied, - : Not applied

SMART

Wi-Fi Control

Control your air conditioners by using the smart internet devices as Android or iOS based smartphones.

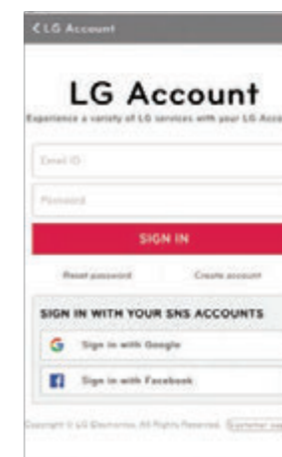
LG SmartThinQ
 Search "LG SmartThinQ" on Google market or Appstore then download the app.

Access your air conditioner anytime and from anywhere

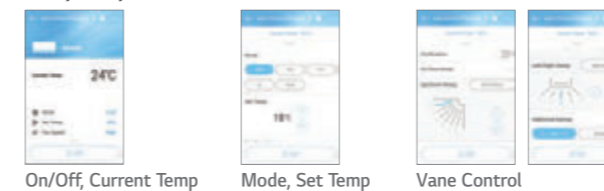


Easy Registration and Log-in

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



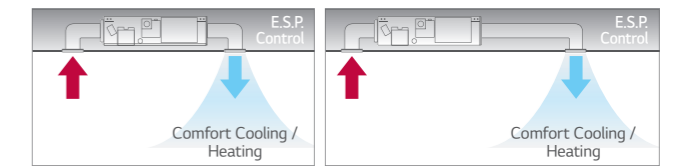
Simple operation for various functions



ENERGY EFFICIENCY

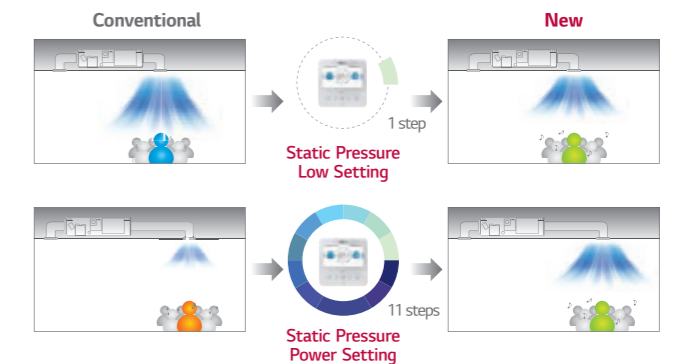
E.S.P.(External Static Pressure) Control

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 Steps Control

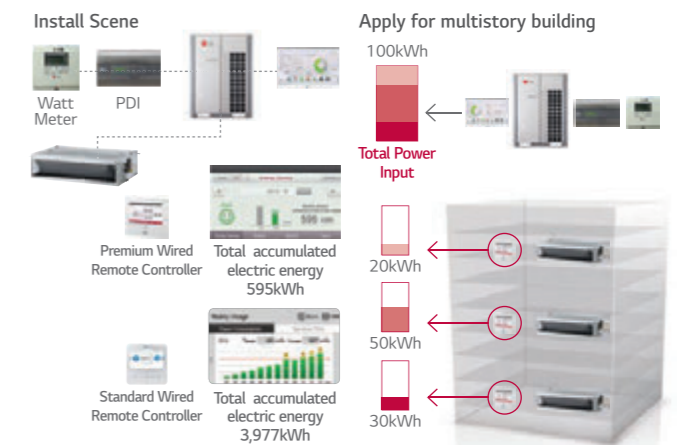
Depending on the installation environment, 4series ceiling concealed duct controls the static pressure to 11 step, for providing comfortable environment suitable for any case scenario.



Energy Monitoring

(Accumulated Electric Energy Check)

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

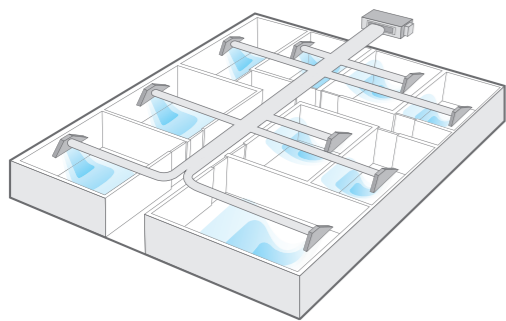


* Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

Operation for Multiple Rooms

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



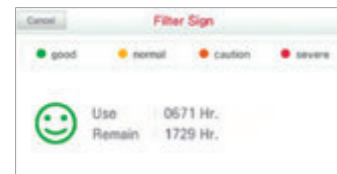
Filter Sign (Remaining Time)

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

Remain Time Until Indoor Filter Cleaning + Alarm



Remain time until indoor filter cleaning 2400hr.

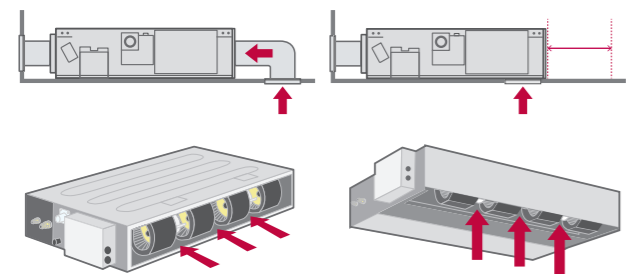


Remain time until indoor filter cleaning 1729hr.

Flexible Installation (Low Static Duct Only)

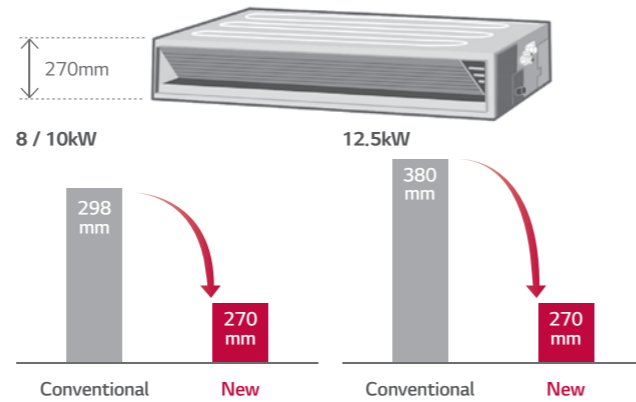
The low static duct allows the air intake at the rear or bottom under installation condition.

Air intake at the rear or bottom



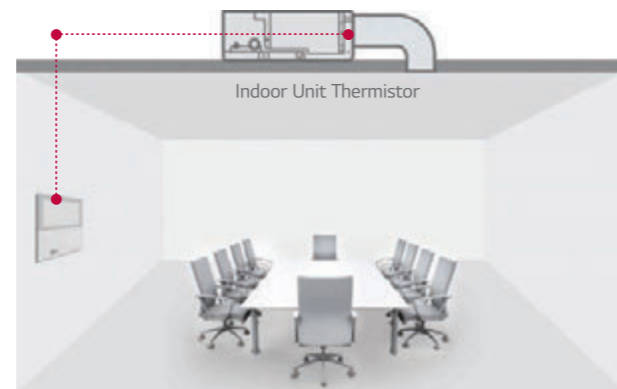
Minimized Height

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



Two Thermistors Control

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

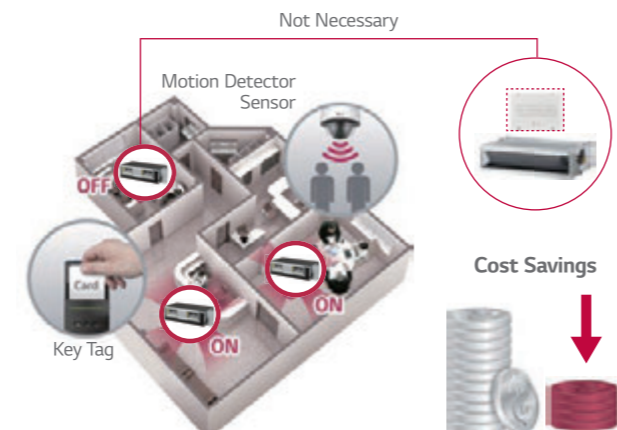


Remote Controller Thermistor

1 Point External Input (On / Off Control)

Indoor unit can control 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	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	
	Shipping	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	
Fan	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Motor Output x Number	W x No.	136 x 1	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)	Ø9.52 (3/8)	
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	
Weight	Body	kg	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	
Communication Cable		mm² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	

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

Accessories

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump				○		
Cassette Cover				-		
Refrigerant Leakage Detector				PRLDNVSO		
EEV Kit				PRGK024A0 (-5.6kW)		
Independent Power Module				PRIPO		
Robot Cleaner				-		
Pre Filter (washable / anti-fungus)				○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)				○		
Wi-Fi				PWFMD200		

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



ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4 / ARNU48GM3A4 / ARNU54GM3A4

Model	Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	
Cooling Capacity	kW	8.2	10.6	12.3	14.1	15.8	
Heating Capacity	kW	9.2	11.9	13.8	15.9	18.0	
Power Input (H / M / L)	Nominal W	123 / 81 / 57	184 / 123 / 81	231 / 162 / 111	172 / 105 / 65	260 / 215 / 172	
Dimensions (W x H x D)	Body	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700	
	Shipping	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773	
Fan	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	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)	
	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	38.0	38.0	39.5	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	
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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

Chassis	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump				○	
Cassette Cover				-	
Refrigerant Leakage Detector				PRLDNVSO	
EEV Kit				-	
Independent Power Module				PRIPO	
Robot Cleaner				-	
Pre Filter (washable / anti-fungus)				○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)				○	
Wi-Fi				PWFMD200	

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

HIGH STATIC



ARNU76GB8A4 / ARNU96GB8A4

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

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

Accessories

Chassis	ARNU76GB8A4	ARNU96GB8A4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		○
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

LOW STATIC



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	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
	Shipping	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
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5
	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m ³ /min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC
Air Filter		Pre 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	17.5	17.5	17.5
Sound Pressure Levels (H / M / L)		25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
		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	mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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

LOW STATIC



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
	Body	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700
Dimensions (W x H x D)	Shipping	mm	1,062 x 255 x 781	1,062 x 255 x 781	1,062 x 255 x 781
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
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)	m ³ /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)	m ³ /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		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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



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
	Body	mm	1,100 x 190 x 700	1,100 x 190 x 700
Dimensions (W x H x D)	Shipping	mm	1,262 x 255 x 781	1,262 x 255 x 781
	Type		Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /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)	m ³ /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		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

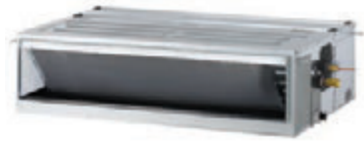
Note : 1. Performance tested under EN14511
 2. Capacities are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 - Heating : Indoor temp. 20°C (68°F)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

Accessories

Chassis	ARNU21GL3G4	ARNU24GL3G4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

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 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	350 x 1	500 x 1
	Air Flow Rate (H / M / L) (High static Mode - factory set)	m ³ /min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m ³ /min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight	kg	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		mm ²	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 / anti-fungus)			○		
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			PWFMD200		

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



ARNU24GM3A4 / ARNU28GM3A4 / ARNU36GB8A4 / ARNU42GB8A4 / ARNU48GB8A4

Model		Unit	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Cooling Capacity		kW	7.1	8.2	10.6	12.3	14.1
Heating Capacity		kW	8.0	9.2	11.9	13.8	15.9
Power Input (H / M / L)		W	109 / 83 / 60	109 / 83 / 60	420 / 403 / 478	528 / 497 / 465	538 / 505 / 482
Dimensions (W x H x D)	Body	mm	1,250 x 360 x 700	1,250 x 360 x 700	1,562 x 460 x 688	1,562 x 460 x 688	1,562 x 460 x 688
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	500 x 1	500 x 1	375 x 2	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High static Mode - factory set)	m ³ /min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	18 (176)	18 (176)	18 (176)
	Air Flow Rate (H / M / L) (Standard Mode)	m ³ /min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	53.7 / 49.5 / 43.9	55.6 / 50.6 / 45.0	58.0 / 52.3 / 47.3
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	9 (88)	9 (88)	9 (88)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight	kg	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		mm ²	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

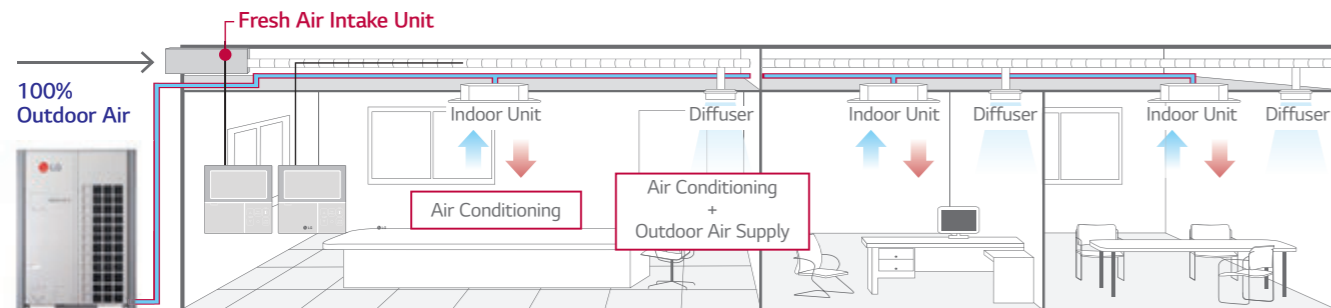
Chassis	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Drain Pump			○		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			-		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (washable / anti-fungus)			○		
Ion Generator			-		
CO ₂ Sensor			-		
Ventilation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

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

FRESH AIR INTAKE UNIT

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.

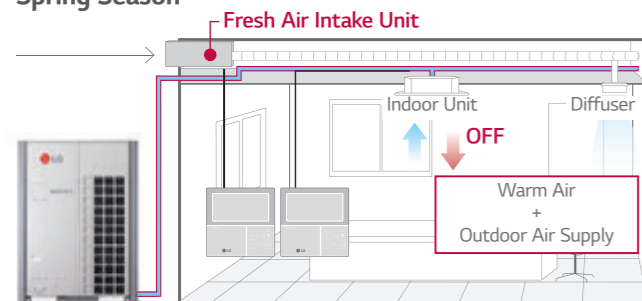


MULTI V 5 Outdoor Unit

Economic Operation

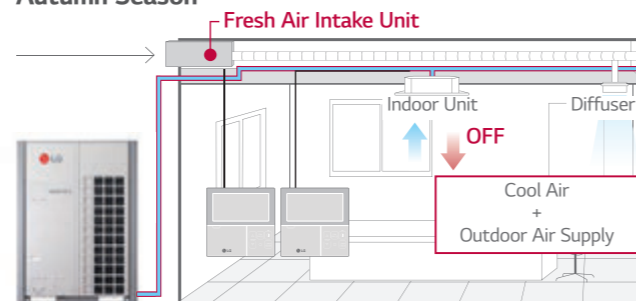
Using the cooling and heating can save costs by blowing the natural outdoor air inside when the seasons change.

Spring Season



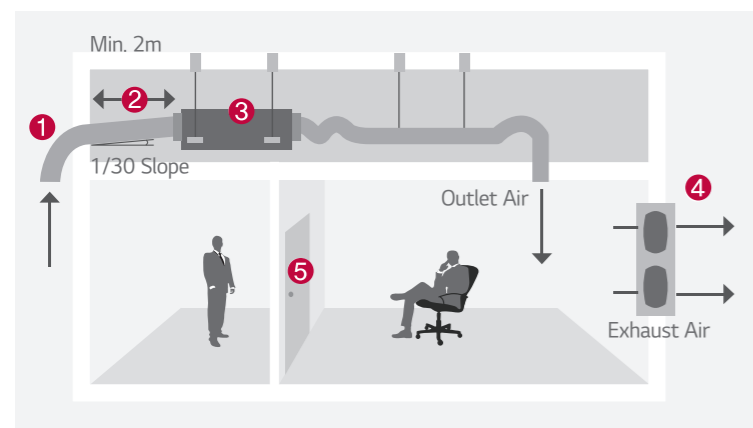
MULTI V 5 Outdoor Unit

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
	Shipping	mm	1,806 x 537 x 825
Fan	Type	Sirocco Fan	
	Motor Output x Number	W x No.	
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	
	External Static Pressure	mmAq (Pa)	
	Motor Type	BLDC	
Air 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
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43
Sound Power Levels (H / M / L)		dB(A)	70 / 67 / 67
Power Supply	Ø, V, Hz	1, 220 - 240, 50	
		1, 220, 60	
Communication Cable	mm² x No.	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		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

CEILING & FLOOR CONVERTIBLE UNIT CEILING SUSPENDED UNIT



Features & Benefits

- Modern design with V-shape and black vane is for any commercial space
- The powerful air speed and volume reach up to 15m away

Key Applications

- Retail
- Shop
- Restaurant

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

※ ○ : Applied, - : Not applied

SMART

Wi-Fi Control

Control your air conditioners by using the smart internet devices as Android or iOS based smartphones.

LG SmartThinQ
Search "LG SmartThinQ" 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)

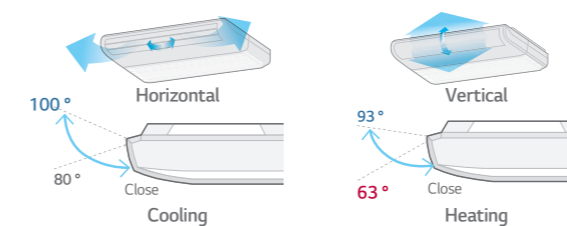
Flexible Installation

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.



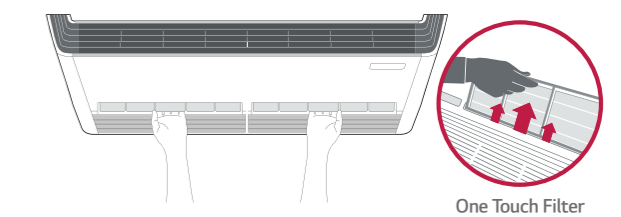
Powerful Cooling & Heating

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
Fan				
		Type	Cross Flow Fan	Cross Flow Fan
		Motor Output x Number	W x No. 27 x 1	27 x 1
		Air Flow Rate (H / M / L)	m ³ /min 7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
			cfm 268 / 244 / 219	325 / 268 / 244
		Motor Type	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight		Body kg	13.3	13.3
Sound Pressure Levels (H / M / L)		dB(A)	36 / 32 / 28	38 / 36 / 30
Sound Power Levels (H / M / L)		dB(A)	55 / 51 / 45	56 / 55 / 49
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50
Communication Cable		mm ² x No.	1, 220, 60	1, 220, 60
			1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU09GVEA4	ARNU12GVEA4
Drain Pump	-	-
Refrigerant Leakage Detector	-	-
EEV Kit	PRLDNVSO	
Independent Power Module	PRGK024A0	
Plasma Kit	PRIP0	
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200 ¹⁾	

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

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
Fan						
		Type	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
		Motor Output x Number	W x No. 85.9 x 1	85.9 x 1	125 x 1	125 x 1
		Air Flow Rate (H / M / L)	m ³ /min 13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
		Motor Type	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight		Body kg	29.0	29.0	37.0	37.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 35 / 33	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		mm ² x No.	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
			1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Drain Pump	-	-	-	-
Cassette Cover	-	-	-	-
Refrigerant Leakage Detector	-	PRLDNVSO	-	-
EEV Kit	-	-	-	-
Independent Power Module	-	PRIP0	-	-
Robot Cleaner	-	-	-	-
Pre Filter (washable / anti-fungus)	-	○	-	-
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	-	-
External Input (1 point)	-	○	-	-
Wi-Fi	-	PWFMD200	-	-

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

CONSOLE & FLOOR STANDING UNIT



Features & Benefits

- 6 way flexible piping
- Protect cold draft from window
- Protect condensation

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

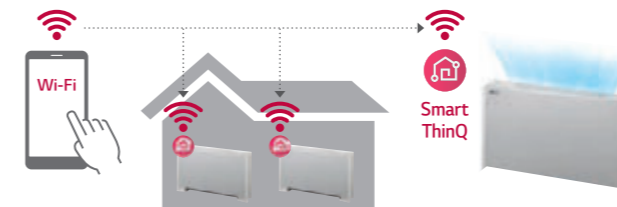
SMART

Wi-Fi Control

Control your air conditioners by using the smart internet devices as Android or iOS based smartphones.

LG SmartThinQ
 Search "LG SmartThinQ" on Google market or Appstore then download the app.

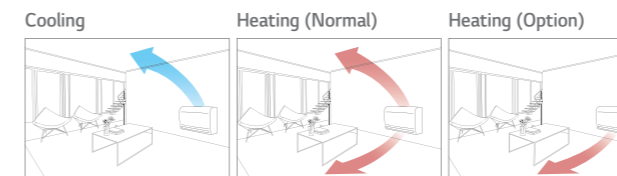
Access your air conditioner anytime and from anywhere



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.



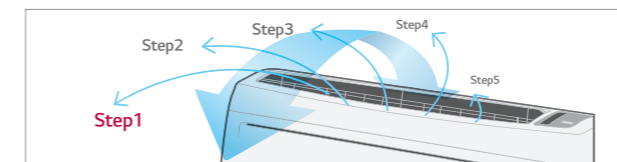
Protect Cold Draft

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



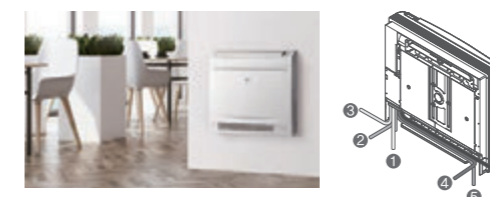
5-Step Vane Control

There are 5 different stages to control air flow direction.



6 Way Flexible Piping

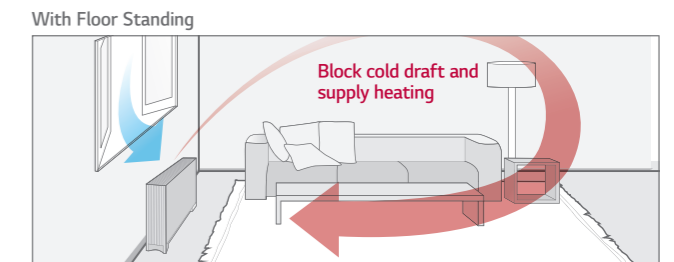
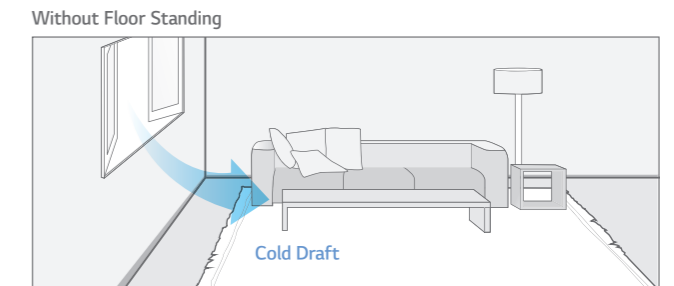
It is possible to install and connect the outdoor unit in 6 different ways. (Right Side, Right Back, Right Floor, Left Side, Left Back, Left Floor)



COMFORT(Floor Standing Unit)

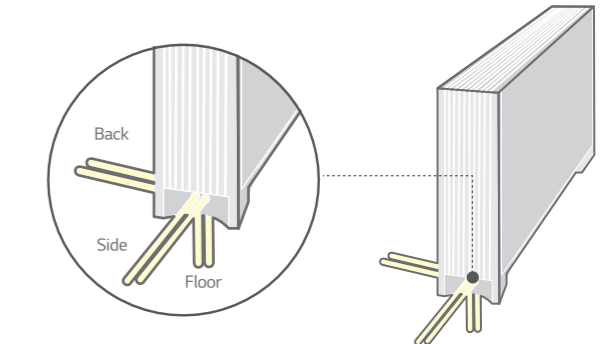
Protect Cold Draft

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



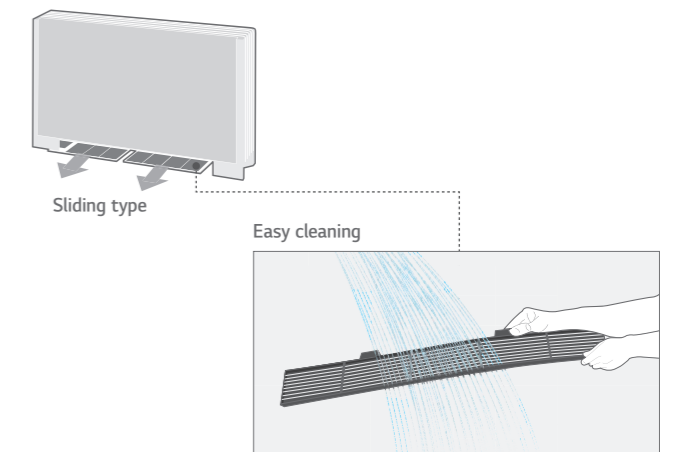
3 Way Flexible Piping

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
Fan	Type	Turbo fan	Turbo fan
	Motor Output x Number	W x No.	48 x 1
	Air Flow Rate (H / M / L)	m ³ /min	6.7 / 5.9 / 4.8
	Motor Type		BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.) mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body kg	14.0	14.0
Sound Pressure Levels (H / M / L)		37 / 34 / 28	37 / 34 / 28
		53 / 50 / 44	53 / 50 / 44
Power Supply	Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50
		1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU07GQAA4	ARNU15GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	○	○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	○
Wi-Fi	PWFMD200	

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



ARNU12GQAA4 / ARNU15GQAA4

Model	Unit	ARNU12GQAA4	ARNU15GQAA4
Cooling Capacity	kW	3.6	4.5
Heating Capacity	kW	4.0	5.0
Power Input (H / M / L)	Nominal W	18 / 15 / 13	24 / 19 / 17
Exterior Color		Morning Fog	Morning Fog
RAL Code		RAL 9001	RAL 9001
Dimensions (W x H x D)	Body mm	700 x 600 x 210	700 x 600 x 210
	Shipping mm	775 x 662 x 284	775 x 662 x 284
Fan	Type	Turbo fan	Turbo fan
	Motor Output x Number	W x No.	48 x 1
	Air Flow Rate (H / M / L)	m ³ /min	7.5 / 5.9 / 4.8
	Motor Type		BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.) mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body kg	14.0	14.0
Sound Pressure Levels (H / M / L)		39 / 34 / 28	42 / 37 / 31
		56 / 50 / 44	58 / 53 / 50
Power Supply	Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50
		1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU12GQAA4	ARNU15GQAA4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	○	○
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	○
Wi-Fi	PWFMD200	

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

FLOOR STANDING UNIT



* A : Floor Standing with case

ARNU07GCEA4 / ARNU09GCEA4 / ARNU12GCEA4
ARNU15GCEA4 / ARNU18GCEA4 / ARNU24GCEA4

Model	Unit	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCEA4	ARNU24GCEA4
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Exterior Color		Morning Fog	Morning Fog	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	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	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	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)	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)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	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
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 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
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCEA4	ARNU24GCEA4
Drain Pump		-	-	-	-	-
Cassette Cover		-	-	-	-	-
Refrigerant Leakage Detector		PRLDNVSO			PRLDNVSO	
EEV Kit		PRGK024A0				
Independent Power Module		PRIPO			PRIPO	
Robot Cleaner		-	-	-	-	-
Pre Filter (washable / anti-fungus)		○			○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○			○	
Wi-Fi		PWFMD200			PWFMD200	

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



* U : Floor Standing without case

ARNU07GCEU4 / ARNU09GCEU4 / ARNU12GCEU4
ARNU15GCEU4 / ARNU18GCEU4 / ARNU24GCEU4

Model	Unit	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCEU4	ARNU24GCEU4
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
	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
Fan	Type		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
	Air Flow Rate (H / M / L)	m ³ /min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	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
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 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
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

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

Accessories

Chassis	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCEU4	ARNU24GCEU4
Drain Pump		-	-	-	-	-
Cassette Cover		-	-	-	-	-
Refrigerant Leakage Detector		PRLDNVSO			PRLDNVSO	
EEV Kit		PRGK024A0				
Independent Power Module		PRIPO			PRIPO	
Robot Cleaner		-	-	-	-	-
Pre Filter (washable / anti-fungus)		○			○	
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) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○			○	
Wi-Fi		PWFMD200			PWFMD200	

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

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 PRLDNVSO 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 control 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 (PQRCHCA00Q / QW)	Simple (PQRCVCL0Q / 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	PREMTB001	PQRCVCLQ	PQRCVCLQ	PQRCHA0Q	PQRCHA0Q	PQWRHQ0FDB	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500
Ceiling Mounted Cassette	ARNU-A4 ARNU-C4 ARNU-D4 4 Way	○	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-C4 2 Way / 1 Way	○	○	○	○	○	○	○	○	○	○	○	○	○
Ceiling Concealed Duct	ARNU-A4 High Sensible	○	○	○	○	○	○	○	○	△	○	○	○	○
	ARNU-A4 High Statics Mid Statics	○	○	○	○	○	○	○	○	△	○	○	○	○
	ARNU-G4 Low Statics	○	○	○	○	○	○	○	○	△	○	○	○	○
FAU (Fresh Air Intake Unit)	ARNU-Z4	○	○	○	○	○	○	○	○	△	○	○	○	○
Convertible & Ceiling Suspended Unit	ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○	○
Console	ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○	○
Floor Standing Unit	ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-U4	○	○	○	○	○	○	○	○	○	○	○	○	○
Wall Mounted Unit	ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-R4	○	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-A4 ARNU-C4 ARNU-N4	○	○	○	○	○	○	○	○	○	○	○	○	○
HYDRO KIT ¹⁾	ARNH-A4	-	-	-	-	-	-	-	-	-	○	-	○	-
Ventilation	Energy Recovery Ventilator	○	○	○	○	-	-	-	-	-	○	-	-	○
	Energy Recovery Ventilator with DX coil	○	○	○	○	-	-	-	-	-	○	-	-	○
AHU Communication Kit		○	○	○	○	○	-	-	△	-	-	-	-	-

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

FEATURE FUNCTIONS

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-fi Controller
	Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name							
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCLQ PQRCVCLQW	PQRCHA0Q PQRCHA0QW	PQWRHQ0FDB	PWFMD200
Basic	On / Off	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○
	Mode Change	○	○	○	○	-	○
	Auto Swing	○	○	○	○	○	○
	Vane Control (Louver Angle)	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	-
	Electric Failure Compensation	○	○	○	○	○	-
	Indoor Temperature Display	○	○	○	○	○	○
	ALL Button Lock (Child Lock)	○	○	○	○	○	-
Advanced	Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep / On / Off Weekly
	Additional Mode Setting ¹⁾	○	○	○	-	-	-
	Time Display	○	○	○	-	-	○
	Humid. Display	○	○	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Mode Lock	-	-	-
	Filter Sign	○	○	○	-	-	-
	Energy Management ²⁾	○	○	○	-	-	-
	Dual Set Point	○	○	-	-	-	-
	Human Detection	-	○	-	-	-	-
	Temp, Humidity Compensation	○	○	-	-	-	-
Wifi AP mode setting	○	○	○	○	○	○	
ETC	Operation Status LED	○	○	○	○	○	-
	Wireless Remote Controller Receiver	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-
	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26
Black Light Control for Screen Saver	○	○	-	-	-	-	

※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product
 2) Centralized control (PACEZA000 / PACSSA000 / PACPSA000 / 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 > DocLibrary > Manual)

HOT WATER SOLUTION

—
HYDRO KIT



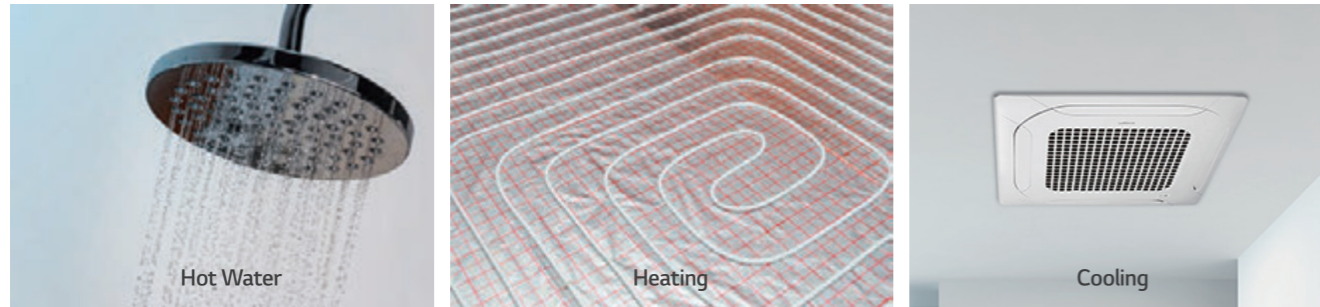
HYDRO KIT

Features & Benefits

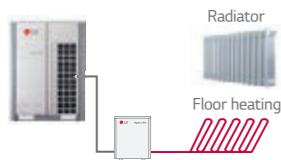
- Lower operation cost compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V heat recovery system.

