LG
Life's Good

LG Electronics
http://www.lg.com
http://partnerclge.com

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2022 COMMERCIAL AIR SOLUTIONS

LG

Ahead of the Expected

For more LG commercial Air Solutions information, please visit our Youtube channel through QR code.

LG

2022
COMMERCIAL AIR SOLUTIONS

LG AIR SOLUTION

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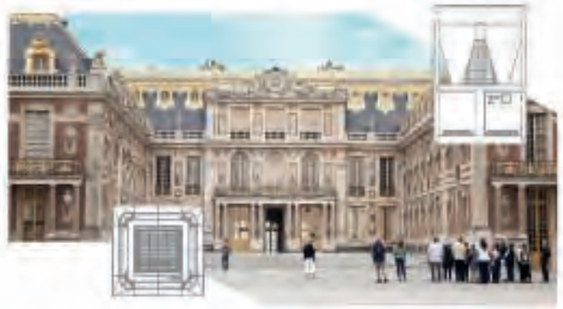


NEW INNOVATION FOR 2022

MULTI V™ News

ULTIMATE EFFICIENCY · R32 · AIR PURIFYING · MATCHING DESIGN

MULTI V™

Certification Program
PERFORMANCE AWARD

Multi V, Recognized for its technology and Innovativeness

LG Electronics won the Air-Conditioning, Heating and Refrigeration Institute (AHRI) Performance Award for three straight years (2017-2019)
*Passed AHRI performance evaluations for 73 models in 7 main product groups, including
*Integrated A/C *Large-capacity System A/C *Mid- to Small-capacity System A/C

Air Cleaning Function for the good air quality

LG System Air Conditioners provide air purification suited for the fine IAQ and even global brands like Starbucks choose it for their needs. 5-Steps Air Purifying Process Removes Invisibility

MULTI V™ S R32

LG

Eco-conscious refrigerant with the future in mind

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

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

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

New Innovation Novel Design

HIGHLIGHTS OF MULTI V

DUAL SENSING CONTROL

ULTIMATE EFFICIENCY

Ultimate Energy Saving with Dual Sensing Control.

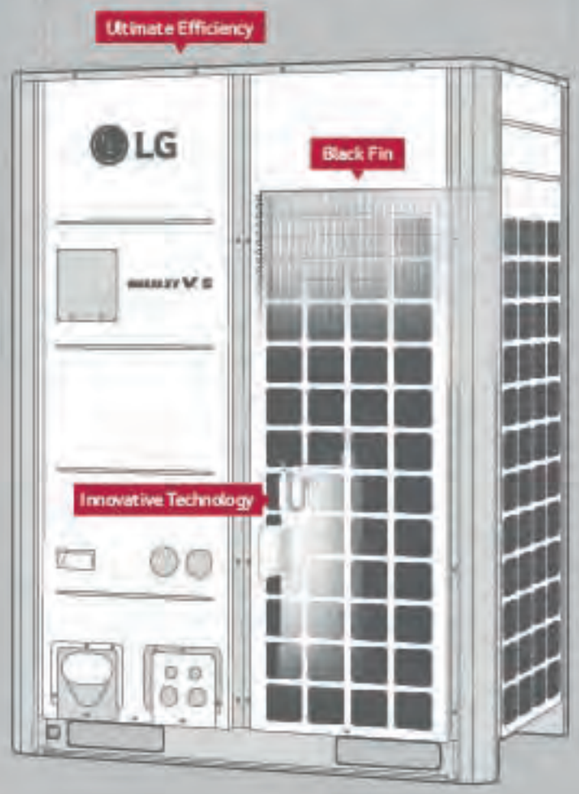
Humidity + Temperature

Black Fin

SUPERIOR DURABILITY

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

Verified Protection



ULTIMATE INVERTER COMPRESSOR

R1 Compressor™

INNOVATIVE TECHNOLOGIES

Ultimate Inverter Compressor
- MULTI V 5

Revolutionary Scroll R1 Compressor
- MULTI V 5 R32, MULTI V M

DESIGN FLEXIBILITY

Flexible Installation with Large Capacity Outdoor Unit.
MULTI V 5 enables easy type change-over to suit the purpose of any building. MULTI V 5 allows versatile design with flexible piping locations.

BRAND RELIABILITY

Global production sites facilitate world-class customer service.

R32

R32 APPLICATION

New line-up applying the industry-first mini VRF with R32 refrigerant to MULTI V 5.

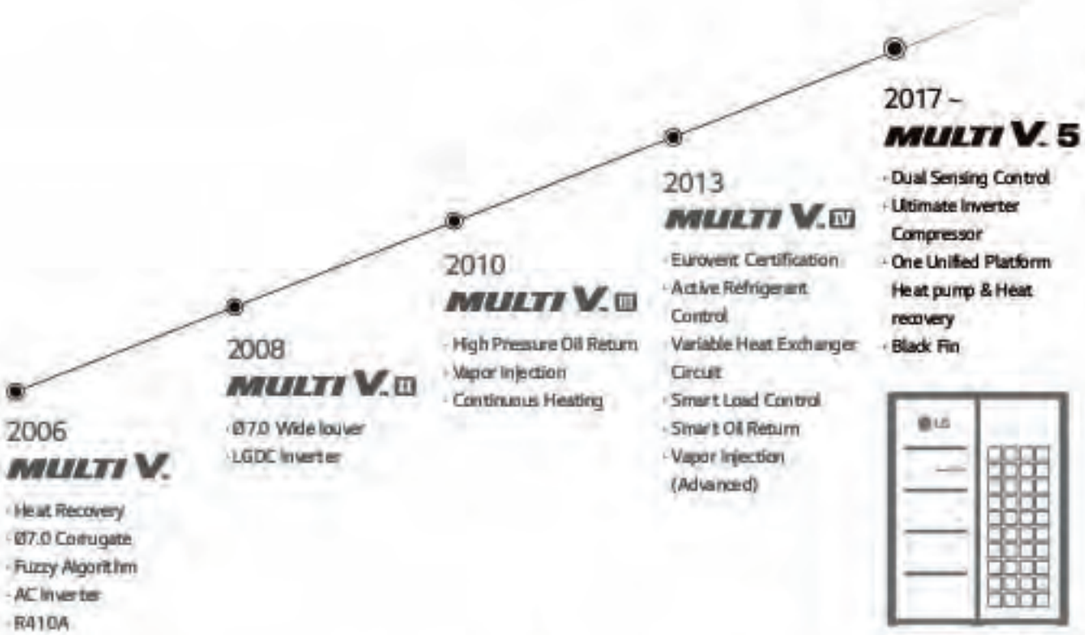
DIVERSE PRODUCT LINE UP

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

SMART CONTROLS

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

MULTI V BRAND HISTORY



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

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

MULTI Vs wide range of VRF solutions satisfies various building types and sizes. MULTI V 5's size discharge was designed for small to mid-sized buildings while MULTI V Water is a water-cooled VRF solution with variable water flow control technology.

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

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

INFRASTRUCTURE IN EUROPE

LG Air Conditioning Academy

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

European Air Conditioning Distribution Center

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

ENGINEERING TOOLS & SUPPORT

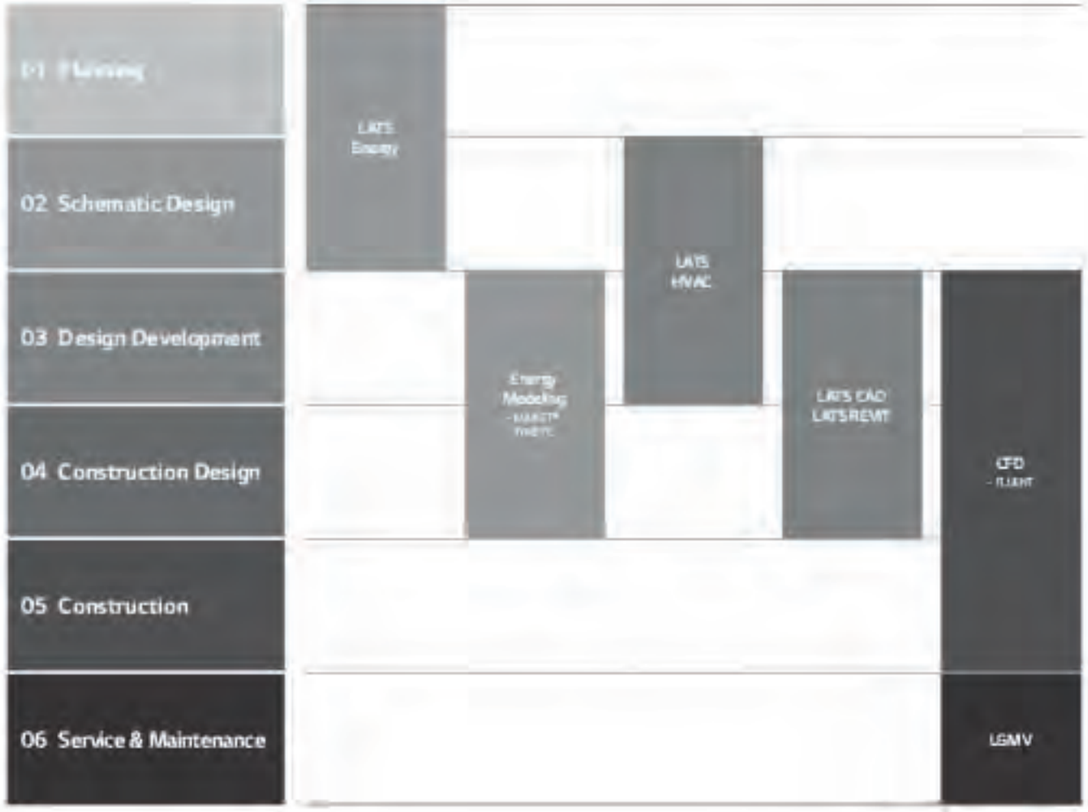
From planning to service & maintenance and then to de-construction, an architectural project goes through many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution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

*LATS : LG Airconditioner Technical Solution

I
Energy Estimation & Energy Modeling

II
Model Selection & Design

III
Installation Environment Simulation

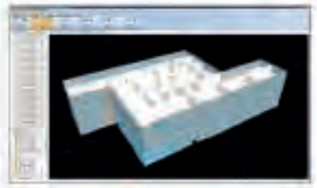


01 Draft Energy Estimation

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

02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More
These are certified commercial programs which assess the HVAC system efficiency and building's annual energy savings for building standards or certifications, like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design wherein the overall designing is finished.



03 Model Selection

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

04 Design

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

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

05 Environment Simulation

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

06 Service & Maintenance

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

BENEFITS OF LG MULTI V

Benefits for Building Owners

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

Reliability at Every Stage
- Ultimate Inverter Compressor developed and manufactured in Korea
- Corrosion resistant 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
- Optimized for LEED/BREEAM certification
- Renewable energy solution provided through geothermal application

Maximizing Space Utilization
- Large capacity in compact size enhances space utilization

Smart Building Solutions
- Seamless integration with current Building Management Systems
- Wi-Fi control available for anytime, anywhere access (via the 'ThinQ' mobile app)
- 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 Handing Unit interlocking solutions

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

Optimized Convenience with HVAC Design
- Flexible and longer piping length facilitates HVAC designing process
- Meets any type of customer requirements of diverse environment, design conditions, and building applications

Benefits for End-users

Cost Saving Operation
- High efficiency guaranteed throughout product line-up
- Up to 31% cost savings with MULTI V's Smart Load Control*

Comfort Cooling & Heating
- Smart Load Control maximizes indoor comfort level
- Dual Sensing Control offers pleasant and comfortable cooling and heating environment
- Duration time of Continuous Heating is 11% longer than previous model**

Convenient Functions
- Low-noise operation provides a pleasant environment

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

APPLICATION SOLUTIONS

Office

Supporting efficiency with flexibility

High Rise Office Building

Small to Medium sized Office Building

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

Commercial

Maximizing business, minimizing cost

Shopping Mall

Retail

Quick Service Restaurant (QSR)

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

* CST : Cassette ** PDI : Power Distribution Indicator

Residential

Creating a comfortable home

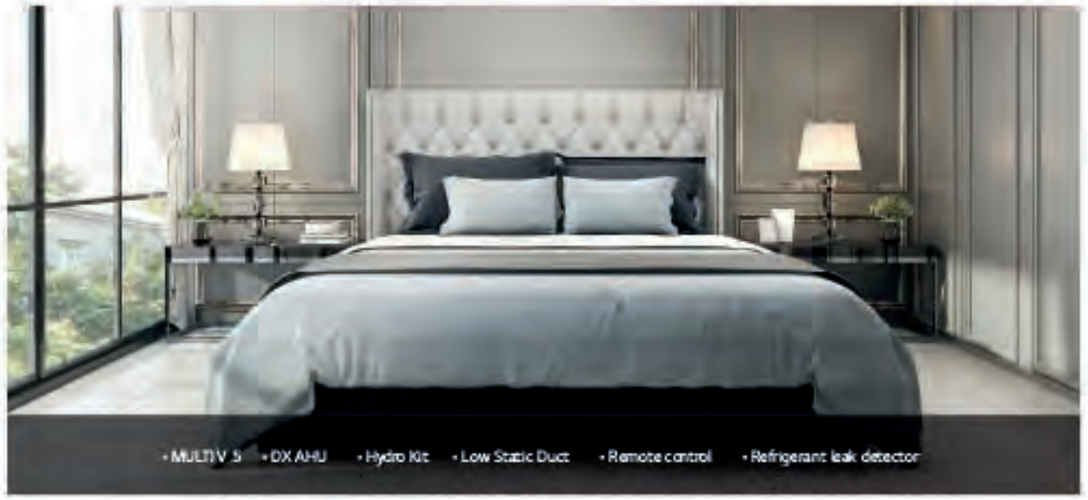
Condominium & Apartments

Single Family House & Villa

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

Hospitality

Meeting diverse needs

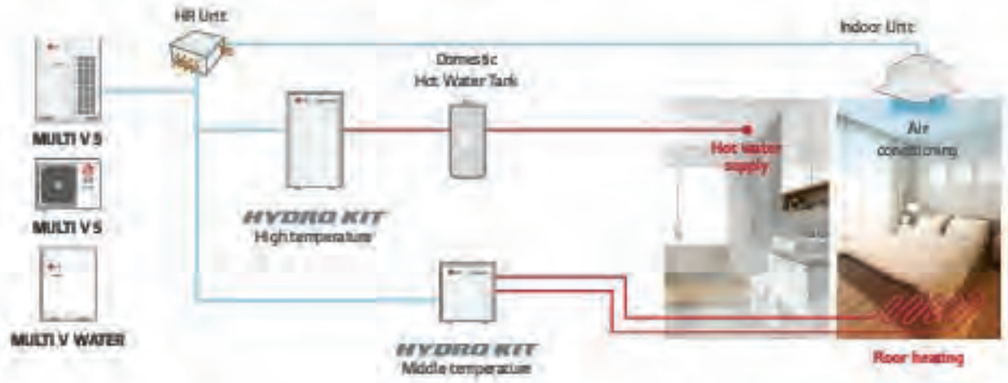


The diverse applications that Multi V S offers bring just the right solution to a sophisticated hotel business.

* ESS : Energy Storage System ** PV : Photovoltaic

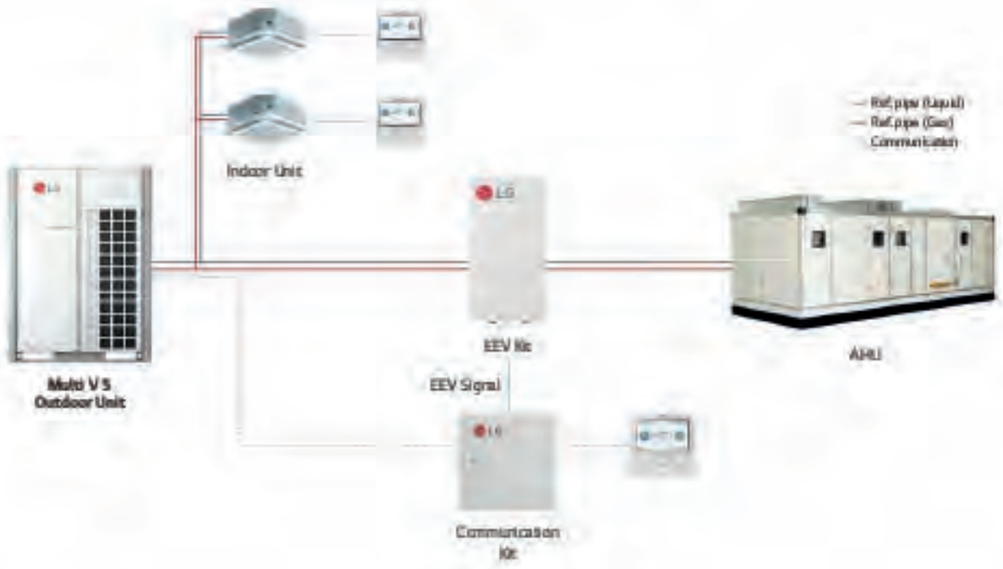
Hot Water Solution

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



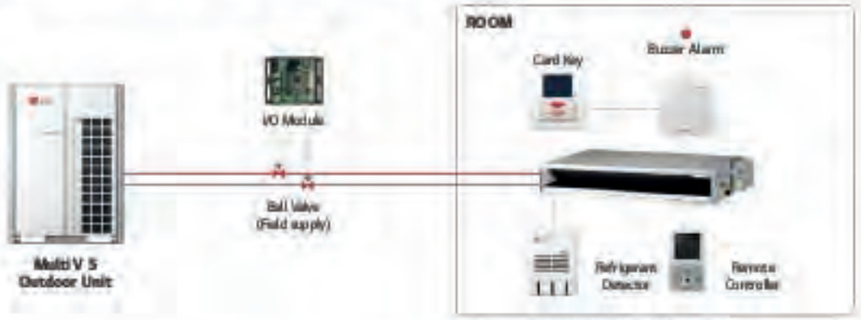
Air Handling Unit (AHU) Solution

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



Refrigerant Leak Detection Solution

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



Power Consumption Distribution Solution

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

Total Control via Any Device

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

Energy Management Solution

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

Integration Solution with BMS

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

BMS System

BACnet
Modbus
LonWorks

Small ~ Medium size building

IDU ~64 : Modbus RTU G/W

Medium ~ Large size building

IDU ~64 : ACP LonWorks

IDU ~128 : AC Smart 5 (BACnet IP/Modbus TCP)

IDU ~256 : ACP 5 (BACnet IP/Modbus TCP)

Interlocking Solution by Using ACU Module

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

Interlocking Solution Using Dry Contact

3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote control has a DO port. With this DO port, it is possible to interlock the indoor unit with 3rd party devices such as lighting, a fan, or a radiator, based on parameters like operation mode or current temperature.
The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor 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.

OUTDOOR UNITS
LINE-UP

MULTI V 5

8-12 HP
380V, 3Ø

14-20 HP
380V, 3Ø

22-40 HP
380V, 3Ø

42-60 HP
380V, 3Ø

62-80 HP
380V, 3Ø

MULTI V M

5 HP
220V, 1Ø
380V, 3Ø

MULTI V 5

4 HP
220V, 1Ø

5-6 HP
220V, 1Ø

4-8 HP
380V, 3Ø

10-12 HP
380V, 3Ø

6 HP
220V, 1Ø

Heat Recovery

4-6 HP
220V, 1Ø
380V, 3Ø

R32

MULTI V WATER IV

8-10, 14, 20 HP
380V, 3Ø

16-18, 22-24, 28-30, 34, 40 HP
380V, 3Ø

42-44, 48-50, 54, 60 HP
380V, 3Ø

62-64, 68-70, 74, 80 HP
380V, 3Ø

OUTDOOR UNITS LINE-UP

Unit: HP ● 380V, 3Ø □ 220V, 1Ø

Features	Appearance	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
MULTI V 5 • Dual Sensing Control • Large capacity ODU (Up to 20 HP) • Continuous Heating • Black Fin heat exchanger • Heat pump / heat recovery • Flexible installation (Heat recovery unit & large capacity) • Large space, individual control building Shopping mall, Education, Airport					●	●	●																																	
								●	●	●	●																														
												●	●	●	●	●	●	●	●	●	●																				
																						●	●	●	●	●	●	●	●	●	●										
																																●	●	●	●	●	●	●	●	●	●
MULTI V D • Space saving • Flexible design Slim, light, broad range (4 ~12 HP) Large number of connectable indoor units (Up to 20 Units) • Small, Medium building Apartment, House&villa		○																																					
		●	○ ●	○ ●	●	●	●																																
	HEAT RECOVERY			○																																			
		○ ●	○ ●	○ ●																																			
MULTI V M • High flexibility of installation • Various indoor unit combinations & long distance between modules • Retail shop Office, Cafe, Restaurant			●																																				
MULTI V WATER D HEAT PUMP / HEAT RECOVERY • High efficiency systems • Indoor installation • Low noise operation (No fan) • Simultaneous cooling & heating • Individual control building, Large building Hospital, Resort					●	●	●				●																													
									●	●		●	●			●	●			●		●	●		●	●		●			●										
																						●	●		●	●		●			●										
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kW		1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0	Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Triple Frozen (1 Step Detail (4 for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Reset Any Time)	Auto Restart Function (Disable / Enable)	Wi-Fi Ready
		5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k																
4ª generation Wall Mounted	Artcool Gallery		•	•	•													•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	Artcool Mirror	•	•	•	•	•	•		•									•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	Standard	•	•	•	•	•	•		•		•	•						•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
4ª generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570)	•	•	•	•	•	•	•										•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	4 Way Cassette (840 x 840)								•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	4 Way Cassette High Sensible (840 x 840)	•	•	•	•	•	•		•	•		•	•	•				•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	Round Ceiling Cassette								•			•		•				•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	2 Way Cassette			•	•		•		•									•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
	1 Way Cassette		•	•	•		•		•									•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
4ª generation Ceiling Concealed Duct	Mid / High Statics		•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Low Static (Slim)	•	•	•	•	•	•	•	•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	High Sensible		•	•	•	•	•		•	•		•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation Fresh Air Intake																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation Ceiling & Floor Convertible				•	•													•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation Ceiling Suspended							•		•			•		•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation Console			•	•	•	•												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation Floor Standing	Floor Standing with Case		•	•	•	•	•		•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Floor Standing without Case		•	•	•	•	•		•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4ª generation HYDRO KIT	Wall-Mounted	•	•	•																													
	Low Temperature												•				•	•			•	•	•	•	•	•		•		•		•	•
	High Temperature												•			•		•			•	•	•	•	•	•		•		•		•	•
4ª generation Energy Recovery Ventilator with DX Coil	with Humidifier					•			•		•										•	•	•		•	•				•	•	•	
	without Humidifier					•			•		•										•	•	•		•	•				•	•	•	

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

LG HVAC CONTROL LINE-UP

Individual Control

Wired Remote Controller

Standard

Standard III (White)

PREMTB100

Standard III (Black)

PREMTB010

Standard II (White)

PREMTB001

Standard II (Black)

PREMTB001

Premium

PREMTA000
PREMTA000A
PREMTA000B

Simple

PQRCVCL00QW

PQRCVCL00

PQRCHCA0QW
(Simple for Hotel)

PQRCHCA0Q
(Simple for Hotel)

Wireless Remote Controller

PWLSS823H (Heat Pump)
PWLSS821C (Cooling Only)

Wi-Fi Modem

For Indoor Unit
PWFMDD200

Centralized Control

Display

AC Ez

PQCSZ250S0
(Indoor Unit : ~32)

AC Ez Touch

PACEZA000
(Indoor Unit : ~64)

AC Smart 5

PACS5A000
(Indoor Unit : ~128)
BACnet IP / Modbus TCP

Platform

ACP 5

PACP5A000
(Indoor Unit : ~256)
BACnet IP / Modbus TCP

AC Manager 5

PACM5A000
(Indoor Unit : ~8,192)

Gateway

ACP LonWorks

PLNWB000
(Indoor Unit : ~64)

Modbus RTU gateway

PMBUSB00A
(Indoor Unit : ~64)

PI485

For Indoor Unit (ERV)
PHNFP14A0

For AHP
PHNFP14A0T

For Outdoor Unit
(SINGLE / MULTI / THERMAV)
PHNFP14A1

Centralized Control

Facility Integrator

PDI
(Power Distribution Indicator)

Premium (8 ports) PQNUD1540
Standard (2 ports) PPWRD8000

ACS IO Module
(Input / Output Module)

PSNPM8000

Chiller Option Kit

PCHLUA000

ACU IO Module

I/O

PSNPM300

I/O

PSNPM300

UI

PSNPM100

Indoor Unit

Dry Contact

Simple Dry Contact
PDRYCB000

Dry Contact for Thermostat
(For using universal input)
PDRYCB320

2 Poles Dry Contact (For Setback)
PDRYCB400

For Modbus
PDRYCB500

Control Accessory

Group Control Wire

PZCWRC03

Remote Temperature Sensor

PQRSTA0

Zone Controller

4 Zones by thermostat
AZ0CA

Multi-tenant Power Module

PMPM8001

Outdoor Unit

IO Module
(Input / Output Module)

For MULTI V IV, S
PVDSMN000

Variable Water Flow Control Kit

For MULTI V WATER IV
PWFCKN000

Low Ambient Kit

For MULTI V IV, S
PRVC2

Cool / Heat Selector

PRDSBM

AHU Kit

Communication Kit

Room / Room Air Control
PAHCMR000

Discharge / Supply Air Control

PAHCMS000

Controller Module

Main Module
PAHCMM000

Control Kit

PAHCNM000
(Max. 3 Outdoor Units)

Water Communication Module

PAHCMW000

EEV Kit (Electronic Expansion Valve)

PMV048A0 (~ 28 kW)
PMV096A0 (~ 56 kW)

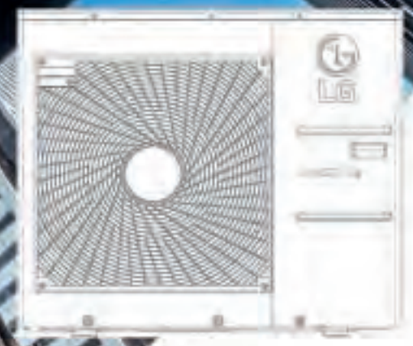
PMV395A0
(~ 113 kW)

PMV534A0
(~ 168kW)

023-117

OUTDOOR UNITS

MULTI V 5 / MULTI V S / MULTI V M /
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY)



MULTI V™ 5

Highlight

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

Energy savings	Reliability	Low noise	Advanced performance

How does it work?