Key Applications

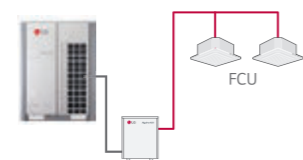
- Where Hot Water is needed such as domestic Hot Water, In-floor or radiant heat. Where cold water is needed such as Fan coil unit and chilled beam.



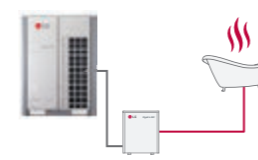
Radiant Heating / Cooling



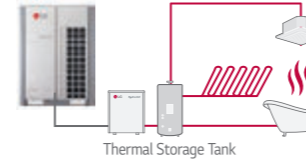
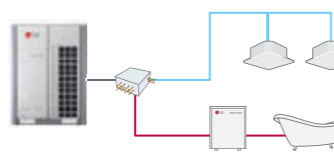
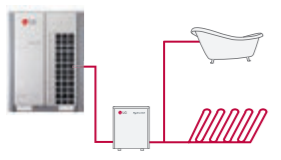
Fan Coil Unit Heating / Cooling



Hot water / Cooled Water



Combination



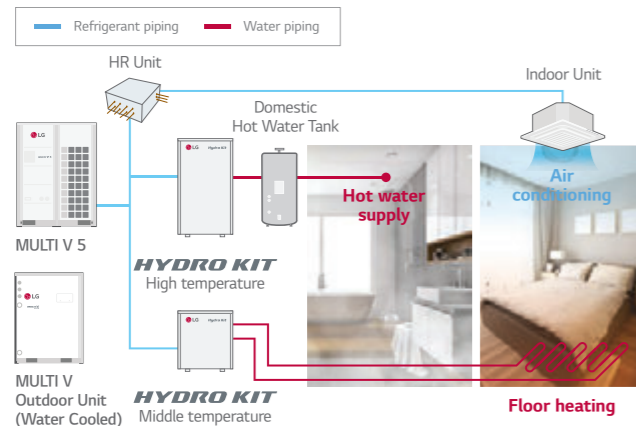
Hot water+ Radiant heating

HR unit (Cooling & Hot water)

Thermal Storage System

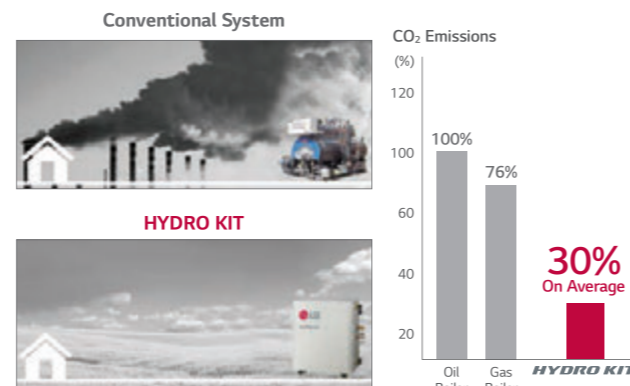
System Diagram

Providing a total solution by heat pump, air conditioning (cooling by refrigerant & chilled water, heating by refrigerant & hot water) and domestic hot water supply.



Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO₂ emissions.



Saving Cost through High Efficiency

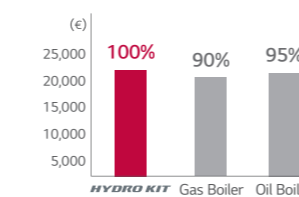
Possible to install with equivalent levels of capital cost as a boiler system and minimise energy bills thanks to lower operation costs.

- 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)

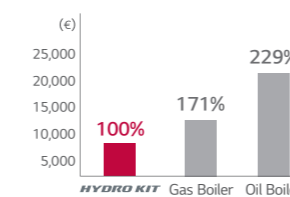
Analysis Conditions

- 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

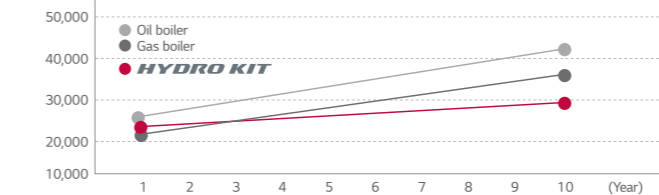
Initial Costs



Annual Operating Costs



LCC

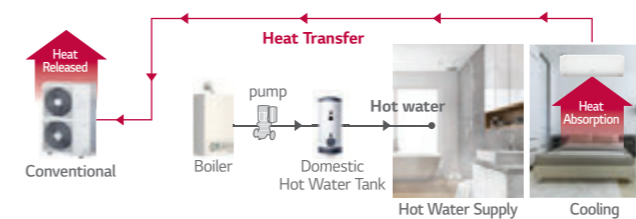


Energy Saving through MULTI V 5 Heat Recovery

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

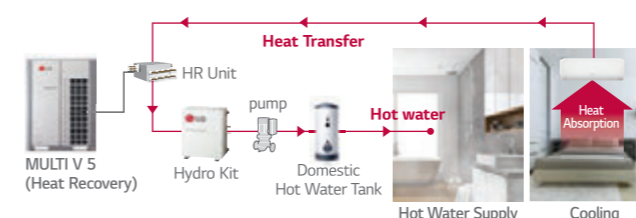
Conventional

Absorbed heat is released to outdoor air.

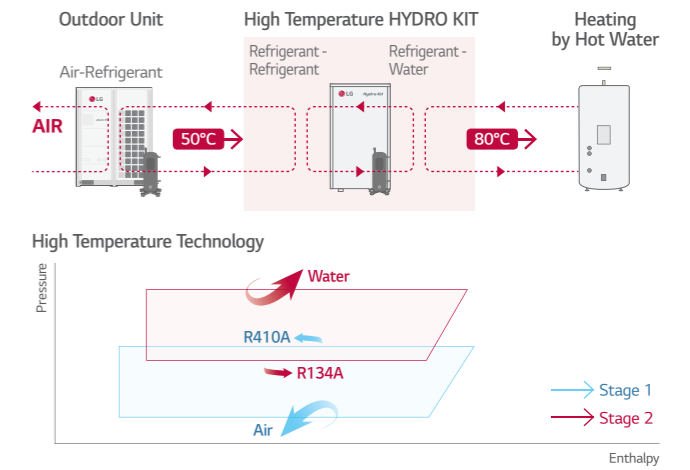


HYDRO KIT

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

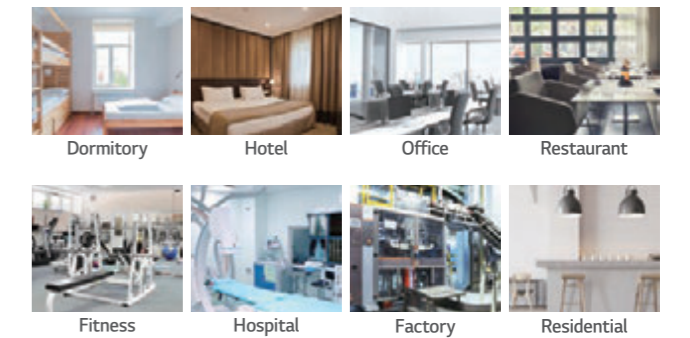


High Temperature HYDRO KIT Cycle Diagram



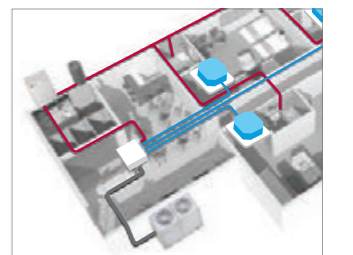
Various Applications

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



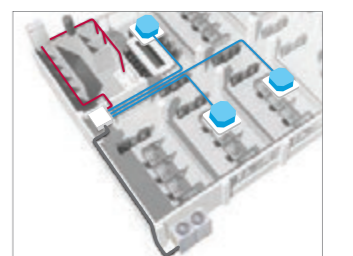
Hotel Application

It is possible to operate cooling and heating constantly at the same time during the summer, to provide hot water by using waste heat energy of indoor cooling.



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)
Water Pipe Connections	Drain Pipe (Internal Dia.)	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Inlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Water Pipe Connections	Outlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Weight	kg	29.2	33.7
Sound Pressure Levels (H / M / L)		dB(A)	26	26
Power Supply		∅, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm ² 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.



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)
Water Pipe Connections	Drain Pipe (Internal Dia.)	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Inlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
Water Pipe Connections	Outlet	A (inch)	25A (Male PT 1)	25A (Male PT 1)
	Weight	kg	87.0	91.0
Sound Pressure Levels (H / M / L)		dB(A)	43	46
Power Supply		∅, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm ² 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	ARNH04GK2A4	ARNH10GK2A4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	-	-
Independent Power Module	○	
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	-	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible)	
External Input (1 point)	○	
Wi-Fi	PWFMD200	

※ ○ : Applied, - : Not applied

Option : Refer to model name in table

Accessories

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

※ ○ : Applied, - : Not applied

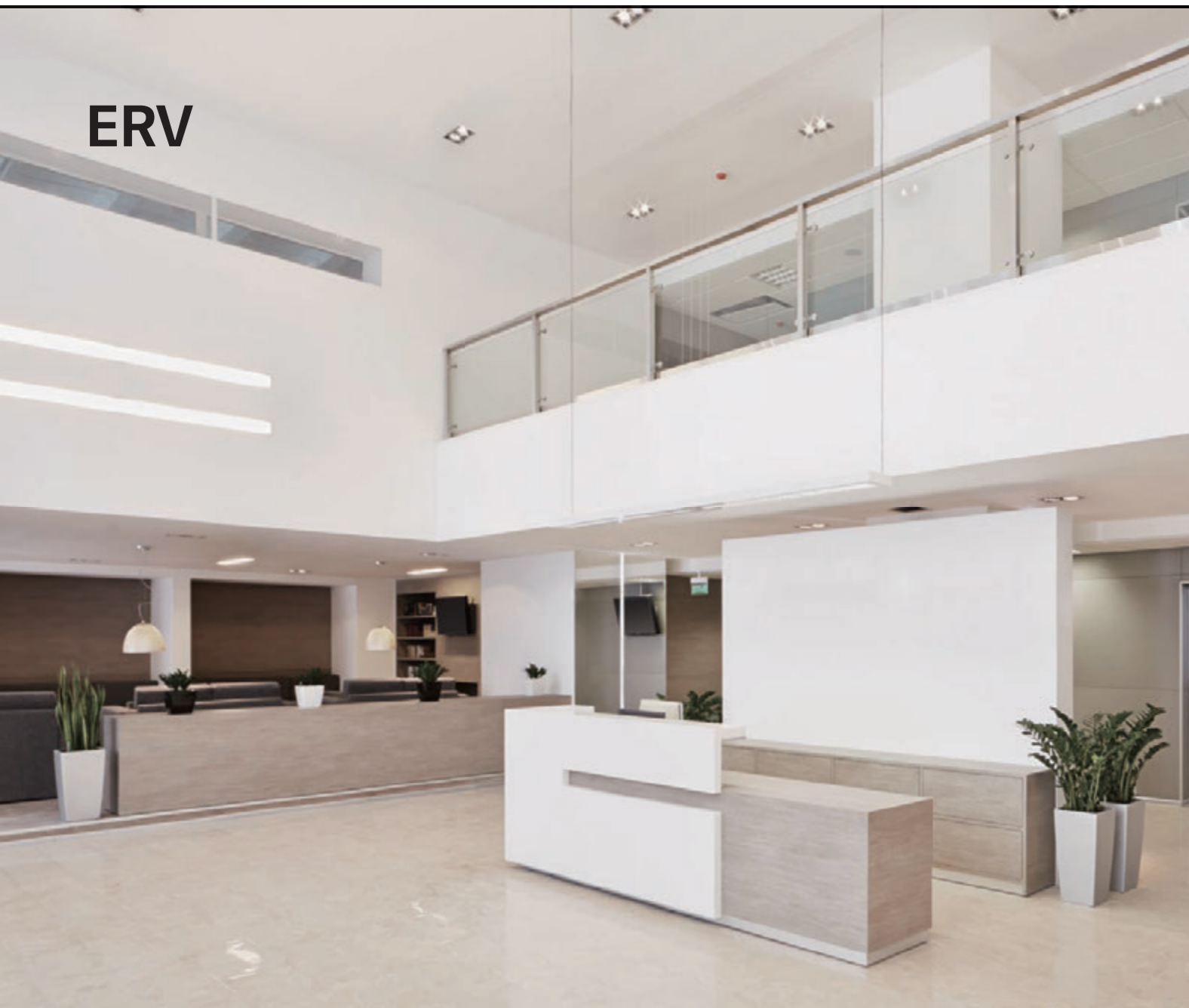
Option : Refer to model name in table

VENTILATION SOLUTIONS

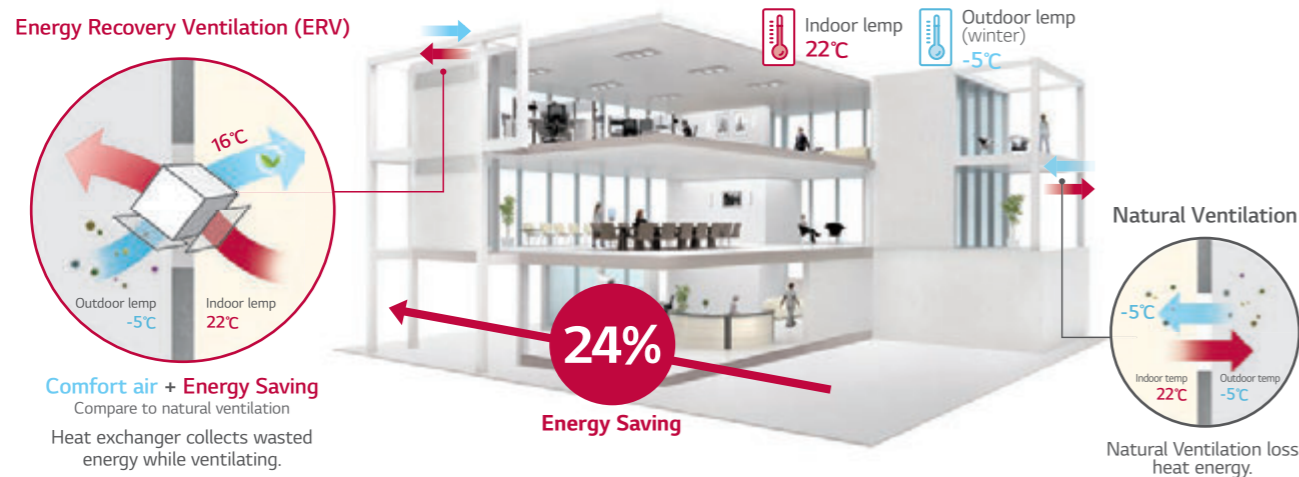
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ERV / ERV WITH DX COIL



ERV



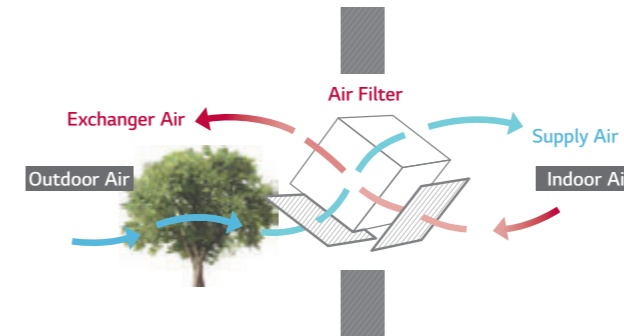
NECESSITY OF ERV



HIGH EFFICIENCY

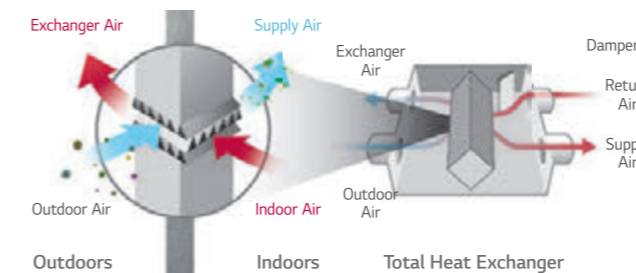
High Efficient Heat Exchanger

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



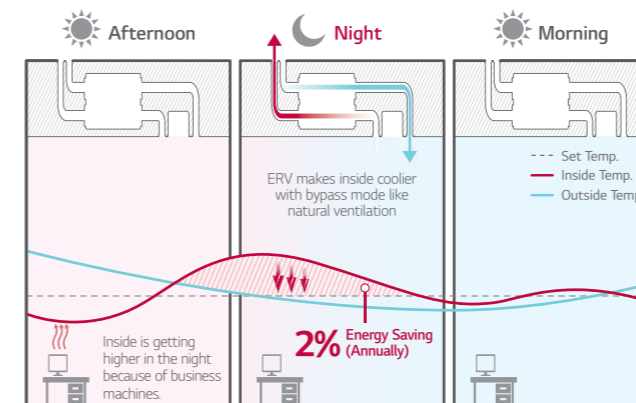
Compulsory Exhausting System

The exhausting system using high static sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, LG ERV can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



Night Time Free Cooling

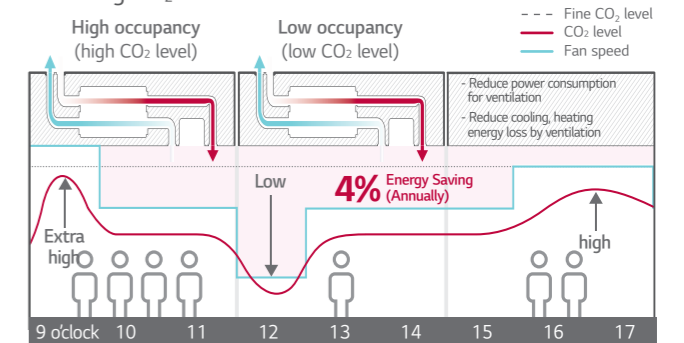
Discharge the indoor heat in the summer night and supply cool outdoor air indoors, so it can save energy.



* 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

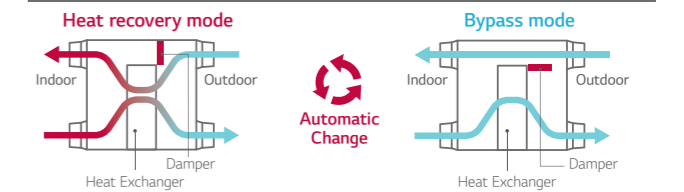
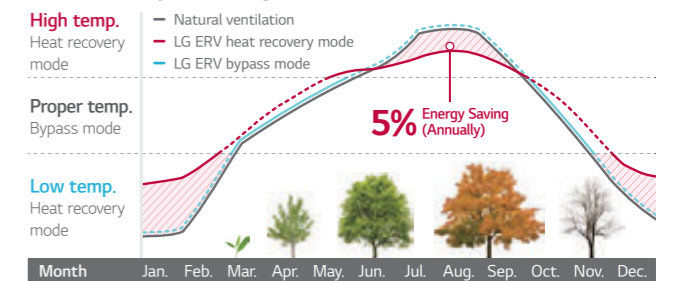
LG ERV reduces energy loss with auto fan speed control following CO₂ level



* 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

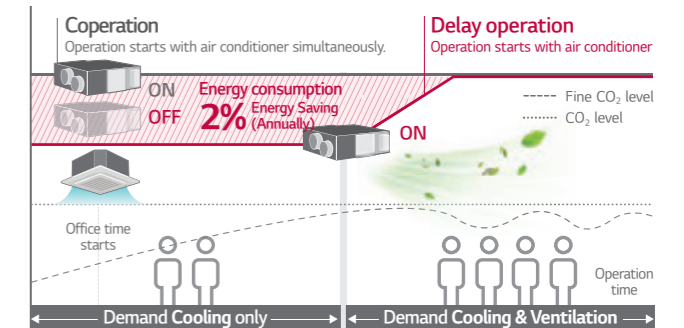
LG ERV senses outdoor temperature and operates automatically following weather condition.



* 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 you turn on the air conditioner and ERV at the same time, 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

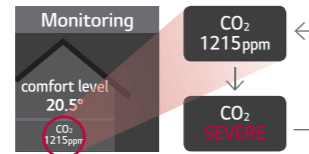
If the CO₂ level is above 900ppm in the room, the red mark is on.



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

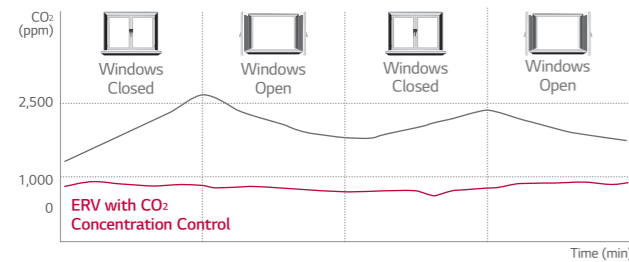
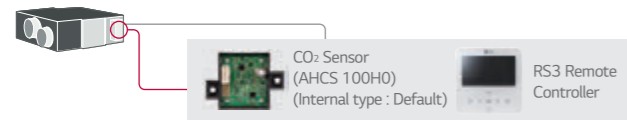
Further information

CO₂ level and room condition are displayed continuously.



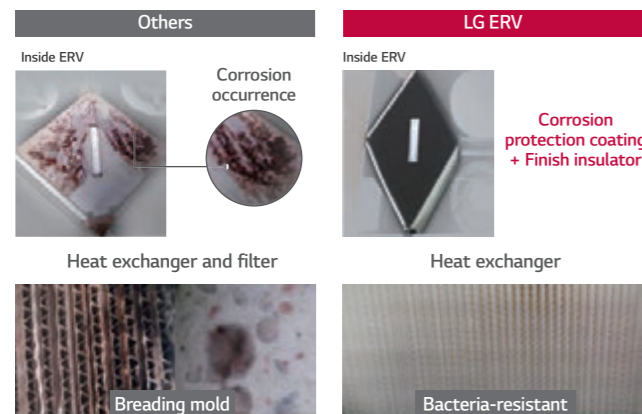
CO₂ Concentration Control

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.



Easy

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



Convenient

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



Visible

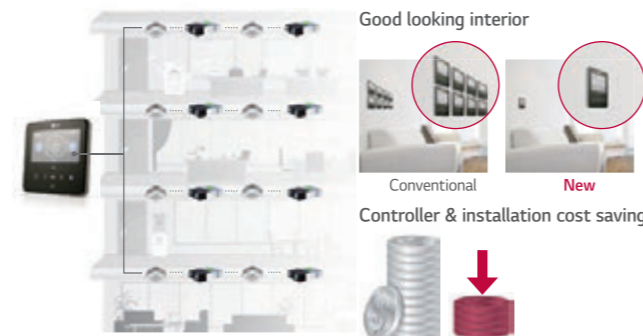
- Indoor CO₂ level
- Alarm for filter change / Remained time to change filters

Group Control

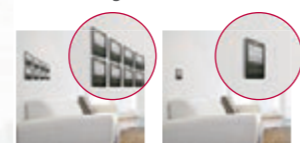
1 wired remote controller up to 16 ERV (including air conditioner). It is convenient for large common space such as lobby.

Several units combination

16 units group control is available with 1 remote controller.



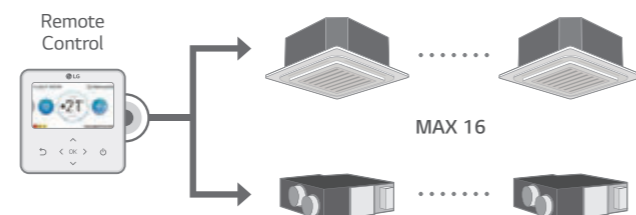
Good looking interior



Controller & installation cost saving

Interlocking with Air Conditioning System

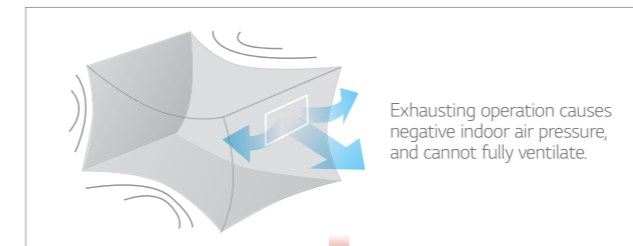
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



Fast Ventilation Mode

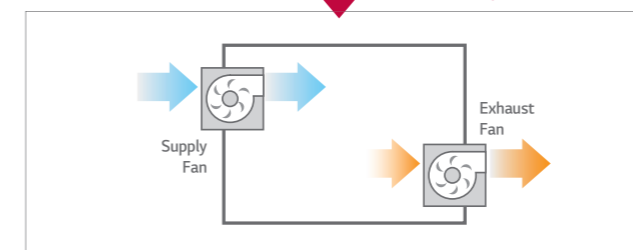
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



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

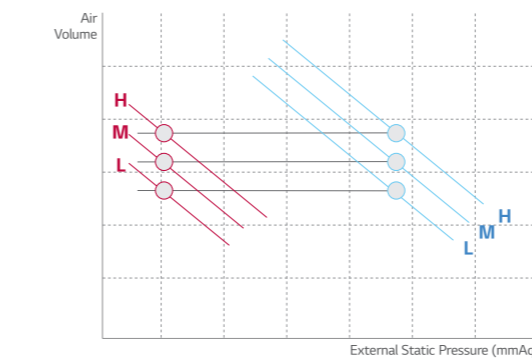
Fast Ventilation Mode



Exhausting and Supplying Simultaneously

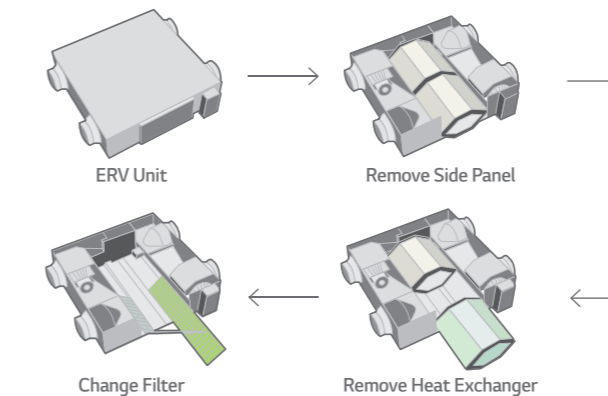
External Static Pressure Control

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



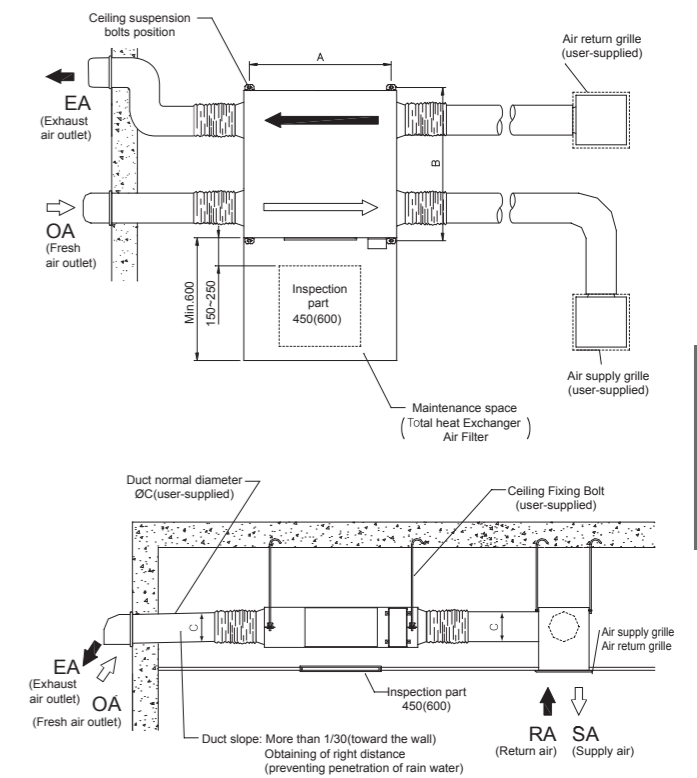
Easy Cleaning and Filter Change

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

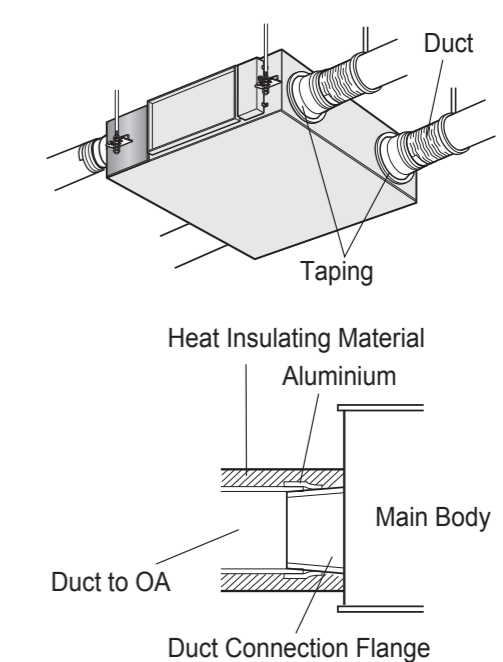


Installation Scene

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	Body	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) % Cooling (SH / H / L) %	70 / 70 / 72 66 / 66 / 68	75 / 75 / 80 71 / 71 / 75	75 / 75 / 78 68 / 68 / 75
	Sound Pressure Level	SH / H / L dB(A)	29 / 28 / 24	35 / 32 / 26	37 / 36 / 28
	Sound Power Level	SH / H / L dB(A)	50	53 / 50 / 42	57 / 56 / 46
	Bypass Mode	Operating Step		Super-high / High / Low	
Current		SH / H / L A	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50	1.65 / 1.56 / 0.80
Power Input		SH / H / L W	97 / 87 / 52	150 / 125 / 60	247 / 230 / 95
Air Flow		SH / H / L m³/h	250 / 250 / 150	350 / 350 / 210	500 / 500 / 320
External Static Pressure		SH / H / L Pa	100 / 70 / 50	150 / 100 / 50	150 / 100 / 50
Sound Pressure Level		SH / H / L dB(A)	29 / 29 / 25	35 / 33 / 26	37 / 37 / 28
Duct Work	Qty	EA	4		
	Size (Ø)	mm	Ø200		
Supply Air Fan	Qty	EA	1		
	Type		Direct-Drive Sirocco		
Exhaust Air Fan	Qty	EA	1		
	Type		Direct-Drive Sirocco		
Filters	Qty	EA	2		
	Type		Cleanable fibrous fleeces		
	Size (W x H x D)	mm	855 x 10 x 166		

- Note : 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 / anti-fungus)		-	-
Ion Generator		-	-
CO ₂ Sensor		○	-
Ventilation Kit		-	-
IR Receiver		-	-
Zone Controller		-	-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB500 (Modbus)	-
External Input (1 point)		-	-
Wi-Fi		-	-

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



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

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

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

Accessories

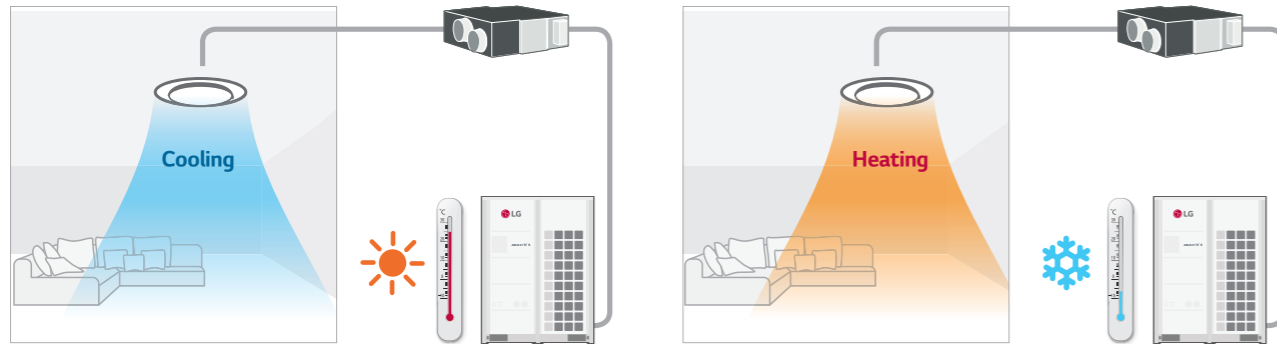
Chassis	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5
Drain Pump		-	-	-
Cassette Cover		-	-	-
Refrigerant Leakage Detector		-	-	-
EEV Kit		-	-	-
Independent Power Module		-	-	-
Robot Cleaner		-	-	-
Pre Filter (washable / anti-fungus)		-	-	-
Ion Generator		-	-	-
CO ₂ Sensor		-	○	-
Ventilation Kit		-	-	-
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

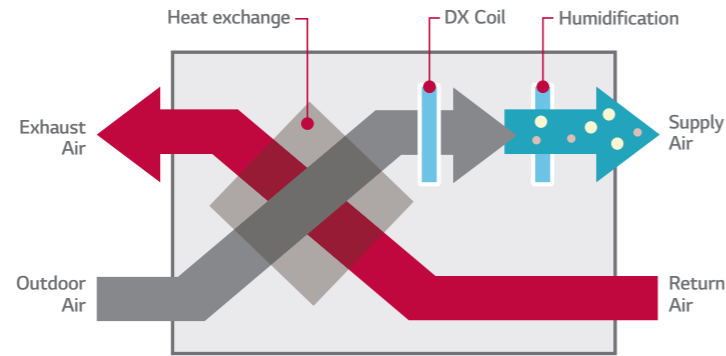
Providing Cool & Warm Fresh Air

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.



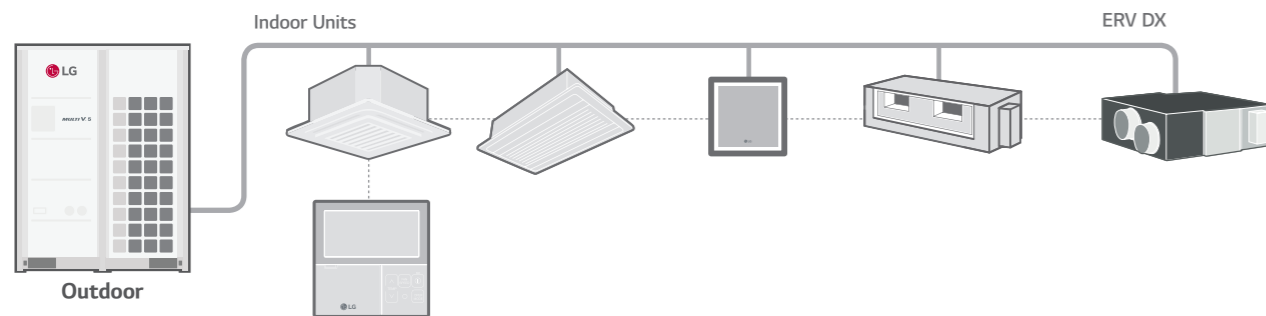
Total Air Conditioning Solution

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. In winter, It provides warm air by heating and humidifying the incoming air.



Interlocking with MULTI V

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



ERV WITH DX COIL



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

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

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

Accessories

Chassis	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump						
Cassette Cover						
Refrigerant Leakage Detector			PRLDNVSO			
EEV Kit						
Independent Power Module						
Robot Cleaner						
Pre Filter (washable / anti-fungus)						
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 controlling systems are equipped with user friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management.

HOTEL

Hotel Room Solution



OFFICE

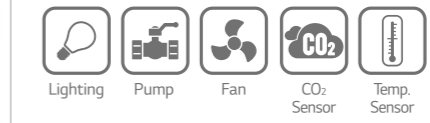
Central Control Solution



• Energy Management



• External Device



CONTROL SOLUTION



Integration Solution



reddot award
User Interface Design

APARTMENT

Power Distribution Solution



RESIDENTIAL

Smart Individual Control Solution



SMALL BUILDING

Small Central Control Solution



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	PQWRHQ0FDB	PWFMD200
Basic							
On / Off	○	○	○	○	○	○	○
Fan Speed Control	○	○	○	○	○	○	○
Temperature Setting	○	○	○	○	○	○	○
Mode Change	○	○	○	○	-	○	○
Auto Swing	○	○	○	○	○	○	
Vane Control (Louver Angle)	○	○	○	○	○	○	○
E.S.P (External Static Pressure)	○	○	○	○	○	-	-
Electric Failure Compensation	○	○	○	○	○	-	○
Indoor Temperature Display	○	○	○	○	○	○	
ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
Advanced							
Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep / On / Off	Weekly
Additional Mode Setting ¹⁾	○	○	○	-	-	-	-
Time Display	○	○	○	-	-	○	-
Humid. Display	○	○	-	-	-	-	-
Advanced Lock (mode, set point, set point range, On / Off Lock)	Advanced Lock	Advanced Lock	Mode Lock	-	-	-	-
Filter Sign	○	○	○	-	-	-	-
Energy Management ²⁾	○	○	○	-	-	-	-
Dual Set Point	○	○	-	-	-	-	-
Human Detection	-	○	-	-	-	-	-
Temp, Humidity Compensation	○	○	-	-	-	-	-
Wi-Fi AP Mode Setting	○	○	○	○	○	○	-
ETC							
Operation Status LED	○	○	○	○	○	-	-
Wireless Remote Controller Receiver	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-	-
Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-
Black Light Control for Screen Saver	○	○	-	-	-	-	-

※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product
 2) Centralized control (PACEZA000 / PACSSA000 / PACPSA000 / PLNWK000) 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 Color screen with a modern design.



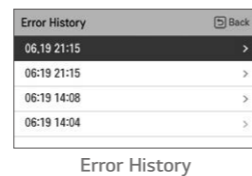
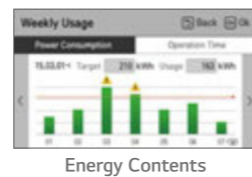
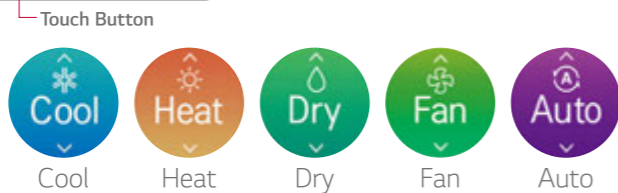
PREMTB100 (White) PREMTBB10 (Black)

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

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

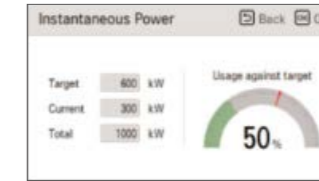


Energy Saving Function

Energy Management

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

* PDI (PQNUD1S40 / PPWRDB000) is required.



Instantaneous Power Check



Energy Usage Target Setting

Time Limit Control

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



2 Set Points Control

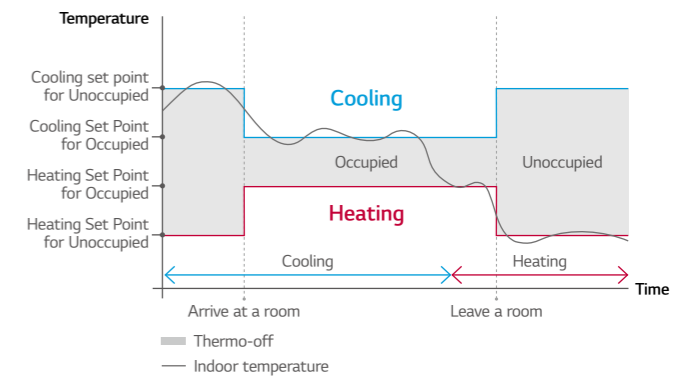
Auto Changeover (Convenience)

- The indoor unit automatically manages room temperature with heating and cooling with extended setting temperature ranges. With setting heating and cooling set temp. just one time, comfortable condition will continue at all times.

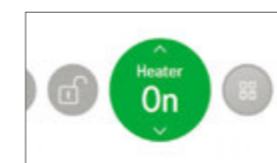
Setback (Home Leave) (Energy saving & Comfort)

- In the absence, room temperature can be kept in the range of 2 set points instead of power off. It provides comfortable indoor environment quickly 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 on or off the external equipment through contact point output.



Customized Interlocking Control
 User can make control scenario. For example when temperature is under 10 degree, turn on the external heater.

Schedule Function



Easy Checking Schedule
 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

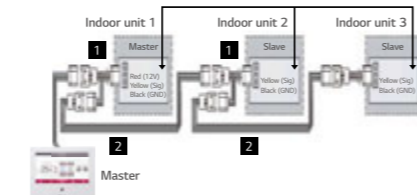
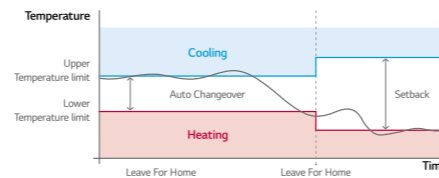
1) It might not be indicated or operated at the partial product

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 MULTI 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 schedule, filter sign.

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



PQRCVCL0QW (White) / PQRCVCL0Q (Black) PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Features & Benefits

- Small remote control with minimal functionality

Model Name	PQRCVCL0QW / PQRCVCL0Q	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



PQWRHQ0FDB

Features & Benefits

- Easy to use while moving
- Main functions are available

Model Name	PQWRHQ0FDB
On / Off	○
Fan Speed Control	○
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

LG Wi-Fi MODEM

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



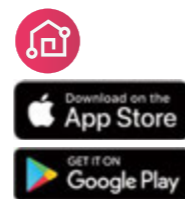
PWFMDD200

Model Name	PWFMDD200
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)

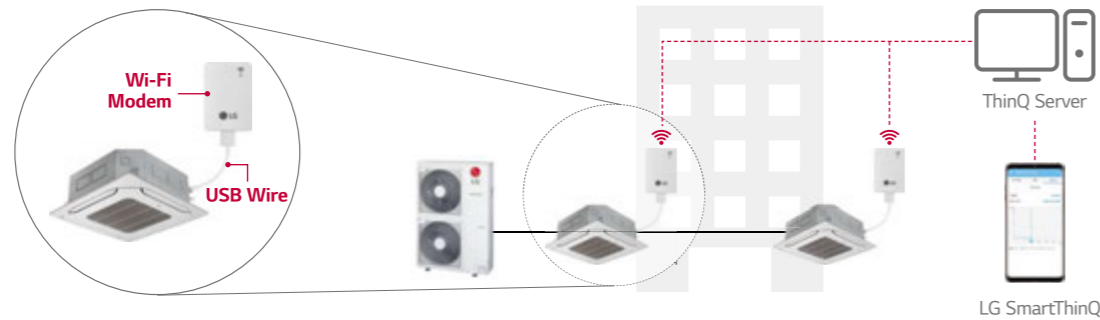
1) Vane Control may not be possible according to the type of Indoor unit
 2) LG Centralized controller and PDI installation is required for this function
 3) For the compatibility with Indoor unit, please contact regional LG office
 Note : 1. Functionality may be different according to each IDU model
 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

Features & Benefits

- Access LG air conditioner anytime and from anywhere with Wi-Fi equipped device.
- It is possible to check whether the air conditioner is turned off when the user goes out (energy saving), and can be operated in advance before entering the house (comfort improvement).
- 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 Control¹⁾
 - Reservation (Sleep, Weekly On / Off)
 - Energy Monitoring²⁾
 - Filter Management
 - Error Check

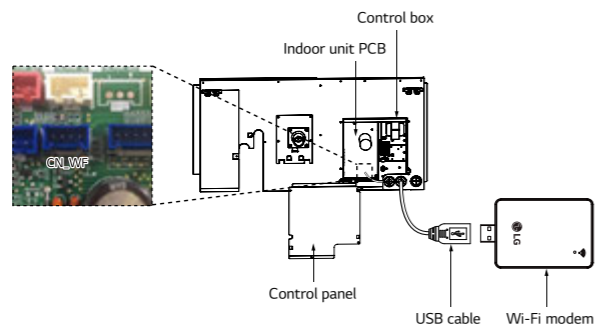


Overview



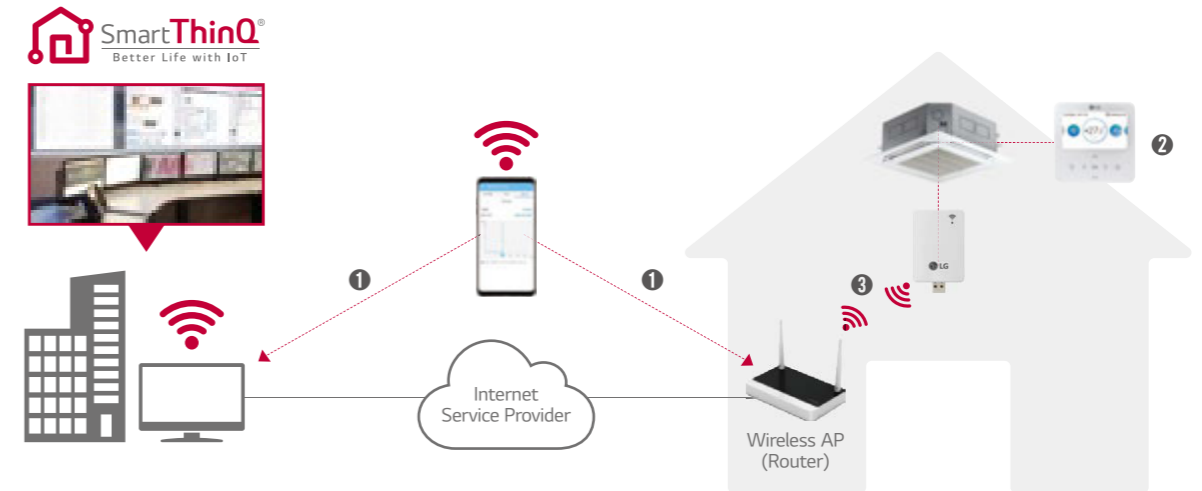
* Search "LG SmartThinQ" on Google market or Appstore then download the app.
 * Internet service with Wi-Fi connection has to be available.

Installation Scene



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

Connection Diagram

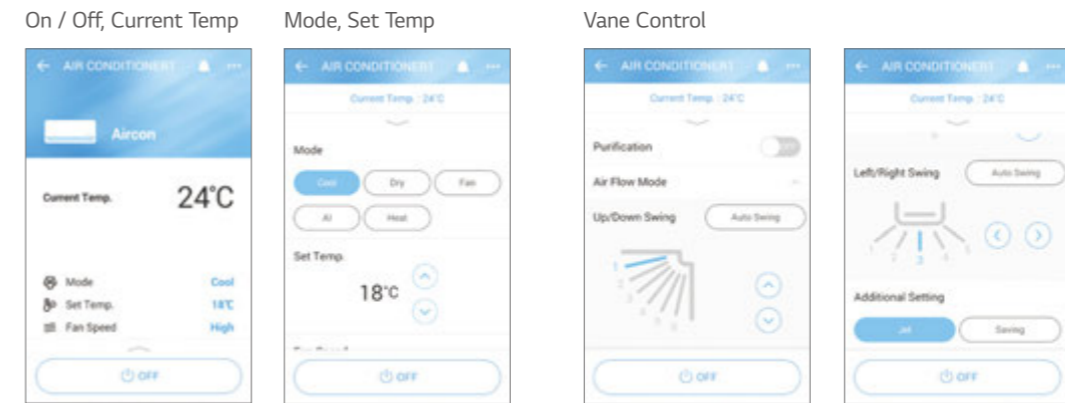


Connection (Pairing) Order

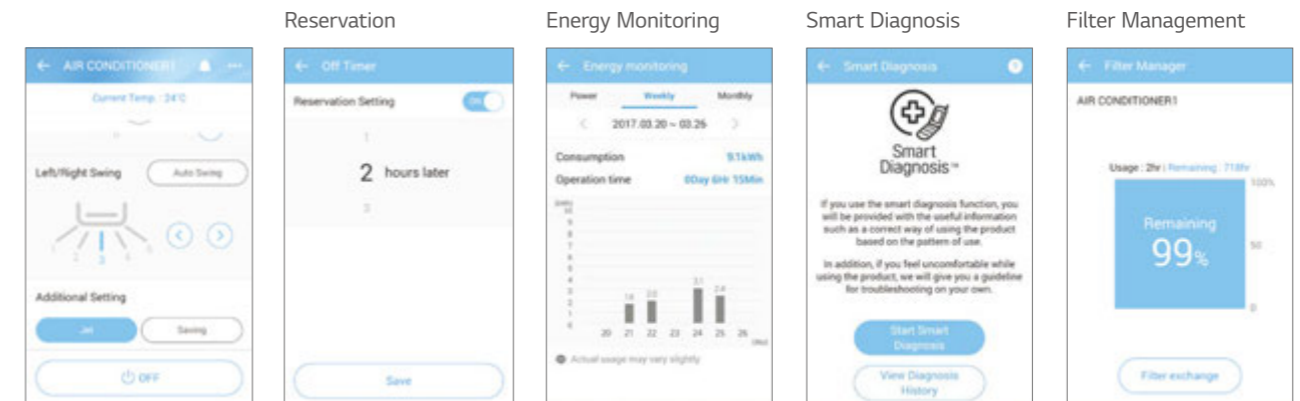
- 1 Make LG account on LG Smart ThinQ and select the Router that will be used
- 2 Insert passwords of selected router and set AP(Access Point) by LG remote controller
- 3 Confirm the pairing between Wi-Fi Modem and Router

Smart ThinQ

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	PLNWKB000	PACM5A000	
Product	DO	-	-	2	4	2	-	
	DI	-	1	2	10	2	-	
	Max. Connectable No.	IDUs	32	64	128	256	64	8,192
		ERV	32	64	128	256	64	-
	A/C + ERV	32	64	128	256	64	-	
	AHU	-	-	16	16	16 ⁴⁾	-	
Chiller	-	-	5 Optional ²⁾	10 Optional ²⁾	-	-		
Compatibility	Air Conditioner	○ ¹⁾	○	○	○	○	○	
	Ventilation (ERV / ERV DX)	○ ²⁾	○	○	○	○	○	
	Heating	-	○	○	○	○	○	
	AHU	-	-	○	○	○	○	
	Chiller	-	-	○ ⁴⁾	○ ⁴⁾	-	○	
	ACS IO	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
Additional Function	Add Drawing	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Group Management	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Auto Changer Over	-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Set Back	-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	2 Set	-	○	○	○	○ ⁴⁾	-	
	Change Alarm	-	Filter	Filter	Filter	Filter	Filter	
	Indoor Unit Lock	-	○	○	○	○ ⁴⁾	-	
	Cycle	-	-	○	○	○ ⁴⁾	○	
	Schedule	○	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Auto Control	Peak Control	Priority Control	-	○	○	○ ⁴⁾	○
Outdoor Unit Capacity Control			-	-	○ ⁴⁾	○ ⁴⁾	○	
Demand Control		Priority Control	-	-	-	-	○ ⁴⁾	○
		Outdoor Unit Capacity Control	-	-	-	-	○ ⁴⁾	○
Time limit control		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
InterLocking	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○		
Energy Navigation	-	-	○ ⁴⁾	○ ⁴⁾	-	○		
Energy Report	Power	-	○	○	○	○ ⁴⁾	○	
	Gas	-	-	○	○	○ ⁴⁾	○	
	Run time	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Email	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	-	
PC / USB	-	-	○ ⁴⁾	PC	PC	PC		
Trend Reporting	-	-	-	-	-	○		
History	Report (Control / Error)	-	Error	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Send Email	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
	Save to PC / USB	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	PC	
	Summer Time	-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	-	
etc	Outdoor Unit Oil-Return Operation	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	-	
	User Authority	-	Password	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○	
PC Access	-	○	○ 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

AC EZ TOUCH

Smart management with 5 inch touch screen for small site.



PACEZA000

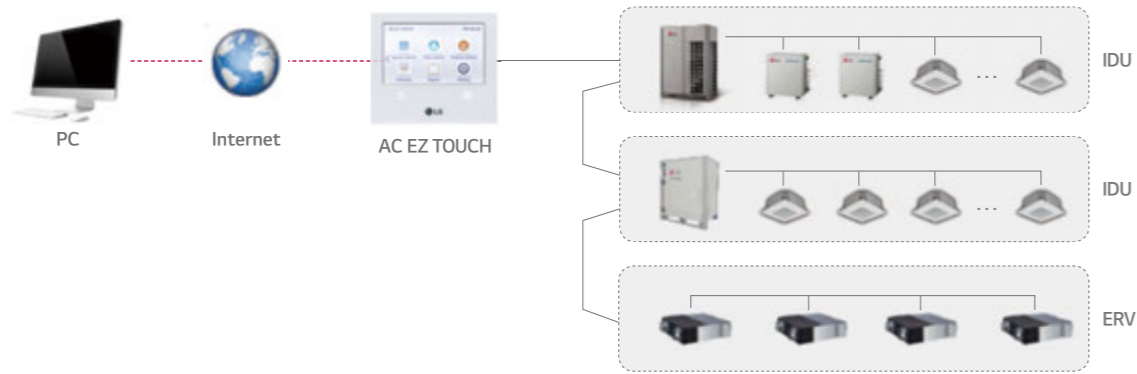
Features & Benefits

- User friendly control by graphical access
- 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
- Filter cleansing or changing alarm
- 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.



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

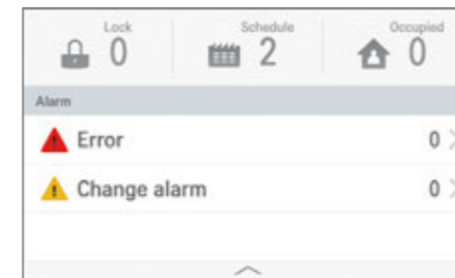
Energy Mode

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)



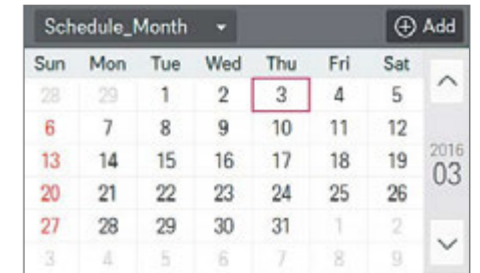
Alarm Indicator

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

By clicking each indoor units on screen, user controls them individually or by group. It is useful to monitor or control for the best fit of request.