Dual Sensing	Partial Defrost

Interchangeable between heat pump and heat recovery

Dual Sensing Smart Load Control (SLC)

Enhanced energy saving & increased indoor comfort

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

Smart Load Control monitors two inputs

1) Outdoor ambient dry bulb temperature 2) Relative humidity

What are the benefits?

Enhanced energy savings

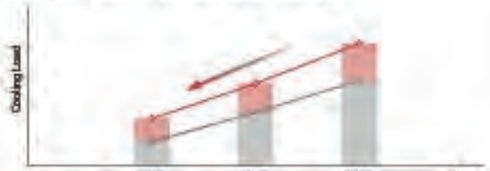
Cooling Mode
By raising the target low pressure during off-peak cooling operation.

Heating Mode
By lowering the target high pressure during off-peak heating operation.

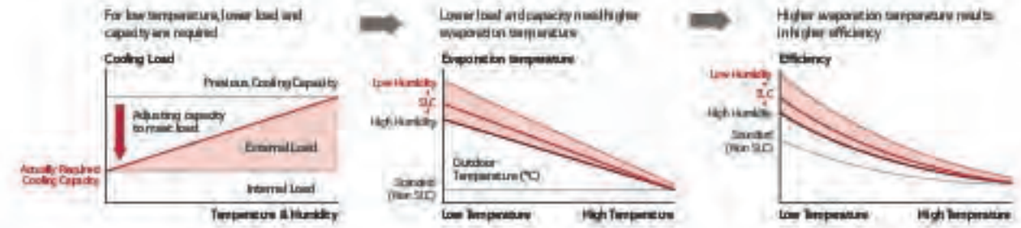
Increased indoor comfort

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

Cooling load according to temperature change



Cooling load according to humidity change

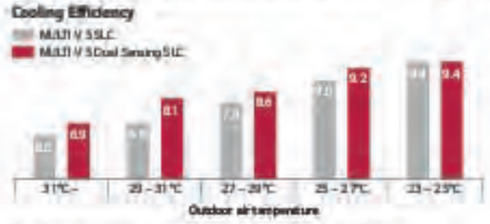


Energy Savings with Dual Sensing Control
Temperature & Humidity

Energy Consumption in Cooling Season

Dual sensing SLC control can save 6% more energy compared to SLC. So dual sensing control is more efficient than SLC.

Cooling Efficiency



※ The energy simulation was performed in LG internally based on 1 RHP model.

Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

OAT	MVR (Fixed)	MVS SLC	MVS Dual SLC
31 ~	17	15	13
29 ~ 31	91	73	62
27 ~ 29	183	136	114
25 ~ 27	243	170	165
23 ~ 25	155	110	109
Total	690 (137%)	503 (100%)	474 (94%)

6% more energy saving compared to SLC

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

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?

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

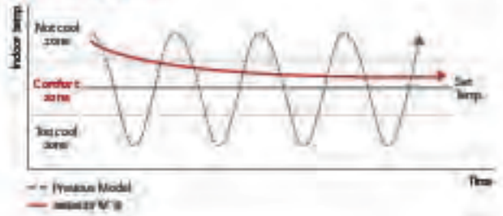
Raising superheat reduces refrigerant volume flowing through the coil.

Previous Model **MULTI V 5**

※ Indoor unit ea. LG available with Standard IR Remote Controller

Preventing cold draft & repeated turn On / Off

Improved Indoor Comfort



Intelligent Defrost

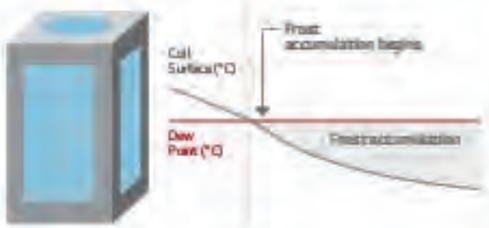
Increased heating run-hours

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

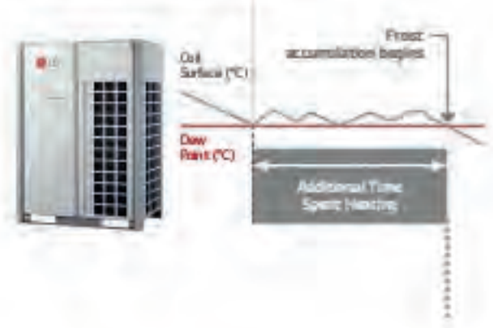
What are the benefits?

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.

Conventional Defrost



LG Intelligent Defrost / Smart Heating



※ Increased heating operation time per day : Up to 1 Hr
- LG Internal Test result
- Test condition (MULTI V 5 vs MULTI V I V 10HP)
- Outdoor : 3/1°C, Indoor : 20/1 5°C
- Humidity : 83 %, Dew Point : -0.3°C

Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

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 a parallel arrangement.

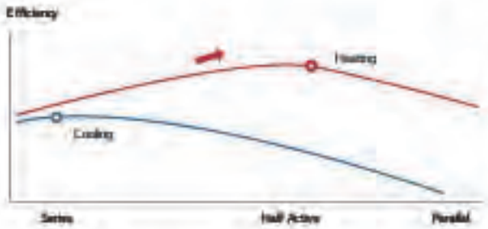
What are the benefits?

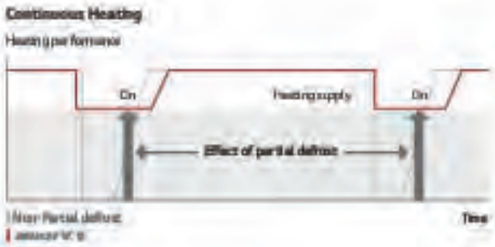
Optimizes system efficiency regardless of operating modes as ambient weather conditions change. Customizes the used area of the outdoor unit's heat exchange surface.

Low ambient cooling and / or light building load
- Half active
- Lower idle

Full load cooling
- Upper & lower active
- Series circuited
- High velocity refrigerant flow

Heating - all conditions
- Upper & Lower active
- Parallel circuited
- Low velocity refrigerant flow





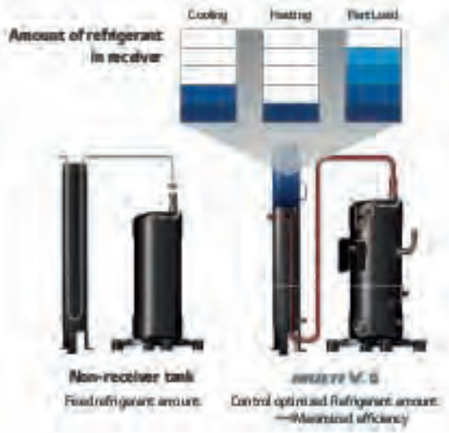
Active Refrigerant Control

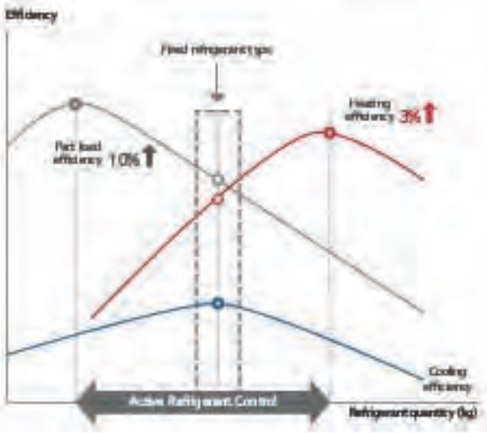
Stable operation & sustaining most efficient operation

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.

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.





HiPOR™

Advanced compressor reliability & efficiency

HiPOR™ is an LG trademark that stands for High Pressure Oil Return. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe.

What are the benefits?

Maximizes reliability and efficiency of the compressor.

- LG Internal Test result
- Test condition - 15Hz Rating Condition ; Tc : 37.9℃, Te : 7.2℃

Smart Oil Management

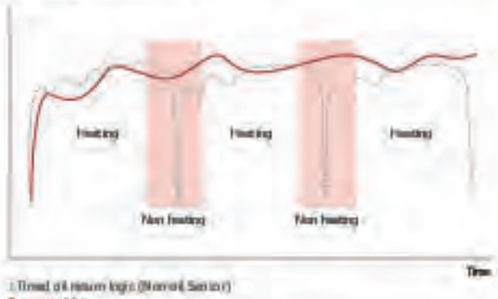
Energy saving, enhanced heating & increased compressor reliability

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. LG's unique oil level measuring sensor actively monitors the oil level in each compressor.

What are the benefits?

Energy savings : fewer oil return cycles eliminate unnecessary energy consumption. Increases system heating run-time during winter operation. Increases compressor reliability.

Heating performance



① Timed oil return logic (Normal Sensor)
② MULTI V 5

Increased heating operation time per day : Up to 12%

- LG Internal Test results
- Test condition
  - without oil level sensor : every 8 hour oil recovery operation
  - with oil level sensor : non oil recovery operation

Smart Oil Return

Auto Oil Balancing

Sub-cooling & Vapor Injection

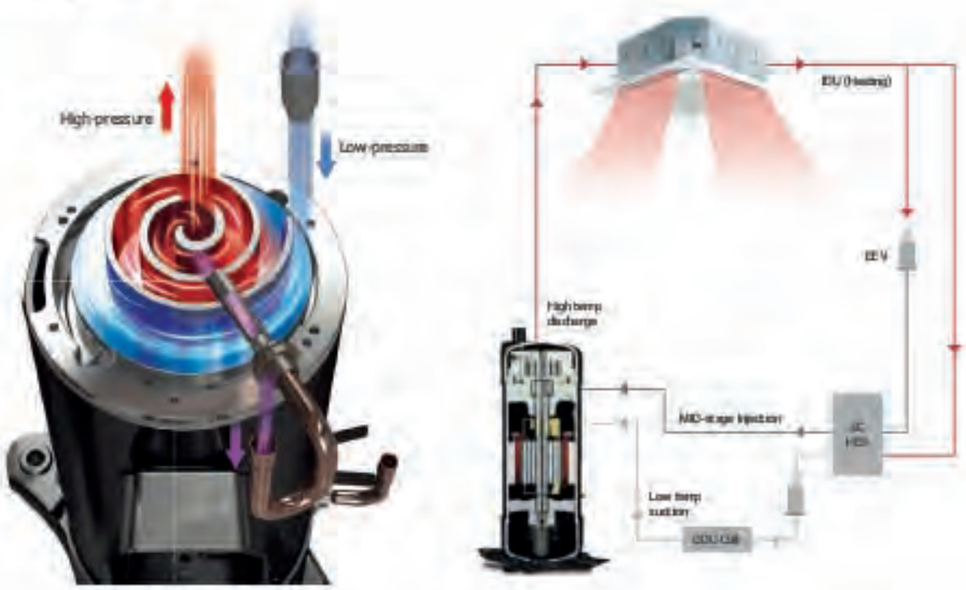
Increased heating performance

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. In all cases, the vapor injection increases the compressors cycle efficiency and reduces operating cost.

What are the benefits?

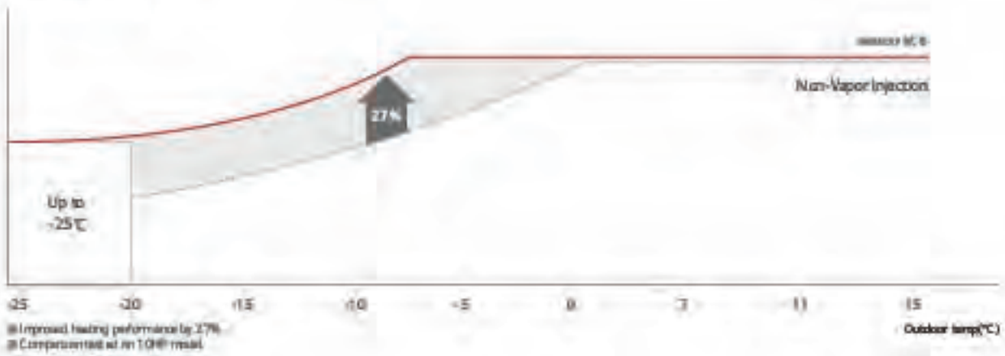
Provides stable refrigeration cycle operation over a wide range of outdoor ambient operating conditions. Increases compressor efficiency when compared to systems without vapor injection technology.

Technology Mechanism



Performance Comparison

Heating performance



※ Improved heating performance by 27%
※ Comparison based on 10HP model

Corrosion Resistance Black Fin

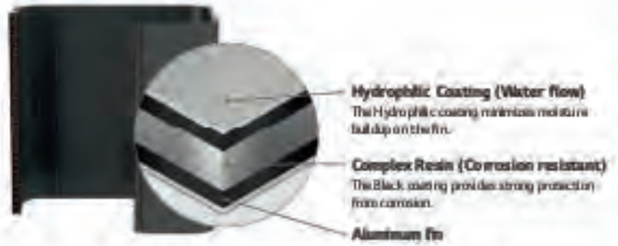
Improved durability

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

What are the benefits?

This improvement in durability prolongs the products lifespan and lowers both the operational and maintenance costs.

※ Verification of corrosion resistance performance
- Test Method B of ISO 21207
- ASTM B117 / ISO 9227 (1000 hours)



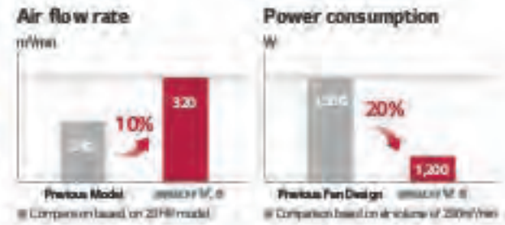
Biomimetic Fan

Maximized performance

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.



※ Comparison based on 20HP model
※ Comparison based on air volume of 280m³/min

One Unified Model

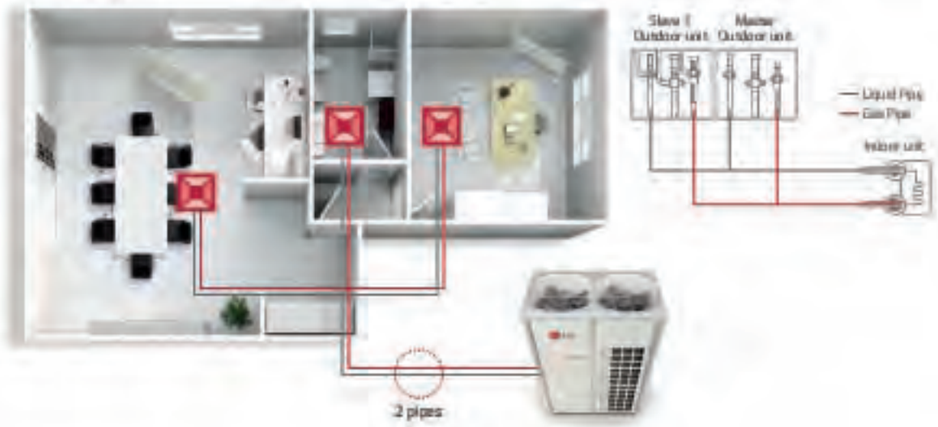
Heat pump / Heat recovery with one platform

LG MULTI V 5 satisfies users' various needs with just one platform.

What are the benefits?

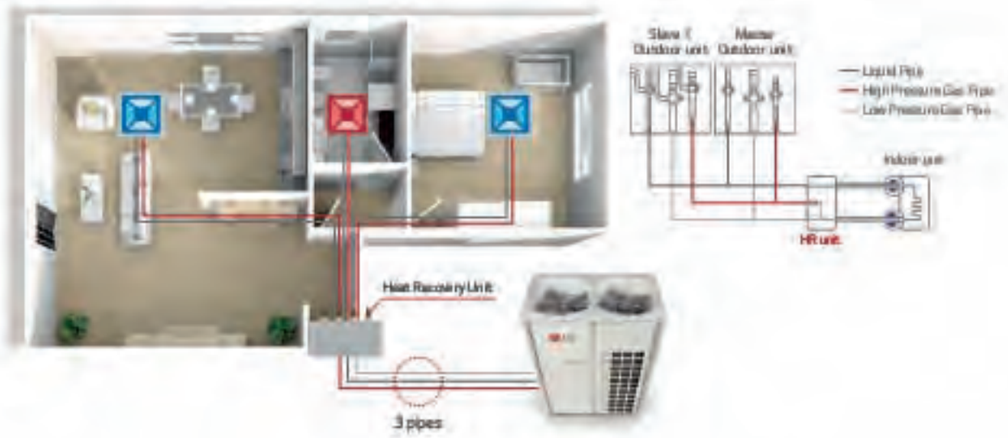
MULTI V 5 allows the building previously installed with Heat Pump system to switch to the Heat Recovery system (by adding HR boxes and a third pipe) for changing purpose of the building or remodeling reasons via simple piping construction.

Heat Pump System



Type Changeover

Heat Recovery System

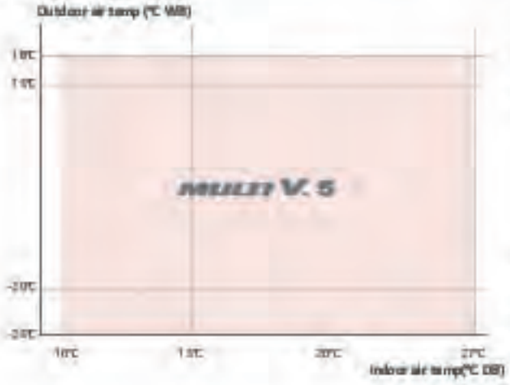


Wider Operation Range

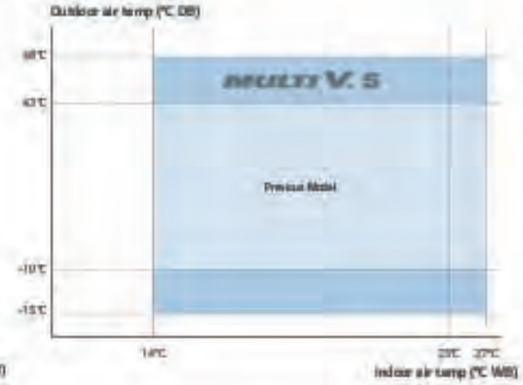
Able to operate at extreme conditions

With improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 offers an extended range of heating and cooling operations. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C.

Heating



Cooling

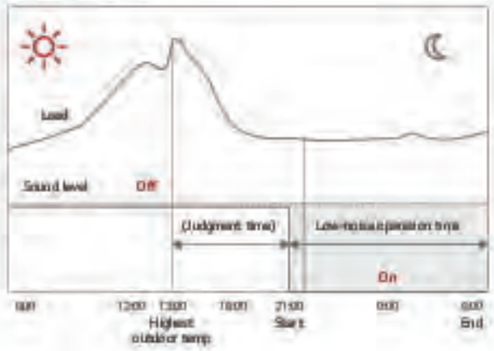


Low-Noise Operation

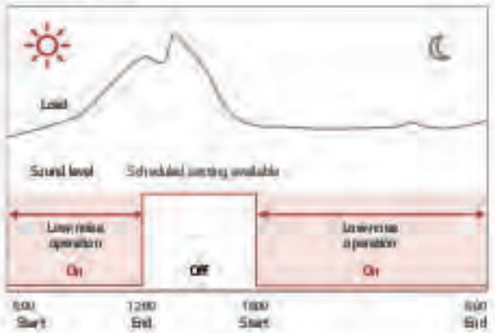
For noise sensitive environment

The Low-Noise Operation of MULTI V 5 can function regardless of the time at the noise sensitive areas.

Previous Model



MULTI V 5



Simple Test Run via LGMV

Increased overall efficiency in installation

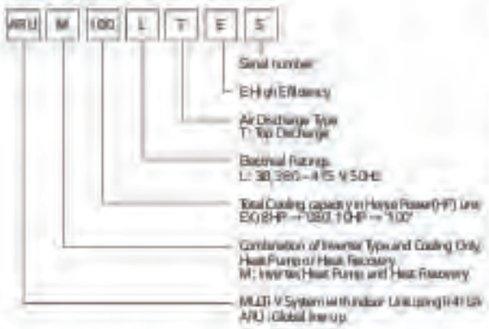
With Mobile LGMV of MULTI V 5, fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

Previous

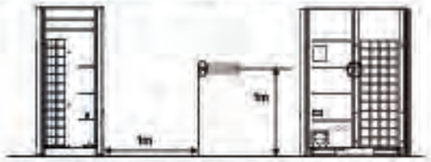
MULTI V 5

LGMV

Nomenclature



Position of Sound Pressure Level Measuring



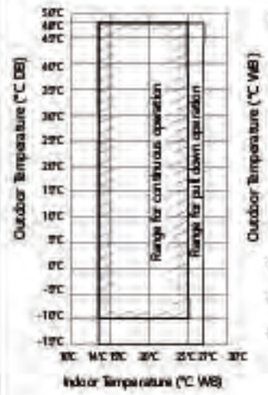
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (Acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure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

Outdoor Units Function

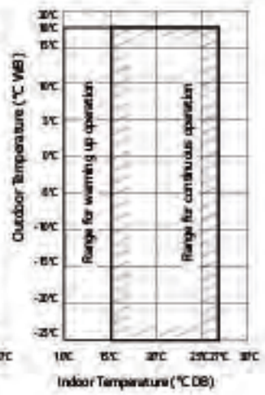
Category	Functions	MULTI V 5
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	○
	HiPOR™ (High Pressure Oil Return)	○
	Humidity Sensor	○
	Corrosion Resistance Black Fin	○
	Oil Sensor	○
Useful Function	Dual Sensing	○
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	○
	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	○
	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	○
Reliability	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	○
Central Controller	AC Ez (Simple Controller)	PQCSZ25050
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	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	PQNFB17C0
Installation	Refrigerant Charging Kit	PRAC1
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQWUD1S40
Cool / Heat Selector		PRDSBM
Low Ambient Kit		PRVC2
IO Module (ODU Dry Contact)		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTILD
	Mobile LGMV	PLGMVW100

Cooling / Heating Operation

Cooling



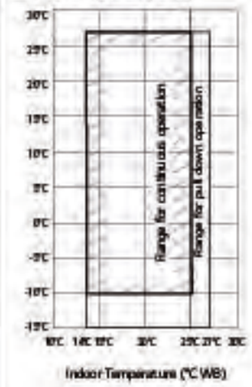
Heating



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

Simultaneous Cooling / Heating Operation

Cooling



Heating

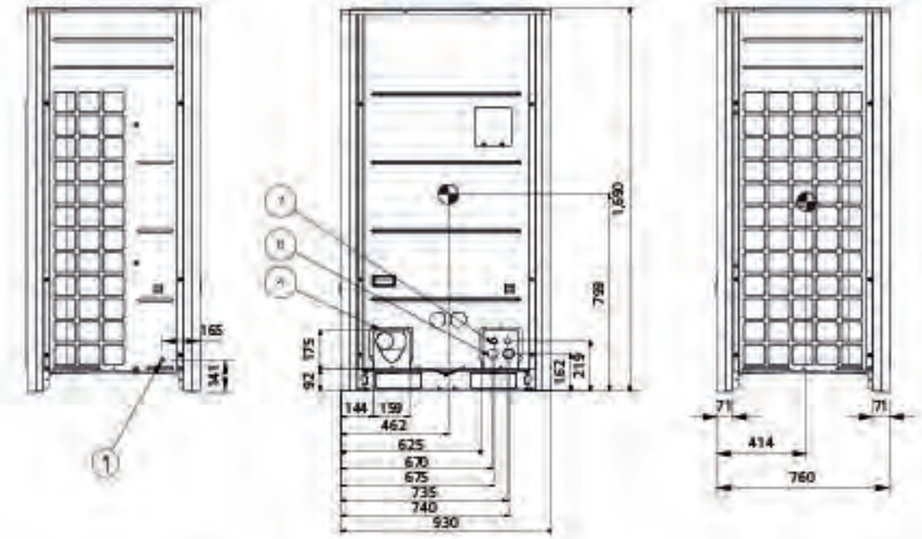
Note
1. These figures assume the following operating conditions :
Equivalent piping length : 7.5m
Level difference : 0m
2. Range of pull down operation :
If the relative humidity is less than, cooling capacity can be decreased by the automatic heat reduction.