AC EZ

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



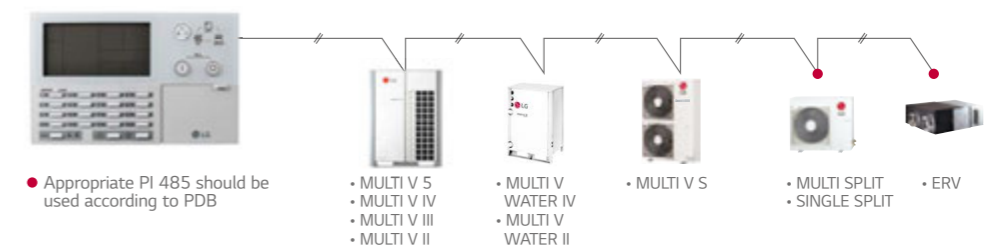
PQCSZ250S0

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

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



PACS5A000

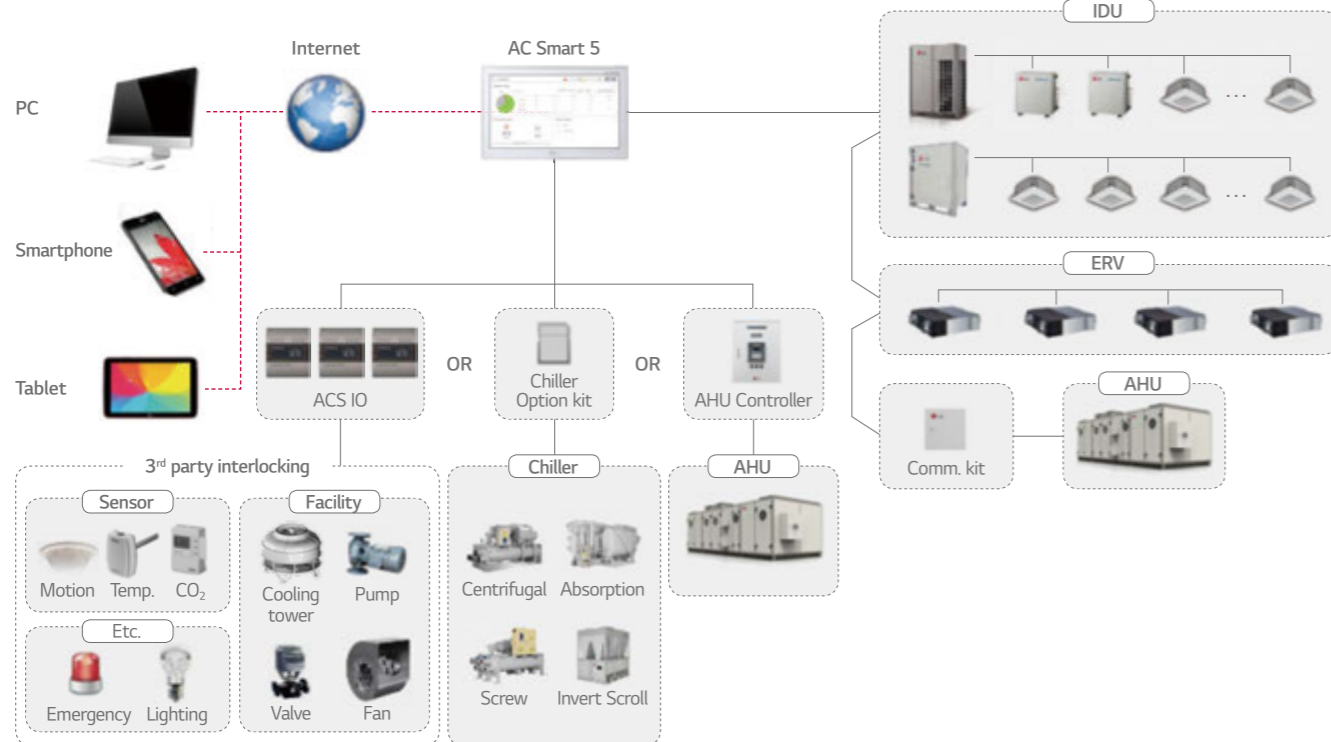
Features & Benefits

- 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	○

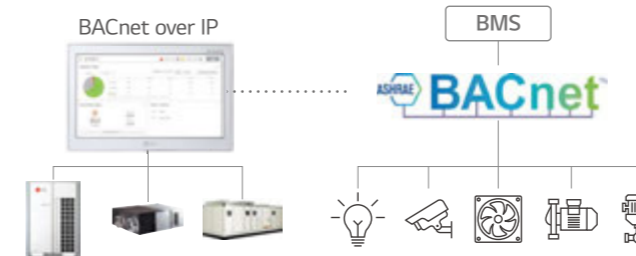
※ ○ : Applied, - : Not Applied
 1) Chiller Option Kit (PCHLLN000) is required
 2) It is only available in some products
 3) For the detail point list, please refer to the installation manual

Overview



BMS Integration

Without additional device, AC Smart 5 provides BACnet IP / Modbus TCP interface for BMS (Building Management System) integration as well as its own management function.



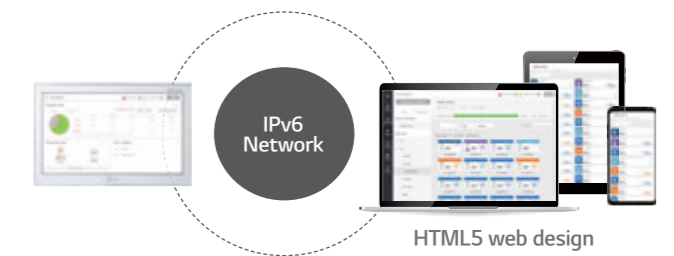
Energy Management / Operation Trend

Energy navigation function allows air conditioners operation to be managed under the monthly (Weekly / Yearly) plan of energy usage. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



Advanced Network Accessibility

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



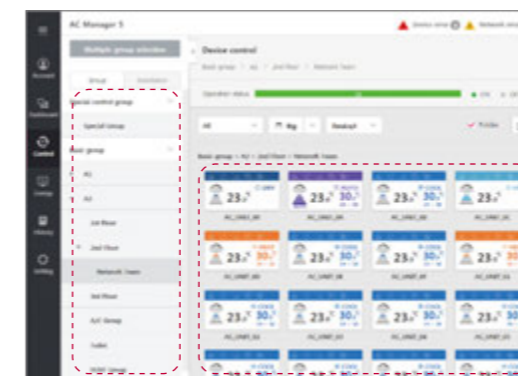
Visualized Control

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



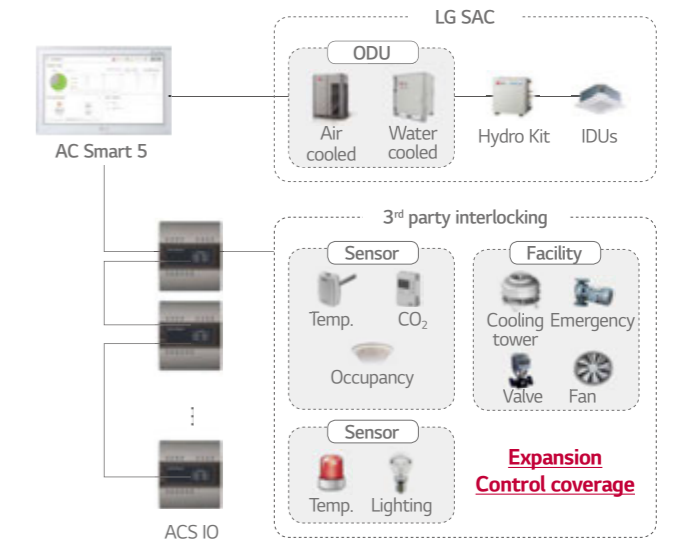
Multi Level Group Composition

You can freely apply layer structure such as building, floor, zone, etc. and set the group as the same as the site composition to control and monitor the devices. If you have special control group, you can additionally compose frequently used groups such as VIP Room, executive room, etc. regardless of the building structure.



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

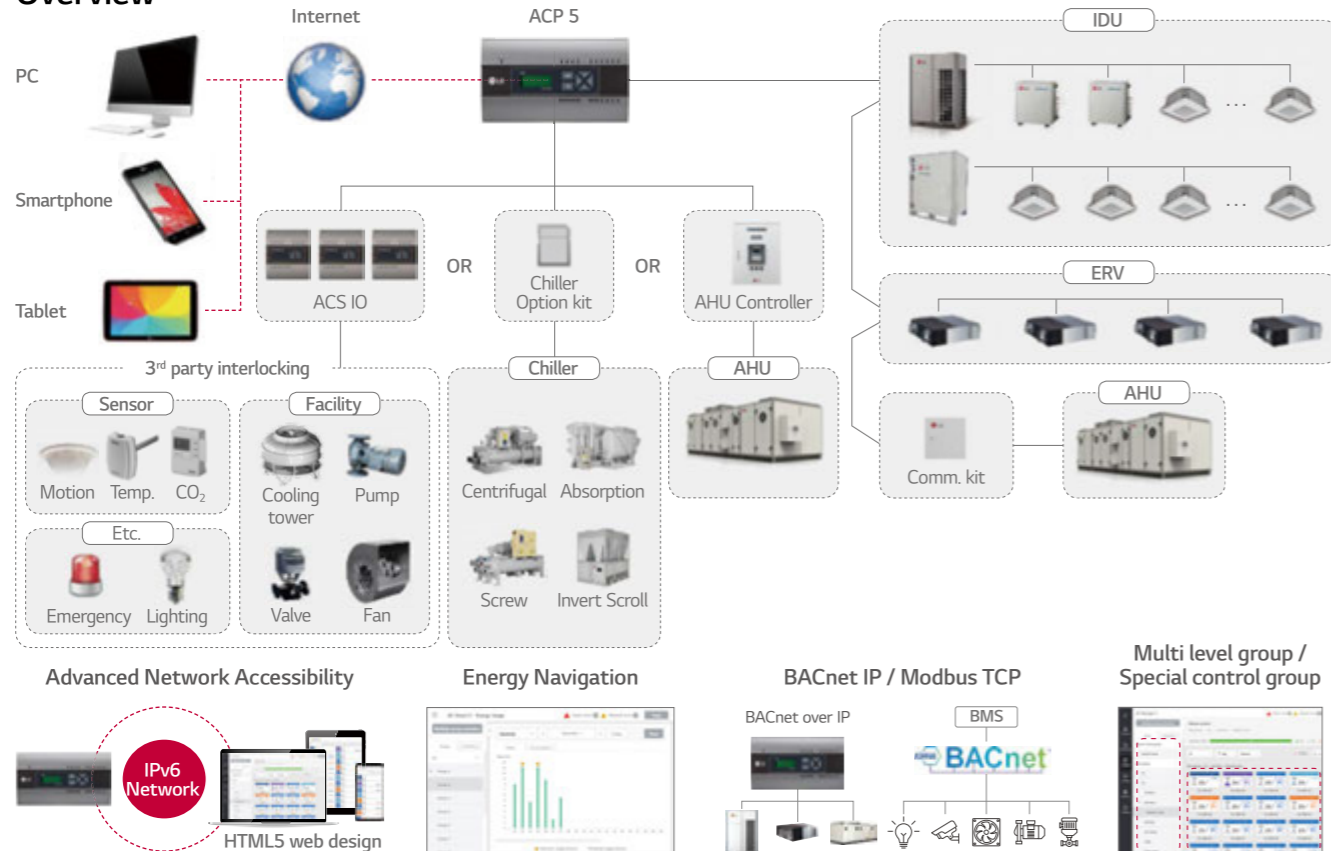
Features & Benefits

- 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



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

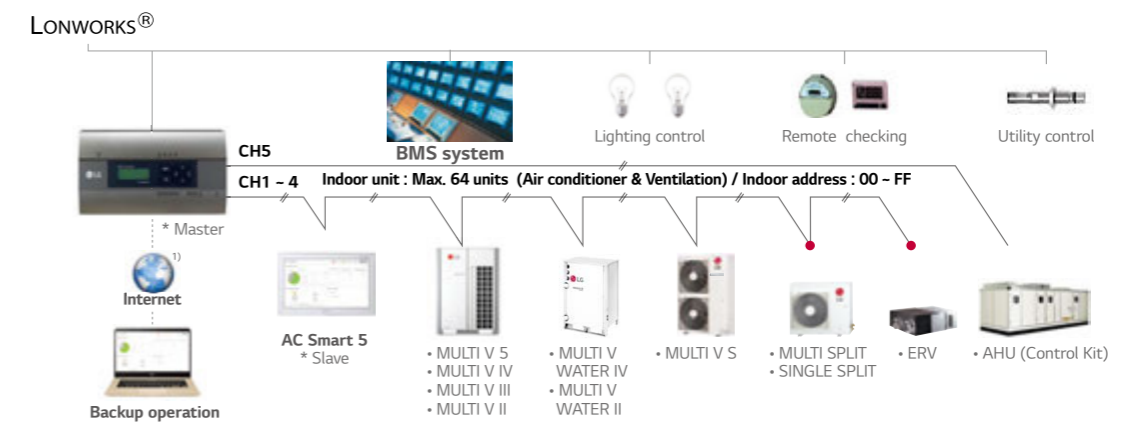
Features & Benefits

- 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



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

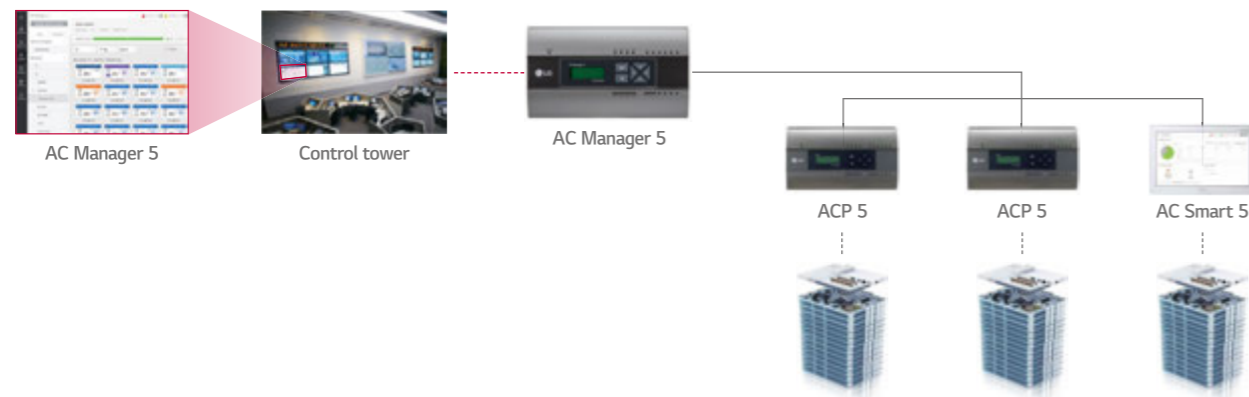
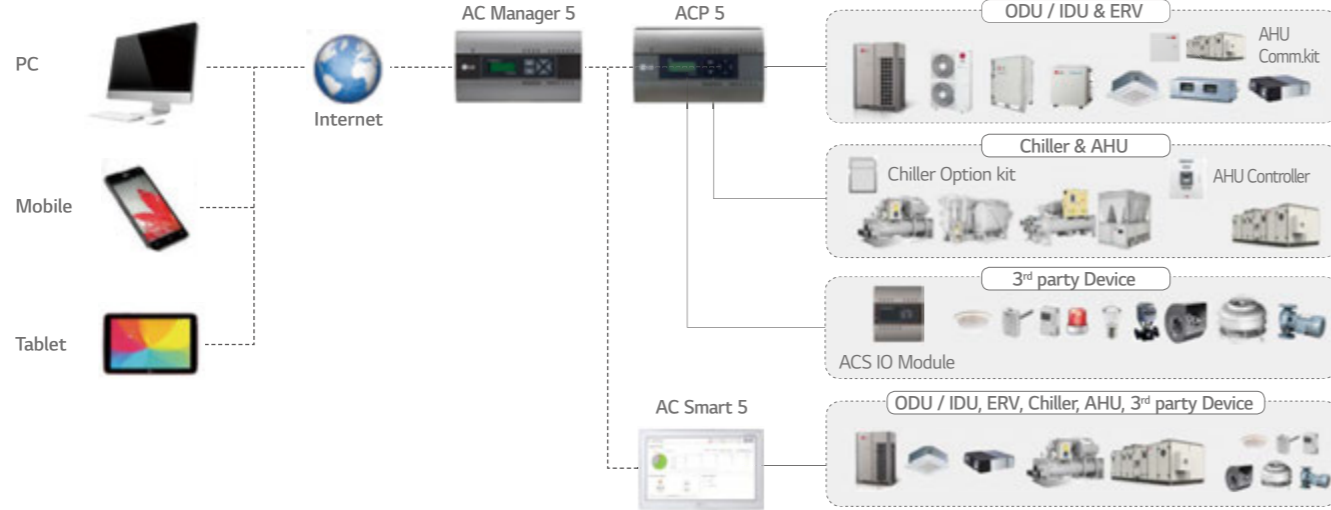
Features & Benefits

- 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



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.



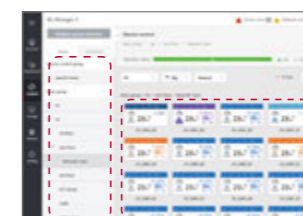
Peak Control

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

You can freely apply layer structure such as building, floor, zone, etc. and set the group as the same as the site composition to control and monitor the devices. Special control group You can additionally compose frequently used groups such as VIP Room, executive room, etc. regardless of the building structure.



KNX GATEWAY 1)

Specially designed to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX protocol.



Model Name	Max. Connection Indoor Units
LG-AC-KNX4	4
LG-AC-KNX8	8
LG-AC-KNX16	16
LG-AC-KNX64	64

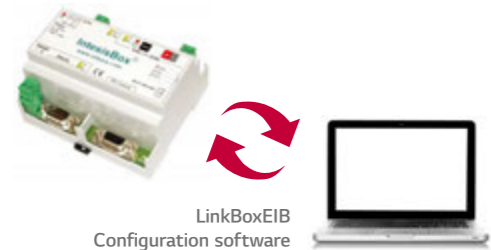
LG-AC-KNX4 / LG-AC-KNX8
LG-AC-KNX16 / LG-AC-KNX64

Features & Benefits

- Easy installation, direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and ERV units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Direct connection to KNX bus
- Independent management of communications
- Power supply : 9 to 24V DC or 24V AC
- Standard DIN-Rail 6 modules enclosure
- Maximum connection unit
- LG Central controller (for example, AC Smart) and PDI can be operated with KNX gateway.

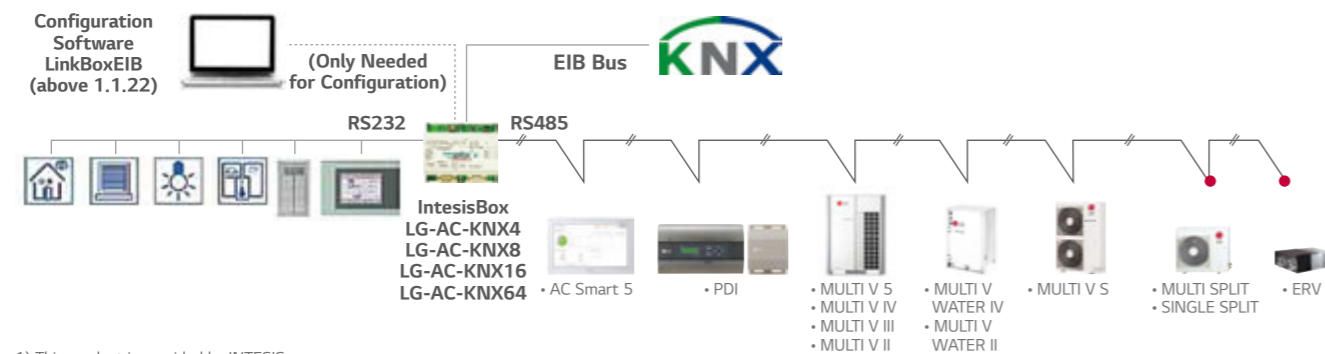
Link BoxEIB Configuration Software for IntesisBox® KNX Serious

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



- Only needed during configuration.
- One single tool for the configuration of the whole range of IntesisBox KNX series gateways.
- Supplied with IntesisBox with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple and fast association of KNX Group Addresses, exported from ETS, to IntesisBox's datapoints.
- Includes powerful and useful features for configuration, setup and troubleshooting.

Installation Scene



MODBUS RTU GATEWAY

Providing Modbus RTU connection between LG Air conditioners and BMS.



PMBUS00A

Features & Benefits

- Function
 - MODBUS RTU communication with MODBUS master controller
 - MODBUS RTU slave (RS485) / 9,600 bps
 - Applicable for Multi V 5
 - 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

Coil Register (0 x 01)

No.	Data Bit		Function
	Air Conditioner	Ventilator	
1	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run
2	Auto Swing	Aircon Operate (On / Off)	0 : Disable / 1 : Enable
3	Filter Alarm Reset	Filter Alarm Reset	0 : Normal / 1 : Reset
4	Lock Remote Controller	Lock Remote Controller	0 : UnLock / 1 : Lock
5	Lock Operate Mode	Lock Operate Mode	0 : UnLock / 1 : Lock
6	Lock Fan Speed	Lock Fan Speed	0 : UnLock / 1 : Lock
7	Lock Target Temp.	Lock Target Temp.	0 : UnLock / 1 : Lock
8	Lock IDU Address	Lock IDU Address	0 : UnLock / 1 : Lock
9	Reserved	Quick Ventilate	0 : Disable / 1 : Enable
10	Reserved	Energy Save	0 : Disable / 1 : Enable

Discrete Register (0 x 02)

No.	Data Bit		Function
	Air Conditioner	Ventilator	
10001	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected
10002	Alarm	Alarm	0 : Normal / 1 : Alarm
10002	Filter Alarm	Filter Alarm	0 : Normal / 1 : Filter Alarm

Holding Register (0 x 03)

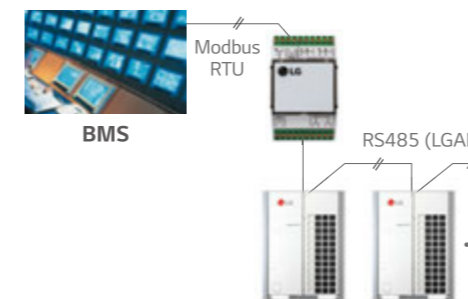
No.	Data Bit		Function
	Air Conditioner	Ventilator	
40001	Operate Mode	Operate Mode	0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating
40002	Fan Speed	Fan Speed	1 : Low, 2 : Mid, 3 : High, 4 : Auto
40003	Target Temp.	Target Temp.	16.0 ~ 30.0 [°C] x 10
40004	Target Temp. Limit (Upper)	Target Temp. Limit (Upper)	16.0 ~ 30.0 [°C] x 10
40005	Target Temp. Limit (Lower)	Target Temp. Limit (Lower)	16.0 ~ 30.0 [°C] x 10
40006	Reserved	Vent. Operate Mode	0 : HEX, 1 : Auto, 2 : Normal

Input Register (0 x 04)

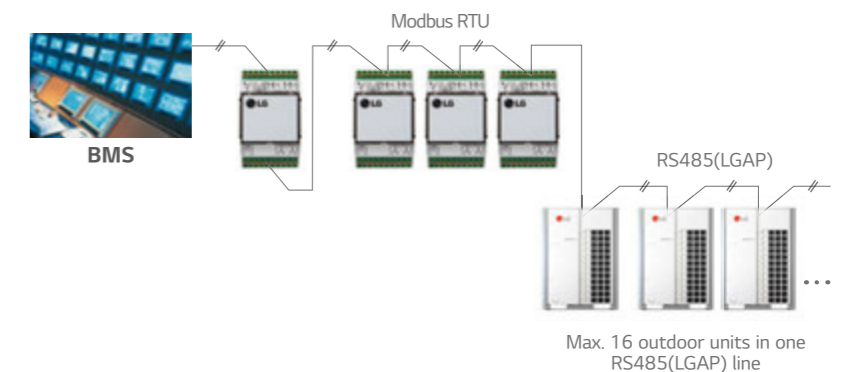
No.	Data Bit		Function
	Air Conditioner	Ventilator	
30001	Error Code	Error Code	0 ~ 255 ※ Please refer to the product error table.
30002	Room Temp.	RA Temp.	-99.0 ~ 99.0 [°C] x 10
30003	Pipe In Temp.	OA Temp.	-99.0 ~ 99.0 [°C] x 10
30004	Pipe Out Temp.	SA Temp.	-99.0 ~ 99.0 [°C] x 10
30005	Reserved	Pipe In Temp.	-99.0 ~ 99.0 [°C] x 10
30006	Reserved	Pipe Out Temp.	-99.0 ~ 99.0 [°C] x 10

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



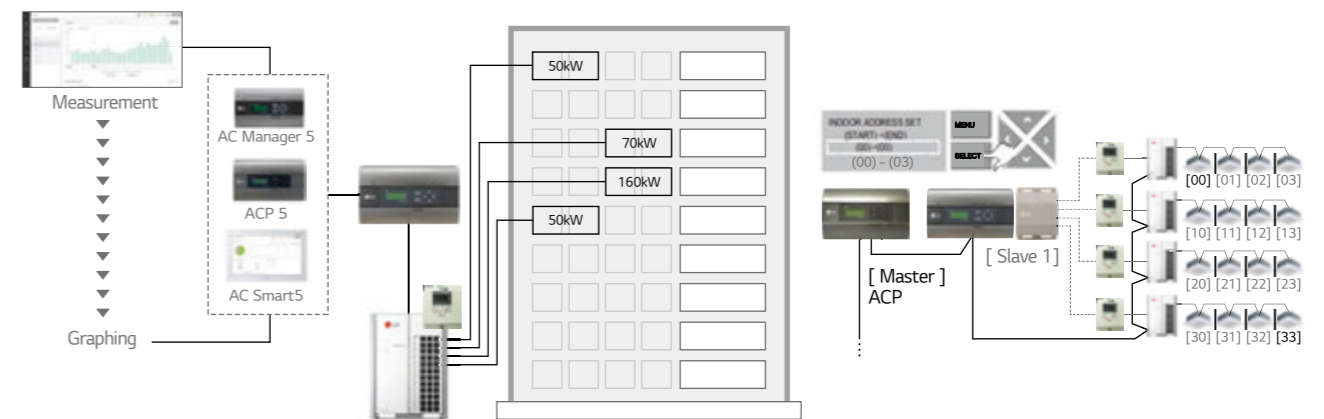
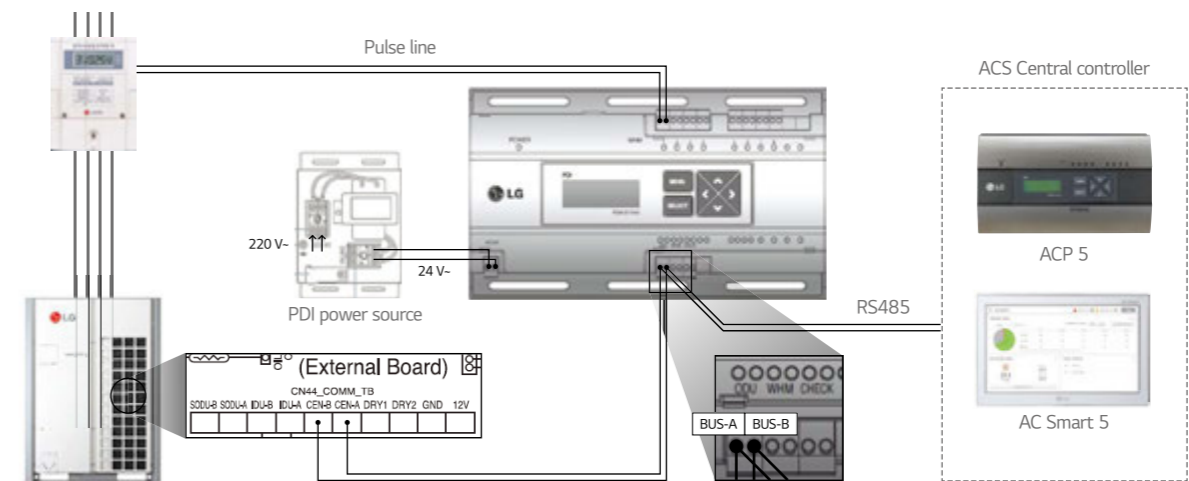
PQNUD1S40 (Premium, 8 port)
PPWRDB000 (Standard, 2 port)

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

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



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

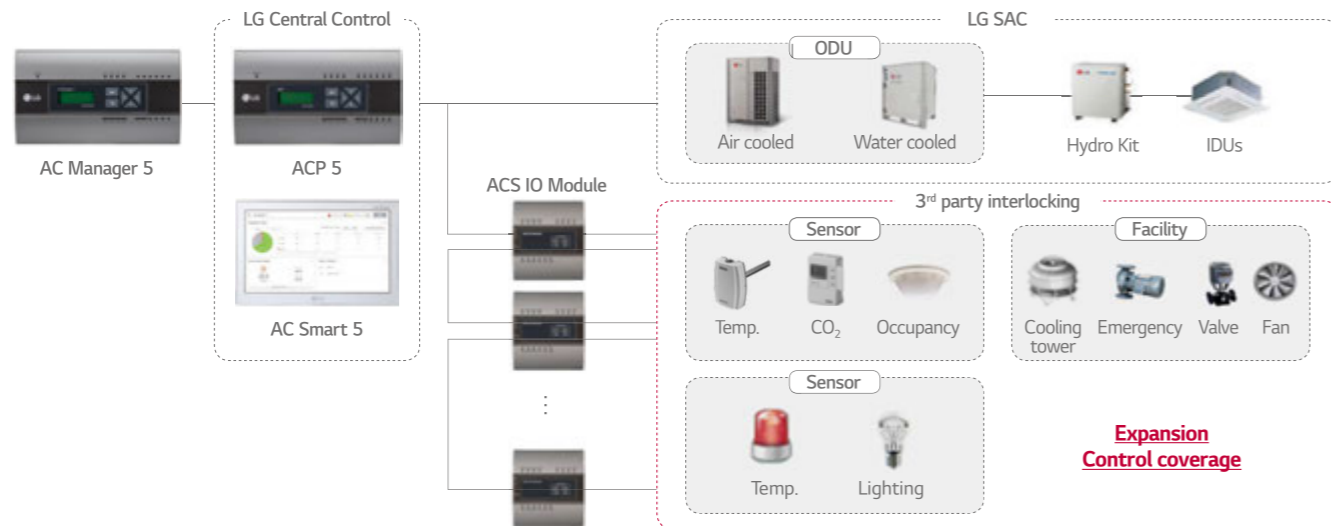
Model Name		PEXPMB000	
Linkable Products		PACS4B000 PACP4B000 PACS5A000 PACP5A000	
Communication	RS-485	1 ch.	
I/O	Digital Input	3 port	
	Digital Output	3 port	
	Universal Input ¹⁾	4 port	
	Analog Output	4 port	
Value Spec		Min.	Max.
Analog Input	NTC 10k	0.68k Ω	177k Ω
	PT 1000	803 Ω	1,573 Ω
	Ni 1000	871.7 Ω	1,675.2 Ω
	DC (Voltage)	0V	10V
Analog Output	DC (Current)	0mA	20mA
	-	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...)

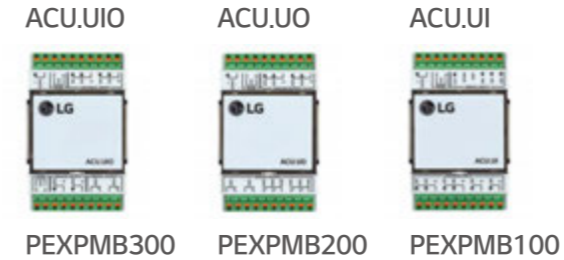
Key Application



* 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 NEW

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.



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.



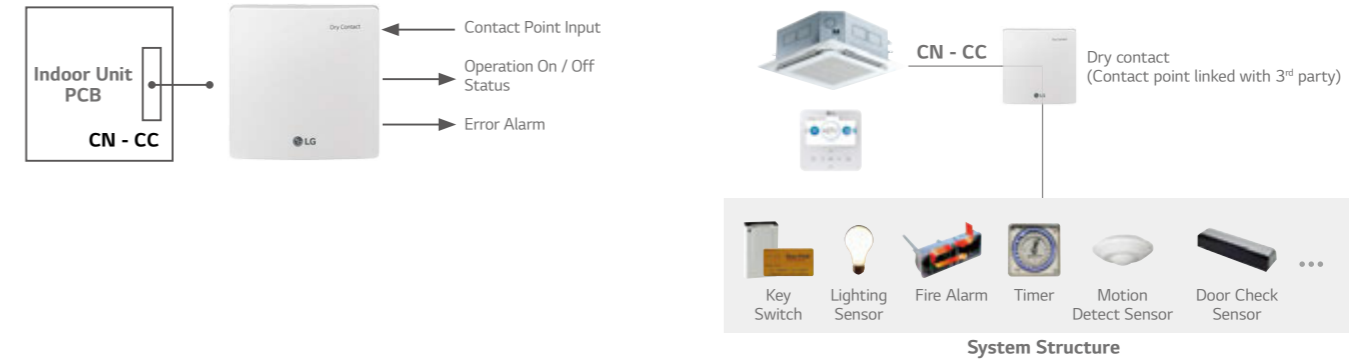
DRY CONTACT

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

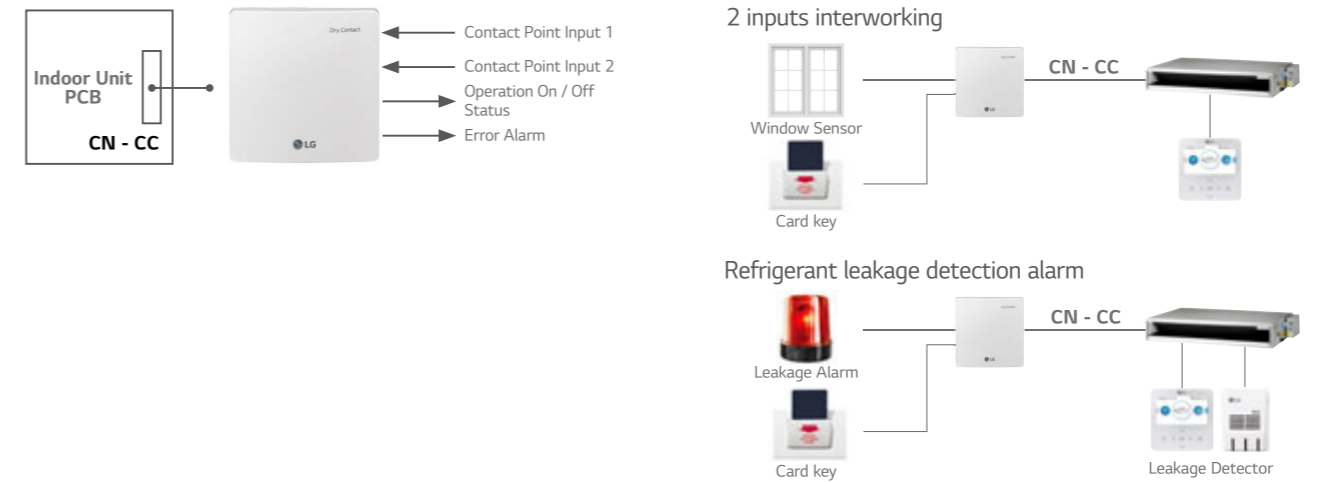
Model Name		PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB500
					
Case		○	○	○	○
Input Port		1	2	8	-
Comm. Protocol		-	-	-	Modbus RTU
Power		AC 220V	Connect to Indoor unit PCB (CN_CC)		
Aircon	On / Off	○	○	○	○
	Oper Mode	-	○	○	○
	Set Temp.	-	(Select & Fix)	(Select & Fix)	○
	Fan Speed	-	-	○	○
	Thermo-Off	-	(Select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

※ ○ : Applied, - : Not Applied
 Note : 1. Compatibility of PDRYCB300
 - 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.

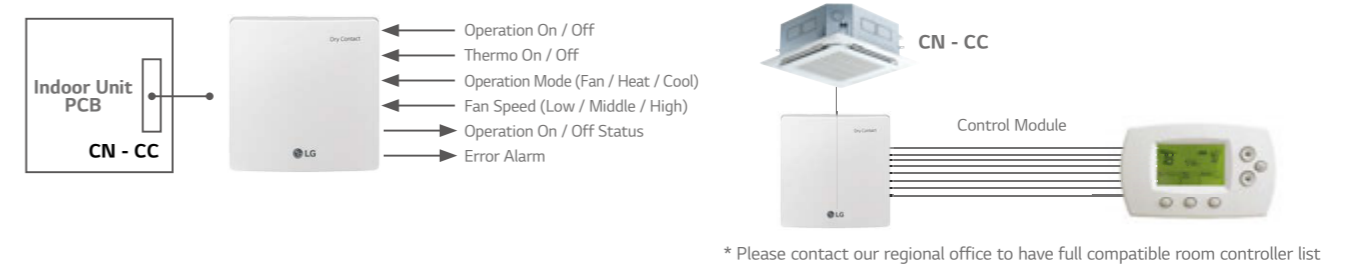
PDRYCB000



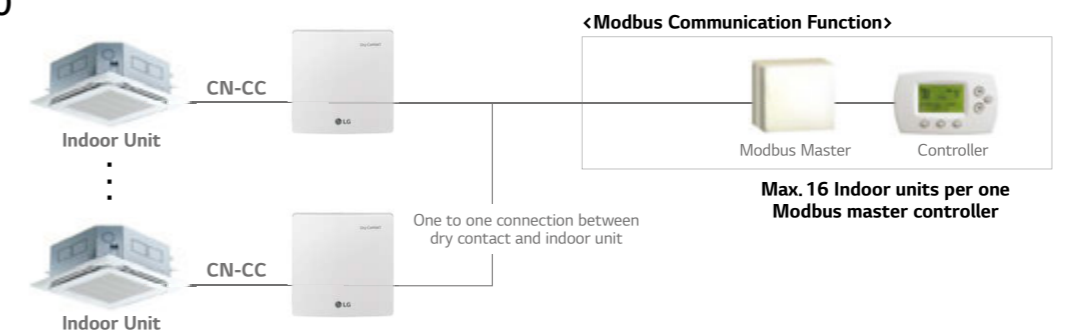
PDRYCB400



PDRYCB300



PDRYCB500



GROUP CONTROL WIRE

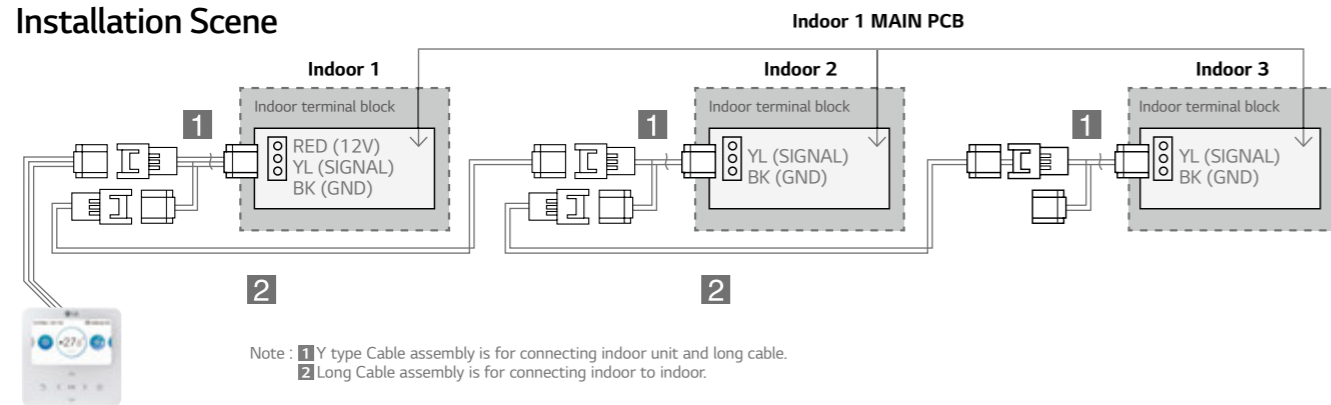
Cables used to connect a wired remote controller up to 16 indoor units.



PZCWRCG3

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

Installation Scene



LOW PROFILE REMOTE TEMPERATURE BUTTON SENSOR

This installs easily and discreetly into a wall and then connects to indoor unit



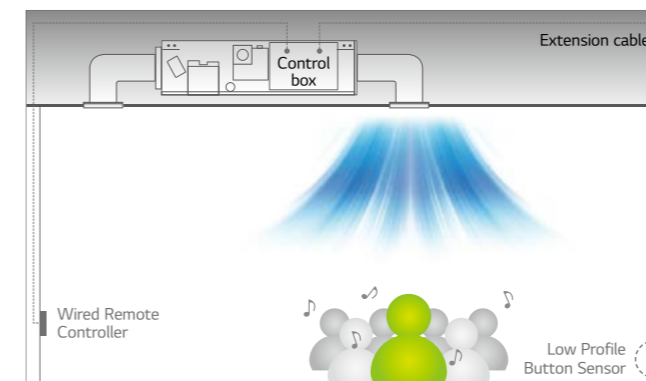
ZRTBS01

Model Name	ZRTBS01
Operation Range	-40°C to 85°C (0 to 100%RH, Non-condensing)
Sensing Element	Thermistor
Sensing Element Accuracy	0.2°C (0 to 70°C)
Material	Etched Teflon
Wire Leads Length	15m
Thickness	0.33mm ²
Mounting	10mm hole, push in plastic sheath with peel off tape strip
Enclosure Material Ratings	Plastic, NEMA 1, UL94

Features & Benefits

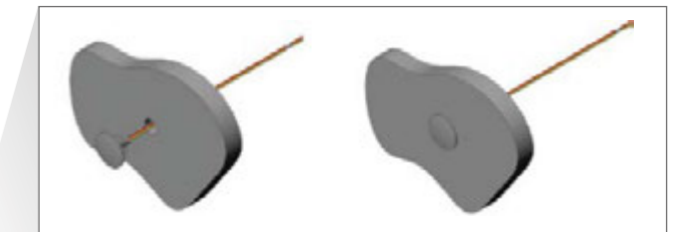
- Ideal for locations where aesthetics are as important as the temperature measurement.
- Inconspicuous wall sensor that mounts easily by pushing through a 10mm hole and secured with a peel off tape strip.
- Small flush sensor mounting.
- Accurate direct air measurement.
- Paintable with latex or oil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

Key Application



Models Applied

- LG indoor units excluding Wall-Mounted Type



REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature.



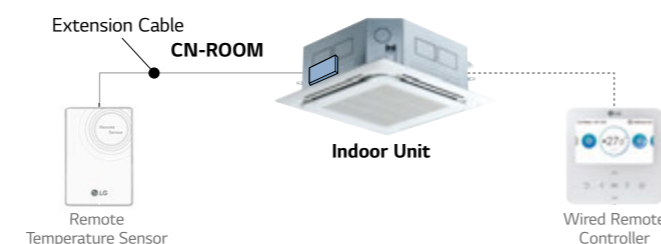
PQRSTA0

Features & Benefits

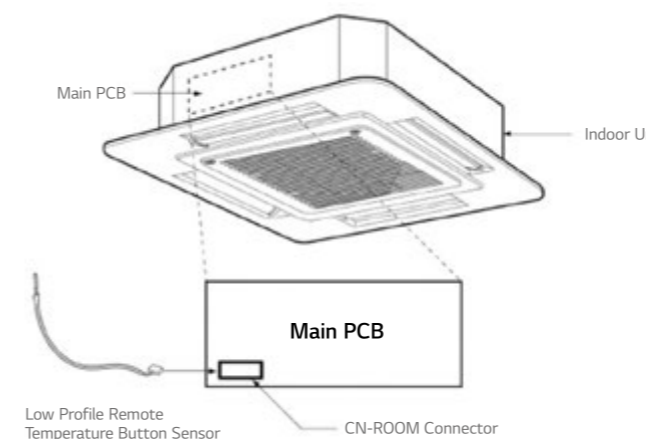
- It detects the exact room temperature instead of indoor unit's air temperature sensor
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, THERMA V and HYDRO KIT
- Extension cable (15m) is included

Installation Scene

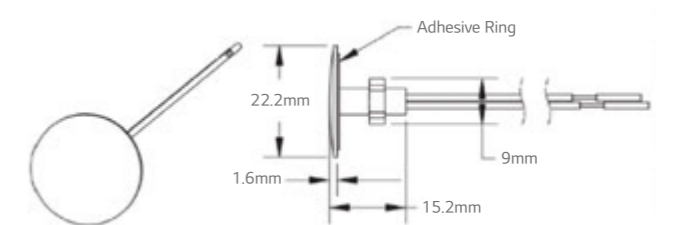
1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



Installation Scene

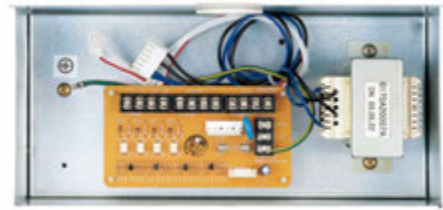


Drawing



ZONE CONTROLLER

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



ABZCA

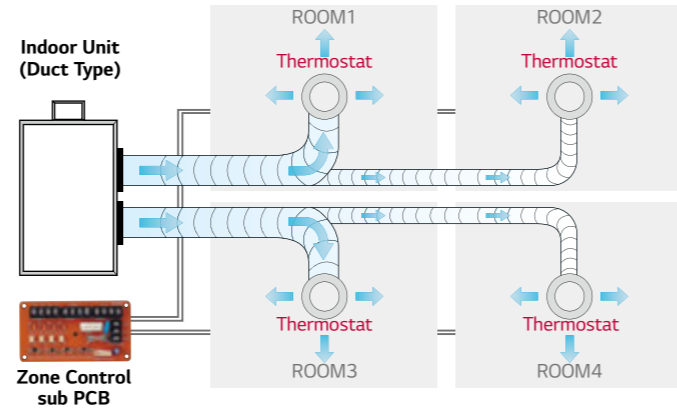
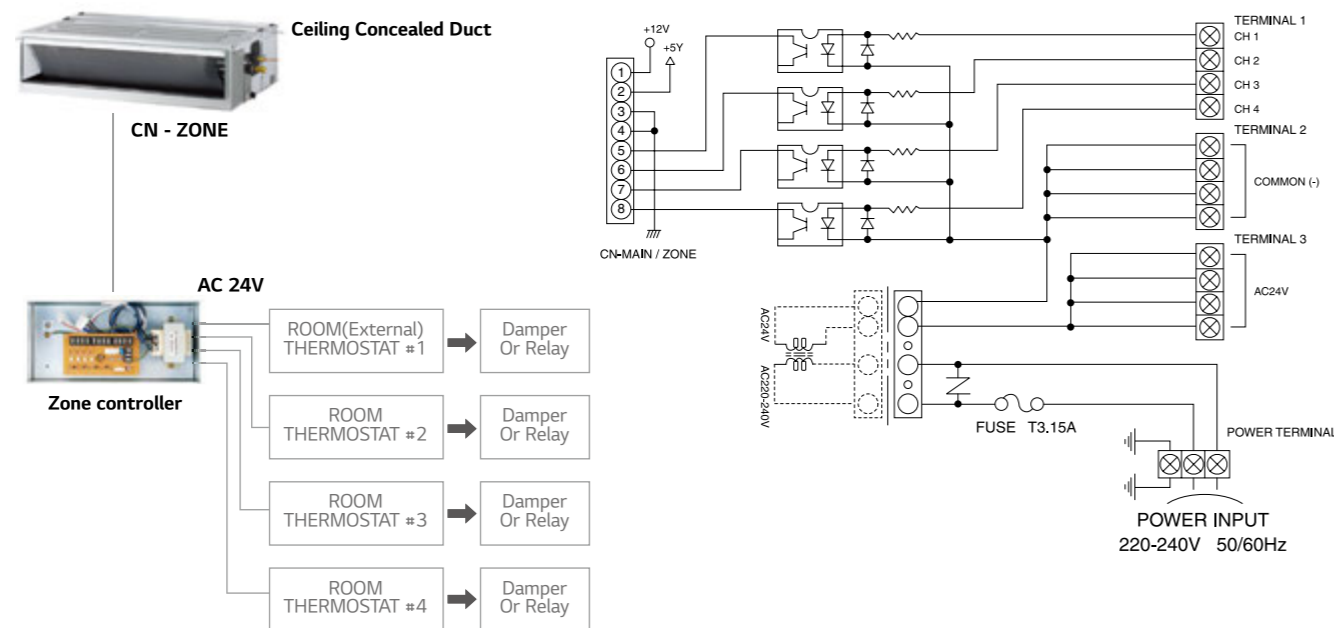
Features & Benefits

- 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.

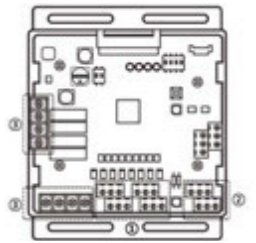
Note : IO Module is not compatible for MULTI V III

Models Applied

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

Part Description

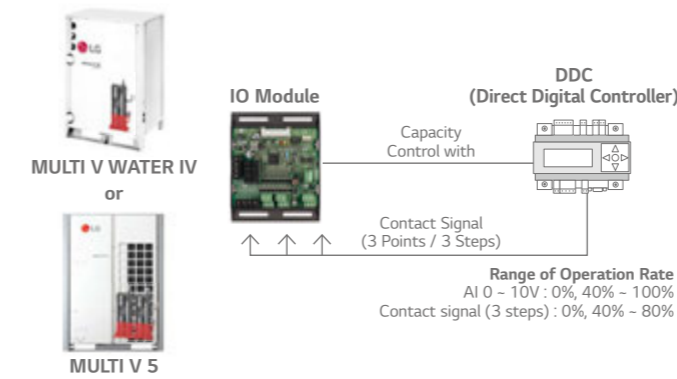
- 1) Digital Input Part (DI : Dry Contact Input)
 - Demand control by contact input (3 Step)
 - Low Noise Operation input
 - Priority Setting input : Setting the priority of demand control command (Capacity control for external signal from DDC vs Peak control by LG Central controller)
 - Open : External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

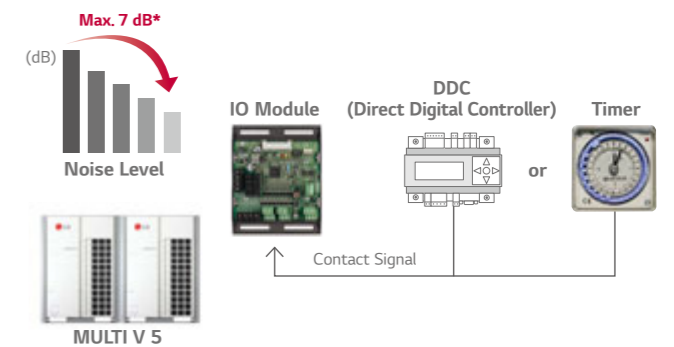
Demand Control

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

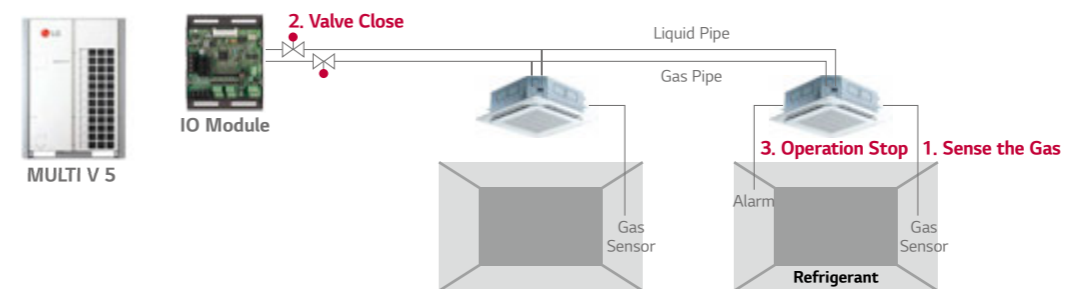
To reduce noise level, control outdoor unit's fan speed by dry contact input.



* 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.



VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow.



PWFCKN000
(MULTI V WATER IV)

Features

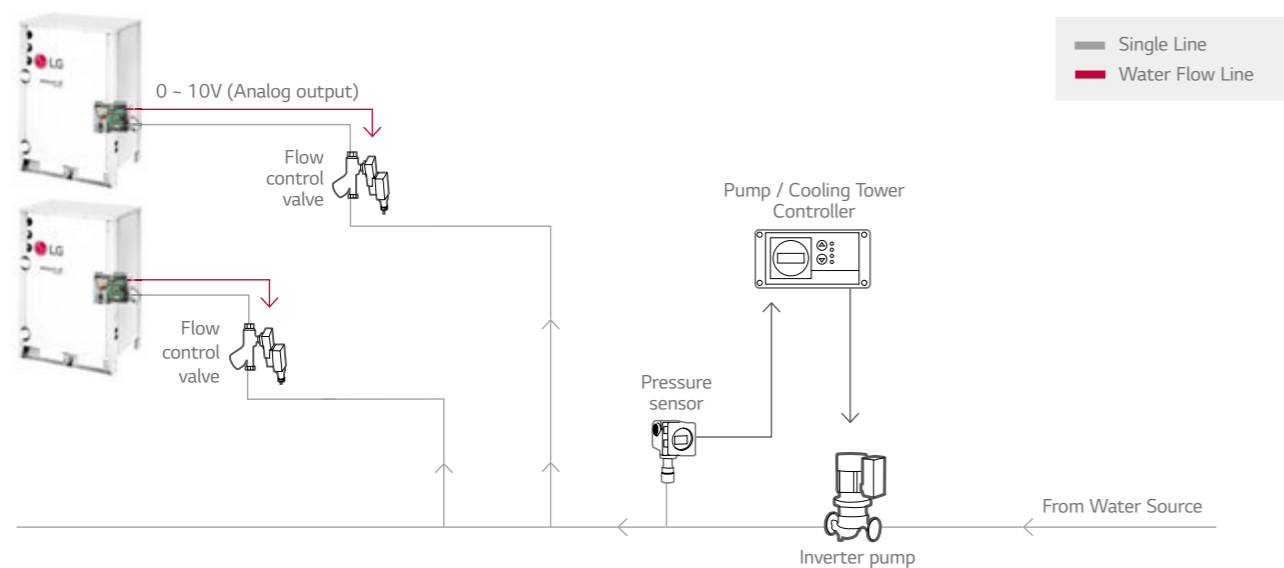
Function

- 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

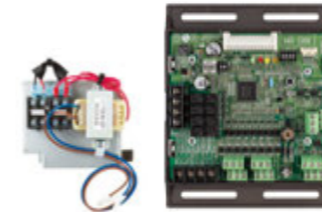
Wiring Diagram



- 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

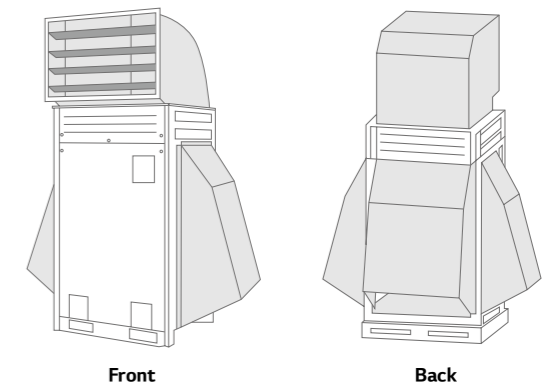
Features

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.



Front

Back

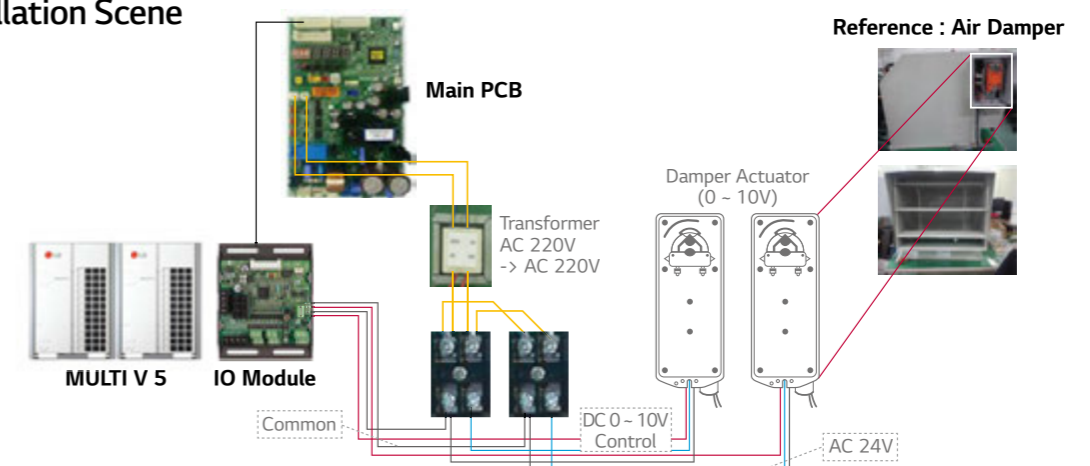
□ : Field Supply item

CONTROL SOLUTIONS

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

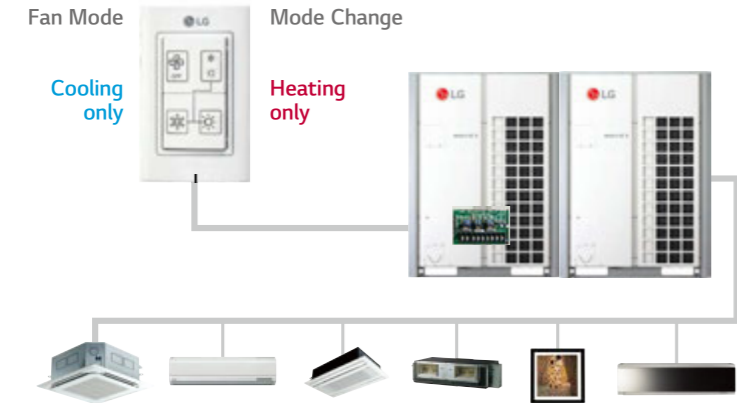
Cooling, heating, or fan mode can be selected to prevent cooling and heating mixing errors during seasonal changes.