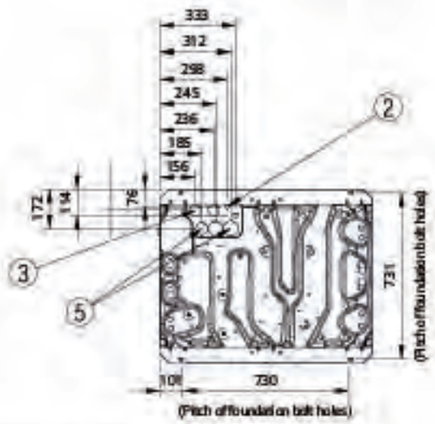
ARUM080LTE5 / ARUM100LTE5 / ARUM120LTE5

(Unit : mm)

No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Bottom)	2-Ø22.2
3	Power cord routing hole (Bottom)	2-Ø50
4	Pipe routing hole (Front)	-
5	Pipe routing hole (Bottom)	2-Ø65, Ø53.88
6	Power cord routing hole (Front)	2-Ø45
7	Wire routing hole (Front)	2-Ø50

3D View



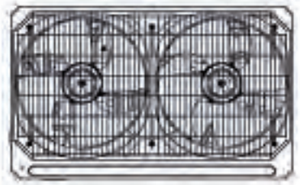


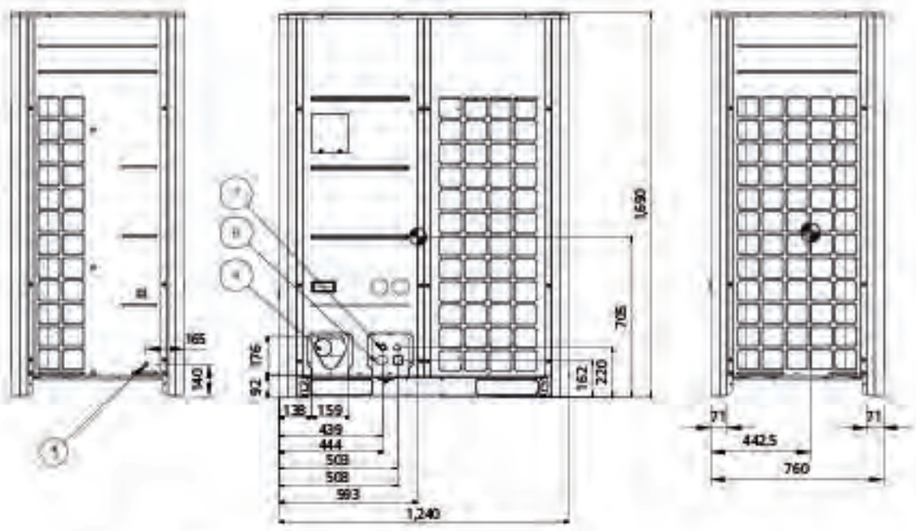
ARUM140LTE5 / ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5 /

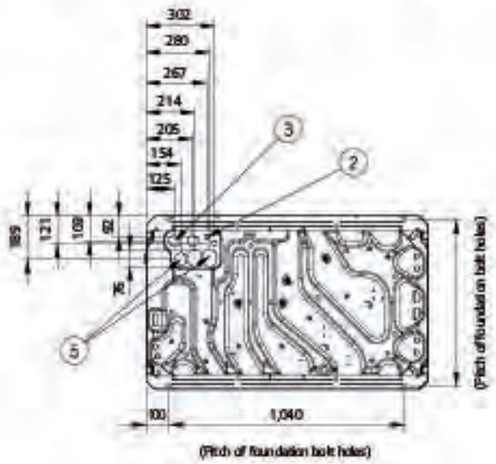
(Unit : mm)

No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Bottom)	2-Ø22.2
3	Power cord routing hole (Bottom)	2-Ø50
4	Pipe routing hole (Front)	-
5	Pipe routing hole (Bottom)	2-Ø65, Ø53.88
6	Power cord routing hole (Front)	2-Ø45
7	Wire routing hole (Front)	2-Ø50

3D View



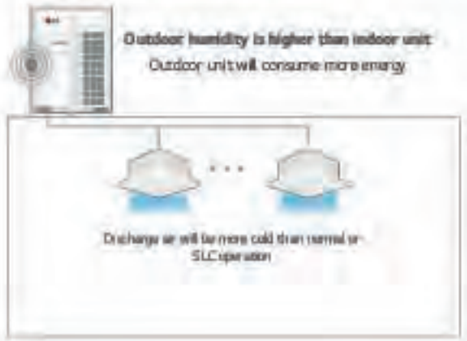


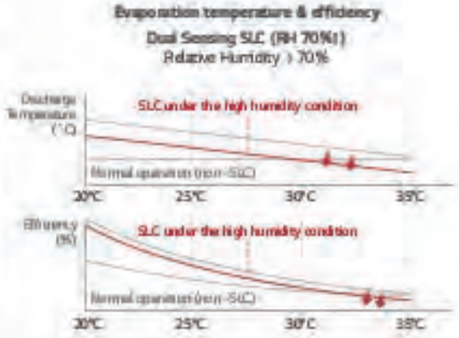


Q1 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?

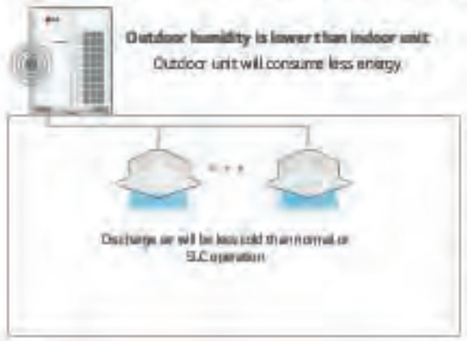
A1 During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode

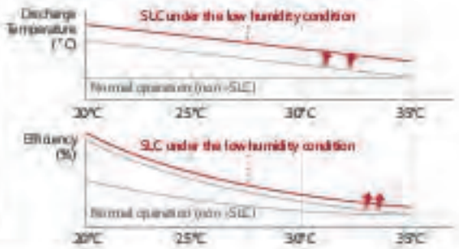
- When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but would have higher efficiency as compared to normal operation.



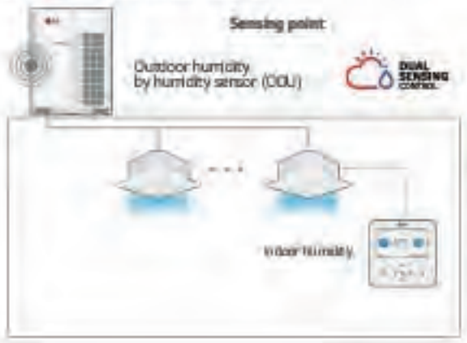


- When the humidity of outdoor side is lower than that of indoor side, outdoor unit will rise target pressure to save energy and keep comfort, but indoor humidity will be less removed compared to normal operation.





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



SLC Setting

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

Setting summary
DIP-SW01 ➔5 On
Func : Fn14 >
Dft, bot ➔ op 3

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

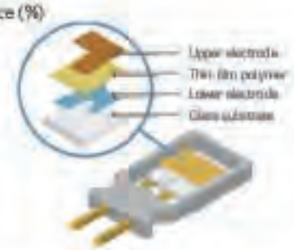
Setting summary
Function >
Smart Load Control >
Dft, opt 1 ➔ opt 3

※ User can turn off humidity control in ODU Setting (humidity reference)
<Setting summary> ODU DIP-SW01 ➔ 5 On > Func > Fn 16 > Dft

Q2 What is the principle and accuracy of humidity sensor?

A2 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.

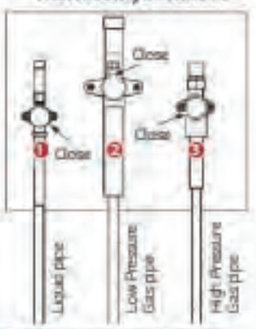


Model	Humidity Sensor of Outdoor	Humidity Sensor of R/Controller
Size (mm)	3 x 3 x 1.1	2.5 x 2.5 x 0.9
Supply voltage range	2.1 to 3.6 V	2.4 to 5.5 V
RH operating range	0 – 100% RH	0 – 100% RH
T operating range	-40 to +125°C (-40 to +257°F)	-40 to +125°C (-40 to +257°F)
RH response time	8 sec (tau 63%)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

Q3 What is difference in refrigerant piping connection between heat pump and heat recovery?

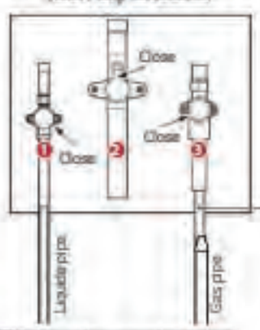
A3 From MULTI V 5, Low pressure gas pipe in heat pump operation changes to high pressure gas pipe in heat recovery operation due to internal cycle. So for heat pump cycle, no.1, 3 pipe should be connected and for heat recovery operation, No. 1, 2, 3 pipe is connected. (For the heat pump operation, DO NOT connect No.2 pipe)

Heat Recovery Installation



8HP	9.52	19.05	15.88
10HP	9.52	22.2	19.05
20HP	15.88	28.58	22.2

Heat Pump Installation



8HP	9.52	No Use	19.05
10HP	9.52	No Use	22.2
20HP	15.88	No Use	28.58

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

Reducer for Gas Pipe

15.88	→	19.05
19.05	→	22.2
22.2	→	28.58

Other Questions

Item	Question	Answer
Fan	The static pressure of MULTI V 5 is Max 8 mmAq as MULTI V IV/7?	Yes, the static pressure of MULTI V 5 is the same as MULTI V IV.
Compressor	Is the limitation of Compressor max Hz applied by the capacity of outdoor unit?	No, the limitation of comp Hz is not applied for default. But, it can be set by option for limitation of max Hz (or current).
4 Way V/V	What is 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 RS III remote controller.
Remote Controller	Does remote controller show the humidity information (Status) as well?	Yes. It shows the current humidity information on screen. (for RS III Only) But has no function to control the humidity.
Remote Controller	Is it possible to connect the local humidity sensor with Remote controller (RS III)?	No. All of RS III 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.

NOTE

ARUM080LTE5 / ARUM100LTE5
ARUM120LTE5 / ARUM140LTE5

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

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	7.02	9.30	12.00	12.98
	Heating (Rated)	kW	5.63	6.45	8.00	8.85
EER			3.19	3.01	2.80	3.02
SEER			7.90	7.80	7.71	8.22
COP	Rated Capacity		3.98	4.34	4.20	4.43
SCOP			4.36	4.39	4.84	4.97
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	cc	3,900	3,900	3,900	3,900
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
	Air Flow Rate (High)	m³/min x No.	240 x 1	240 x 1	240 x 1	320 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (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)	79.0	80.0	81.0	82.0
	Heating	dB(A)	79.0	80.0	83.0	82.0
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	7.5	9.5	9.5	13.5
	t-CO₂eq		15.656	19.831	19.831	28.181
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units [1]			13 (20)	16 (25)	20 (30)	23 (35)

1) Maximum numbers are prepared based on assumption that all 22kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM160LTE5 / ARUM180LTE5
ARUM200LTE5 / ARUM221LTE5

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

HP			16	18	20	22
Model Name	Combination Unit:		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM221LTE5
	Independent Unit:		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM120LTE5 ARUM100LTE5
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	17.23	14.82	18.06	21.30
	Heating (Rated)	kW	10.59	10.91	13.02	14.45
EER			2.60	3.40	3.10	2.89
SEER			7.74	8.50	8.17	7.76
COP	Rated Capacity		4.23	4.62	4.30	4.26
SCOP			5.30	4.67	4.98	4.61
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	(5,300 x 1) + (4,200 x 1)	(5,300 x 1) + (4,200 x 1)	5,300 x 2
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	cc	3,900	5,200	5,200	7,800
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	(1200 x 1) + (1,200 x 1)
	Air Flow Rate (High)	m³/min x No.	320 x 1	320 x 1	320 x 1	(240 x 1) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (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	((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	(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)
Net Weight		kg x No.	237 x 1	300 x 1	300 x 1	(215 x 1) + (215 x 1)
Shipping Weight		kg x No.	250 x 1	312 x 1	312 x 1	(225 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	60.5	61.0	62.0	61.5
	Heating	dB(A)	61.5	62.0	64.5	63.0
Sound Power Level	Cooling	dB(A)	86.0	87.0	87.0	84.0
	Heating	dB(A)	86.0	87.0	90.0	85.0
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	13.5	16.0	16.0	19.0
	t-CO₂eq		28.181	33.400	33.400	39.663
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units [1]			26 (40)	29 (45)	32 (50)	35 (44)

1) Maximum numbers are prepared based on assumption that all 22kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2) Applying to 16, 18, 20HP outdoor units only.

ARUM241LTE5 / ARUM261LTE5
ARUM280LTE5 / ARUM300LTE5

HP			24	26	28	30
Model Name	Combination Unit		ARUM241LTE5	ARUM261LTE5	ARUM280LTE5	ARUM300LTE5
	Independent Unit		ARUM120LTE5 ARUM120LTE5	ARUM140LTE5 ARUM120LTE5	ARUM160LTE5 ARUM120LTE5	ARUM180LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	67.2	72.8	78.4	84.0
	Heating (Rated)	kW	67.2	72.8	78.4	84.0
	Heating (Max)	kW	75.6	81.9	88.2	94.5
Input	Cooling (Rated)	kW	24.00	24.98	24.23	26.82
	Heating (Rated)	kW	16.00	16.85	18.59	18.91
EER			2.80	2.91	2.68	3.13
SEER			7.71	7.97	7.72	8.16
COP	Rated Capacity		4.20	4.32	4.22	4.44
SCOP			4.84	4.91	5.08	4.73
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	(Inverter) x 3
	Motor Output x Number	W x No	5,300 x 2	5,300 x 2	5,300 x 2	(5,300 x 2) + (4,200 x 1)
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	cc	7,800	7,800	7,800	9,100
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) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
	Air Flow Rate (High)	m³/min x No.	(240 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
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)	((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.	((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) + ((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.	(235 x 1) + (235 x 1)	(237 x 1) + (235 x 1)	(237 x 1) + (235 x 1)	(300 x 1) + (235 x 1)
Shipping Weight		kg x No.	(225 x 1) + (225 x 1)	(250 x 1) + (225 x 1)	(250 x 1) + (225 x 1)	(312 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	62.0	63.0	63.0	63.0
	Heating	dB(A)	63.0	64.0	64.0	64.0
Sound Power Level	Cooling	dB(A)	84.0	85.0	87.0	88.0
	Heating	dB(A)	86.0	86.0	88.0	88.0
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	19.0	23.0	23.0	25.5
	t-CO2eq		39.663	48.013	48.013	53.231
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units *1			39 (48)	42 (52)	45 (56)	49 (60)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (150% ~ 200%). The recommended ratio is 130%

ARUM320LTE5 / ARUM340LTE5
ARUM360LTE5 / ARUM380LTE5

HP			32	34	36	38
Model Name	Combination Unit		ARUM320LTE5	ARUM340LTE5	ARUM360LTE5	ARUM380LTE5
	Independent Unit		ARUM200LTE5 ARUM120LTE5	ARUM200LTE5 ARUM140LTE5	ARUM200LTE5 ARUM160LTE5	ARUM200LTE5 ARUM180LTE5
Capacity	Cooling (Rated)	kW	89.6	95.2	100.8	106.4
	Heating (Rated)	kW	89.6	95.2	100.8	106.4
	Heating (Max)	kW	100.8	107.1	113.4	119.7
Input	Cooling (Rated)	kW	30.06	31.04	35.29	32.88
	Heating (Rated)	kW	21.02	21.87	23.61	23.92
EER			2.98	3.07	2.86	3.24
SEER			7.98	8.19	7.97	8.32
COP	Rated Capacity		4.26	4.35	4.27	4.45
SCOP			4.93	4.98	5.11	4.83
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 3	(Inverter) x 3	(Inverter) x 4
	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 2) + (4,200 x 1)	(5,300 x 2) + (4,200 x 2)
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	cc	9,100	9,100	9,100	10,400
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 2) + (1,200 x 1)	900 x 4	900 x 4	900 x 4
	Air Flow Rate (High)	m³/min x No.	(320 x 1) + (240 x 1)	320 x 2	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø15.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø15.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (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) + ((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) + ((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) + ((960 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) + ((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.	(300 x 1) + (215 x 1)	(300 x 1) + (237 x 1)	(300 x 1) + (237 x 1)	(300 x 1) + (300 x 1)
Shipping Weight		kg x No.	(312 x 1) + (225 x 1)	(312 x 1) + (250 x 1)	(312 x 1) + (250 x 1)	(312 x 1) + (312 x 1)
Sound Pressure Level	Cooling	dB(A)	64.0	64.0	64.0	65.0
	Heating	dB(A)	66.0	64.0	66.0	66.0
Sound Power Level	Cooling	dB(A)	88.0	88.0	90.0	90.0
	Heating	dB(A)	91.0	91.0	91.0	92.0
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	25.5	29.5	29.5	32.0
	t-CO_2eq		53.231	61.581	61.581	66.800
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units *1			52 (64)	55 (64)	58 (64)	61 (64)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (150% ~ 200%). The recommended ratio is 130%

ARUM400LTE5 / ARUM420LTE5
ARUM440LTE5

HP			40	42	44
Model Name	Combination Unit		ARUM400LTE5	ARUM420LTE5	ARUM440LTE5
	Independent Unit		ARUM200LTE5 ARUM200LTE5	ARUM180LTE5 ARUM120LTE5 ARUM120LTE5	ARUM200LTE5 ARUM120LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	112.0	117.6	123.2
	Heating (Rated)	kW	112.0	117.6	123.2
	Heating (Max)	kW	126.0	132.3	138.6
Input	Cooling (Rated)	kW	36.12	38.82	42.06
	Heating (Rated)	kW	26.04	26.91	29.02
EER			3.10	3.03	2.93
SEER			8.17	8.02	7.90
COP	Rated Capacity		4.30	4.37	4.25
SCOP			4.98	4.76	4.90
Exterior	Color RAL Code		Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 2) + (4,200 × 2)	(5,300 × 3) + (4,200 × 1)	(5,300 × 3) + (4,200 × 1)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	10,400	13,000	13,000
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 × 4	(900 × 2) + (1,200 × 2)	(900 × 2) + (1,200 × 2)
	Air Flow Rate (High)	m³/min x No.	320 × 2	(320 × 1) + (240 × 2)	(320 × 1) + (240 × 2)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1)	(300 × 1) + (215 × 1) + (215 × 1)	(300 × 1) + (215 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1)	(312 × 1) + (225 × 1) + (225 × 1)	(312 × 1) + (225 × 1) + (225 × 1)
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	65.0
	Heating	dB(A)	68.0	66.0	67.0
Sound Power Level	Cooling	dB(A)	90.0	89.0	89.0
	Heating	dB(A)	93.0	90.0	91.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	32.0	35.0	35.0
	t-CO₂eq		66.800	73.063	73.063
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units 1)			64	64	64

1) Maximum numbers are prepared based on assumption that all 3.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (16.0% ~ 230%). The recommended ratio is 130%.

ARUM460LTE5 / ARUM480LTE5
ARUM500LTE5

HP			46	48	50
Model Name	Combination Unit		ARUM460LTE5	ARUM480LTE5	ARUM500LTE5
	Independent Unit		ARUM200LTE5 ARUM140LTE5 ARUM120LTE5	ARUM200LTE5 ARUM160LTE5 ARUM120LTE5	ARUM200LTE5 ARUM180LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	128.8	134.4	140.0
	Heating (Rated)	kW	128.8	134.4	140.0
	Heating (Max)	kW	144.9	151.2	157.5
Input	Cooling (Rated)	kW	43.04	47.29	44.88
	Heating (Rated)	kW	29.87	31.61	31.93
EER			2.99	2.84	3.12
SEER			7.58	7.38	8.16
COP	Rated Capacity		4.31	4.25	4.39
SCOP			4.94	5.04	4.83
Exterior	Color RAL Code		Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 5
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 3) + (4,200 × 1)	(5,300 × 3) + (4,200 × 1)	(5,300 × 3) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	13,000	13,000	14,300
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)
	Air Flow Rate (High)	m³/min x No.	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (237 × 1) + (215 × 1)	(300 × 1) + (237 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (250 × 1) + (225 × 1)	(312 × 1) + (250 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (225 × 1)
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	66.0
	Heating	dB(A)	67.0	67.0	67.0
Sound Power Level	Cooling	dB(A)	89.0	90.0	91.0
	Heating	dB(A)	91.0	92.0	92.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	39.0	39.0	41.5
	t-CO₂eq		81.413	81.413	86.631
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units 1)			64	64	64

1) Maximum numbers are prepared based on assumption that all 3.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (16.0% ~ 230%). The recommended ratio is 130%.

ARUM520LTE5 / ARUM540LTE5
ARUM560LTE5

HP			32	54	56
Model Name	Combination Unit		ARUM520LTE5	ARUM540LTE5	ARUM560LTE5
	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM140LTE5	ARUM200LTE5 ARUM200LTE5 ARUM160LTE5
Capacity	Cooling (Rated)	kW	145.6	151.2	156.8
	Heating (Rated)	kW	145.6	151.2	156.8
	Heating (Max)	kW	163.8	170.1	176.4
Input	Cooling (Rated)	kW	48.12	49.10	53.35
	Heating (Rated)	kW	34.04	34.89	36.63
EER			3.03	3.08	2.94
SEER			8.05	7.79	7.67
COP	Rated Capacity		4.28	4.33	4.28
SCOP			4.95	4.98	5.06
Exterior	Color RAL Code		Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 5	Hermetically Sealed Scroll (Inverter) x 5	Hermetically Sealed Scroll (Inverter) x 5
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 3) + (4,200 × 2)	(5,300 × 3) + (4,200 × 2)	(5,300 × 3) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	14,300	14,300	14,300
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 4) + (1,200 × 1)	900 × 6	900 × 6
	Air Flow Rate (High)	m³/min×No.	(320 × 2) + (240 × 1)	320 × 3	320 × 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (235 × 1)	(300 × 1) + (300 × 1) + (237 × 1)	(300 × 1) + (300 × 1) + (237 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1)	(312 × 1) + (312 × 1) + (250 × 1)
Sound Pressure Level	Cooling	dB(A)	66.0	66.0	66.0
	Heating	dB(A)	68.0	67.0	68.0
Sound Power Level	Cooling	dB(A)	91.0	91.0	91.0
	Heating	dB(A)	93.0	93.0	94.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	41.5	45.5	45.5
	tCO₂eq		86.631	94.981	94.981
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximun Connectable Indoor Units [1]			64	64	64

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

ARUM580LTE5 / ARUM600LTE5
ARUM620LTE5

HP			58	60	62
Model Name	Combination Unit		ARUM580LTE5	ARUM600LTE5	ARUM620LTE5
	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM180LTE5	ARUM200LTE5 ARUM200LTE5 ARUM200LTE5	ARUM200LTE5 ARUM180LTE5 ARUM120LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	162.4	168.0	173.6
	Heating (Rated)	kW	162.4	168.0	173.6
	Heating (Max)	kW	182.7	189.0	195.3
Input	Cooling (Rated)	kW	50.94	54.18	56.90
	Heating (Rated)	kW	36.95	39.06	39.93
EER			3.19	3.10	3.05
SEER			8.27	8.17	8.07
COP	Rated Capacity		4.40	4.30	4.35
SCOP			4.88	4.98	4.83
Exterior	Color RAL Code		Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 6	Hermetically Sealed Scroll (Inverter) x 6	Hermetically Sealed Scroll (Inverter) x 6
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 3) + (4,200 × 3)	(5,300 × 3) + (4,200 ×3)	(5,300 × 4) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	15,600	15,600	16,200
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 × 6	900 × 6	(900 × 4) + (1,200 × 2)
	Air Flow Rate (High)	m³/min×No.	320 × 3	320 × 3	(320 × 2) + (240 ×2)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (215 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (225 × 1) + (225 × 1)
Sound Pressure Level	Cooling	dB(A)	66.0	67.0	66.0
	Heating	dB(A)	69.0	69.0	68.0
Sound Power Level	Cooling	dB(A)	92.0	92.0	91.0
	Heating	dB(A)	94.0	95.0	93.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	48.0	48.0	51.0
	tCO₂eq		100.200	100.200	106.463
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximun Connectable Indoor Units [1]			64	64	64

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

ARUM640LTE5 / ARUM660LTE5 ARUM680LTE5

HP			64	66	68
Model Name	Combination Unit		ARUM640LTE5	ARUM660LTE5	ARUM680LTE5
	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM120LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM140LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM160LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	179.2	184.8	190.4
	Heating (Rated)	kW	179.2	184.8	190.4
	Heating (Max)	kW	201.6	207.9	214.2
Input	Cooling (Rated)	kW	60.12	61.10	65.35
	Heating (Rated)	kW	42.04	42.89	44.63
EER			2.98	3.02	2.91
SEER			7.96	7.78	7.63
COP	Rated Capacity		4.26	4.31	4.27
SCOP			4.93	4.95	5.01
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 6	Hermetically Sealed Scroll (Inverter) x 6	Hermetically Sealed Scroll (Inverter) x 6
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 4) + (4,200 × 2)	(5,300 × 4) + (4,200 × 2)	(5,300 × 4) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	18,200	18,200	18,200
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 4) + (1,200 × 2)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)
	Air Flow Rate (High)	m³/min x No.	(320 × 2) + (240 × 2)	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (215 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (237 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (237 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (225 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1) + (225 × 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.0	67.0
	Heating	dB(A)	69.0	69.0	69.0
Sound Power Level	Cooling	dB(A)	91.0	91.0	92.0
	Heating	dB(A)	94.0	94.0	94.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 - 1.5	2C × 1.0 - 1.5	2C × 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	51.0	55.0	55.0
	t-CO₂eq		106.463	114.813	114.813
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units [1]			64	64	64

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

ARUM700LTE5 / ARUM720LTE5 ARUM740LTE5

HP			70	72	74
Model Name	Combination Unit		ARUM700LTE5	ARUM720LTE5	ARUM740LTE5
	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM180LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM200LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM200LTE5 ARUM140LTE5
Capacity	Cooling (Rated)	kW	196.0	201.6	207.2
	Heating (Rated)	kW	196.0	201.6	207.2
	Heating (Max)	kW	220.5	226.8	233.1
Input	Cooling (Rated)	kW	62.94	66.18	67.16
	Heating (Rated)	kW	44.95	47.06	47.91
EER			3.11	3.05	3.09
SEER			8.16	8.08	7.91
COP	Rated Capacity		4.36	4.28	4.32
SCOP			4.87	4.96	4.98
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 7	Hermetically Sealed Scroll (Inverter) x 7	Hermetically Sealed Scroll (Inverter) x 7
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 4) + (4,200 × 3)	(5,300 × 4) + (4,200 × 3)	(5,300 × 4) + (4,200 × 3)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	cc	19,500	19,500	19,500
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	(900 × 8)
	Air Flow Rate (High)	m³/min x No.	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	(320 × 4)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (300 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (237 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (312 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (250 × 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.0	68.0
	Heating	dB(A)	69.0	70.0	69.0
Sound Power Level	Cooling	dB(A)	92.0	92.0	92.0
	Heating	dB(A)	94.0	95.0	95.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 - 1.5	2C × 1.0 - 1.5	2C × 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	57.5	57.5	61.5
	t-CO₂eq		120.031	120.031	128.381
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units [1]			64	64	64

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

ARUM760LTE5 / ARUM780LTE5
ARUM800LTE5

HP			76	78	80
Model Name	Combination Unit:		ARUM760LTE5	ARUM780LTE5	ARUM800LTE5
	Independent Unit:		ARUM200LTE5 ARUM200LTE5 ARUM200LTE5 ARUM160LTE5	ARUM200LTE5 ARUM200LTE5 ARUM200LTE5 ARUM180LTE5	ARUM200LTE3 ARUM200LTE3 ARUM200LTE3 ARUM200LTE3
Capacity	Cooling (Rated)	kW	212.8	218.4	224.0
	Heating (Rated)	kW	212.8	218.4	224.0
	Heating (Max.)	kW	239.4	245.7	252.0
Input	Cooling (Rated)	kW	71.41	69.00	72.24
	Heating (Rated)	kW	49.65	49.97	52.08
EER			2.98	3.17	3.10
SEER	Rated Capacity		7.77	8.24	8.17
COP			4.29	4.37	4.30
SCOP			5.04	4.91	4.98
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 7	Hermetically Sealed Scroll (Inverter) x 8	Hermetically Sealed Scroll (Inverter) x 8
	Combination x No.				
	Motor Output x Number	W x No.	(5,300 × 4) + (4,200 × 3)	(5,300 × 4) + (4,200 × 4)	(5,300 × 4) + (4,200 × 4)
	Oil Type		FW680	FW680	FW680
	Oil Charge	cc	19,500	20,800	20,800
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 8)	(900 × 8)	(900 × 8)
	Air Flow Rate (High)	m³/min x No.	(320 × 4)	(320 × 4)	(320 × 4)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)
Dimensions (W x H x D) - Shipping		mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (300 × 1) + (237 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (300 × 1) + (300 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (312 × 1) + (250 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (312 × 1)
Sound Pressure Level	Cooling	dB(A)	68.0	68.0	68.0
	Heating	dB(A)	70.0	70.0	71.0
Sound Power Level	Cooling	dB(A)	93.0	93.0	93.0
	Heating	dB(A)	95.0	95.0	96.0
Communication Cable		mm² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	61.5	64.0	64.0
	tonCO₂eq		128.381	133.600	133.600
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maximum Connectable Indoor Units *1)			64	64	64

*1) Maximum numbers are proposal based on assumption that all 2.8kW indoor units are connected. The numbers in parenthesis means maximum connectable indoor units in accordance with outdoor units combination (130% ~ 200%). The recommendation is 130%.

NOTE

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

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

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

4. Sound pressure level is measured at the rated condition in the anechoic rooms according to ISO 3745 standard. Sound power level is measured at the rated condition in the semi-anechoic rooms according to ISO 9614 standard. Therefore, these values can vary due to different operation conditions .

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

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

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

MULTI V™ S

Highlight

- Air cooled VRF Heat pump & Heat Recovery
- 12.1 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge

Energy savings | Reliability | Convenience

How does it work?

Available in Heat Pump and Heat Recovery Models

Combination of Cooling, Heating and Hot Water Solution

Smart Load Control Applied

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

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

Startup Operation

Max 10% Energy saving

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

Real Time Operation

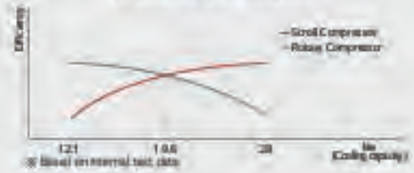
Max 13% Energy saving

※ How to set up : By dip switch in outdoor unit (Refer to Product Data Book) Factory default setting is Off
→ Outdoor temperature condition : DB/ 100% / 75% / 50% / 25% – 35℃(DB) / 30℃ (DB) / 25℃ (DB) / 20℃ (DB)
→ Indoor temperature condition : 27℃ (DB) / 19℃ (WB)
※ Dual sensing (Temperature & humidity) smart load control is possible with Remote controller
PRMTB000 (White) / PRMTB010 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficient compressor according to capacity

Inverter Twin Rotary
(12.1kw ~ 15.5kw)



Inverter scroll compressor
(22.4kw ~ 33.6kw)

Inverter Twin Rotary

Concentrated Winding Motor

Oil path area is improved by over 50% by increasing the electric stator cavity. Due to this, coil resistance 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

Best-in-class Compressor Speed

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

6 Bypass Valve

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

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

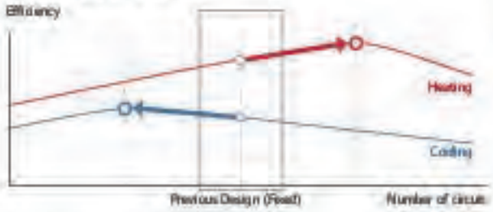
Scroll Profile
- The enhanced reliability with regulated oil supply
- Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

Optimal Heat Exchanger

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

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

Efficiency performance



Efficiency up due to Fin shape

Improved heat exchanger efficiency of up to 28%

Reliable Refrigerant Components

LG technology allows for superior performance and component durability

MULTI V S improved reliability with advanced technology :

- Oil separator
- Accumulator
- Sub-cooling

Cyclonic oil separator

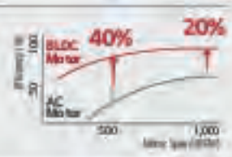
- Highly reliable and efficient oil separation by centrifuge using cyclonic methods
- High collection efficiency as well as outstanding resistance to high temperature and pressure

Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (36% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction
- Maximize efficiency by optimal amount of refrigerant
- Protects compressor breakdown to increase product lifetime

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



Double Sub-cool Interchanger

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

* based on equivalent pipe length

Double Sub-cool Interchanger

Smart Control

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

Temperature + Pressure Control

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

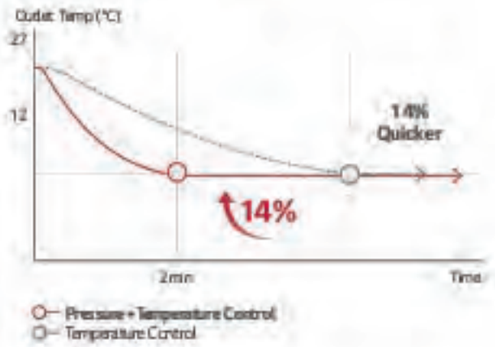
High Pressure Sensor

Low Pressure Sensor

Quick Operating Response

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

※ Specifications may vary for each model.



Corrosion Resistance Black Fin

Strong durability against high salinity and heavily polluted air

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

Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO 21 207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TUV.

Certified protection

※ Verification of corrosion resistance performance
- Test Method B of ISO 21207
- ASTM B 117 / ISO 9227 (1,000 hours)

Enhanced Coating Layers

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

Sufficient Piping Length

Increased piping length allows for flexible design and installation

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

Piping Capabilities

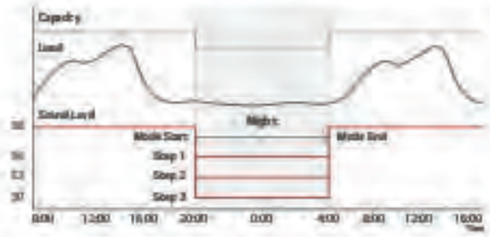
4 Way Piping

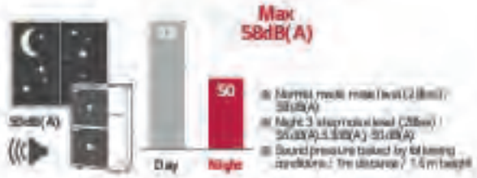
- Free design and installation by 4 way piping

Low Noise Operation

Decreased noise during operation with low noise functionality

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





Fan Technology and RPM Control

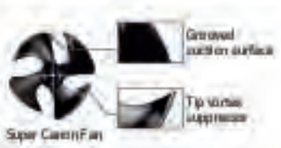
External static pressure control enables outdoor unit to offer more flexibility in installations.

New axial fan offers higher air volume, increased static pressure, decreased noise and enhanced efficiency.

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



Fan RPM control

Due to the new shroud and ROM control, the air flows straight away from the fan even in high-rise buildings.

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

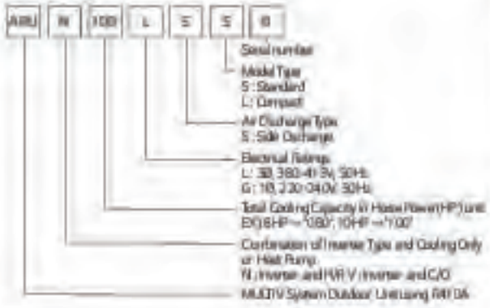
Upgraded Fault Detection and Diagnosis

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
- FDD (Fault Detection and Diagnosis)

Nomenclature



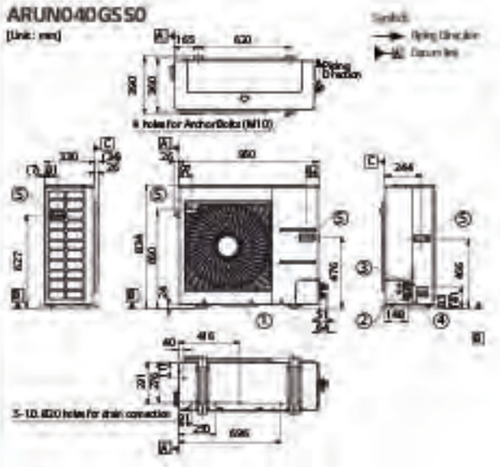
Outdoor Units Function

Category	Function	MULTI V 5
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HIPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	ARUB060GSS4 only
	Corrosion Resistance Black Fin	○
	Oil Sensor	-
Special Function	Dual Sensing	ARUB060GSS4 only
	Low Noise Operation	○
	High Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	-
	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)	PQCSZ230S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP Lonworks	PUNWA8000
	ACP BACnet	PQNRB17C0
IO Module (ODU Dry Contact)		PWDSMN000
PDI (Power Distribution Indicator)	Standard	PPAVR0B000
	Premium	PQNUD154G
Cool / Heat Selector		PRDSBM
Cycle Monitoring Device	LGMV	PRCTLD
	Mobile LGMV	PLGMWW100
Additional kit	Refrigerant Charging Kit	○ (Logical operation) Not applied to ARUB060GSS4
	Low Ambient Kit	○
	Variable Water Flow Valve Control Kit	-

※ ○ : Applied, - : Not Applied

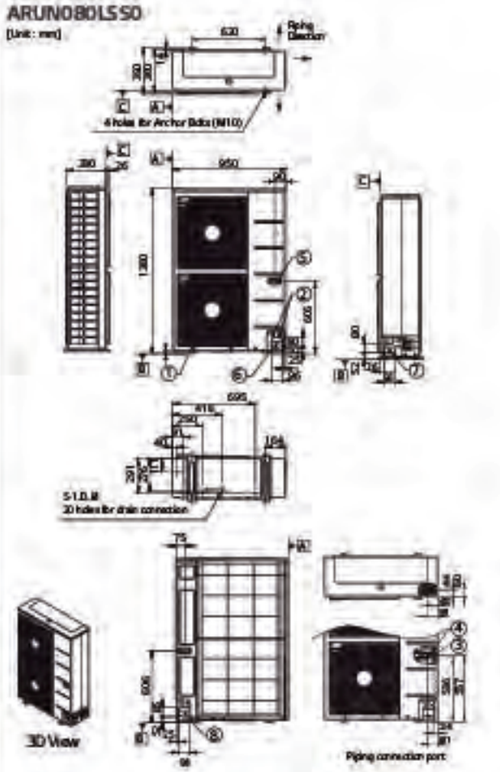
ARUN040GSS0

[Unit: mm]



ARUN080LSS0

[Unit: mm]



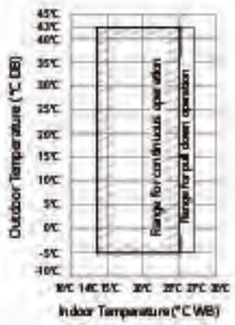
Note

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

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

Heat Pump

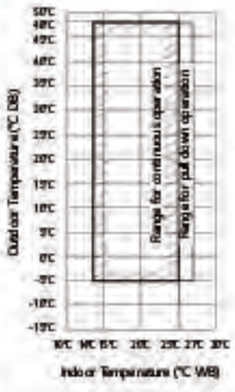
Cooling



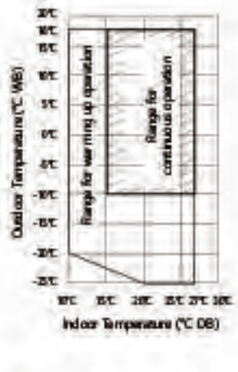
Heating

Heat Recovery

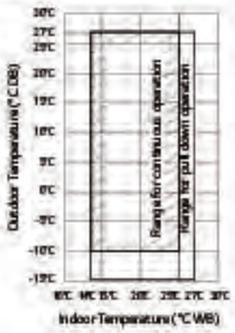
Cooling



Heating



Simultaneous Cooling



Simultaneous Heating

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

Position of Sound Level Measuring

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

ARUN040GSS0

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

HP			4
Model Name			ARUN040GSS0
Capacity	Cooling (Rated)	kW	12.1
	Heating (Rated)	kW	12.5
Input	Cooling (Rated)	kW	4.03
	Heating (Rated)	kW	3.10
EER			3.00
SEER			5.63
COP	Rated Capacity		4.03
SCOP			3.97
Exterior	Color (General)		Warm Gray
	RAL Code (Classic)		RAL 7044
Heat Exchanger	Type		Wide Louver Plus
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		PVE80 (PVE)
	Oil Charge	cc	1,300
Fan	Type		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1
	Air Flow Rate (High)	m³/min x No.	60
	Drive		DC INVERTER
Pipe Connection	Discharge	Side / Top	Side
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (W x H x D)		mm x No.	950 x 834 x 330
Dimensions (W x H x D) - Shipping		mm x No.	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	70
Shipping Weight		kg x No.	77 x 1
Sound Pressure Level	Cooling	dB(A)	50
	Heating	dB(A)	52
Sound Power Level	Cooling	dB(A)	72
	Heating	dB(A)	75
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A
	Precharged Amount in factory	kg	1.8
	tCO₂eq		3.758
	Control		Electronic Expansion Valve
Power Supply		Φ, V, Hz	220-240, 1, 50
			220, 1, 60
Number of Maximum Connectable Indoor Units			8

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 130% (The maximum combination ratio of ARUN050GSS0 is 130%)
4. Wiring size must comply with the applicable local and national codes
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound pressure level is measured in the near condition in the anechoic room as ISO 3745 standard.
Sound power level is measured on the listed condition in the semi-anechoic room as ISO 9614 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±2% according to the operating conditions.
8. The product contains fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2,087.5)

ARUN050GSS0 / ARUN060GSS0

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

HP			5	6
Model Name			ARUN050GSS0	ARUN060GSS0
Capacity	Cooling (Rated)	kW	14.0	15.5
	Heating (Rated)	kW	16.0	18.0
Input	Cooling (Rated)	kW	4.59	5.17
	Heating (Rated)	kW	4.18	5.00
EER			3.05	3.00
SEER			7.40	7.53
COP	Rated Capacity		3.83	3.60
SCOP			4.16	4.35
Exterior	Color (General)		Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus
Compressor	Type		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	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		FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	1,300	1,300
Fan	Type		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2
	Air Flow Rate (High)	m³/min x No.	110	110
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 1,380 x 330	950 x 1,380 x 330
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.	94	94
Shipping Weight		kg x No.	106	106
Sound Pressure Level	Cooling	dB(A)	51	52
	Heating	dB(A)	53	54
Sound Power Level	Cooling	dB(A)	72	72
	Heating	dB(A)	76	77
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A
	Precharged Amount in factory	kg	3.0	3.0
	t-CO₂eq		6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	220-240 , 1 , 50 220, 1, 60	220-240 , 1 , 50 220, 1, 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 150% (the maximum combination ratio of ARUN050GSS0 is 130%.)
4. Wiring cable size must comply with the applicable load and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3744 standard.
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
 Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases (R410A, GWP(Global warming potential) = 2087.5)

ARUN040LSS0 / ARUN050LSS0 ARUN060LSS0

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

HP			4	5	6
Model Name			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
	Heating (Rated)	kW	12.5	16.0	18.0
Input	Cooling (Rated)	kW	3.39	4.59	5.17
	Heating (Rated)	kW	2.75	4.18	5.00
EER			3.57	3.05	3.00
SEER			7.42	7.40	7.53
COP	Rated Capacity		4.55	3.83	3.60
SCOP			4.30	4.16	4.35
Exterior	Color (General)		Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
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		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	1,300	1,300	1,300
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2	124 x 2
	Air Flow Rate (High)	m³/min x No.	110	110	110
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88(5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
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	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	96	96	96
Shipping Weight		kg x No.	108	108	108
Sound Pressure Level	Cooling	dB(A)	50	51	52
	Heating	dB(A)	52	53	54
Sound Power Level	Cooling	dB(A)	72	72	72
	Heating	dB(A)	76	76	77
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in factory	kg	3.0	3.0	3.0
	t-CO_2eq		6.263	6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-415 , 3 , 50 380, 3, 60	380-415 , 3 , 50 380, 3, 60	380-415 , 3 , 50 380, 3, 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 150% (the maximum combination ratio of ARUN050LSS0 is 130%)
4. Wiring cable size must comply with the applicable load and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3744 standard.
 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
 Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases (R410A, GWP(Global warming potential) = 2087.5)

ARUN080LSS0 / ARUN100LSS0 ARUN120LSS0

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HP			8	10	12
Model Name			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
	Heating (Rated)	kW	24.5	30.6	36.7
Input	Cooling (Rated)	kW	8.45	12.44	15.37
	Heating (Rated)	kW	6.96	8.50	12.23
EER			2.65	2.25	2.20
SEER			7.13	6.28	6.50
COP	Rated Capacity		3.52	3.60	3.00
SCOP			4.53	4.21	4.32
Exterior	Color (General)		Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
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		FW68D (PVE)	FW68D (PVE)	FW68D (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)	m³/min x No.	140	190	190
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (W x H x D)		mm x No.	950 x 1,380 x 330	1,090 x 1,625 x 380	1,090 x 1,625 x 380
Dimensions (W x H x D) - Shipping		mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	115	142	155
Shipping Weight		kg x No.	127	158	171
Sound Pressure Level	Cooling	dB(A)	57	58	60
	Heating	dB(A)	57	58	60
Sound Power Level	Cooling	dB(A)	78	77	78
	Heating	dB(A)	81	79	82
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in factory	kg	3.5	4.5	6.0
	t-CO₂eq		7.308	9.394	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-415 , 3 , 50	380-415 , 3 , 50	380-415 , 3 , 50
			380 , 3 , 60	380 , 3 , 60	380 , 3 , 60
Number of Maximun 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 130%. (the maximum combination ratio of ARUN050GSS.0 is 130%)
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound pressure level is measured on the test condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
7. Power Factor could very less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases (R410A, GWP(Global warming potential) = 2087.5)

ARUB060GSS4

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

HP			6
Model Name			ARUB060GSS4
Capacity	Cooling (Rated)	kW	15.5
	Heating (Rated)	kW	18.0
Input	Cooling (Rated)	kW	5.74
	Heating (Rated)	kW	5.14
EER			2.70
SEER			5.92
COP	Rated Capacity		3.50
SCOP			3.79
Exterior	Color		Warm Gray
	RAL Code (Classic)		RAL 7044
Heat Exchanger	Type		Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1
	Oil Type		PW68D (PVE)
	Oil Charge	cc	1,700
Fan	Type		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
	Air Flow Rate (High)	m³/min x No.	110
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe Connection *1	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (W x H x D)		mm x No.	950 x 1,380 x 330
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
Shipping Weight		kg x No.	132
Sound Pressure Level	Cooling	dB(A)	56
	Heating	dB(A)	58
Sound Power Level	Cooling	dB(A)	76
	Heating	dB(A)	78
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 - 1.5
Refrigerant	Refrigerant Name		R410A
	Precharged Amount in factory	kg	3.5
	t-CO₂eq		7.308
	Control		Electronic Expansion Valve
Power Supply		Ø, V, Hz	220-230-240 , 1 , 50/60
Number of Maximun Connectable Indoor Units			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 130%. (the maximum combination ratio of ARUN050GSS.0 is 130%)
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
7. Power Factor could very less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases (R410A, GWP(Global warming potential) = 2087.5)

Energy Savings

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

Conventional

Absorbed heat is released to outdoor air.

Energy Savings

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

MULTI V S Heat Recovery with HYDRO KIT

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

MULTI V™ S

R32

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

Higher Efficiency

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

※ The values based on '24K' model

Compact Size & Light Weight

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

Less Refrigerant Charge

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

※ 1 CU (Wall Mounted Unit) : 5 (Multi) 6 EA
※ This result can be different depending on actual environment.

Corrosion Resistance Black Fin

Enhanced Coating Layers

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

※ Verification of corrosion resistance performance
- Test Method 9 of ISO 21207
- ASTM B117 / ISO 9227 (1000 hours)

WHY R32 REFRIGERANT

Lower Global Warming Potential (GWP)

What is GWP?

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2).

Global Trend and EU Regulation for F-Gas

HFC* Phase Down 79% by 2030.

79%

HFCs refrigerants should be reduced by 79% by 2030 compared to 2013.

* Hydrofluorocarbon : One of the alternative fresh gas that does not harm the Earth's ozone layer

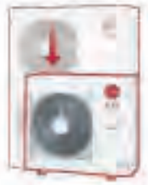
Cost Savings with R32

Higher Efficiency

Savings on cost of energy consumption.