PRDSBM

Features

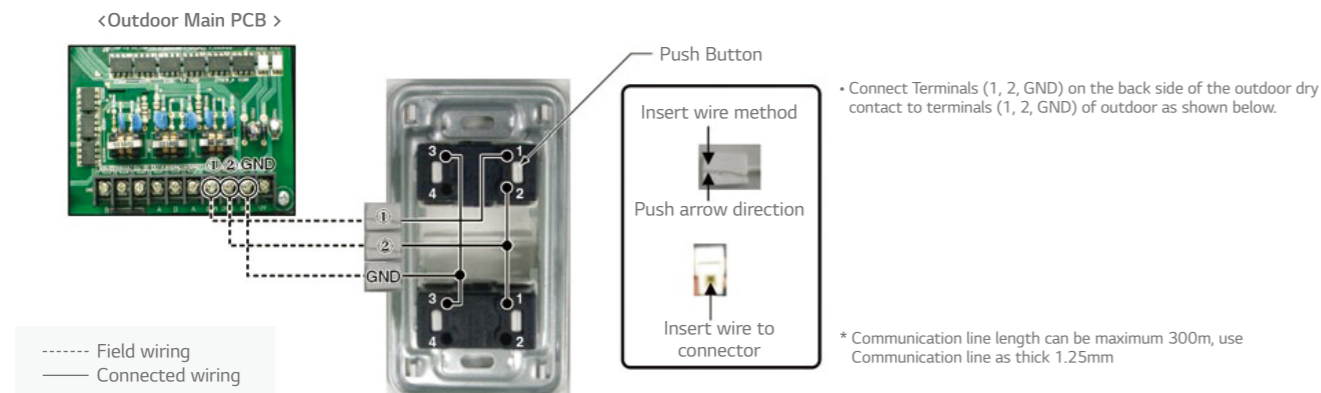
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

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

Wiring Diagram



AHU KITS

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



Specifications

Communication & Control Kit

Type	Model	Combination				Description	Dimensions (mm)		
		Outdoor Unit	EEV Kit	TXV Kit	Centralized Controller		W	H	D
Communication kit	PAHCMR000	MULTI V	○	○	○	Return / Room air temperature control by DDC or LG individual / centralized controller	300	300	155
	PAHCMS000	Single Split	-	-	○				
Control kit	PRCKD21E	MULTI V	-	○	○	Max. capacity 1 - 4 master outdoor unit	600	750	285
	PRCKD41E	MULTI V	-	○	○	Max. capacity 5 - 8 master outdoor unit	600	750	285

※ ○ : Applied, - : Not Applied

Expansion Valves

Type	Model	Capacity Range	Pipe Diameter (mm)				Dimensions (mm)		
			Liquid (ODU)	Liquid (AHU)	Gas (ODU)	Gas (AHU)	W	H	D
EEV Kit (Electronic Expansion Valve)	PRLK048A0	1.3 - 10 HP	12.7	12.7	-	-	217	404	83
	PRLK096A0	12 - 20HP	12.7	12.7	-	-	217	404	83
TXV Kit (Thermal Expansion Valve)	PATX13A0E	8 - 16HP	15.88	15.88	22.22	22.22	491	238	174
	PATX20A0E	18 - 26HP	15.88	22.22	28.58	28.58	491	238	174
	PATX25A0E	28 - 36HP	22.22	28.58	34.92	34.92	491	238	174
	PATX35A0E	38 - 46HP	28.58	34.92	41.3	41.3	491	238	174
	PATX50A0E	48 - 56HP	28.58	34.92	41.3	41.3	561	291	192

※ ○ : Applied, - : Not Applied

AHU KITS

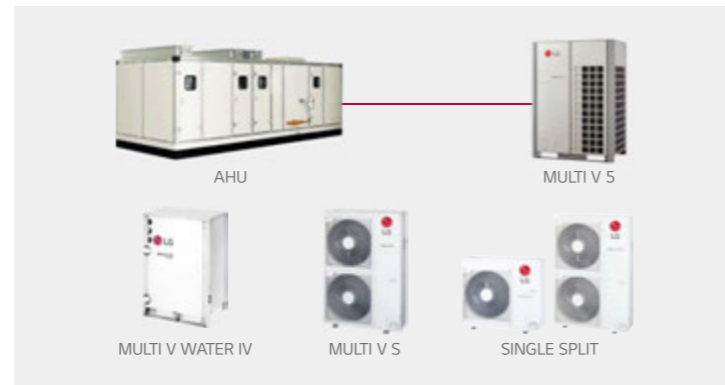
Communication Kit

HIGH ENERGY EFFICIENCY

LG's DX AHU solutions are capable of performing all indoor air conditioning tasks with success under all operating conditions thanks to their superior performance with high efficiency heat source system.

Solution benefits offer the following advantages:

- High energy efficiency inverter system
- Large range of expansion valves
: 1.3 ~ 20 HP EEV Kit, 8 ~ 56 HP TXV Kit
- Connected to various heat sources
: MULTI V, MULTI V WATER, MULTI V S, SINGLE SPLIT

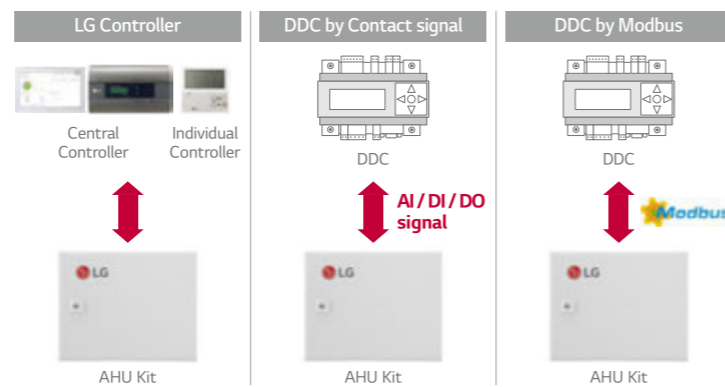


DIVERSE OPTIONS FOR CONTROL

AHU communication kit can be connected to various control system such as LG individual/central controller and DDC¹⁾. It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

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

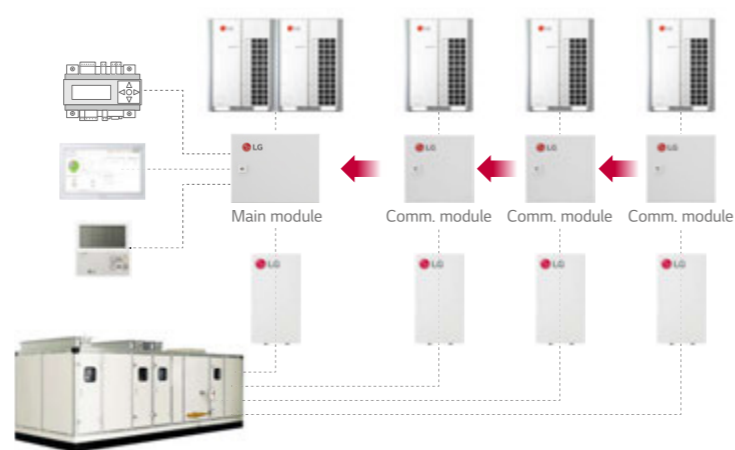
1) DDC : Direct Digital Controller



EXPANDABLE SYSTEM DESIGN

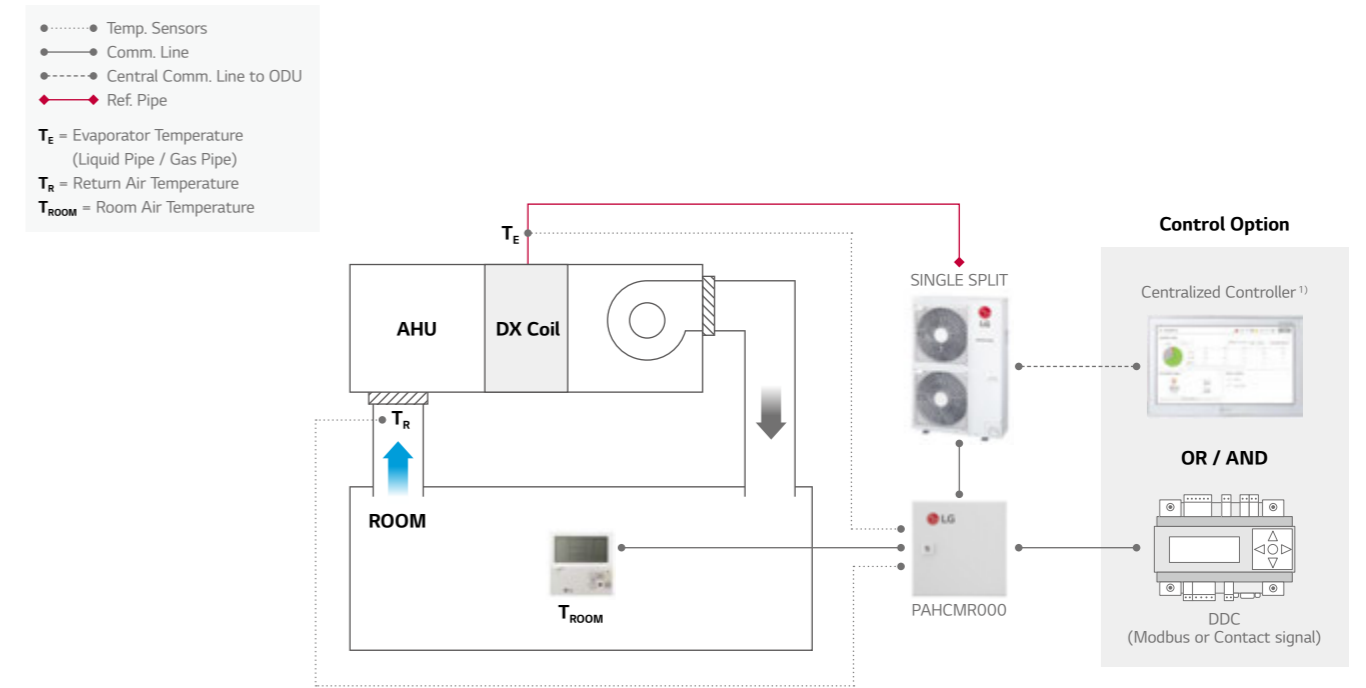
LG AHU system can be a suitable solution for various sites due to its application flexibility and wide range of line up with large capacity models. According to the required capacity, a single or multiple module combination is possible thanks to AHU communication kit's modular design.

- Multiple module combination for large capacity AHU

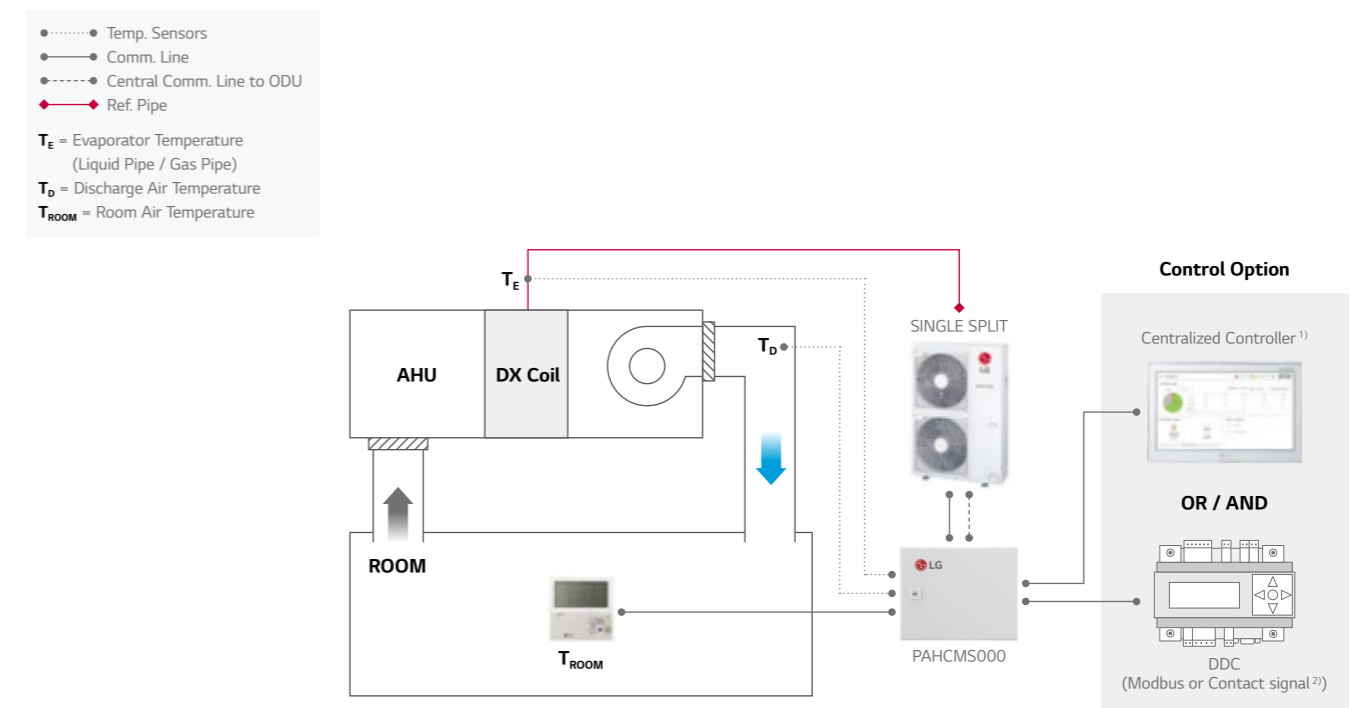


Communication Kit Application

Small Capacity with Single Split + Return / Room Air Temperature Control



Small Capacity with Single Split + Discharge Air Temperature Control

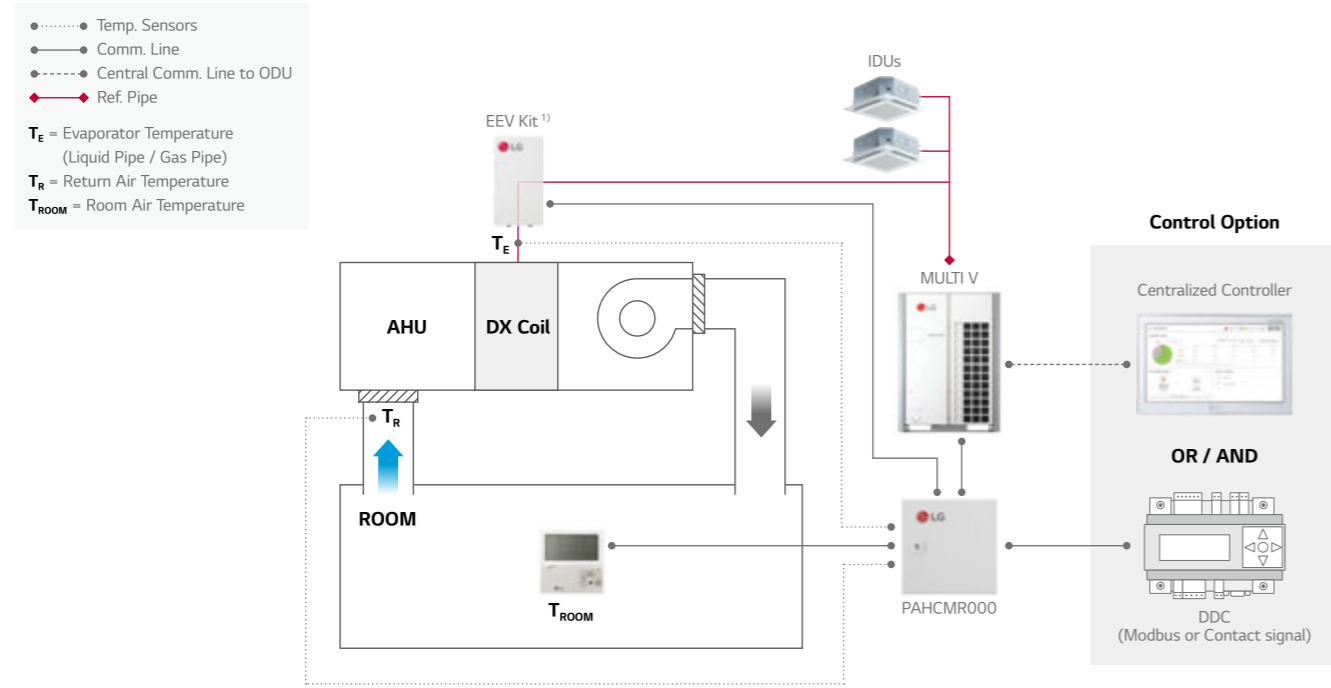


1) PI485 (PMNFP14A1) is required for centralized controller
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC
Note : For more detail, please refer to the PDB

AHU KITS

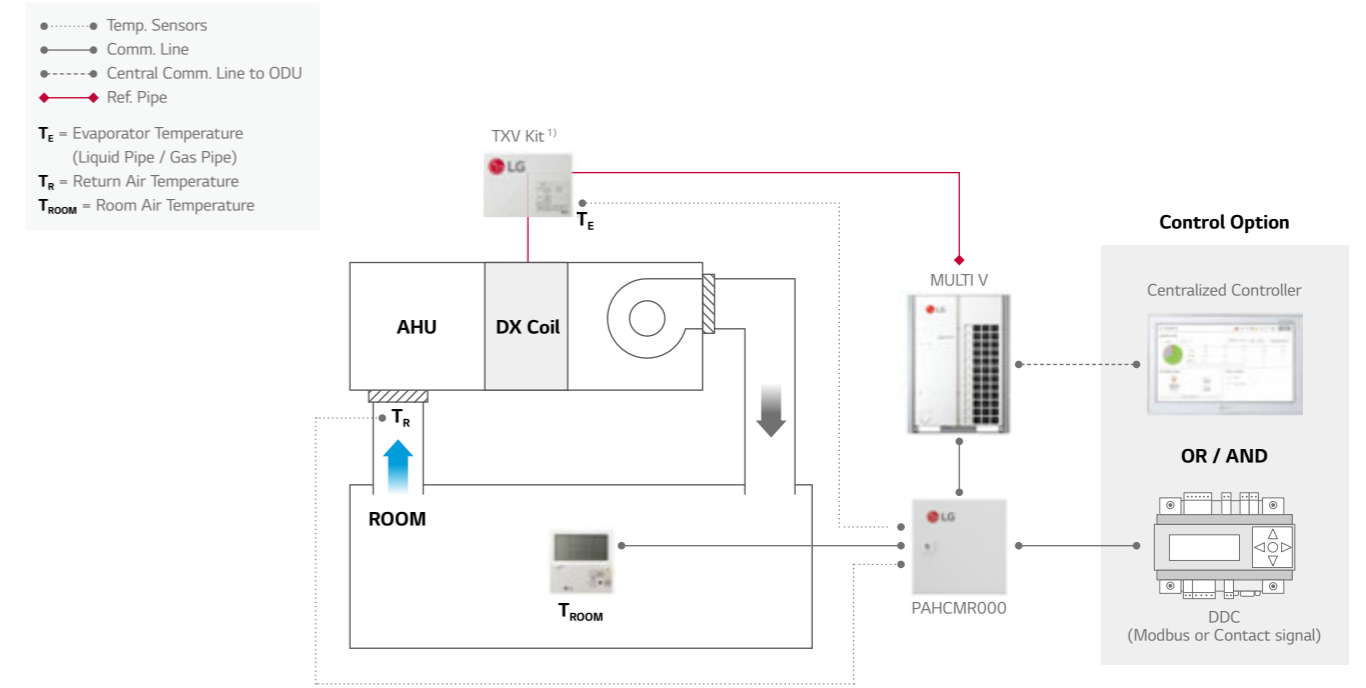
Communication Kit Application

Small-Medium Capacity with Multi V + EEV Kit + IDU + Return / Room Air Temperature Control

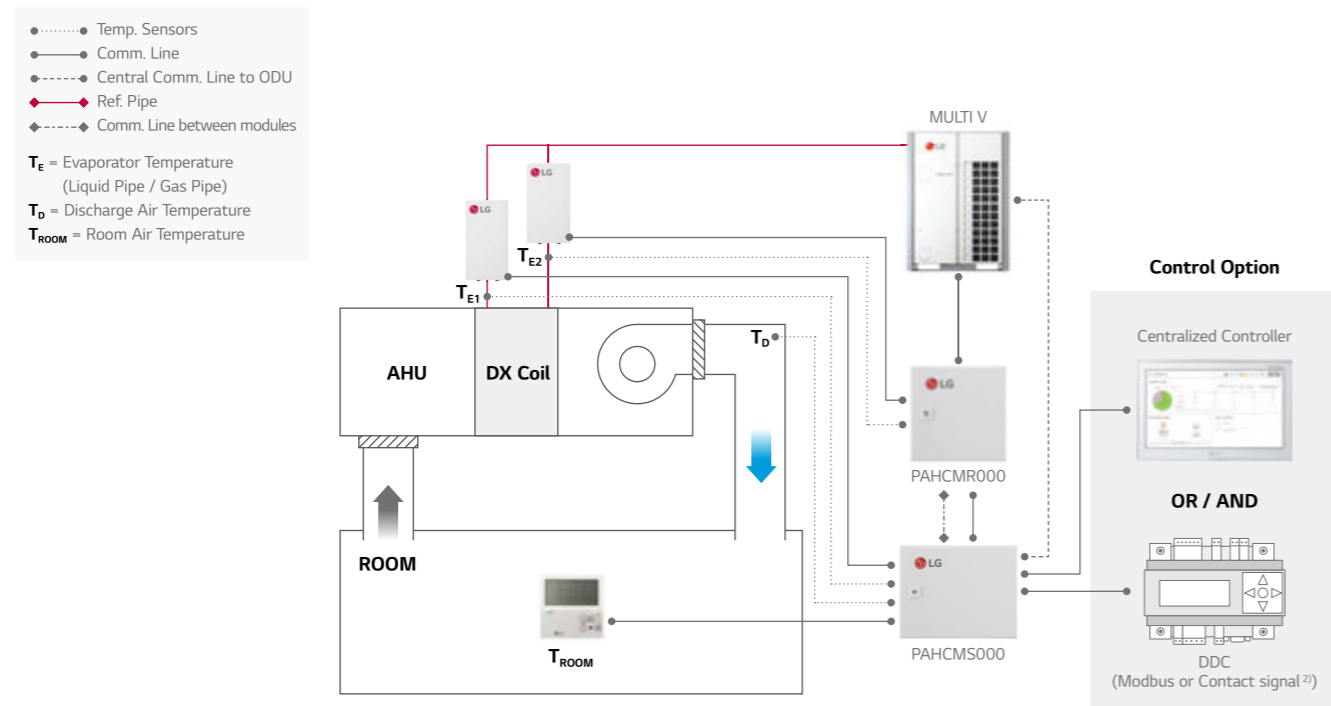


Communication Kit Application

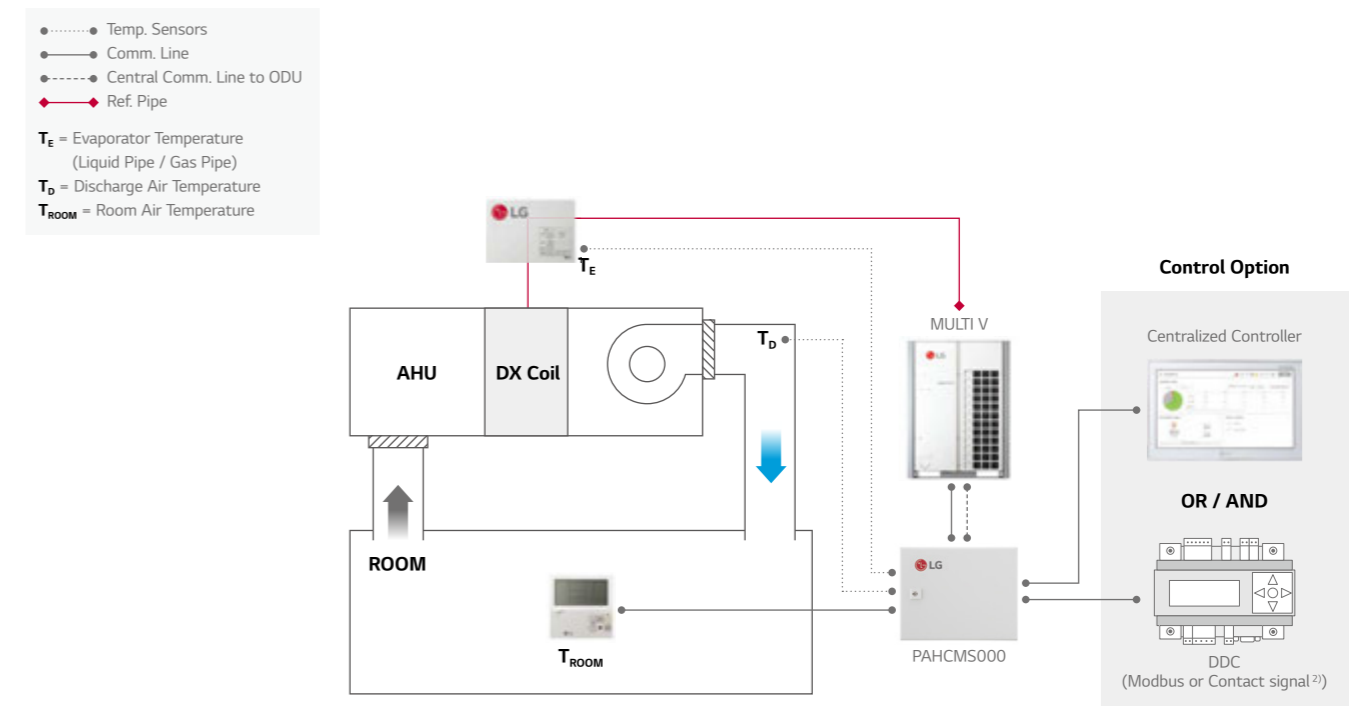
Large Capacity with Multi V + TXV Kit + Return / Room Air Temperature Control



Small-Medium Capacity with Multi V + EEV Kit + Discharge Air Temperature Control



Large Capacity with Multi V + TXV Kit + Discharge Air Temperature Control



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

1) TXV Kit should be connected with outdoor unit 1:1
 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC
 Note : For more detail, please refer to the PDB

AHU KITS

Communication Kit Function

Communication with DDC via Contact Signal

Function List	PAHCMR000	PAHCMS000	Type	Electric Spec.
Comm. Kit Operation	On / Off		Digital Input	Non voltage
Operation Mode ¹⁾	Cooling / Heating		Digital Input	Non voltage
Return (room) Air Temperature ²⁾	16 ~ 30°C	-	Analog Input	DC 0 ~ 10V / 20mA
Discharge Air Temperature ³⁾	-	-	-	-
Fan Speed ⁴⁾	-	Low / Middle / High	Digital Input	Non voltage
Forced Thermal On / Off	On / Off	-	Digital Input	Non voltage
Capacity Control	-	○	Analog Input	DC 0 ~ 10V / 20mA
Comm. Kit Operation ²⁾	On / Off		Digital Output	Max. : DC 12V / 1A, AC 250V / 3A
Operation Mode	-	-	-	It needs to be checked through control signal
Return (room) Air Temperature	-	-	-	-
Discharge Air Temperature	-	-	-	-
Fan Speed ²⁾	Low / Middle / High	-	Digital Output	Max. : DC 12V / 1A, AC 250V / 3A
Defrost Operation ²⁾	Defrost / Normal	-	Digital Output	Max. : DC 12V / 1A, AC 250V / 3A
Error Alarm ²⁾	Error / Normal	-	Digital Output	Relay C contact (Max. : DC 30V / 5A, AC 250V / 5A)
Compressor On / Off	-	On / Off	Digital Output	Max. : DC 12V / 1A, AC 250V / 3A

※ ○ : Applied, - : Not Applied

1) Available operation mode can be varied depending on the setting of Communication Kit

2) This function may not be possible depending on the setting of Communication Kit. For more details, please refer to the product data book

3) Discharge air temperature should be controlled directly through DDC

4) To control the fan speed using contact signal, DO ports for the status of fan speed needs to be connected with the fan unit

Communication with DDC via Modbus protocol

Function List	PAHCMR000	PAHCMS000	Note
Comm. Kit Operation	On / Off		-
Operation Mode ¹⁾	Cooling / Heating		-
Return (room) Air Temperature	16 ~ 30°C	-	-
Discharge Air Temperature	-	16 ~ 30°C	-
Fan Speed ²⁾	Low / Middle / High	-	-
Forced Thermal On / Off	-	-	-
Capacity Control	-	○	-
Comm. Kit Operation	On / Off		-
Operation Mode ¹⁾	Cooling / Heating		-
Return (room) Air Temperature	-50 ~ 100°C	-	Corresponding air temperature sensor connected to AHU comm. kit is required
Discharge Air Temperature	-	-50 ~ 100°C	
Fan Speed	Low / Middle / High	-	-
Defrost Operation	On / Off		-
Error Alarm	Error Alarm & Code		-
Compressor On / Off	On / Off		-

※ ○ : Applied, - : Not Applied

1) Available operation mode can be varied depending on the setting of Communication Kit

2) To control the fan speed using Modbus, DO ports for the status of fan speed needs to be connected with the fan unit

Note : For the Modbus memory map, please refer to the product data book

Communication Kit Function

With LG Control system (Individual & Centralized Controller)

Function List	PAHCMR000	PAHCMS000	Note
Comm. Kit Operation	On / Off	On / Off	-
Operation Mode ¹⁾	Cooling / Heating	Cooling / Heating	-
Return (room) Air Temperature	16~30°C	-	-
Discharge Air Temperature ²⁾	-	16 ~ 30°C	-
Fan Speed ³⁾	Low / Middle / High	-	-
Forced Thermal On / Off	-	-	-
Capacity Control	-	-	-
Comm. Kit Operation	On / Off	On / Off	-
Operation Mode ¹⁾	Cooling / Heating	Cooling / Heating	-
Return (room) Air Temperature	11~39.5°C / -50~100°C	-	By Individual controller : 11 ~ 39.5°C By Centralized controller : -50 ~ 100°C
Discharge Air Temperature	-	-50 ~ 100°C	Only with Centralized Controller
Fan Speed ³⁾	Low / Middle / High	-	-
Defrost Operation	On / Off	On / Off	Only with Individual Controller
Error Alarm	Error Code	Error Code	-
Compressor On / Off	On / Off	On / Off	Only with Individual Controller

※ ○ : Applied, - : Not Applied











1) Available operation mode can be varied depending on the setting of Communication Kit. For more details, please refer to the product data book

2) This range may differ depending on the type of controller

3) To control the fan speed using contact signal, DO ports for the status of fan speed needs to be connected with the fan unit

Note : Control function is unavailable in case of using together with DDC via contact signal

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	PAC5A000	PACP5A000	PACM5A000	PLNWK000	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 in the future

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

Communication Kit Function

Outdoor Unit Compatibility

MULTI V

Model		MULTI V				MULTI V WATER		
		S	IV	III	S	IV	II	S
AHU Controller	PAHCMR000	○	○	○	○	○	○	○
	PAHCMS000	○	○	○	○	○	○	-

Single Split

Standard Inverter (1-phase)									
Capacity	Cooling	kW	4.7	7.7	8.0	10.0	12.5	13.9	14.6
	Heating	kW	5.5	8.0	9.0	11.0	14.0	15.4	16.9
AHU Kit	PAHCMR000		○	○	○	○	○	○	○
	PAHCMS000		○	○	○	-	-	-	-

Standard Inverter (3-phase)								
Capacity	Cooling	kW	10.0	12.5	13.9	14.6	19.0	23.0
	Heating	kW	11.0	14.0	15.4	16.9	22.4	27.0
AHU Kit	PAHCMR000		○	○	○	○	○	○
	PAHCMS000		-	-	-	-	○	○

※ ○ : 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.

Expansion valves for MULTI V system

EEV Kit	PRLK048A0										PRLK096A0					
	1,3	1,6	2	2,5	3	3,5	4	5	6	8	10	12	14	16	18	20
HP	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1	15.8	22.4	28	33.6	39.2	44.8	50.4	56
Cooling (kW)	4	5	6.3	8	9.2	11.9	13.8	15.9	18	25.2	31.5	37.8	44.1	50.4	56.7	63
Heating (kW)																

TXV Kit	PATX35A0E				PATX50A0E	
	PATX13A0E		PATX20A0E		PATX25A0E	
HP	8 - 16		18 - 26		28 - 36	
Cooling (kW)	22.4 - 44.8		50.4 - 72.8		78.4 - 100.8	
Heating (kW)	25.2 - 50.4		56.7 - 81.9		88.2 - 112.1	

* 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
 Condensing temperature (tc) 46°C, Evaporating temperature (te) 6°C
 - 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
 Hot gas inlet temperature 70°C, Condensing temperature (tc) 46°C
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Difference Limit of Elevation (Outdoor - Indoor Unit) is zero

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

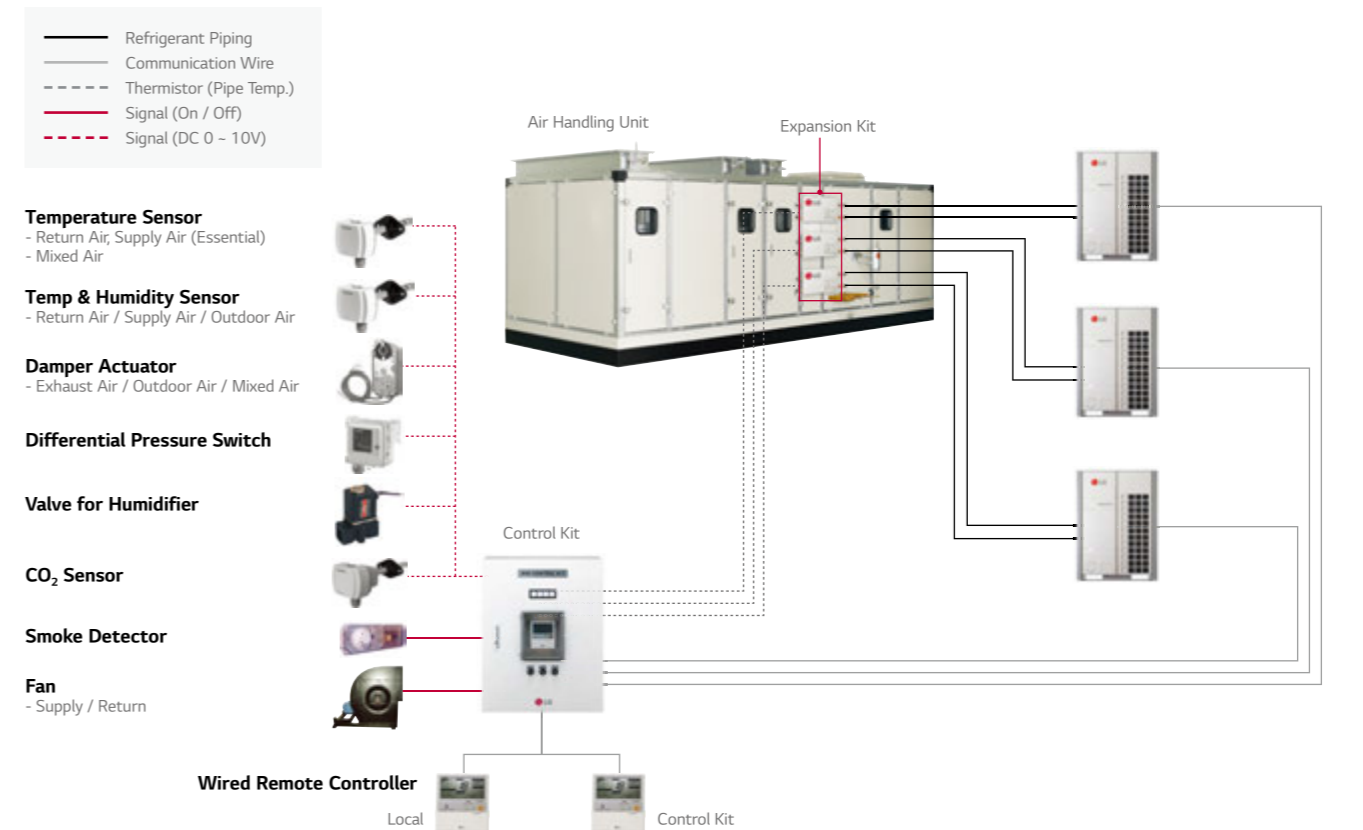
RA : Return Air, EA : Exhaust Air, OA : Outdoor Air, SA : Supply Air, MA : Mix air (RA + OA)

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 - Torque : 15 Nm, Operation time : 150sec. - 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

Note : Boundary of specification can be changed through LGAV software. However, please make a specification referring to the above table

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



HOTEL

Hotel Control Solution

Guest Rooms

- The air conditioner automatically turns off when guests leave
- Integrated control of air conditioner with the hotel room controller
- Control the air conditioner with an existing hotel thermostat
- Guest safety is the first priority

Reception

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

Public Areas

- Centralized management of the public areas

- Dry contact
- Dry contact
- Dry contact For thermostat
- Refrigerant Leak detector
- AC Smart 5 (Schedule)

Hotel Proposal / Design

Guest Room				Lobby
<p>The air conditioner automatically turns off when guests leave</p> <p>PDRYCB400 2 contact point</p> <p>Input</p> <ul style="list-style-type: none"> Operation On / Off <p>Output</p> <ul style="list-style-type: none"> Operation On / Off status Error alarm 	<p>Integrated control of air conditioner with the hotel room controller</p> <p>PDRYCB500 Modbus RTU(9,600bps)</p> <p>Function</p> <ul style="list-style-type: none"> Operation Indoor temperature Error alarm Set run mode Set temperature Set fan speed 	<p>Control with existing hotel thermostat</p> <p>PDRYCB300 8 contact point</p> <p>Input</p> <ul style="list-style-type: none"> 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>Guest safety is the first priority</p> <p>PRLDNVSO Refrigerant leakage detector • 6000ppm</p> <p>PREMTB100 Wired remote controller • 4.3 inch color LCD • Touch button</p>	<p>Air conditioner control in conjunction with check-in or check out</p> <p>PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)</p> <p>PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)</p>

SHOPPING MALL

Shopping Mall Control Solution

Retail

- Proportionally distribute and manage the power consumption by tenants
- Fast problem detection and alarms

Maintenance Office

- Reduces energy by checking operational trends

Atrium

- Integrated management of AHU applied to large spaces
- Chiller and VRF integrated control

- PDI
- Central controller (Operation trend)
- Central controller (Operation trend)
- Comm. Kit
- Central controller (Operation trend) + Chiller option kit

Shopping Mall Reference

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

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

Service Zone

- Energy savings based on flexible scheduling

Lobby

- Centralized management of AHU for large spaces

- Wired remote controller
- Central controller (Comfort level)
- Dry contact
- Central controller (Schedule)
- Comm. Kit

Hospital Proposal / Design

Hospital Ward			Service Zone	Lobby
Proper airflow management for patients	Monitor the comfort level for each hospital ward	External device interlock control	Energy savings based on flexible scheduling	Centralized management of AHU for large space
PTVSM AO Human detection sensor	PACS5A000 AC Smart 5	PDRYCB400 2 contact point	PACS5A000 AC Smart 5	PAHCMR000 AHU Comm. Kit
	• BMS Integration (BACnet IP, Modbus TCP)	Input	• BMS Integration (BACnet IP, Modbus TCP)	• Return air
		• Operation On / Off		
		Output		
PREMTB100 Wired remote controller	PACP5A000 ACP 5	• Operation On / Off status	PACP5A000 ACP 5	PAHCM S000 AHU Comm. Kit
• 4.3 inch color LCD	• BMS Integration (BACnet IP, Modbus TCP)	• Error alarm	• BMS Integration (BACnet IP, Modbus TCP)	• Discharge air
• Touch button				

EDUCATION

Education Control Solution

Class Room

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

Lecture Room

- Schedule management according to academic plan

Maintenance Office

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

- Wired remote controller
- Central controller (Lock)
- Central controller (Schedule)
- Central controller (Multiple management)
- Central controller (HTML5)

Education Proposal / Design

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

OFFICE

Office Control Solution

<p>Maintenance Office</p> <p>Energy savings and management throughout the building</p> <p>Central controller (Energy Nxt)</p>
<p>Integrated management of HVAC with BMS system</p> <p>Central controller (BMS Gateway)</p>
<p>Reduce costs by replacing BMS</p> <p>Central controller (Operation trend) + ACS IO Module</p>
<p>Office Room</p> <p>Reasonable power distribution to tenants</p> <p>PDI</p>
<p>Server Room</p> <p>Main equipment 24 hours back up management</p> <p>Central controller (Backup operation)</p>
<p>Meeting Room</p> <p>Energy savings based on occupancy detection</p> <p>Wired remote controller</p>

Office Proposal / Design

Maintenance Office	Office Room	Server Room	Meeting Room
<p>Energy savings and management throughout the building</p> <p>Target Forecasting</p> <p>BMS Protocol BMS System</p> <p>Pump Lighting Fan Sensor</p>	<p>Reasonable power distribution to tenants</p> <p>WHM (Watt-Hour Meter) Pulse signal</p> <p>Power 100 kWh PDI</p>	<p>Main equipment 24 hours back up management</p> <p>Error A B</p> <p>24</p>	<p>Energy savings based on occupancy detection</p> <p>Human detection sensor</p>
<p>PACS5A000 AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> <p>PACP5A000 ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PLNWKB000 LonWorks gateway</p> <p>PEXPMB000 ACS IO Module</p> <p>PPWRDB000 PDI Standard (2 port)</p> <p>• Max. 128 IDU</p> <p>PQNUD1S40 PDI Premium (8 port)</p> <p>• Max. 128 IDU</p>	<p>PACS5A000 AC Smart 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p> <p>PACP5A000 ACP 5</p> <p>• BMS Integration (BACnet IP, Modbus TCP)</p>	<p>PTVSM40 Human detection sensor</p> <p>PREMTB100 Wired remote controller</p> <p>• 4.3 inch color LCD • Touch button</p>

RESIDENTIAL

Residential Control Solution

<p>Home</p> <p>Control your home air conditioner anytime, anywhere</p> <p>Wi-Fi Modem</p>
<p>Living Room</p> <p>Build a smart house</p> <p>Modbus RTU</p>
<p>Bed Room</p> <p>Use a familiar residential thermostat</p> <p>Dry contact For thermostat</p>
<p>Simple interlocking control by remote control</p> <p>Wired remote controller</p>
<p>Apartment / Residence</p> <p>Stable system operation</p> <p>Independent power module</p>

Residential Proposal / Design

Home	Living Room	Bed Room	Apartment
<p>Control your home air conditioner anytime, anywhere</p> <p>Wi-Fi Modem</p>	<p>Build a Smart house</p> <p>Modbus RTU (9,600bps)</p>	<p>Use a familiar residential thermostat</p> <p>Simple interlocking control by remote control</p> <p>Lighting Fan Radiator</p>	<p>Stable system operation when indoor unit power is lost</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>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>PDRYCB300 8 contact point</p> <p>PREMTB100 Wired remote controller</p> <ul style="list-style-type: none"> • 4.3 inch color LCD • Touch button <p>Input</p> <ul style="list-style-type: none"> • 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>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.



Model Name & Applied Products

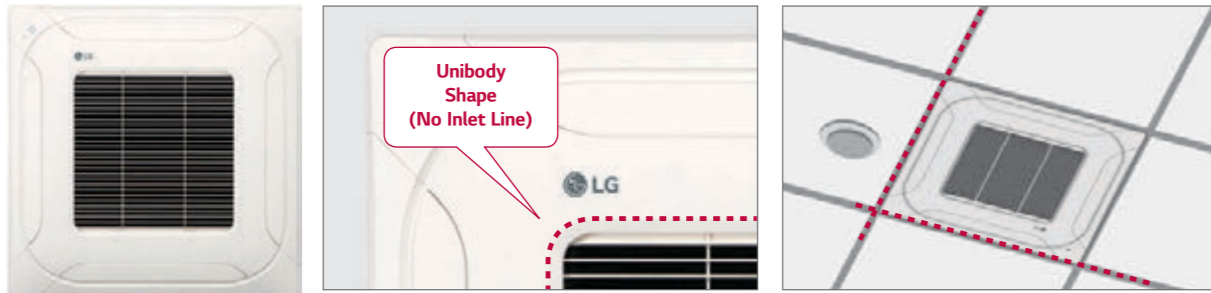
- 4 Way Cassette**
PT-MCHW0
PT-QCHW0
PT-UQC / PT-UMC1
- 2 Way Cassette**
PT-USC
- 1 Way Cassette (Grill Type)**
PT-UUC / PT-UUC1 / PT-UTC
- 1 way cassette (Panel Type)**
PT-UUD / PT-UTD

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



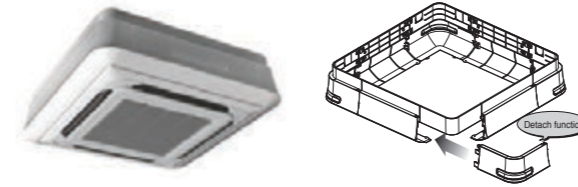
Specification

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		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-UMC1	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
1 Way	PT-UUC1	Grill	Noble White (RAL 9003)	-	4.4	1,100	34	500	-	-	2.6 - 3.5	2.6 - 3.5	-
	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

CASSETTE COVER

Cover in case of exposed cassette installation.



Model Name
PTDCM / PTDCQ

Applied Products

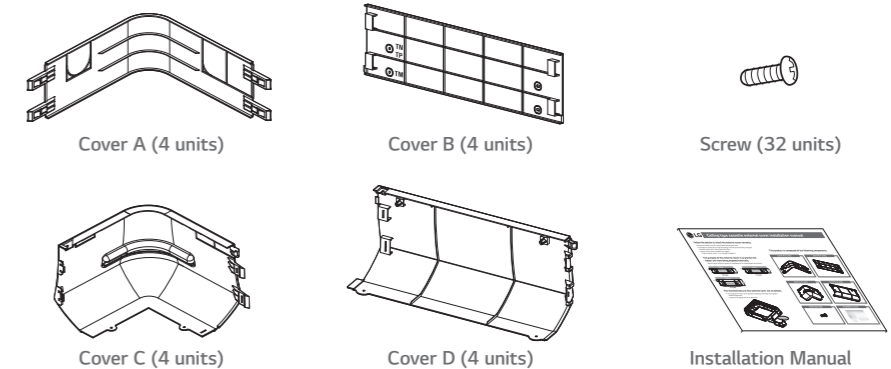
4 Way Cassette (for chassis TP, TN, TM, TQ, TR)

Key Features

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

Included Parts

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



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

CO₂ SENSOR

CO₂ sensor in ventilation system.



Model Name
AHCS100H0

Applied products

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

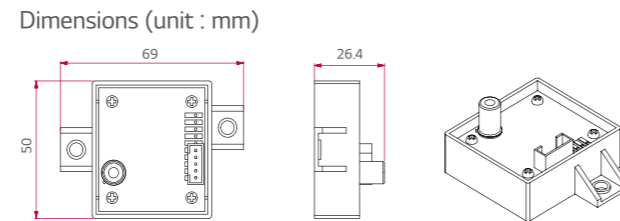
Applicable products

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

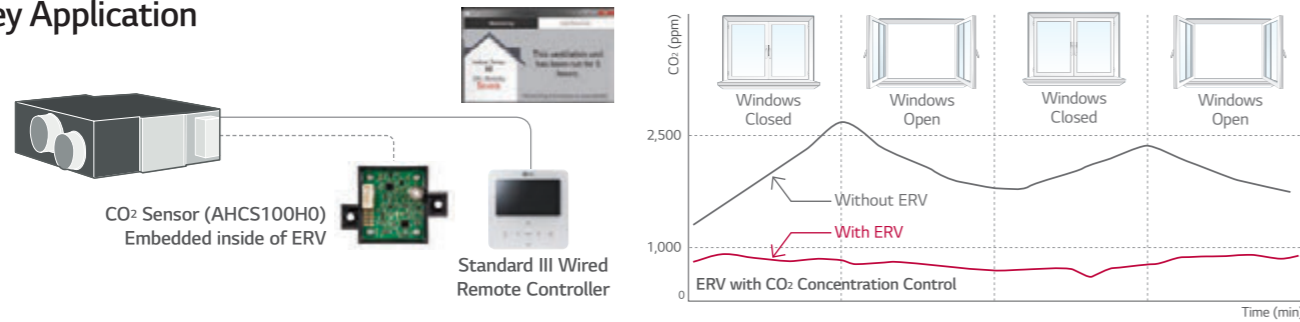
Key Features

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

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

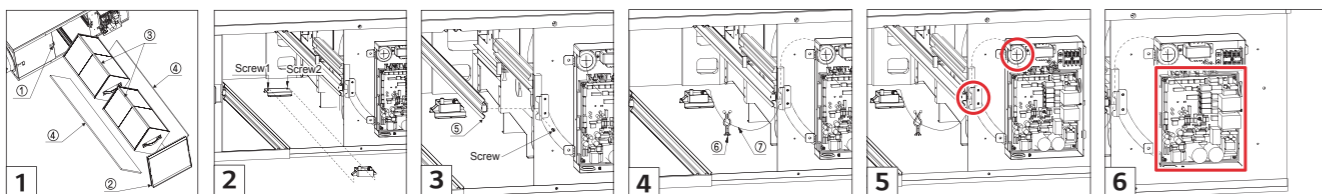


Key Application



How to Install

- 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).
 - Install the sensor with two screws.
 - Remove a screw, then remove the right side of element rail(5).
 - Press the holder(6) into the hole to fix the CO₂ sensor cable(7).
 - 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
PRLDNV50

Applied Products

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

Key Features

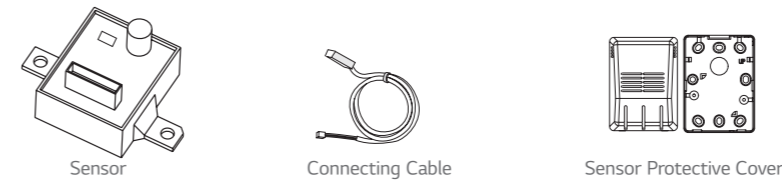
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is "on" when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is "off".
- When the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

Specification

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

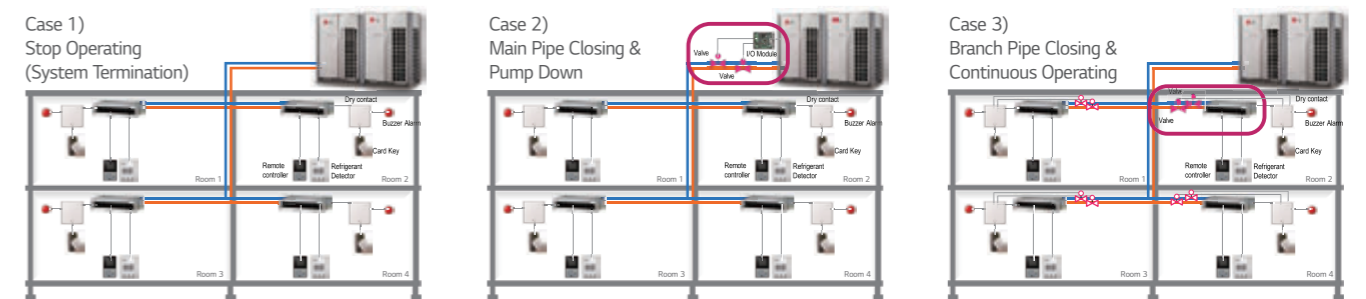
This function available for ARU****L**5 and 4(Multi V 5, Multi V IV H/P, H/R model)

Included Parts

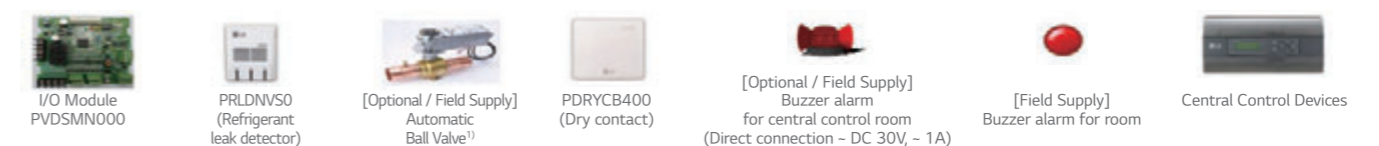


Key Application

Refrigerant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)



※ Necessary accessory

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

EEV KIT (FOR INDOOR UNIT)

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

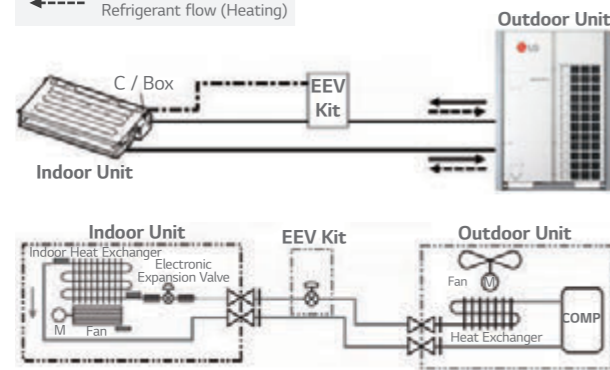


Key Features

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

Key Application

- Pipe
- Wire
- Refrigerant flow (Cooling)
- Refrigerant flow (Heating)



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

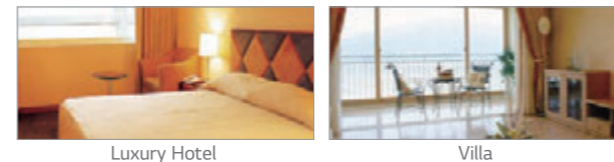
PRGK024A0

Applied Products

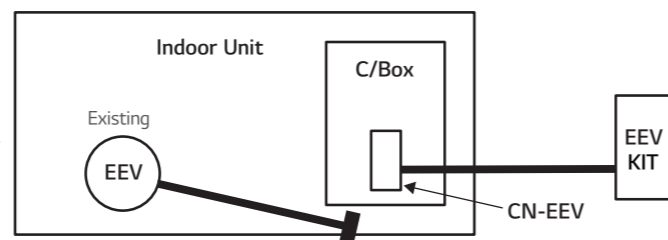
Indoor Unt	Model	Chassis	Applicable
Cassette	1 Way Cassette	TU	○
	2 Way Cassette	TT	N/A
		TS	○(-5.6kW)
		TR	○
	4 Way Cassette	TQ	○(-4.5kW)
		TP	N/A
TN		N/A	
TM		-	
BG		-	
Duct	High Sensible	BR	-
	High Static	B8	-
		B8	-
		B8	-
	Middle Static	M1	○(-5.6kW)
		M2	-
		M3	-
	Low Static	L1	○
		L2	-
L3		-	
Etc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

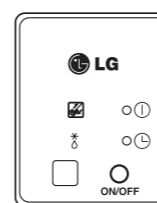
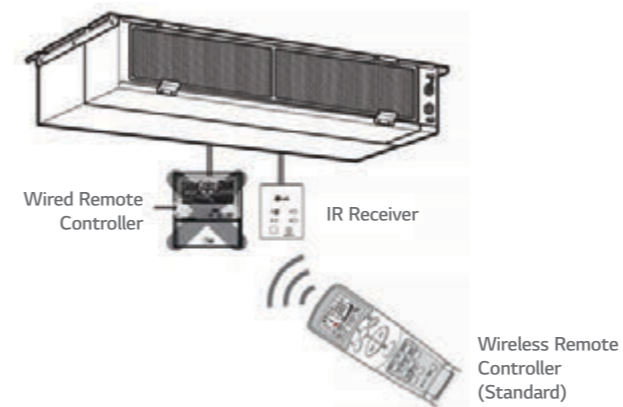
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Features

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

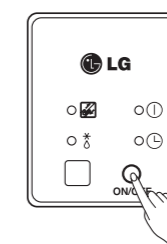
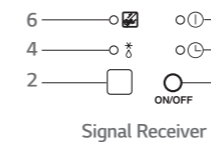
Key Application

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°C and the fan speed is high.

INDEPENDENT POWER MODULE

It closes EEV in indoor unit when power cut.



Model Name
PRIPO

Applied Products
MULTI V Indoor Units

Key Features

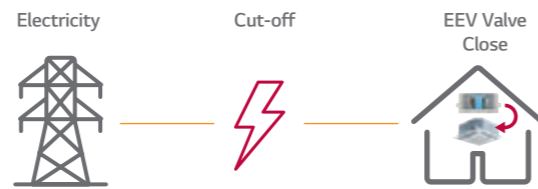
- Independent Power Module is specially designed to close the Indoor EEV when power cut-off.
- Supply Voltage : DC 12V ± 50%

Included Parts

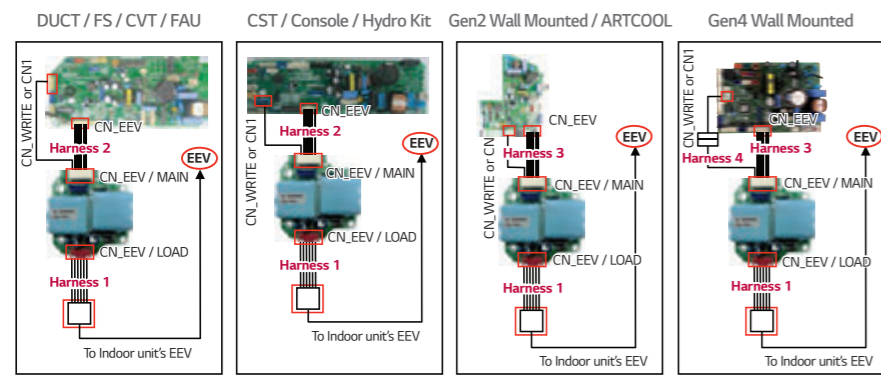
Model	PRIPO			(Others)
Item	Independent Power Kit	Screw	Clamp (Tie Wrap)	• Harness 1 (1m) • Harness 2 (1m) • Harness 3 (1m) • Installation Manual • Insulation (PE)
Q'ty	1	2	4	
Figure				

Key Application

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



How to Install



- ① Turn the power off using circuit breaker.
- ② Disconnect the EEV cable of the indoor unit's PCB (CN-EEV)
- ③ Connect the independent power module (CN-EEV / LOAD) to the indoor unit's EEV, using harness 1.
- ④ Connect the independent power module (CN-EEV / MAIN) to the indoor unit's PCB (CN-EEV / CN-WRITE), using harness 2 or 3.
- ⑤ Supply the power.