Reduced Equipment Sizes

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



Less Refrigerant Charge

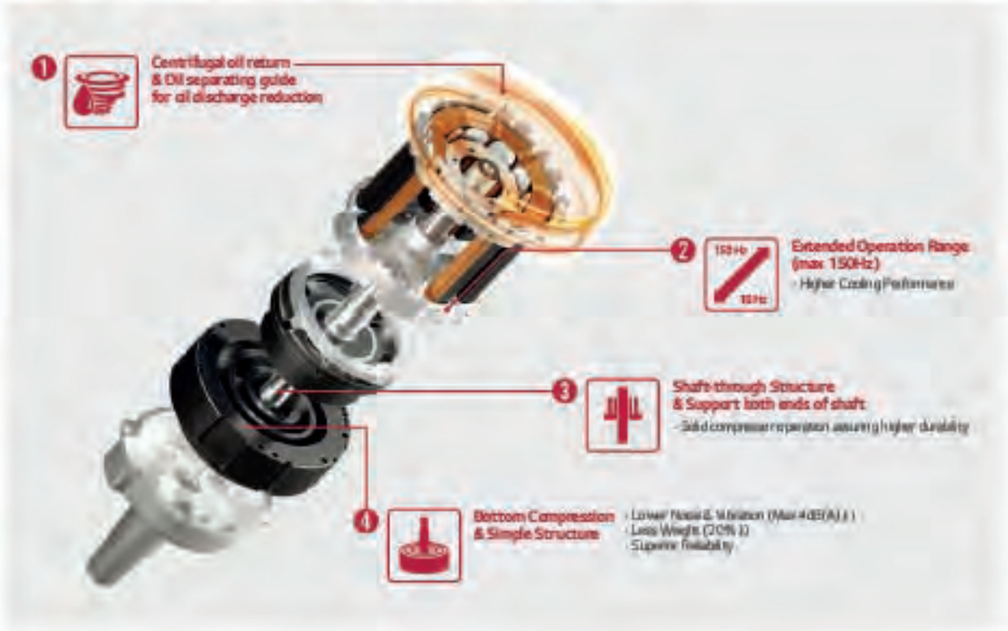
Savings on cost of injecting & replacing refrigerant.

Reduced Refrigerant Volume

Savings on refrigerant purchase and recycling costs.

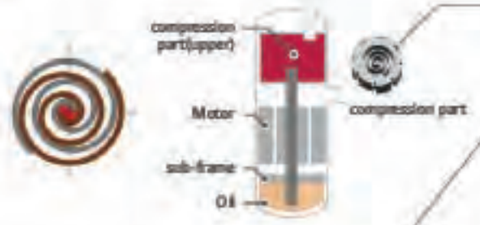
R1 Compressor™

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

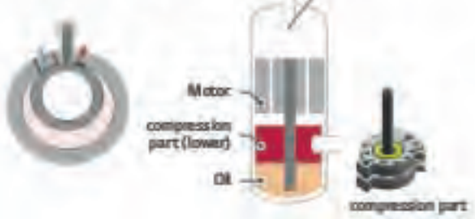


Conventional Compressor

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



Rotary : Simple structure
(Compression per 1 rotation)



R1 Compressor™

Revolutionary Scroll : High efficiency / Stable & Simple Structure

NOTE

ZRUN040GSS0 / ZRUN050GSS0 ZRUN060GSS0

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

HP			4	5	6
Model Name			ZRUN040GSS0	ZRUN050GSS0	ZRUN060GSS0
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
	Heating (Rated)	kW	12.1	14.0	15.5
	Heating (Max)	kW	14.2	16.0	18.0
Input	Cooling (Rated)	kW	4.26	4.90	5.64
	Heating (Rated)	kW	3.03	3.48	3.95
EER (Rated)			2.84	2.86	2.75
SEER			6.69	6.44	6.59
COP (Rated)			4.00	4.02	3.92
SCOP			3.87	3.81	4.07
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
	RAL Code		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	1,100	1,100	1,100
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m³/min x No.	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Dimensions (W x H x D) - Shipping		mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461
Net Weight		kg x No.	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	79.6	79.6
Sound Pressure Level	Cooling	dB(A)	51	57	57
	Heating	dB(A)	55	60	60
Sound Power Level	Cooling	dB(A)	67	70	71
	Heating	dB(A)	71	74	75
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R32	R32	R32
	Precharged Amount	kg	1.5	2.0	2.0
	tCO2eq		1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	220 ~ 230 ~ 240, 1, 50	220 ~ 230 ~ 240, 1, 50	220 ~ 230 ~ 240, 1, 50
Number of maximum connectable indoor units			8	10	13

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound pressure level is measured at the rated condition in the anechoic room by ISO 3745 standard. Sound power level is measured at the rated condition in the semi-anechoic room by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
4. Performances are based on the following conditions :
   - Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB
   - Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m
5. EUROVENT Test Condition :
   - Performance values on the title PCB are based on Ceiling mounted cassette combination.
   - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
6. The maximum combination ratio is 160%.
7. This product contains Fluorinated greenhouse gases (R32, GWP (Global warming potential) = 675)

ZRUN040LSS0 / ZRUN050LSS0 ZRUN060LSS0

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

HP			4	5	6
Model Name			ZRUN040LSS0	ZRUN050LSS0	ZRUN060LSS0
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
	Heating (Rated)	kW	12.1	14.0	15.5
	Heating (Max)	kW	14.2	16.0	18.0
Input	Cooling (Rated)	kW	4.26	4.90	5.64
	Heating (Rated)	kW	3.03	3.48	3.95
EER (Rated)			2.84	2.86	2.75
SEER			6.69	6.44	6.59
COP (Rated)			4.00	4.02	3.92
SCOP			3.87	3.81	4.07
Exterior	Color		Warm Gray	Warm Gray	Warm Gray
	RAL Code		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	cc	1,100	1,100	1,100
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m³/min x No.	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Dimensions (W x H x D) - Shipping		mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461
Net Weight		kg x No.	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	79.6	79.6
Sound Pressure Level	Cooling	dB(A)	51	57	57
	Heating	dB(A)	55	60	60
Sound Power Level	Cooling	dB(A)	67	70	71
	Heating	dB(A)	71	74	75
Communication Cable		mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R32	R32	R32
	Precharged Amount	kg	1.5	2.0	2.0
	tCO2eq		1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380 ~ 400 ~ 415, 3, 50	380 ~ 400 ~ 415, 3, 50	380 ~ 400 ~ 415, 3, 50
Number of maximum connectable indoor units			8	10	13

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound pressure level is measured at the rated condition in the anechoic room by ISO 3745 standard. Sound power level is measured at the rated condition in the semi-anechoic room by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.
4. Performances are based on the following conditions :
   - Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB
   - Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m
5. EUROVENT Test Condition :
   - Performance values on the title PCB are based on Ceiling mounted cassette combination.
   - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
6. The maximum combination ratio is 160%.
7. This product contains Fluorinated greenhouse gases (R32, GWP (Global warming potential) = 675)

MULTI V™ M

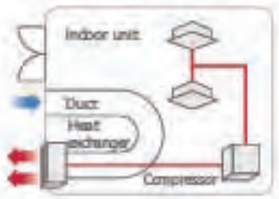
Highlight

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

Flexible design	Cost savings	Space savings	Easy maintenance

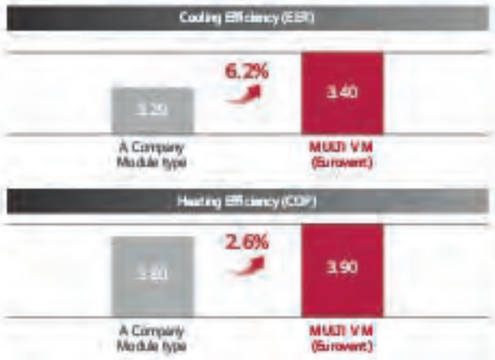
How does it work?

Direct Inlet / Outlet Case



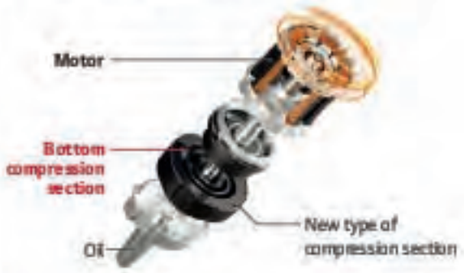
Duct Connected Case

Energy Efficiency



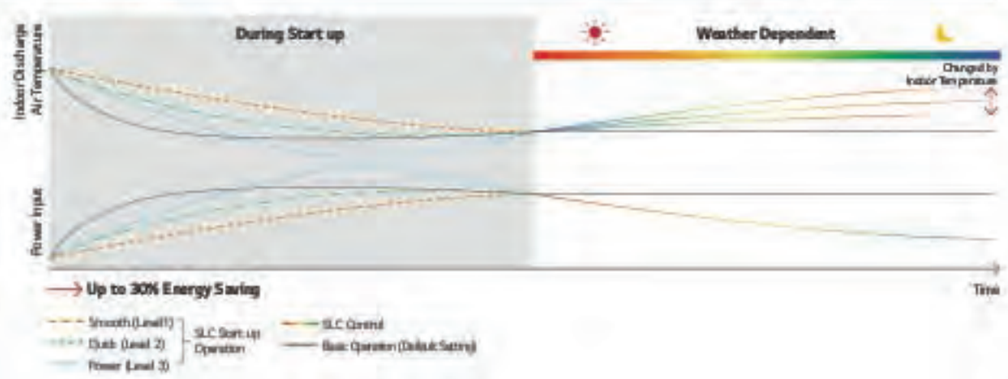
R1 Compressor™

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



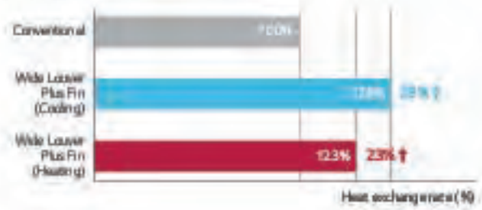
Smart Load Control

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



Wide Louver Plus Fin + Corrosion Resistance

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

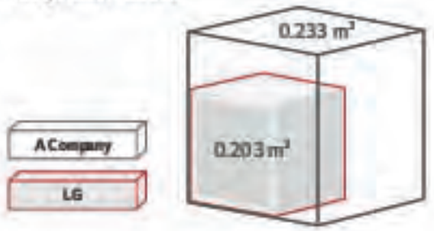


Quiet Operation

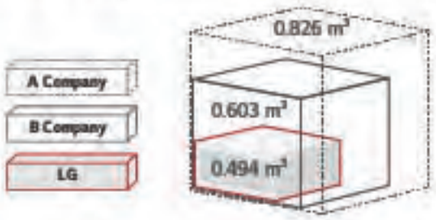
Low sound level of both compressor module and heat exchanger module allows outdoor units to be installed and operated inside.

Volume

Compressor Module



Heat Exchanger Module

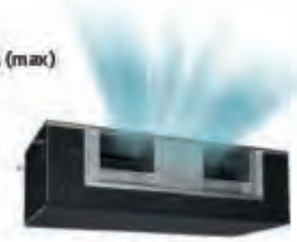


ESP Control
(External Static Pressure)

up to 30 Pa

Normal Mode

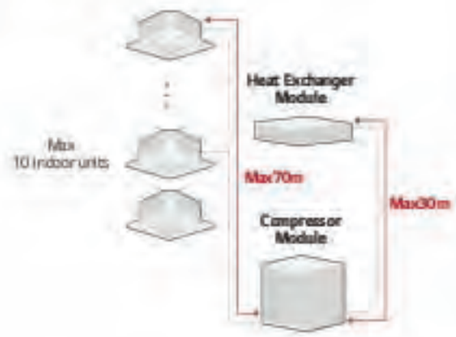
up to 157 Pa (max)



High Static Pressure Mode

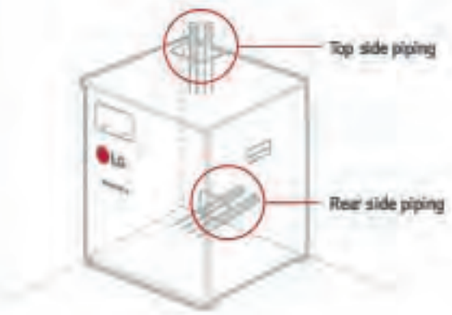
Module Type

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



Flexible Piping Location

Tidy & simple installation with flexible piping location.



Increased Design Freedom

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

Conventional Outdoor Unit

MULTI V M

Heat exchanger module can be installed in false ceiling spaces

Compressor module can be installed anywhere indoors

Nomenclature

Outdoor Units Function

Category	Functions	Module
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	-
	Corrosion Resistance Black Fin	○
	Oil Sensor	-
Useful Function	Dual Sensing	-
	Low Noise Operation	○
	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	-
Reliability	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	-
Control Controller	AC Ex (Simple Controller)	PQCS225050
	AC Ex Touch	PACEZA000
	AC Smart IV	PACS480G0
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP480G0
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACME5A000
BMU (Building Network Unit)	ACP Lonworks	PGWMB5000
	ACP BACnet	PGWRB1700
Installation	Refrigerant Charging Kit	-
	Variable Water Flow Valve Control Kit	-
IDU (Power Distribution Indicator)	Standard	-
	Premium	-
Cool / Heat Selector		PRDSBM
Low Ambient Kit		-
IO Module (ODU Dry Contact)		PMDSMN000
Cycle Monitoring Device	LGMV	PRCTLI0
	Mobile LGMV	PLGMVWP00

※ ○ : Applied, - : Not Applied

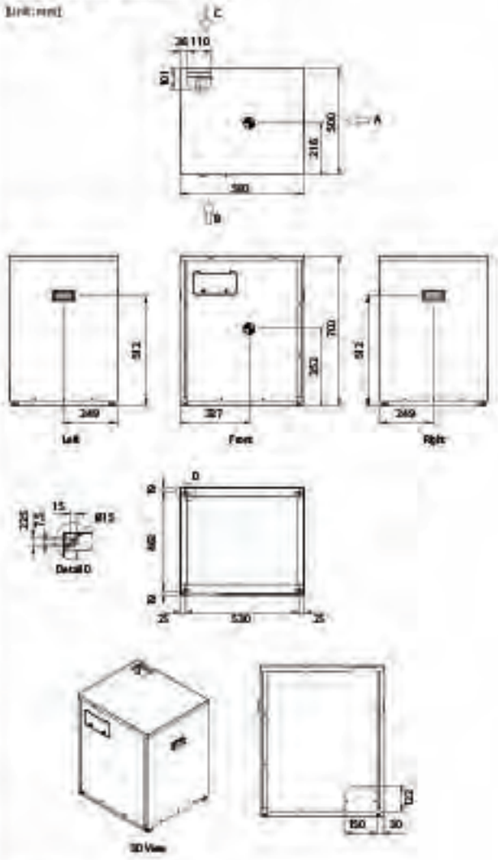
Heat Pump

Cooling

Heating

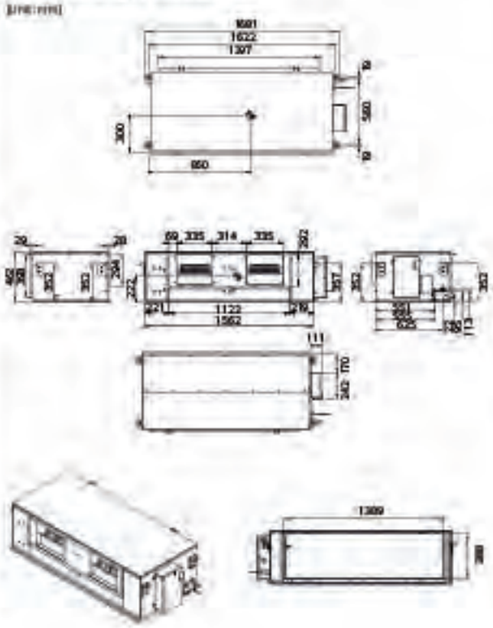
Compressor Module

Unit : mm



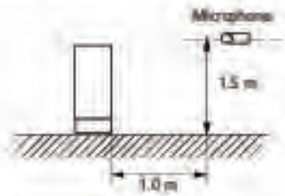
Heat Exchanger Module

Unit : mm



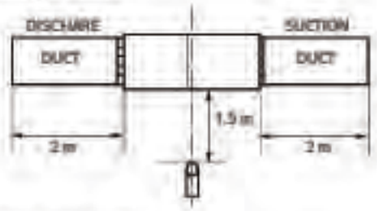
Position of Sound Pressure Level Measuring

Compressor Module



※ Measuring place : Anechoic chamber

Heat Exchanger Module

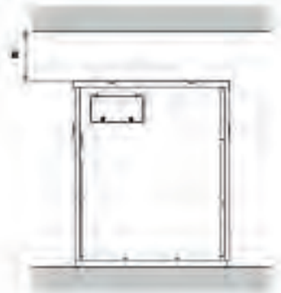


※ Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View

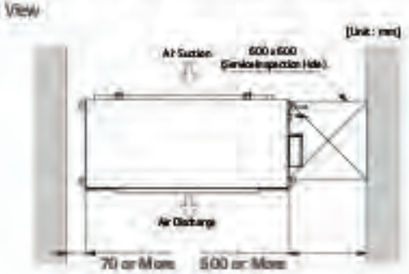
Front View



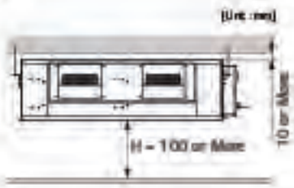
Category	Mark	Description	Installation Space (mm)
Compressor Module	a	Right	10 or More
	b	Left	10 or More
	c	Rear	10 or More
	d	Front	500 or More
	e	Top	200 or More

Installation Space for Compressor Module

Top View



Front View



ARUN050LMC0 / ARUN050GME0

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

System

HP			5
Model Name	Set		ARUN050LMS0
	Compressor Module		ARUN050LMC0
	Heat Exchanger Module		ARUN050GME0
Capacity	Cooling (Rated)	kW	14.0
	Heating (Rated)	kW	14.0
	Heating (Max)	kW	16.0
Input	Cooling (Rated)	kW	5.07
	Heating (Rated)	kW	3.71
	Heating (Max)	kW	4.32
EER	Based on Rated Capacity		2.76
SEER			5.26
COP	Based on Rated Capacity		3.77
	Based on Max Capacity		3.70
SCOP			3.85
Number of Maximum Connectable Indoor Units			10

※ O : 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 3744 standard.
Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614-2 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°C DB / 19°C WB, Outdoor Ambient Temp 35°C DB / 24°C WB
- Heating : Indoor Ambient Temp 20°C DB / 15°C WB, Outdoor Ambient Temp 7°C DB / 6°C WB
- 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 Module – 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)

ARUN050LMC0 / ARUN050GME0

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

Module

HP			5	
Model Name			Compressor Module	Heat Exchanger Module
			ARUN050LMC0	ARUN050GME0
Exterior	Color		Morning Gray	Galvanized Steel Plate
	RAL Code (Classic)		RAL 7030	-
Dimensions (W x H x D)	Net	mm x No.	580 x 700 x 500	1,562 x 460 x 688
	Shipping	mm x No.	618 x 833 x 564	1,806 x 337 x 825
Weight	Net	kg x No.	69.0	84
	Shipping	kg x No.	76.0	95
Compressor	Type		Hermetic Motor Compressor	-
	Combination x No.		(Inverter) x 1	-
	Motor Output	W x No.	3,200	-
	Oil Type		FW68D (PVE)	-
	Oil Charge	cc	1,300	
Heat Exchanger	Type		-	Wide Louvar Plus
Fan	Type		-	Sirocco Fan
	Motor Output x Number	W x No.	-	400 x 2
	Air Flow Rate (Rated)	m³/min x No.	-	60
External Static Pressure	Nominal (Rated, Factory Set)	mmAq (Pa)	-	3 (29)
	Max.	mmAq (Pa)	-	16 (157)
Pipe Connection	Liquid	mm (inch)	Ø9.52 (3/8) to IDU	Ø12.7 (1/2) to Comp. Module
	Gas	mm (inch)	Ø15.88 (5/8) to IDU	Ø19.05 (3/4) to Comp. Module
	Drain	mm (inch)	-	25(1)
Sound Pressure Level	Cooling (Rated)	dB(A)	45	45
	Heating (Rated)	dB(A)	45	45
Sound Power Level		dB(A)	-	-
Communication Cable		mm² x No. (MCTF-SB)	2C x 1.0 ~ 1.5 to IDU	2C x 1.0 ~ 1.5 to Comp. Module
Refrigerant	Refrigerant Name		R410A	R410A
	Precharged Amount	kg	2.0	-
	t-CO₂eq		4.175	-
	Control		-	Electronic Expansion Valve
Power Supply		V, Ø, Hz	380-415 , 3 , 50	220-240, 1, 50

※ O : Applied, - : Not Applied

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

Highlight

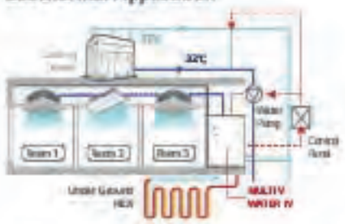
- Water Cooled VRF Heat Pump & Heat Recovery
- 22.4 ~ 201.6kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Outdoor unit installed indoor

Energy savings	Space savings	Convenient installation

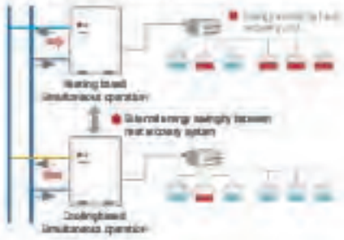
How does it work?

Operation independent of weather conditions

Geothermal Application



Available in Heat Pump & Heat Recovery Configuration



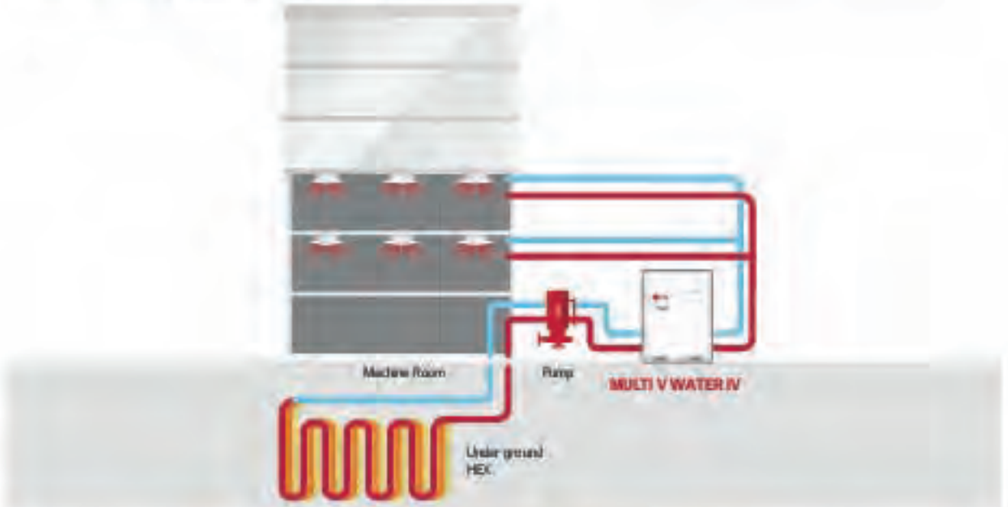
High Efficiency System Regardless of External Conditions

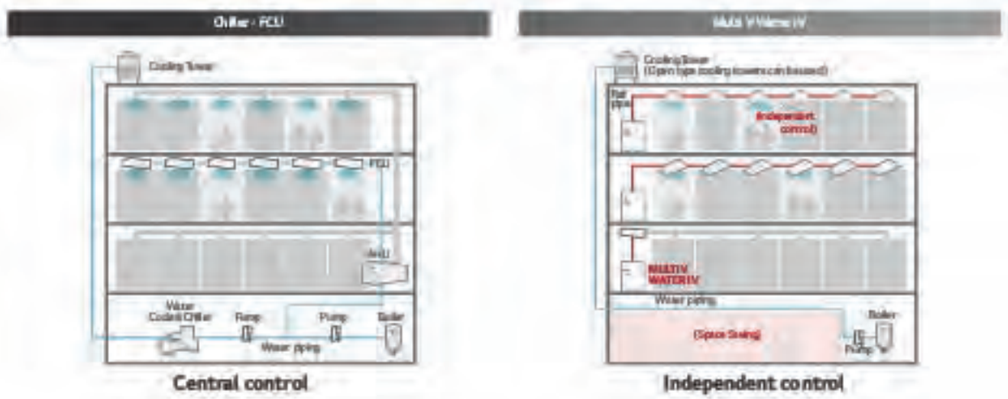
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.