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

AUXILIARY HEATER RELAY KIT

Providing an efficient way to add auxiliary heat



Model Name
PRARS1

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

Model Name
PRARH1

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

Key Features

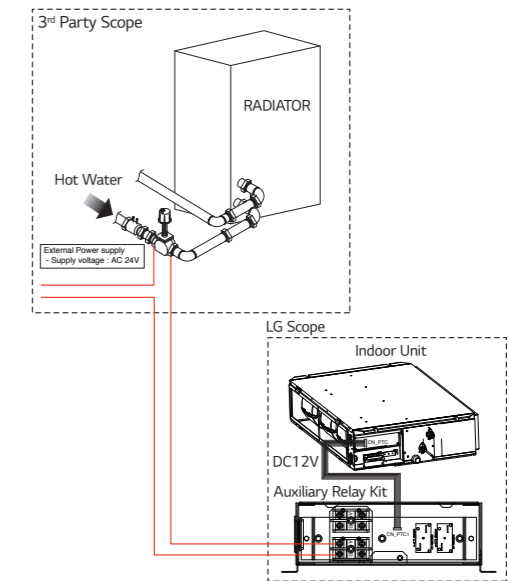
- Provides two stages of auxiliary heat for indoor unit
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source

Included Parts

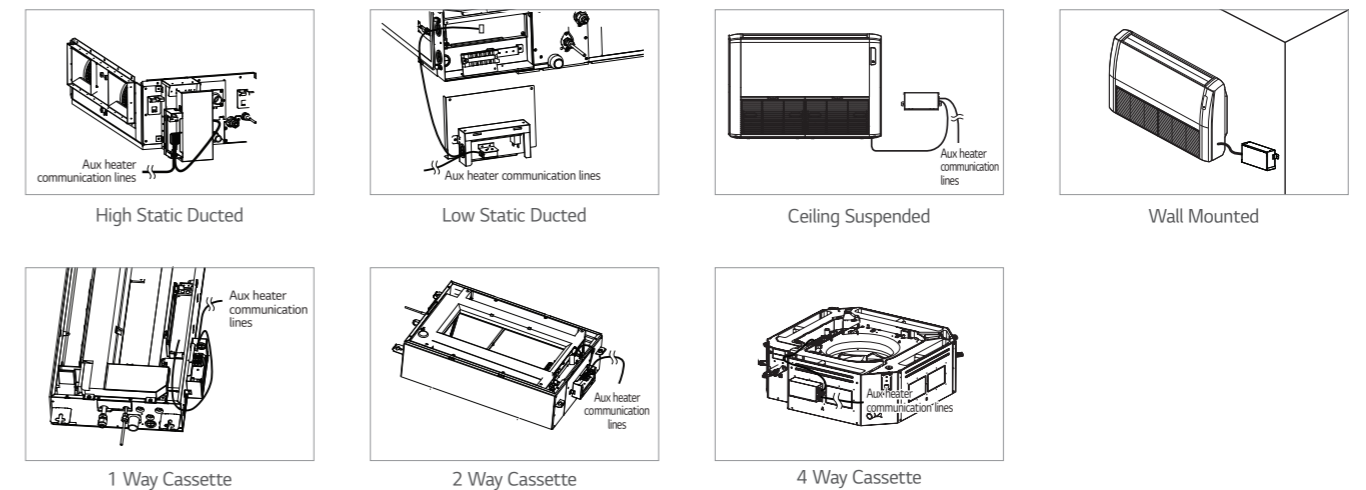
Model	PRARH1			
Item	Auxiliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1
Figure				

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

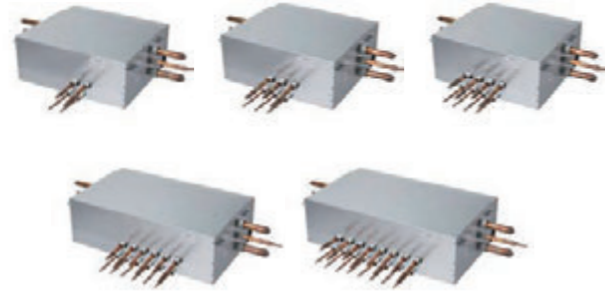
Key Application



How to Install



HEAT RECOVERY 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

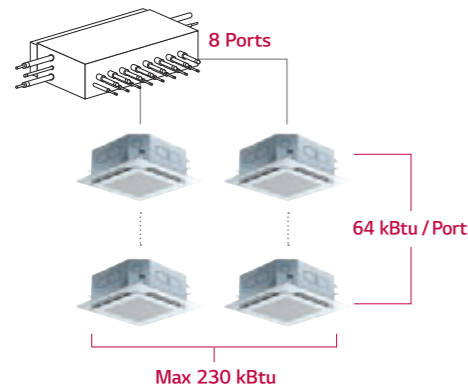
- MULTI V 5
- MULTI V IV
- MULTI V WATER IV

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)



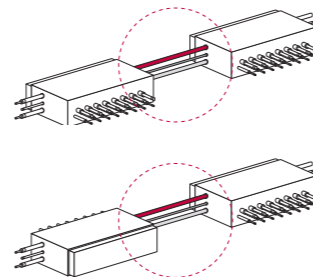
Flexible Connection

Series connection can be installed without pipes crossing.

New



Considering the direction for Indoor units and SVC port, connection for reverse direction makes much easier



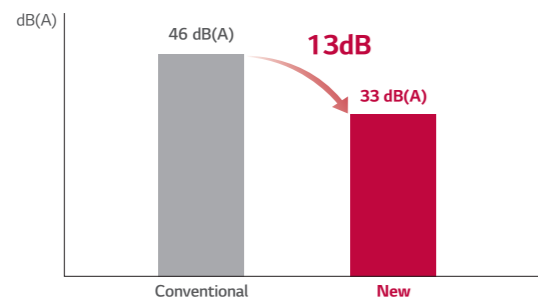
Included Parts

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

Specification

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	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	∅ / 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		




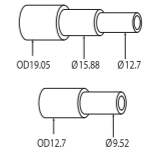
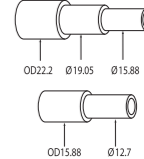
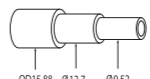
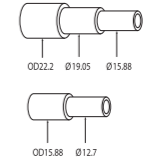
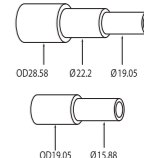
Reduce Noise



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

Reducers for Indoor Unit and HR Unit

(Unit : mm)

Model	Liquid	High Pressure	Low Pressure
Indoor Unit Reducer	 00952 0635		 001588 0127
PRHR023	 00952 0635	 001905 01588 0127 00127 0952	 00222 01905 01588 001588 0127
HR Unit Reducer	 001588 0127 0952	 00222 01905 01588 001588 0127	 002858 0222 01905 001905 01588

Y BRANCH AND HEADER BRANCH

For refrigerant distribution of indoor units.



Model Name

Refer to specifications

Applied Products

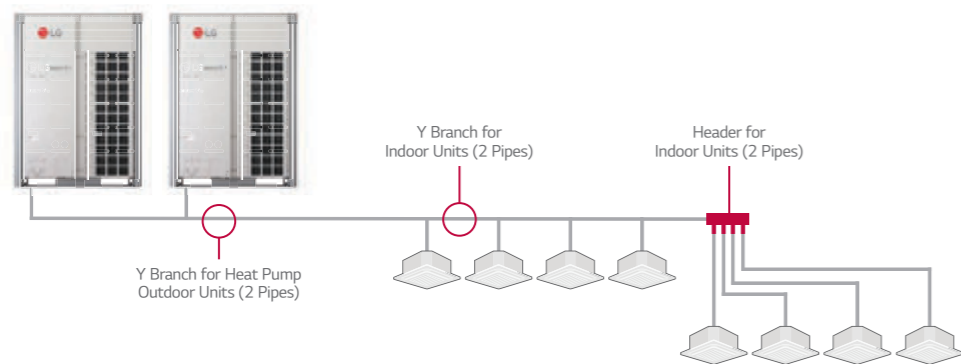
- MULTI V 5
- MULTI V IV
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER II
- MULTI V WATER S

Key Features

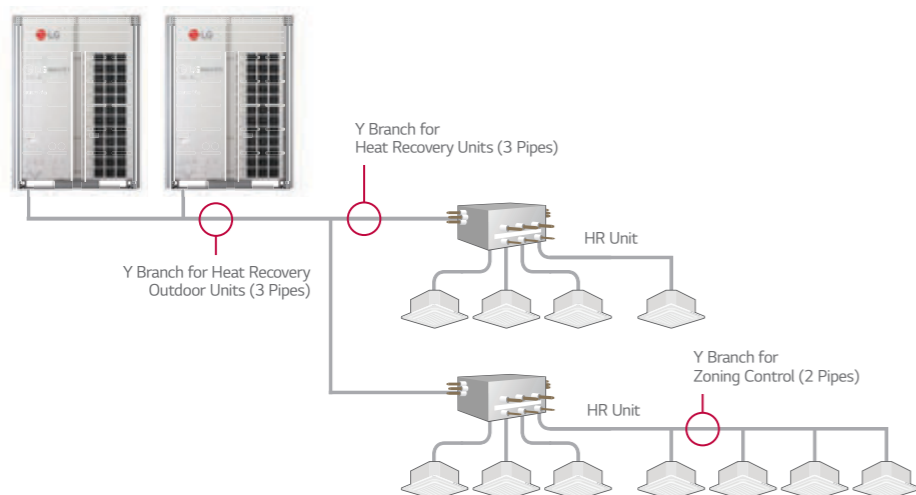
- Various Y Branch pipe of different capacities make Multi V installation much easier
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches

Key Application

Heat Pump System



Heat Recovery System



Specification

Header Branch

R410A

(Unit : mm)

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

PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

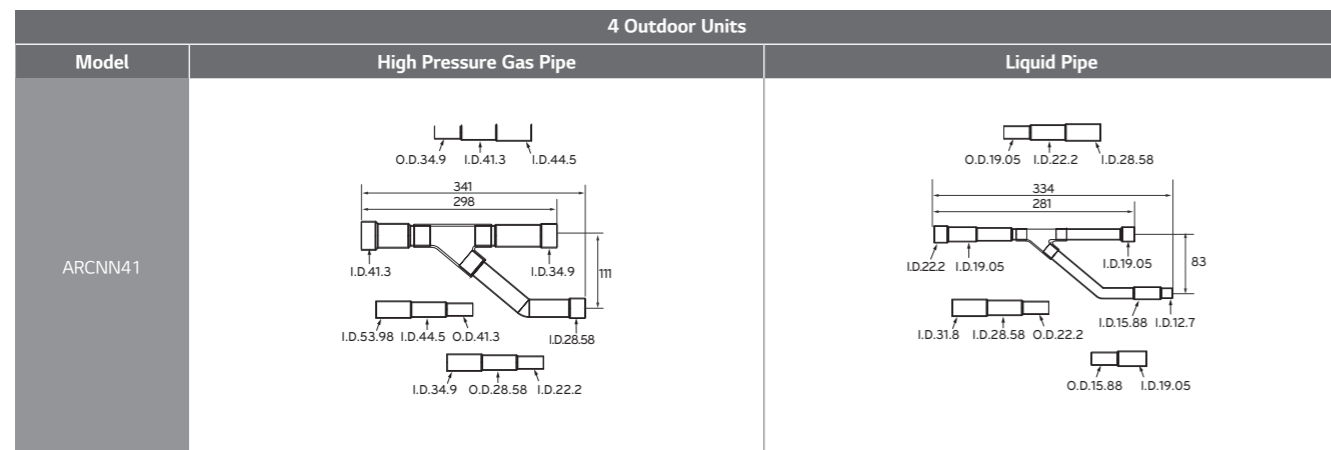
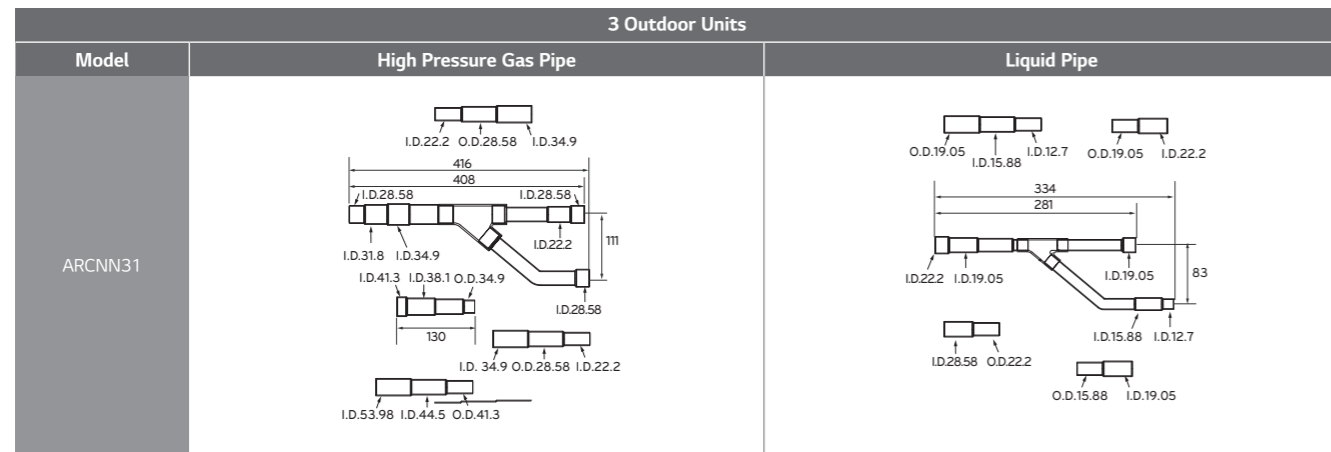
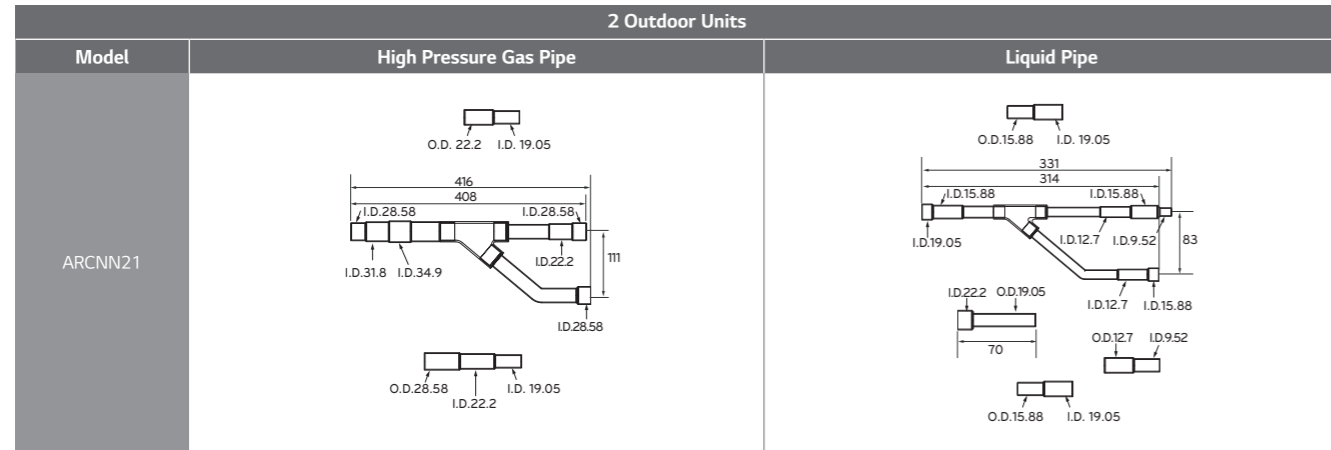
Specification

Heat Pump

R410A

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

(Unit : mm)



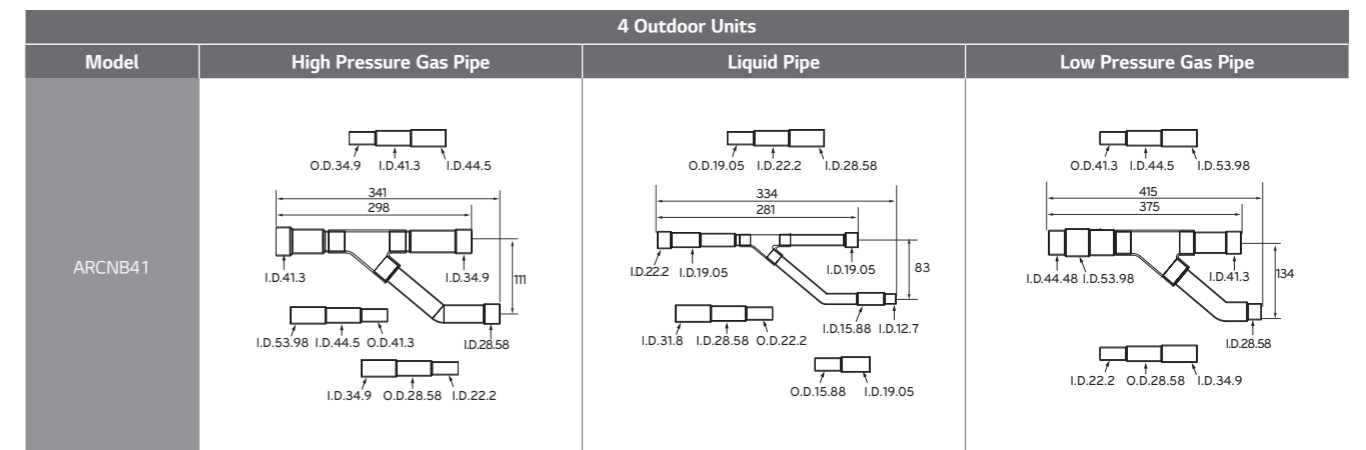
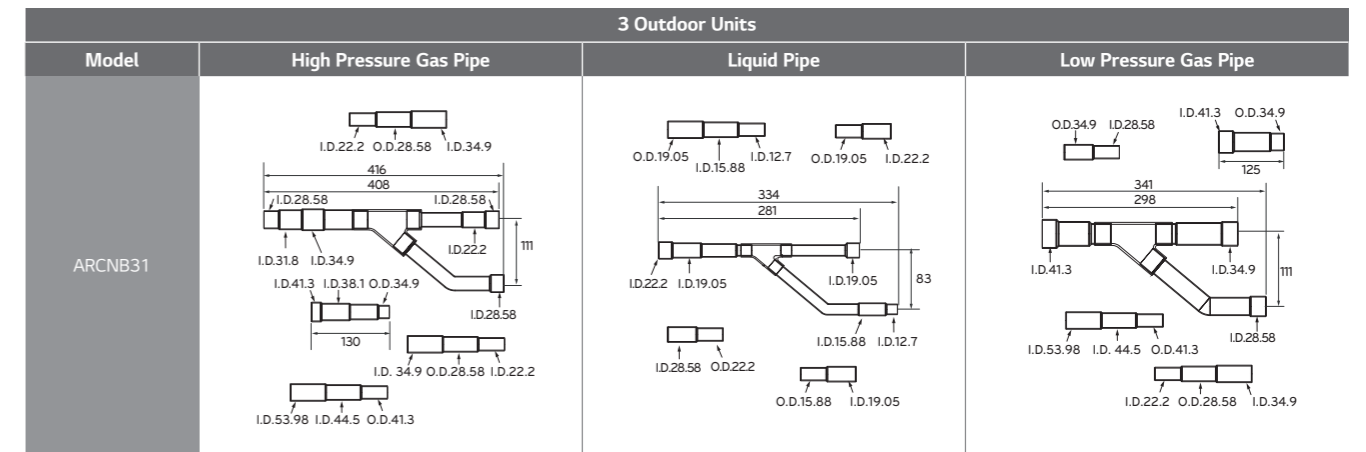
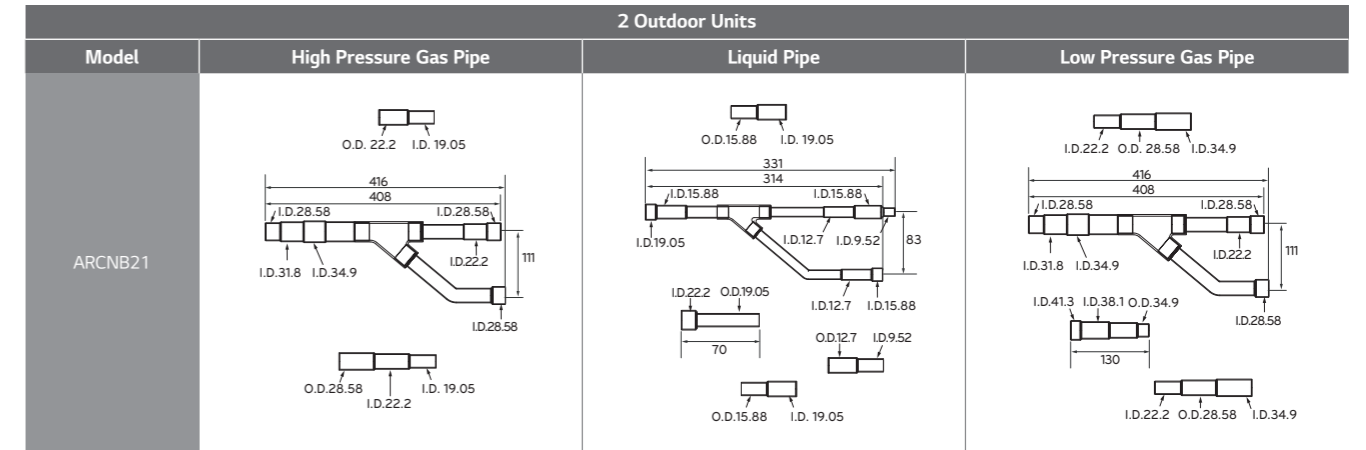
Specification

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)



PIPING ACCESSORIES

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump, Heat Recovery Zone Control

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

(Unit : mm)

Model	Gas Pipe	Liquid Pipe
ARBLN01621		
ARBLN03321		

Model	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		

Model	Gas Pipe	Liquid Pipe
ARBLN23220		

Specification

Heat Recovery

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

(Unit : mm)

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

Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB23220			

REFRIGERANT CHARGING KIT

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



Model Name

PRAC1

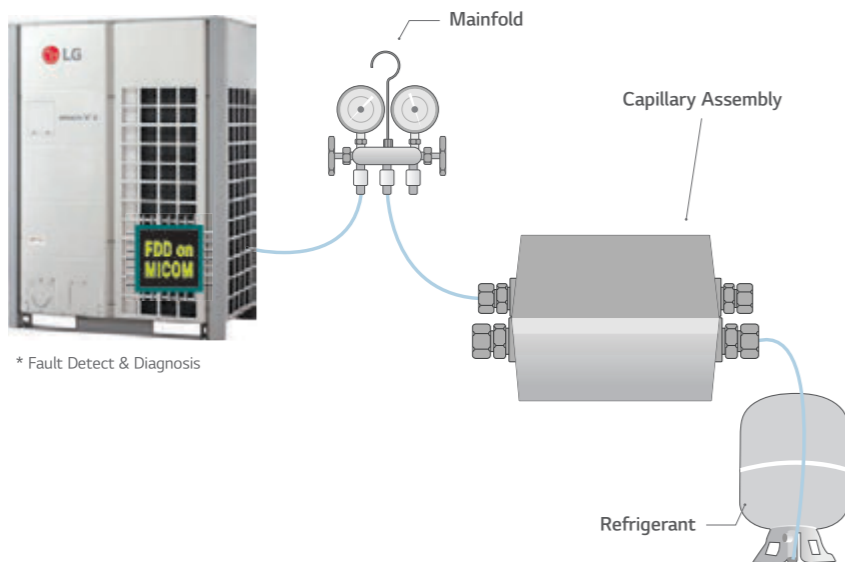
Applied Products

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

How to Use

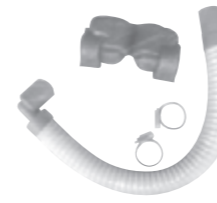
- Arrange manifold, capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor unit as shown in the figure
- Connect manifold and capillary tube. Use designated capillary assembly only. If designated capillary assembly isn't used, the system may get damaged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

Key Application



DRAIN HOSE

Easy drain installation



Model Name

PHDHA05T
 PHDHA07T
 PHDHA05B
 PHDHA07B

Applied Products

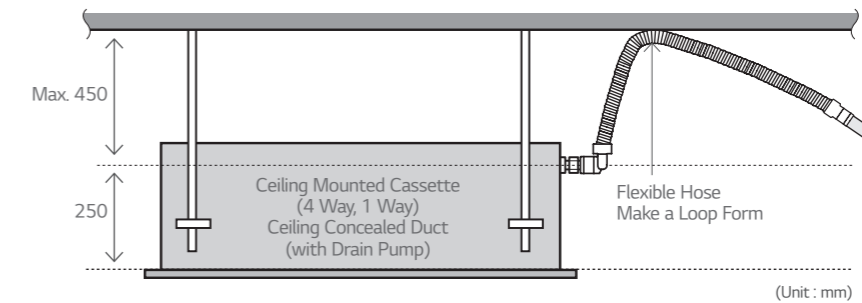
MULTI V Indoor units

Key Features

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

Key Application

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



Specification

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

STOPPER VALVES



Model Name

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

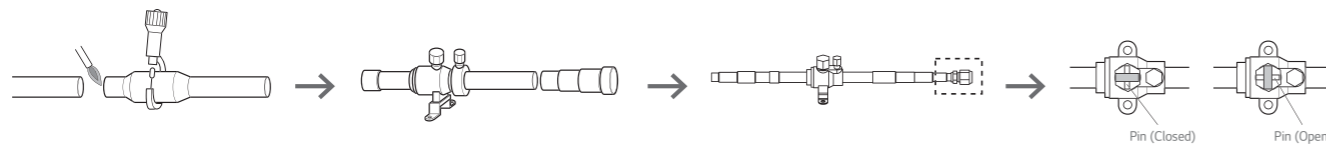
Key Features

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

Specification

Model	Specification
PRVT120	
PRVT780	
PRVT980	

How to Install

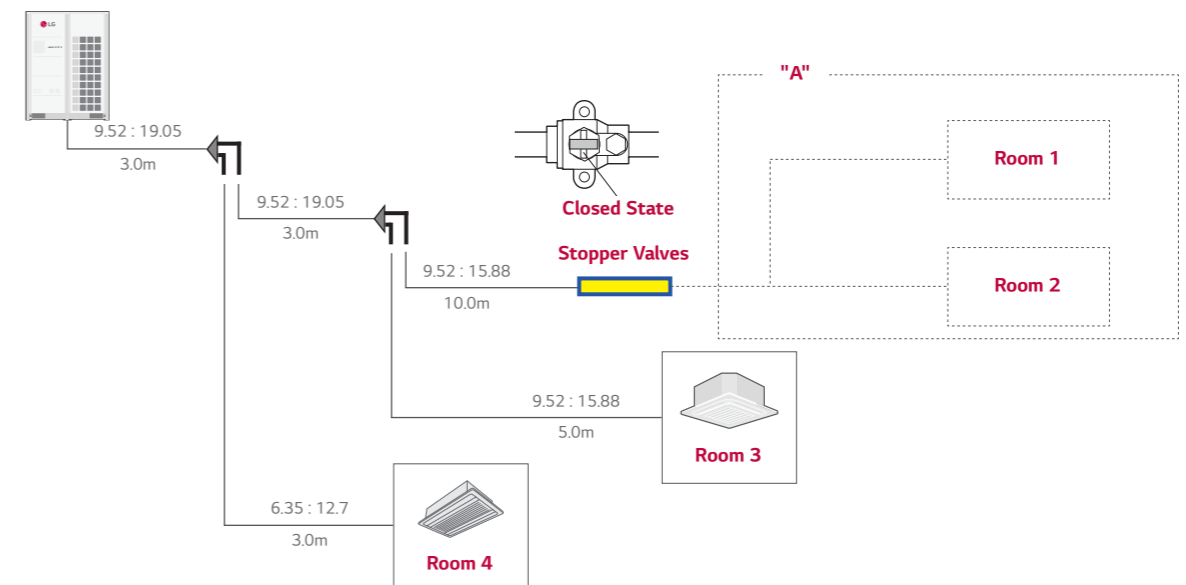


1. Cut the inlet side of the connector, and weld the pipe
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing an additional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