MULTI V WATER IV System for Geothermal Applications

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

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

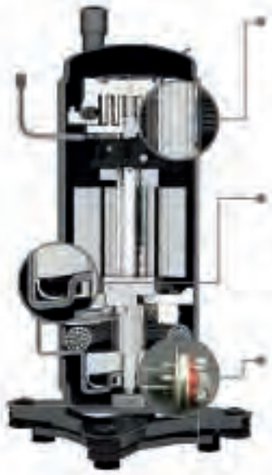




Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

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



Extended Compressor Speed 20Hz ~ 140Hz

- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency

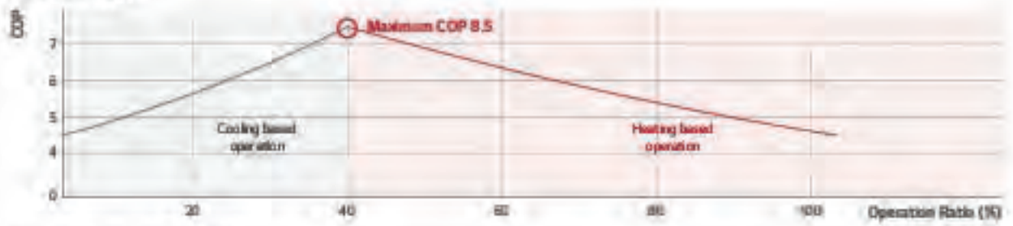
HiPOR™ (High Pressure Oil Return)

- Eliminating loss in suction gas by returning oil directly to compressor
- Resolve compressor efficiency loss caused by oil return

Active oil control (Oil level sensor)

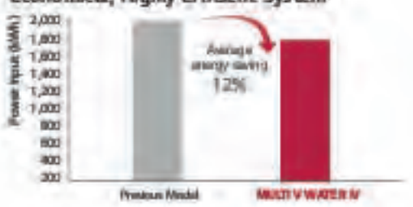
- Oil recovery operation occurs only when required
- Enhanced compressor reliability & continuous heating
- Oil distribution between compressors

Maximum COP

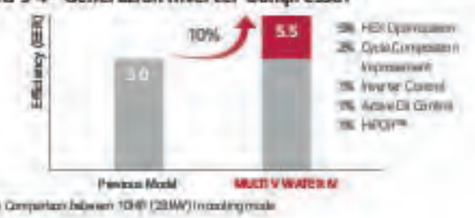


※ Outdoor unit: water inlet temperature: 7℃
※ Indoor temperature: 27℃ DB / 19℃ WB
※ Maximum COP Condition: Cooling 40% + Heating 60% operation

Economical, Highly Efficient System

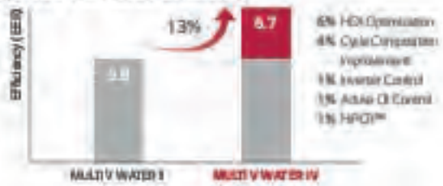


LG's 4th Generation Inverter Compressor



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

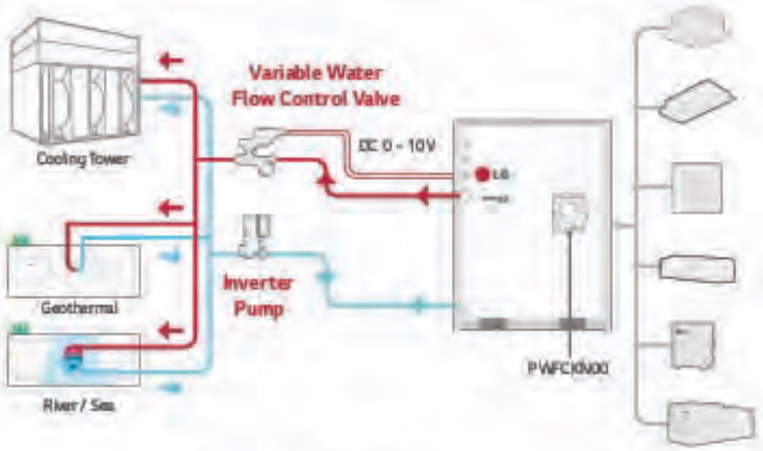
Integrated Part Load Efficiency

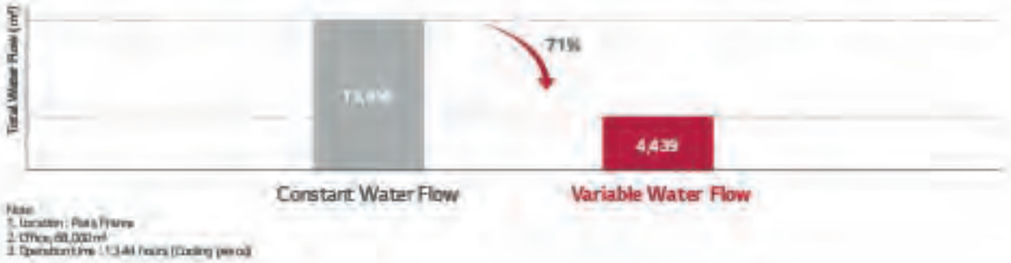


Variable Water Flow Control
(OPTION)

In support of green building initiatives

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



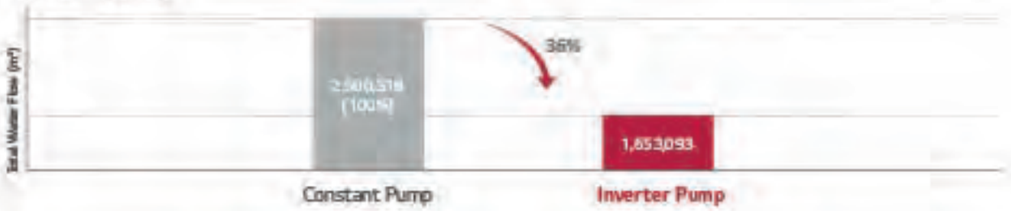


Note
1. Location : Paris, France
2. Office, 68,000㎡
3. Operation time : 1,344 hours (Cooling period)

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

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

10 years energy cost ($)



Unit	5 years		10 years	
	Energy Use (kWh)	Pump Running Cost ($)	Energy Use (kWh)	Pump Running Cost ($)
Constant pump	7,932,040	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 : 0.135₩/Wh
- Annual power consumption rate expected to increase by 5%

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 for various buildings

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.

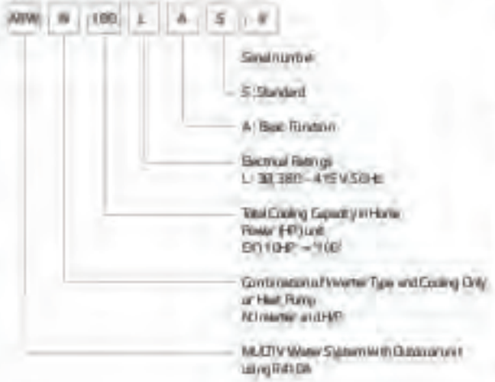
Lightweight

Nothing or Decrease additional load reinforcement work at building

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

※ Based on 28kW

Nomenclature



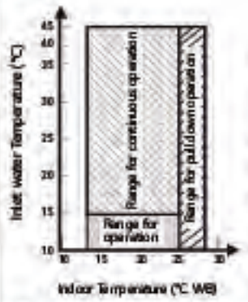
Outdoor Units Function

Category	Functions	Multi V Water IV
Key Refrigerant Components	Variable Path of Outdoor unit HEX	-
	HiPOR™ (High Pressure Oil Return)	O
	Humidity Sensor	-
	Corrosion Resistance Black Fin	-
	Oil Sensor	O
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	-
Reliability	Defrost / Deicing	-
	High Pressure Switch	O
	Phase Protection	O
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
Central Controller	AC Ez (Simple Controller)	PQCSZ2S0S0
	AC Ez Touch	PACE2A000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PQCPC33A0
	ACP (Advanced Control Platform) 5	PACPSA000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP Lonworks	PUNWB30D0
	ACP BACnet	PQNRB17C0
Installation	Refrigerant Charging Kit	-
	Variable Water Flow Valve Control Kit	PWFDN0000
PDI (Power Distribution Indicator)	Standard	PPWRD8000
	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Low Ambient Kit		-
IO Module (ODU Dry Contact)		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTLG
	Mobile LGMV	PUGMWW100

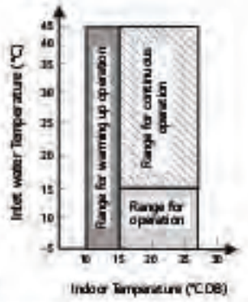
※ O : Applied - : Not Applied

Operation Limits

Cooling

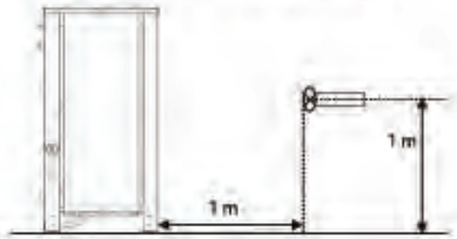


Heating



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

Position of Sound Pressure Level Measuring



Note
1. Data is valid in 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 it is installed
4. Sound level can be measured in static pressure mode or in quiet application

Optional Accessories

No.	Name	Model
1	Y branch pipe	ARBLN01620
		ARBLN03320
		ARBLN07120
		ARBLN14520
		ARBLN23320
2	Header	ARBL054
		ARBL057
		ARBL104
		ARBL107
		ARBL3010
		ARBL3016
3	Connection pipe of Outdoor Units	ARCNN22
		ARCNN33
		ARCNN40

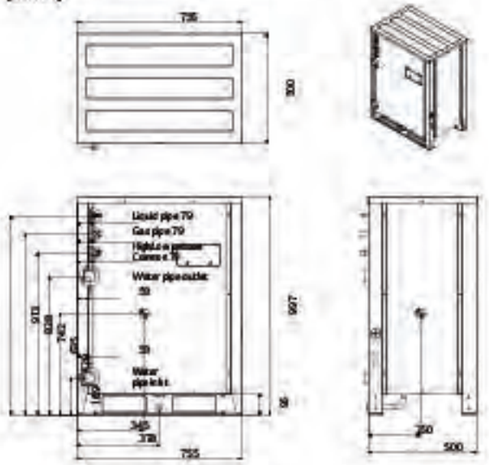
Multi V Water IV Heating Dissipation Value by Model

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

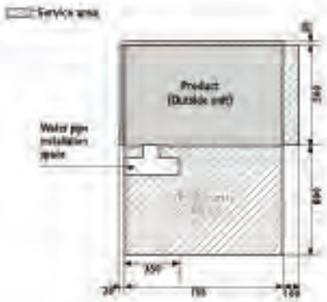
Test condition : Indoor air temperature (DB 4.0℃, WB : 3.2℃
※ A dedicated space should be considered for ventilation system in mechanical room

ARWN080LAS4 / ARWN100LAS4
ARWN140LAS4 / ARWN200LAS4

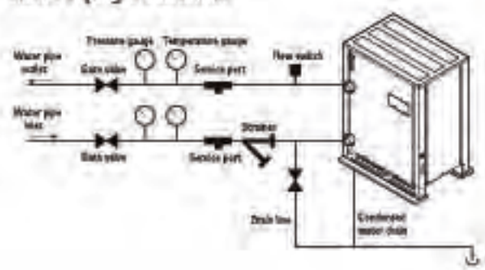
(Unit : mm)



Individual Installation



Water Piping Installation



Precaution of Installation

1. Do not install the unit at the outdoors. (Installation of the unit outdoors could result in fire or electric shock.) Recommended ambient temperature of outdoor unit is between 0 ~ 40℃.
2. Keep the water temperature between 10 ~ 45℃. Standard water supply temperature is 30℃ for cooling and 20℃ 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. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product Data Book).
5. The water pressure resistance of the water pipe system of this product is 1.96MPa.
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 drain the heat exchanger at the each end of the water inlet and outlet.
10. It is mandatory 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.

Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application.

Site Information

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

LG Solution

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

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1	4,200 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	2,800	2,800	2,800
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
Water Connecting Pipes	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure Level	Cooling	dB(A)	47	50	58
	Heating	dB(A)	51	53	57
Sound Power Level	Cooling	dB(A)	59	62	70
	Heating	dB(A)	63	65	69
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	5.8	5.8	5.8
	t-CO₂eq		12.108	12.108	12.108
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			13 (20)	16 (25)	23 (35)

Note
1. Maximum numbers are prepared based on assumption that all 22 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor unit's combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
   - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp 20°C (68°F)
   - Interconnected Pipe Length is 7.5 m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation room by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases: R410A, GWP (Global warming potential) = 2,087.5
6. Add anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN200LAS4 / ARWN160LAS4
ARWN180LAS4

HP			20	16	18
Model Name	Combination Unit		ARWN200LAS4	ARWN160LAS4	ARWN180LAS4
	Independent Unit		ARWN200LAS4	ARWN080LAS4 ARWN080LAS4	ARWN100LAS4 ARWN080LAS4
Capacity	Cooling (Rated)	kW	56.0	44.8	50.4
	Heating (Rated)	kW	63.0	50.4	56.7
Input	Cooling (Rated)	kW	11.20	7.72	8.95
	Heating (Rated)	kW	11.67	8.40	9.54
EER			5.00	5.80	5.63
COP	Rated Capacity		5.40	6.00	5.94
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No	5,300 x 1	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	3,000	5,600	5,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (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)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x D) - Shipping		mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	140 x 1	127 x 2	127 x 2
Shipping Weight		kg x No.	150 x 1	137 x 2	137 x 2
Sound Pressure Level	Cooling	dB(A)	54	50	52
	Heating	dB(A)	60	54	55
Sound Power Level	Cooling	dB(A)	68	62	64
	Heating	dB(A)	72	66	67
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.0	11.6	11.6
	ton CO_2eq		6.263	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			32 (50)	26 (40)	29 (45)

Note
1. Maximum numbers are prepared based on assumption that all 2.3 kW indoor units are connected. The numbers in parenthesis means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions:
   - Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)
   - Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and a Difference of Elevation (Outdoor ~ Indoor Unit) is 0m
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

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	86.1
Input	Cooling (Rated)	kW	11.30	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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	4,200 x 2	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	5,600	5,600	5,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	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	59	59
	Heating	dB(A)	58	58	58
Sound Power Level	Cooling	dB(A)	70	71	72
	Heating	dB(A)	70	70	71
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
	ton CO_2eq		24.215	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			35 (44)	39 (46)	45 (56)

Note
1. Maximum numbers are prepared based on assumption that all 2.3 kW indoor units are connected. The numbers in parenthesis means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions:
   - Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)
   - Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and a Difference of Elevation (Outdoor ~ Indoor Unit) is 0m
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL7044 / RAL7030	RAL7044 / RAL7030	RAL7044 / RAL7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
	Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	5,800	5,800	6,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	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	59	55
	Heating	dB(A)	61	61	61
Sound Power Level	Cooling	dB(A)	67	72	68
	Heating	dB(A)	73	74	74
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	8.8	8.8	8.0
	tCO₂eq		18.370	18.370	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			49 (60)	55 (64)	64

Note
1. Maximum numbers are prepared based on assumption that all 22kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp.30°C (86°F)
   - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 16°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL7044 / RAL7030	RAL7044 / RAL7030	RAL7044 / RAL7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	8,600	8,600	8,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	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	60	60
	Heating	dB(A)	62	63	63
Sound Power Level	Cooling	dB(A)	72	72	74
	Heating	dB(A)	74	74	76
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.6	14.6	14.6
	tCO₂eq		30.478	30.478	30.478
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

Note
1. Maximum numbers are prepared based on assumption that all 22.5kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp.30°C (86°F)
   - Heating : Indoor temp 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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	33.80
	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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 135	192 + 192 + 192
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 3	Hermetically Sealed Scroll (Inverter) x 3	Hermetically Sealed Scroll (Inverter) x 3
	Combination x No.				
	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
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	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	60	56
	Heating	dB(A)	63	62	63
Sound Power Level	Cooling	dB(A)	70	74	70
	Heating	dB(A)	73	76	76
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.8	11.8	9.0
	tCO2eq		24.633	24.633	18.788
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun Connectable Indoor Units			64	64	64

Note
1. Maximum numbers are prepared based on assumption that all 23kW indoor units are connected. The numbers in parenthesis means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
   - Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 37-45 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 96	192 + 192 + 135 + 135
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4
	Combination x No.				
	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
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
Water Connecting Pipes	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (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	61	61
	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
	Heating	dB(A)	76	76	77
Communication Cable		mm² x No. (VCTF-SB)	1.0 + 1.5 x 2C	1.0 + 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	17.6	17.6	17.6
	tCO2eq		36.740	36.740	36.740
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun Connectable Indoor Units			64	64	64

Note
1. Maximum numbers are prepared based on assumption that all 23kW indoor units are connected. The numbers in parenthesis means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
   - Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
   - Interconnected Pipe length is 7.5 m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 192 + 98	192 + 192 + 192 + 135	192 + 192 + 192 + 192
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Motor Output x Number	W x No.	5,300 x 3 + 4,200 x 1	5,300 x 3 + 4,200 x 1	5,300 x 4
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	11,800	11,800	12,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Water Connecting Pipes	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (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	61	57
	Heating	dB(A)	61	63	63
Sound Power Level	Cooling	dB(A)	71	75	71
	Heating	dB(A)	77	77	77
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.8	14.8	12.0
	t-CO₂eq		30.895	30.895	25.050
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units[1]			64	64	64

Note
1. Maximum numbers are prepared based on assumption that all 22kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)
   - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the wind condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 16°C (30°F), and change the DIP switch on main PCB. (For more information on installation section.)

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	4.28	5.34	8.17
EER			5.80	5.50	5.00
COP	Rated Capacity		6.00	5.90	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1	4,200 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	2,800	2,800	2,800
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure Level	Cooling	dB(A)	47	50	58
	Heating	dB(A)	51	53	57
Sound Power Level	Cooling	dB(A)	59	62	70
	Heating	dB(A)	63	66	69
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	5.8	5.8	5.8
	t-CO₂eq		12.108	12.108	12.108
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units[1]			13 (20)	16 (25)	23 (35)

Note
1. Maximum numbers are prepared based on assumption that all 22.4kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F)
   - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the wind condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1	10.7 + 10.7	15.6 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	4,200 x 2	4,200 x 2
	Oil Type		PVE68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	cc	3,000	5,600	5,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Water Connecting Pipes	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x D)		mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x D) - Shipping		mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	140 x 1	127 x 2	127 x 2
Shipping Weight		kg x No.	150 x 1	137 x 2	137 x 2
Sound Pressure Level	Cooling	dB(A)	54	50	53
	Heating	dB(A)	60	54	55
Sound Power Level	Cooling	dB(A)	86	82	84
	Heating	dB(A)	72	86	87
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.0	11.6	11.6
	ton-CO₂eq		6.263	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun Connectable Indoor Units			32(50)	29(40)	29(45)

Note
1. Maximum numbers are prepared based on assumption that all 23kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
   - Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.8 + 28.8
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	4,200 x 2	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	5,600	5,600	5,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (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	59	59
	Heating	dB(A)	58	58	58
Sound Power Level	Cooling	dB(A)	70	71	71
	Heating	dB(A)	70	70	71
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.6	11.6	11.6
	ton-CO₂eq		24.215	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun Connectable Indoor Units			35 (44)	39 (48)	43 (56)

Note
1. Maximum numbers are prepared based on assumption that all 23kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
   - Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti-freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
	Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	5,800	5,800	6,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (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 (PT1-1/2) (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 (PT1-1/2) (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	59	55
	Heating	dB(A)	61	61	61
Sound Power Level	Cooling	dB(A)	67	72	68
	Heating	dB(A)	73	78	74
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	9.8	9.8	8.0
	t-CO₂eq		18.370	18.370	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			49 (60)	53 (64)	64

Note
1. Maximum numbers are proposed based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor unit's combination (100% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling | Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp.30°C (86°F)
   - Heating | Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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	23.9	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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	8,600	8,600	8,600
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (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	60	60
	Heating	dB(A)	62	62	62
Sound Power Level	Cooling	dB(A)	72	72	74
	Heating	dB(A)	74	78	76
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO₂eq		30.478	30.478	30.478
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

Note
1. Maximum numbers are proposed based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (100% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions
   - Cooling | Indoor temp.27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp.30°C (86°F)
   - Heating | Indoor temp.20°C (68°F) DB, Water inlet temp.20°C (68°F)
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases (R410A, GWP (Global warming potential) = 2,087.5)
6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 98	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)
	Oil Charge	cc	8,800	8,800	9,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (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	60	58
	Heating	dB(A)	63	62	63
Sound Power Level	Cooling	dB(A)	70	74	70
	Heating	dB(A)	75	76	76
Communication Cable		mm² x No. (VCTF-SB)	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	11.8	11.8	9.0
	t-CO2eq		24.633	24.633	18.788
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

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

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	39.88
EER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 98	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
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)
Water Connecting Pipes	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (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	61	61
	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
	Heating	dB(A)	76	76	77
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	17.6	17.6	17.6
	t-CO2eq		36.740	36.740	36.740
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

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

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	198.0	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 / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning 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	kg/cm²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 192 + 98	192 + 192 + 192 + 135	192 + 192 + 192 + 192
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Motor Output x Number	W x No.	5,300 x 3 + 4,200 x 1	5,300 x 3 + 4,200 x 1	5,300 x 4
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	11,800	11,800	12,000
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)
Water Connecting Pipes	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (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	61	57
	Heating	dB(A)	65	63	63
Sound Power Level	Cooling	dB(A)	77	75	77
	Heating	dB(A)	77	77	77
Communication Cable		mm² x No. (VCTF-SB)	1.0 x 1.5 x 2C	1.0 x 1.5 x 2C	1.0 x 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in Factory	kg	14.8	16.8	17.0
	t-CO2eq		30.895	30.895	25.050
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units			64	64	64

Note
1. Maximum numbers are prepared based on assumption that all 2.2 kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor unit's combination (50.0% ~ 200%). The recommended ratio is 130%.
2. Due to our policy of innovation some specifications may be changed without notification.
3. Performances are based on the following conditions:
   - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp.30°C (86°F)
   - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
   - Interconnected Pipe Length: 7.5 m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation room by ISO 3741 is standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. This product contains Fluorinated Greenhouse Gases. (R410A, GWP (Global warming potential) = 2087.5)
6. Add anti-freeze to circulation water when outdoor unit is operating under 15°C (59°F), and change the DIP switch on main PCB. (For more information on installation section.)

NOTE

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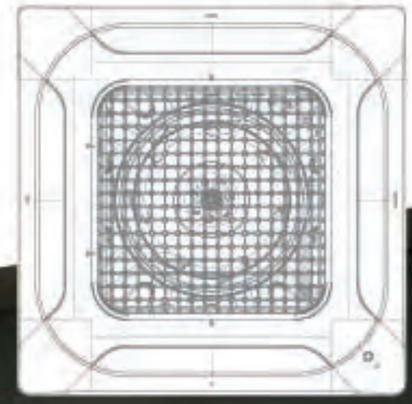
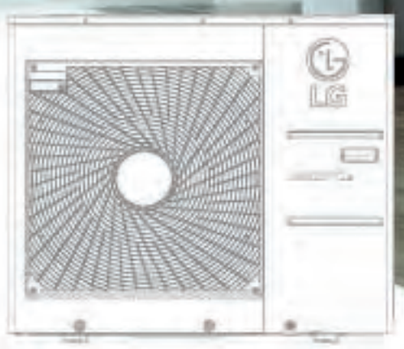
INDOOR UNITS

WALL MOUNTED / CEILING MOUNTED CASSETTE / CEILING MOUNTED ROUND CASSETTE /
CEILING CONCEALED DUCT / FRESH AIR INTAKE / CEILING & FLOOR CONVERTIBLE /
CEILING SUSPENDED / CONSOLE & FLOOR STANDING / COMPATIBILITY / FEATURE FUNCTIONS





Features & Benefits

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

Key Applications

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

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

※ O: Applied, - : Not applied

Wi-Fi Control

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

ThinQ

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

Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.

Easy Registration and Log-in

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

Simple operation for various functions

On / Off, Current Temp | Mode, Set Temp | View Control

Straight forward Management

Energy Monitoring | Smart Diagnosis | Filter Management | Reservation

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

Wi-Fi Control

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

ThinQ

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

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

Wi-Fi Connectivity

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

Multiple Devices

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

Multi-Control

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

Ionizer PLUS

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

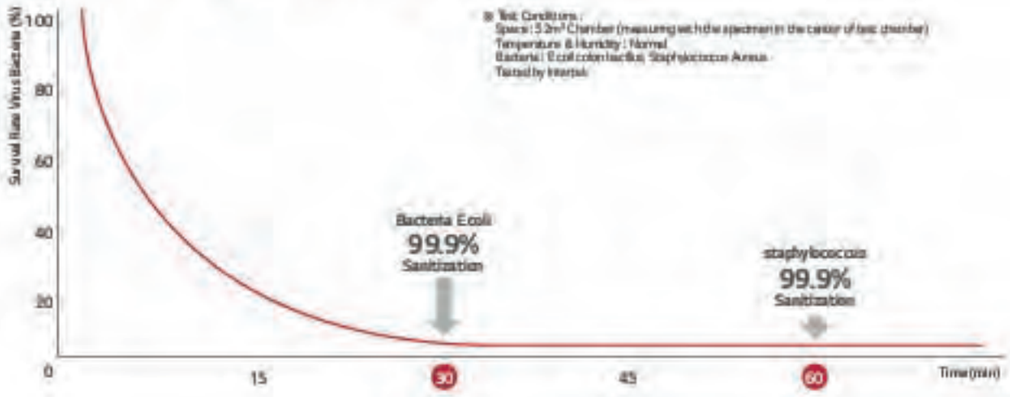
※ Specifications may vary for each model.
※ Depending on the experimental conditions.

Reduction and Deodorization (Utilizes Over 3 Million Ions)

Ionizer+ reduces E.coli and Staphylococcus in the surface with over 3 million ions.

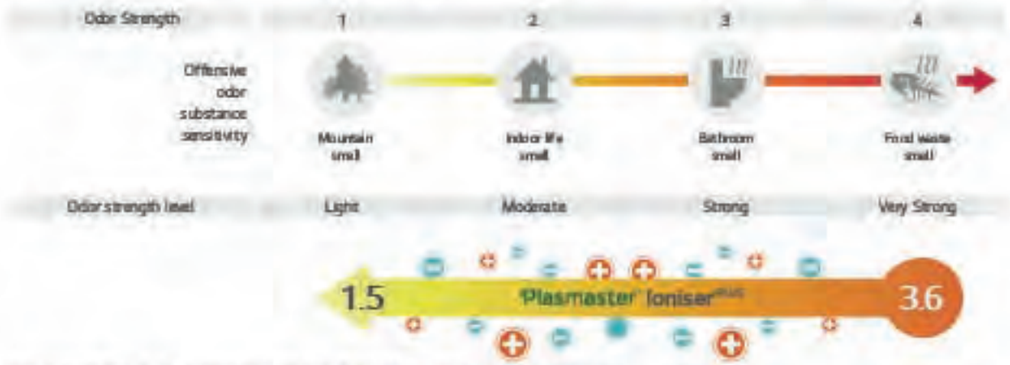
Reduction Performance Evaluations

Reduce Bacteria E.coli over 99.9% in 30 min. and staphylococcus over 99.8% in 60min



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.



Odor strength reduce 3.6 ⇒ 1.5 / The Odor floating in the room as well as curtain and clothes

※ Test conditions : Space 8m³ Chamber
Temperature & Humidity : Normal
Tested by Intertek

Auto Cleaning

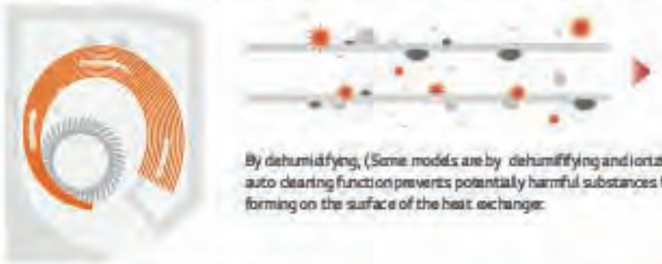
The unit has a self-cleaning function that dries the heat exchanger before cleaning the interior.

Pain Point

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

Cleans Filter with Regular Airflow

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



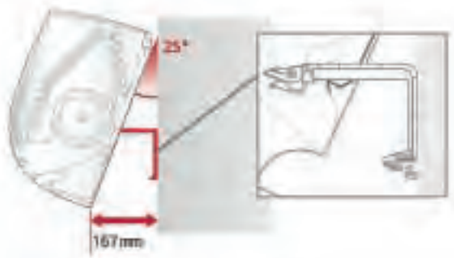
By dehumidifying, (Some models are by dehumidifying and ionizing), the auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.

The indoor environment remains odorless with the advanced deodorizing function.

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

Installation Support Clip

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



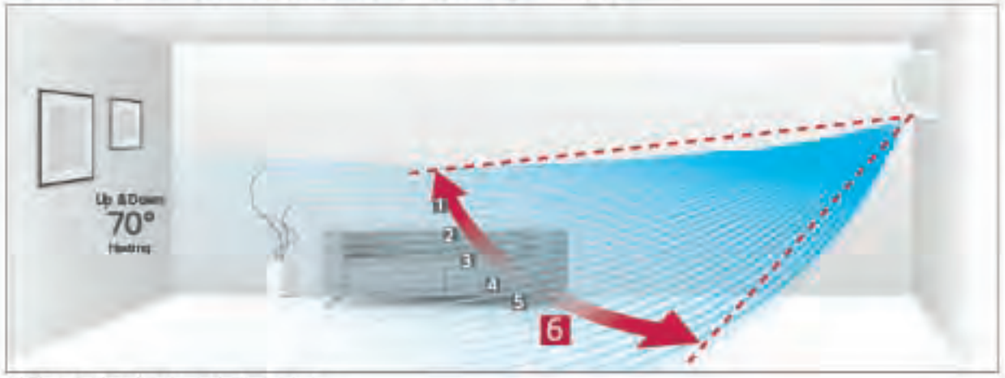
Auto Swing

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

※ Specifications may vary for each model.

6-Step Vane Control up to 70°

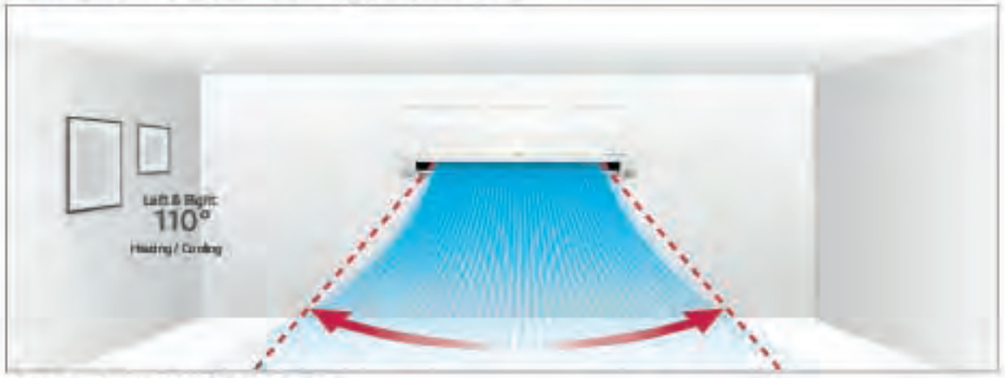
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control up to 110°

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



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

Easy and Simple Control

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

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

Up / Down Swing

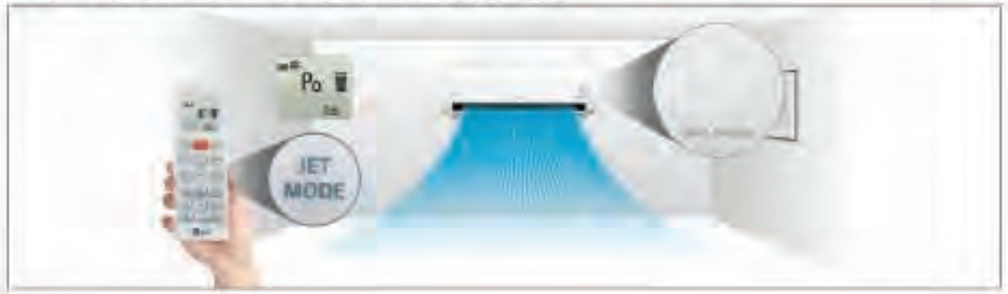
Jet Cool

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

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

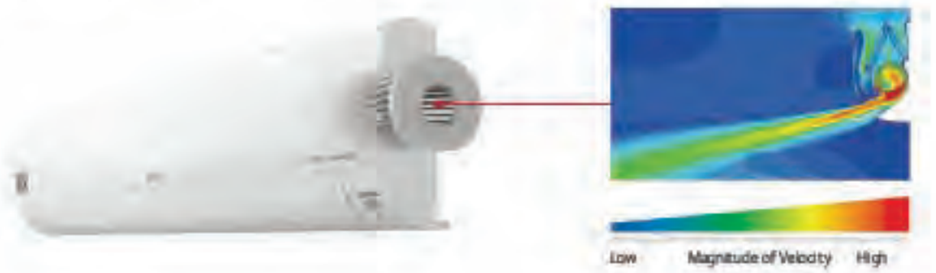
One Click "Jet Mode"

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



More Powerful Performance

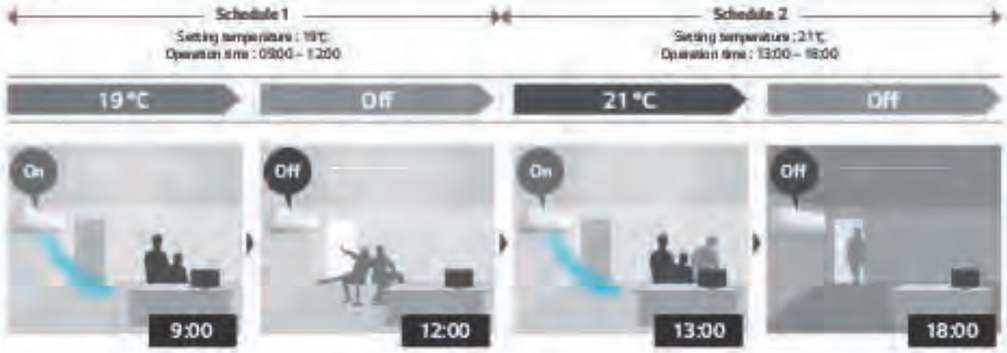
By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of air flow is increased to 13 CMM.



Scheduled Operation

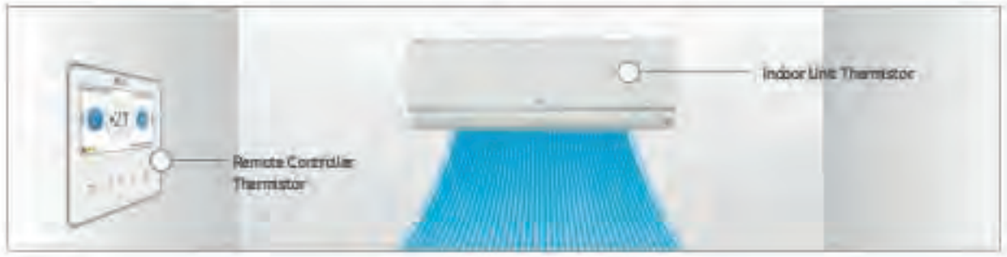
You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user.

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



Two Thermistors Control

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



Group Control

Group control by remote controller (PREMTB100 /PREMTB810) has more functions than previous model.

ARNU05GSJR4 / ARNU07GSJR4
ARNU09GSJR4 / ARNU12GSJR4
ARNU15GSJR4

MODEL		UNIT	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Exterior Color			Mirror (Black)	Mirror (Black)	Mirror (Black)	Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005	RAL 9005	RAL 9005	RAL 9005
Dimensions (W x H x D)	Body	mm	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192
	Shipping	mm	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight:	Body	kg	9.2	9.2	9.2	9.2	9.2
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	46 / 45 / 42	48 / 46 / 43	51 / 48 / 45	55 / 52 / 44
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
   - Cooling : Indoor temp. 27°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	PRLDNVS0				
EEV Kit	PRGK024A0				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	O				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	O				
Wi-Fi	O				

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

ARNU18GSKR4 / ARNU24GSKR4

MODEL		UNIT	ARNU18GSKR4	ARNU24GSKR4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Color			Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005
Dimensions (W x H x D)	Body	mm	998 x 345 x 212	998 x 345 x 212
	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	14.0 / 12.0 / 10.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight:	Body	kg	13.4	13.4
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	59 / 56 / 52	63 / 58 / 52
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
   - Cooling : Indoor temp. 27°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	PRLDNVS0	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PNPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	O	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	O	

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

ARNU07GSF14 / ARNU09GSF14
ARNU12GSF14

MODEL		UNIT	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12
Dimensions (W x H x D)	Body	mm	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
	Shipping	mm	685 x 670 x 215	685 x 670 x 215	685 x 670 x 215
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12.2 (15/32)	Ø12.2 (15/32)	Ø12.2 (15/32)
Weight	Body	kg	15.4	15.4	15.4
Sound Pressure Levels (H / M / L)		dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 48 / 42
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	PRGK024A0		
Multi-tenant Power Module	PNPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	O		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	O		
Wi-Fi	PWFMDD200[1]		

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

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

MODEL		UNIT	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Exterior Color			White	White	White	White	White
RAL Code			RAL 9016	RAL 9016	RAL 9016	RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189
	Shipping	mm	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	8.4	8.4	8.4	8.4	8.4
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	46 / 45 / 42	48 / 46 / 43	51 / 48 / 45	55 / 52 / 45
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

*) : 4 or 5 can be applied, which has slightly different shape of panel.
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit	PRGK024A0				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	O				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	O				
Wi-Fi	O				

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

ARNU18GSK*4 / ARNU24GSK*4

MODEL		UNIT	ARNU18GSK*4	ARNU24GSK*4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Color			White	White
RAL Code			RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	975 x 354 x 209	975 x 354 x 209
	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	12.2	12.2
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	59 / 56 / 52	63 / 56 / 52
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

CHASSIS	ARNU18GSK*4	ARNU24GSK*4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PREV024A0	
Multi-tenant Power Module	PMPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	O	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (With additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	O	

※ O : 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 285	1,190 x 346 x 285
	Shipping	mm	1,265 x 432 x 335	1,265 x 432 x 335
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	113 x 1	113 x 1
	Air Flow Rate (H / M / L)	m³/min	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	16.6	16.6
Sound Pressure Levels (H / M / L)		dB(A)	49 / 44 / 42	52 / 47 / 43
Sound Power Levels (H / M / L)		dB(A)	60 / 60 / 56	63 / 60 / 58
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

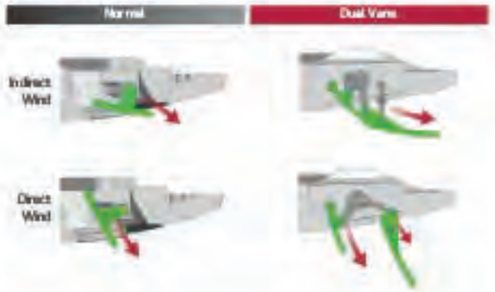
CHASSIS	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Multi-tenant Power Module	PMPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (With additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWRM00200[1]	

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

4 Way Air Flow with New Design

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

***New types wind**



***6 Airflows mode**

Brighter Color

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

Features & Benefits

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

Key Applications

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

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

※ O:Applied, -:Not applied

Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.

Full 3D Turbo Fan

Full 3D Turbo fan decreases air resistance, so it creates high efficiency and reduces noise level.

High Efficiency Heat Exchanger (HEX)

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

Tube Column	12 Column
Fin per Inch	21

Tube Column	18 Column
Fin per Inch	22

Ceiling to Floor Temperature Sensing

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

Human-detection Air Flow

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

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

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

Human Detection for Optimized Efficiency

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

※ Smart Dual Vane Indoor Unit 119 Line up.
※ Data Based on actual test of LG, single product. 2 hours measurement result. (Cooling 28℃, strong wind)

High-performance Air Cleaning

Air cleaning function provides fresh, filtered air.

Convenient & Powerful 5-Step Air Purification

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

Air Purification kit

Air Purification panel

Cycle Management

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

Air Quality Level Display

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

① IDU LED

Real-time indoor air quality level displayed on indoor unit

② Remote controller

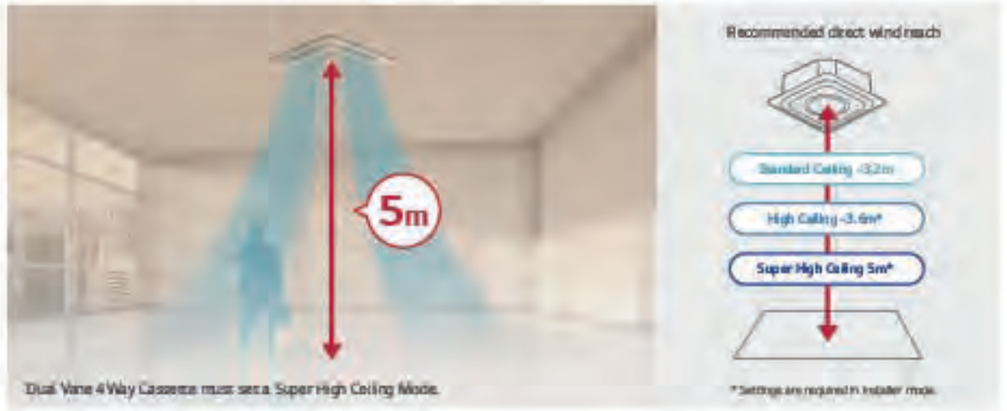
Air quality level displayed on remote controller

③ Mobile

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

Direct Wind

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



Dual Vane 4 Way Cassette must set a 'Super High Ceiling Mode.

* Settings are required in installer mode.

ThinQ Connectivity

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

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

① Monitoring Air status : Easy to check indoor air status
- Ultra Fine / Extra Fine / Fine Dust
- Day / Week /Month / Yearly

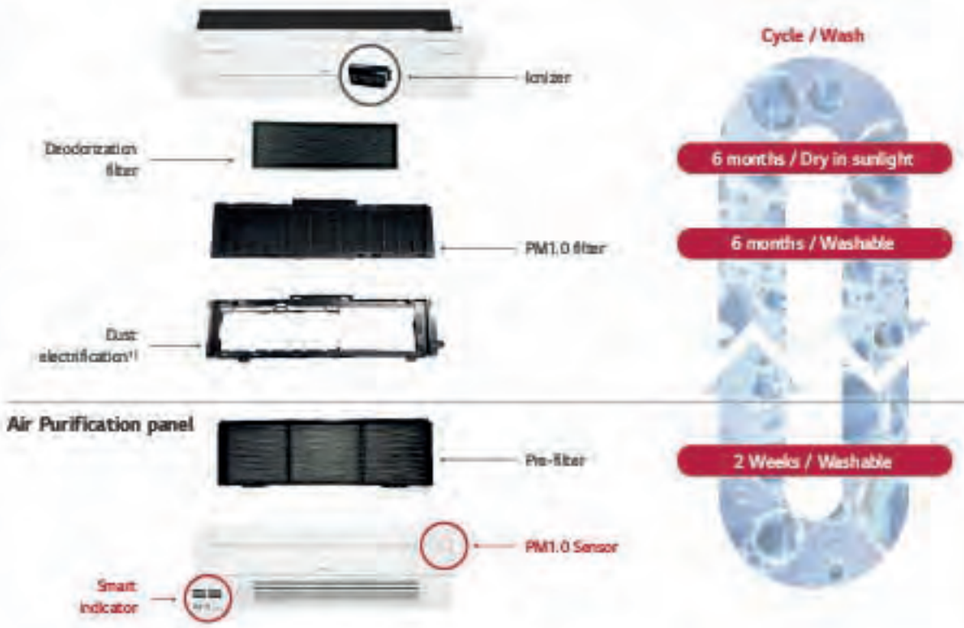
② Mobile Remote Control : Remote control by using mobile phone
- Control Mode / Temperature / Air flow etc

③ Display Power Consumption : Check power consumption of A/C
- Check energy display
- Set target energy consumption level

Easy Filter Cleaning for Air Purification

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

Air Purification kit



Air Purification panel

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

Direct & Indirect Wind

Provides users with direct or indirect air flow preferences.

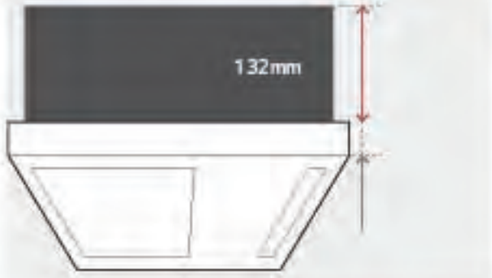
Comfort indirect wind

Without touching the skin directly, a large space is comfortable!

Cooler on a hot day.

Minimized Height (1 Way)

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



Size Comparison

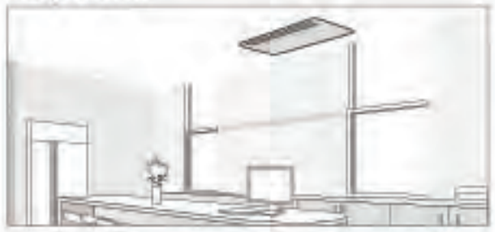
(Unit : mm)

	A Company	B company	LG
1 Way Cassette	215	230	132

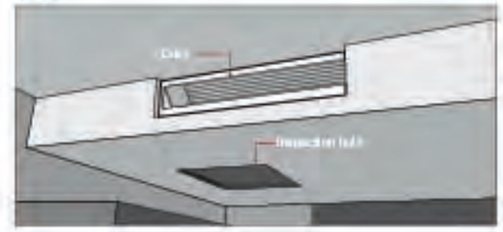
Flexible Installation (1 Way)

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

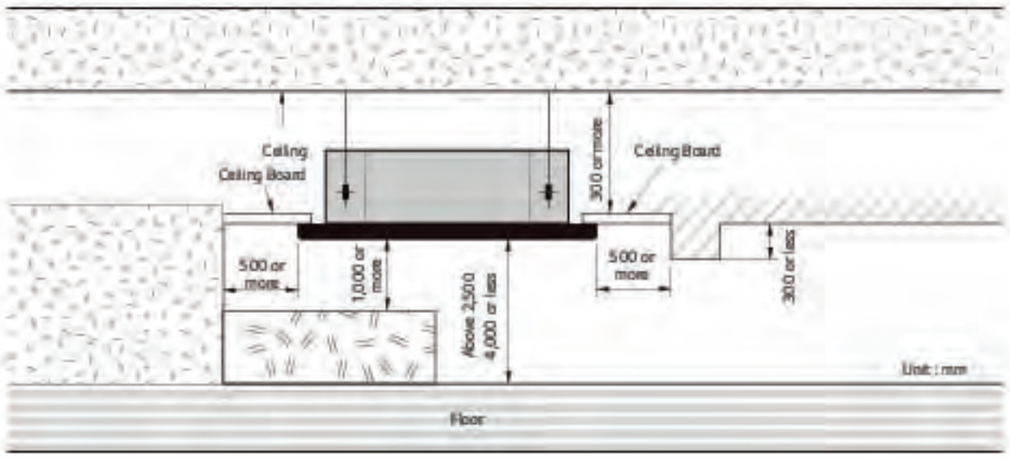
1 Way cassette



Duct



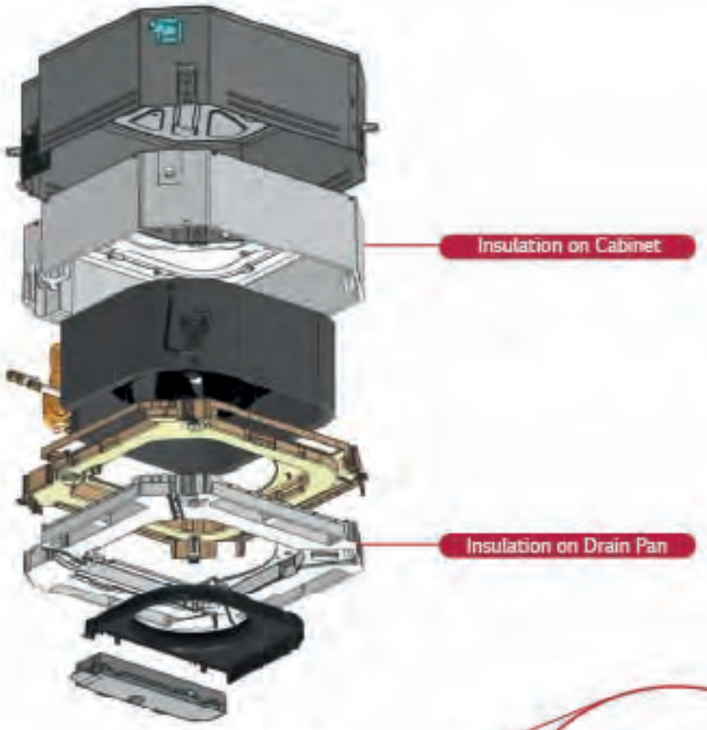
Installation Standard (1 Way)

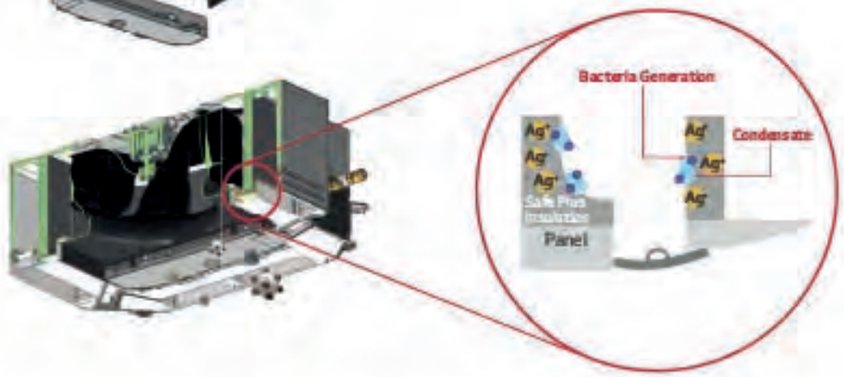


Safe Plus Insulation

Why LG Safe Plus Insulation?

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





What's the hygiene inside of your air conditioner?

Example of EPS Pollution case.

Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, What's the hygiene inside the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

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

EPS for Resistant to Bacterial Growth applied product

ARNU24GTBB4 / ARNU28GTBB4 ARNU30GTBB4

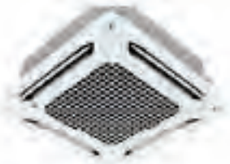
MODEL		UNIT	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Cooling Capacity		kW	7.1	8.2	9.0
Heating Capacity		kW	8.0	9.2	10.0
Power Input (H / M / L)	Nominal	W	32 / 27 / 20	37 / 30 / 22	48 / 36 / 25
Dimensions (W x H x D)	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W	51 x 1	51 x 1	51 x 1
	Air Flow Rate (H / M / L)	m³/min	18 / 17 / 15	19 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	21	21	23
Sound Pressure Level (H / M / L)		dB(A)	39 / 37 / 35	40 / 38 / 35	43 / 40 / 36
Sound Power Level (H / M / L)		dB(A)	46 / 44 / 42	50 / 46 / 43	53 / 50 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5 x 3	1.0 ~ 1.5 x 3	1.0 ~ 1.5 x 3
Decoration Panel (Accessory)	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
	Exterior Color		White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Drain Pump	○		
Cassette Cover	PTDCM		
Refrigerant Leakage Detector	PRLDNW50		
EEV Kit	-		
Multi-tenant Power Module	PNPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	PTVSAA0		
Floor Temperature Sensor	○ (only with PT-AFGW0)		
Air Purification Kit	PTAFMP0 (PT-AFGW0 panel required)		
Elevation Grille	-		

ARNU36GTAB4 / ARNU42GTAB4 ARNU48GTAB4



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

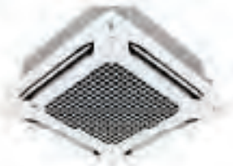
Note : 1. Performance tested under EN14511.
2. Capacities are based on the following conditions:
- Cooling (Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length: 7.5m, Level difference of zero
- Heating (Indoor temp. 20°C (68°F)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

Accessories

CHASSIS	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Drain Pump	○		
Cassette Cover	PTDCM		
Refrigerant Leakage Detector	PRLDNW50		
EEV Kit	-		
Multi-tenant Power Module	PNPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	PTVSAA0		
Floor Temperature Sensor	○ (only with PT-AFGW0)		
Air Purification Kit	PTAFMP0 (PT-AFGW0 panel required)		
Elevation Grille	-		

High sensible

ARNU05GTAA4 / ARNU07GTAA4 / ARNU09GTAA4
ARNU12GTAA4 / ARNU15GTAA4 / ARNU18GTAA4



MODEL		UNIT	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5	5.6
Heating Capacity		kW	1.8	2.5	3.3	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	W	20 / 15 / 11	23 / 16 / 11	25 / 18 / 11	26 / 19 / 13	29 / 20 / 15	31 / 23 / 16
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W	166 x 1	166 x 1	166 x 1	166 x 1	166 x 1	166 x 1
	Running Current	A	0.21	0.23	0.25	0.25	0.27	0.28
	Air Flow Rate (H / M / L)	m³/min	18 / 15 / 13	19 / 16 / 13	19 / 16 / 13	20 / 17 / 15	20 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	26	27	27	27	27	27
Sound Pressure Level (H / M / L)		dB(A)	32 / 29 / 26	32 / 30 / 26	33 / 30 / 26	34 / 31 / 27	34 / 32 / 29	35 / 32 / 30
Sound Power Level (H / M / L)		dB(A)	40 / 37 / 36	41 / 38 / 36	42 / 39 / 36	42 / 40 / 37	43 / 40 / 38	44 / 41 / 38
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable (VCTF-S8)		mm² x cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
Decoration Panel (Accessory)	Model Name		PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-ARSWD
	Exterior Color		White	White	White	White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

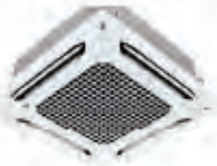
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of 0m
- Heating : Indoor temp. 20°C (68°F) 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 0m
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Drain Pump	O					
Cassette Cover	PTDCM					
Refrigerant Leakage Detector	PRLDNVS0					
EEV Kit	-					
Multi-tenant Power Module	PNPMB001					
Robot Cleaner	-					
Pre Filter (Washable)	O					
Ion Generator	-					
CO_2 Sensor	-					
Ventilation Kit	-					
IR Receiver	-					
Zone Controller	-					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 Point)	O					
Wi-Fi	PWFMD0200					
Human Detection Sensor	PTVSAA0					
Floor Temperature Sensor	O (only with PT-AFGW0)					
Air Purification Kit	PTAFMP0 (PT-AFGW0 panel required)					
Elevation Grille	-					

High sensible

ARNU24GTAA4 / ARNU28GTAA4 / ARNU36GTAA4
ARNU42GTAA4 / ARNU48GTAA4



MODEL		UNIT	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Cooling Capacity		kW	7.1	8.2	10.6	12.3	14.1
Heating Capacity		kW	8.0	9.2	11.9	13.8	15.9
Power Input (H / M / L)	Nominal	W	40 / 31 / 25	48 / 35 / 26	65 / 43 / 31	86 / 65 / 43	100 / 67 / 53
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan	Full 3D Turbo Fan
	Motor Output x Number	W	166 x 1	166 x 1	166 x 1	166 x 1	166 x 1
	Running Current	A	0.38	0.46	0.80	0.80	0.88
	Air Flow Rate (H / M / L)	m³/min	23 / 21 / 19	24 / 22 / 20	28 / 24 / 21	31 / 28 / 24	33 / 28 / 28
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	27	27	27	27	27
Sound Pressure Level (H / M / L)		dB(A)	39 / 36 / 33	40 / 37 / 34	42 / 39 / 35	46 / 42 / 39	47 / 43 / 41
Sound Power Level (H / M / L)		dB(A)	47 / 45 / 42	48 / 46 / 42	51 / 48 / 44	54 / 51 / 48	56 / 52 / 50
Power Supply		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 (VCTF-S8)		mm² x cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0-1.5 x 2	1.0 ~ 1.5 x 2
Decoration Panel (Accessory)	Model Name		PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-ARSWD	PT-AAGWD PT-AFGWD	PT-AAGWD PT-AFGWD
	Exterior Color		White	White	White	White	White
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27°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 0m
- 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 0m
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Drain Pump	O				
Cassette Cover	PTDCM				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit	-				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 Point)	O				
Wi-Fi	PWFMD0200				
Human Detection Sensor	PTVSAA0				
Floor Temperature Sensor	O (only with PT-AFGW0)				
Air Purification Kit	PTAFMP0 (PT-AFGW0 panel required)				
Elevation Grille	-				

ARNU05GTRB4 / ARNU07GTRB4
ARNU09GTRB4 / ARNU12GTRB4

MODEL		UNIT	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capacity		kW	1.6	2.2	2.8	3.6
Heating Capacity		kW	1.8	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13
Dimensions (W x H x D)	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27
Sound Power Levels (H / M / L)		dB(A)	47 / 46 / 45	47 / 46 / 45	48 / 46 / 45	51 / 48 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0
	Exterior Color		Morning Fog Morning Fog White	Morning Fog Morning Fog White	Morning Fog Morning Fog White	Morning Fog Morning Fog White
	RAL Code		RAL 9001 RAL 9001 RAL 9003	RAL 9001 RAL 9001 RAL 9003	RAL 9001 RAL 9001 RAL 9003	RAL 9001 RAL 9001 RAL 9003
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620
	Net Weight	kg	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9

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

Accessories

CHASSIS	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump	○			
Cassette Cover	PTDCQ			
Refrigerant Leakage Detector	PRLDNVS0			
EEV Kit	PRGK024A0 (-4.5kW)			
Multi-tenant Power Module	PNPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	PTVK430			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMB00200			

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

ARNU15GTQB4 / ARNU18GTQB4
ARNU21GTQB4

MODEL		UNIT	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Cooling Capacity		kW	4.5	5.6	6.0
Heating Capacity		kW	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
Dimensions (W x H x D)	Body	mm	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Shipping	mm	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	52 / 50 / 48	52 / 50 / 48	54 / 52 / 48
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0
	Exterior Color		Morning Fog Morning Fog White	Morning Fog Morning Fog White	Morning Fog Morning Fog White
	RAL Code		RAL 9001 RAL 9001 RAL 9003	RAL 9001 RAL 9001 RAL 9003	RAL 9001 RAL 9001 RAL 9003
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620
	Net Weight	kg	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9

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

Accessories

CHASSIS	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump	○		
Cassette Cover	PTDCQ		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	PRGK024A0 (-4.5kW)		
Multi-tenant Power Module	PNPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	PTVK430		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMB00200		

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

ARNU09GTSC4 / ARNU12GTSC4

MODEL		UNIT	ARNU09GTSC4	ARNU12GTSC4
Cooling Capacity		kW	2.8	3.6
Heating Capacity		kW	3.2	4.0
Power Input (H / M / L)	Nominal	W	16 / 14 / 11	18 / 14 / 11
Dimensions (W x H x D)	Body	mm	830 x 225 x 800	830 x 225 x 800
	Shipping	mm	1,055 x 290 x 682	1,055 x 290 x 682
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m³/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressure Levels (H / M / L)		dB(A)	33 / 31 / 29	34 / 32 / 29
Sound Power Levels (H / M / L)		dB(A)	44 / 41 / 40	44 / 42 / 40
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm²	1.0 - 1.5 × 2C	1.0 - 1.5 × 2C
Decoration Panel (Accessory)	Model Name		PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	4.7

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

Accessories

CHASSIS	ARNU09GTSC4	ARNU12GTSC4
Drain Pump	O	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRSK024A0 (-5.6kW)	
Multi-tenant Power Module	PNPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRICB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMDD200	

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

ARNU18GTSC4 / ARNU24GTSC4

MODEL		UNIT	ARNU18GTSC4	ARNU24GTSC4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	8.0
Power Input (H / M / L)	Nominal	W	19 / 16 / 14	31 / 22 / 14
Dimensions (W x H x D)	Body	mm	830 x 225 x 800	830 x 225 x 800
	Shipping	mm	1,055 x 290 x 682	1,055 x 290 x 682
Fan	Type		Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m³/min	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)		dB(A)	45 / 44 / 41	51 / 48 / 42
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication Cable		mm²	1.0 - 1.5 × 2C	1.0 - 1.5 × 2C
Decoration Panel (Accessory)	Model Name		PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	4.7

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

Accessories

Chassis	ARNU18GTSC4	ARNU24GTSC4
Drain Pump	O	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRSK024A0 (-5.6kW)	
Multi-tenant Power Module	PNPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRICB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMDD200	

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

ARNU07GTUB4 / ARNU09GTUB4 ARNU12GTUB4

MODEL		UNIT	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	32 / 20 / 18	24 / 22 / 20
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450
	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.2	12.2	12.2
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32
Sound Power Levels (H / M / L)		dB(A)	47 / 44 / 41	51 / 49 / 47	52 / 51 / 47
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UAHG0, PT-UAHW0, PT-UPHG0	PT-UAHG0, PT-UAHW0, PT-UPHG0	PT-UAHG0, PT-UAHW0, PT-UPHG0
	Exterior Color		Noble White	Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,160 x 34 x 500 1,100 x 34 x 500 1,160 x 34 x 500	1,160 x 34 x 500 1,100 x 34 x 500 1,160 x 34 x 500	1,160 x 34 x 500 1,100 x 34 x 500 1,160 x 34 x 500
	Net Weight	kg	3.9 / 3.3 / 4.1	3.9 / 3.3 / 4.1	3.9 / 3.3 / 4.1

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

Accessories

CHASSIS	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Drain Pump		O	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		PRGK024A0	
Multi-tenant Power Module		RNPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		O	
Ion Generator		-	
CO_2 Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		O	
Air Cleaning Kit		PTAHTP0	
Wi-fi		PWFMDD200	

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

ARNU18GTTB4 / ARNU24GTTB4

MODEL		UNIT	ARNU18GTTB4	ARNU24GTTB4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.1
Power Input (H / M / L)	Nominal	W	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	1,180 x 132 x 450	1,180 x 132 x 450
	Shipping	mm	1,499 x 259 x 538	1,499 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	15.6	15.6
Sound Pressure Levels (H / M / L)		dB(A)	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB(A)	55 / 51 / 47	58 / 53 / 49
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-TAHG0, PT-TAHW0, PT-TPHG0	PT-TAHG0, PT-TAHW0, PT-TPHG0
	Exterior Color		Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,480 x 34 x 500 1,420 x 34 x 500 1,480 x 34 x 500	1,480 x 34 x 500 1,420 x 34 x 500 1,480 x 34 x 500
	Net Weight	kg	4.8 / 4.5 / 4.9	4.8 / 4.5 / 4.9

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

Accessories

CHASSIS	ARNU18GTTB4	ARNU24GTTB4
Drain Pump	O	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Multi-tenant Power Module	RNPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Air Cleaning Kit	PTAHTP0	
Wi-fi	PWFMDD200	

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

Features & Benefits

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

Key Applications

- Retail
- Office
- Restaurant
- Hotel

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

※ O: Applied, -: Not applied

Slim and Compact Design

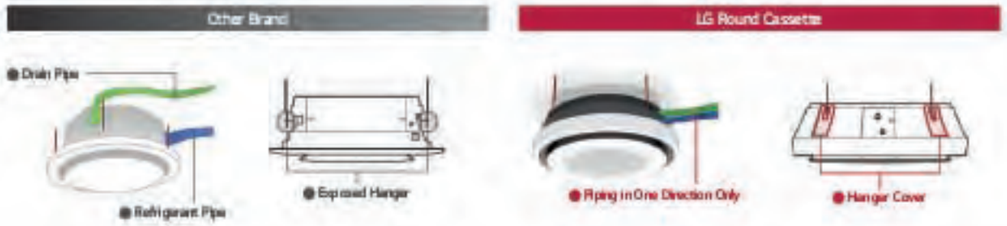
Reduce the height of the body by 15%, save space and maximize the openness of the interior space.

※ Product : 48 kBtu

15% less body height makes room more higher

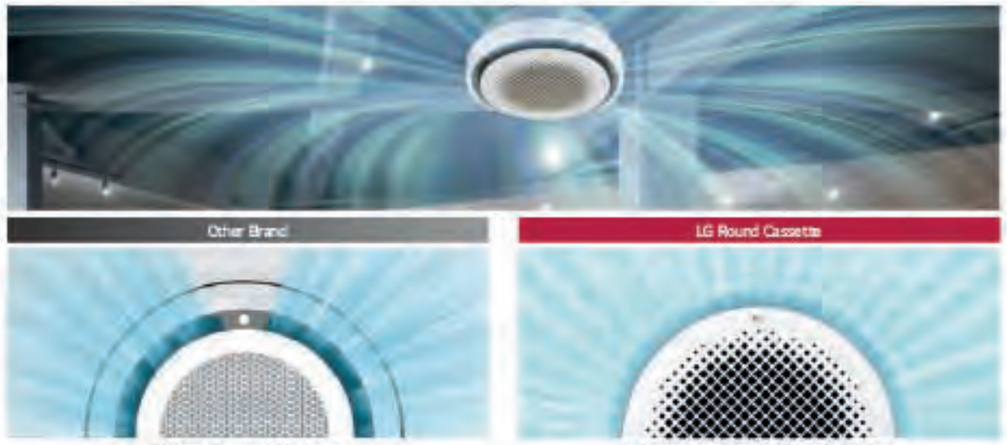
Minimal Exposure Design

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



Perfect Round Air Flow

Perfect round flow without blind spots.



3 Way airflow with blind spot.

Perfect circular airflow without blind spots.

Visible Air Flow

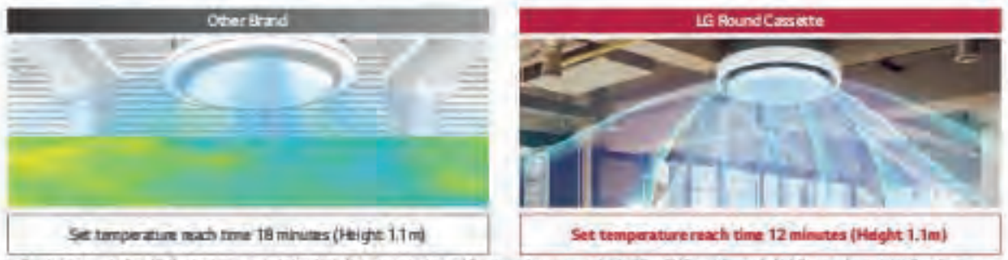
With crystal vein for 6-step precision control, you can send cool / heated air wherever you want..

Powerful and Quiet Air Flow

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

30% Faster in Cooling

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



※ Based on test results from LG chamber (mimicked to help customers understand). Experimental environment: height 3.2m, 48 kBtu, cooling mode, high floor rate, horizontal air flow direction.

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4

MODEL		UNIT	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Cooling Capacity		kW	7.1	10.6	14.1
Heating Capacity		kW	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	44 / 36 / 29	63 / 47 / 36	98 / 70 / 44
Dimensions (W x H x D)	Body	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050
	Shipping	mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132	1,137 x 395 x 1,132
Fan	Type		3D Turbo Fan	3D Turbo Fan	3D Turbo Fan
	Motor Output x Number	W	157 x 1	157 x 1	157 x 1
	Air Flow Rate (H / M / L)	m3/min	22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Long life	Long life	Long life
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe(Internal Dia)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	30	30	30
Sound Pressure Level (H / M / L)		dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39
Sound Power Level (H / M / L)		dB(A)	48 / 46 / 43	52 / 48 / 46	56 / 53 / 48
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PREDWS0		
EEV Kit	-		
Multi-tenant Power Module	PNPM8001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	-		
Floor Temperature Sensor	-		
Air Cleaning Kit	-		
Elevation Grille	-		

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

CEILING CONCEALED DUCT

Wi-Fi Control

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

ThinQ

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

Easy Registration and Log-in

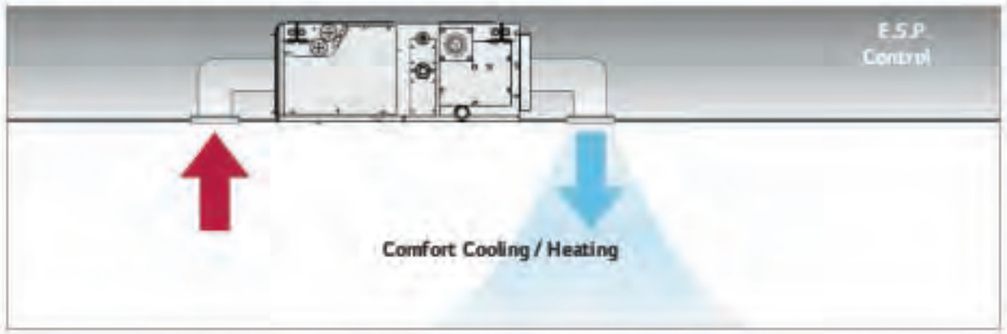
Follow the easy set-up steps that will activate ThinQ's user-friendly features.

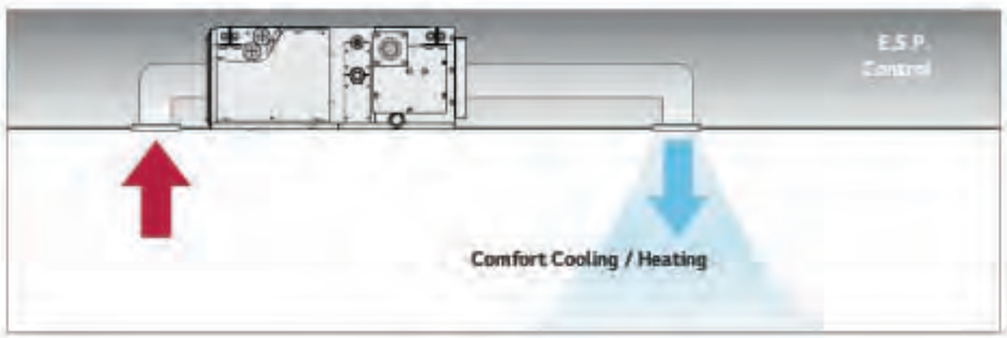
Simple operation for various functions

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

External Static Pressure (ESP) Control

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





Features & Benefits

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

Key Applications

- Office
- Retail
- Hotel
- Residential building

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

※ ○: Applied, -: Not applied

Static Pressure 11- Step Control

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

Energy Monitoring

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

Install Scene

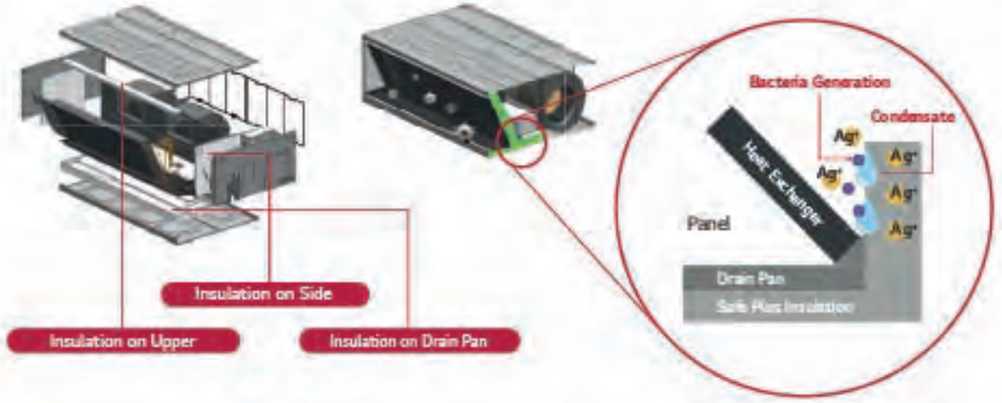
Apply for multistory building

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

Safe Plus Insulation

Why LG Safe Plus Insulation?

Safe Plus Insulation is an antimicrobial treatment that is applied to LG MULTI V indoor unit internal insulation components to resistance bacterial growth, and provides cleaner and fresher airflow to customer.



What's the hygiene inside of your air conditioner?

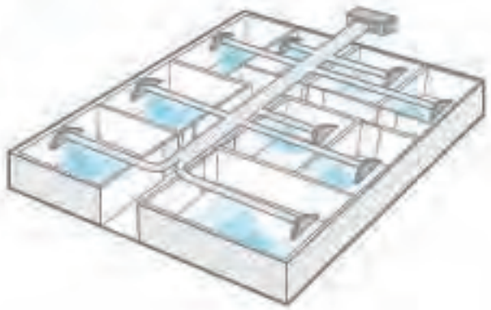
Example of EPS Pollution case.

Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, What's the hygiene inside the air conditioner? If the inside of the air conditioner is contaminated, what can you do?

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

Multiple Room Operation

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



Filter Alert

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

Remain Time Until Indoor Filter Cleaning + Alarm

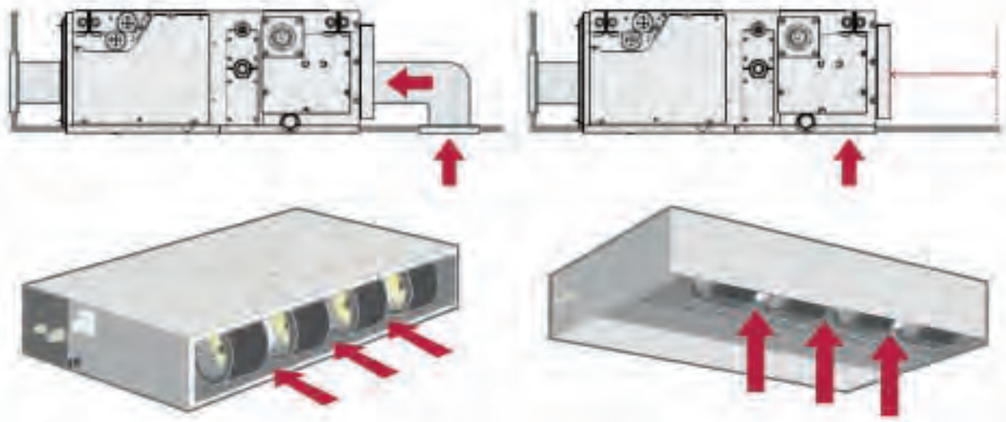
Remain time until indoor filter cleaning 2,400hr

Remain time until indoor filter cleaning 1,729hr

Flexible Installation
(Low Static Duct Slim Only)

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

Air intake at the rear or bottom



Minimized Height
(For Mid Static Duct)

Mid Static Ducts provide ideal solution for installation in limited space.

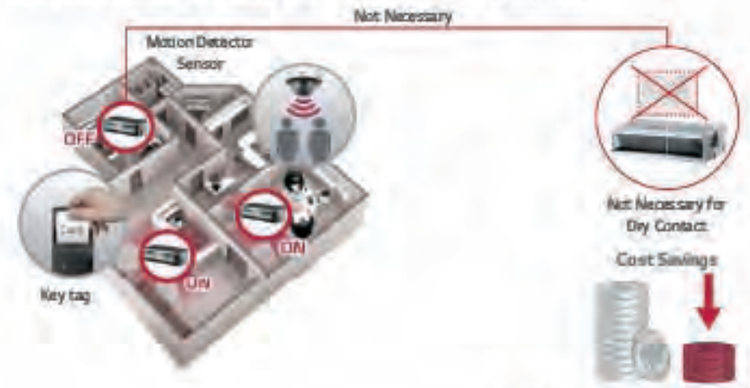
Two Thermistors Control

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

1 Point External Input
(On / Off Control)

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

Connection between an indoor unit and external devices directly



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

ARNU07GM1A4 / ARNU09GM1A4
ARNU12GM1A4 / ARNU15GM1A4
ARNU18GM1A4 / ARNU24GM1A4

MODEL		UNIT	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58
Dimensions (W x H x D)	Body	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1
	Air Flow Rate (H / M / L)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.0	25.0	25.0	25.0	25.0	25.5
Sound Pressure Levels (H / M / L)		dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0~1.5 x 2C

Note :
1. Performance based 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	O					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNV50					
EEV Kit	PRSK024A0 (~5.6kW)					
Multi-tenant Power Module	PNPMB001					
Robot Cleaner	-					
Pre Filter (Washable)	O					
Ion Generator	-					
CO_2 Sensor	-					
Ventilation Kit	-					
IR Receiver	PWLRWN000					
Zone Controller	ABZCA					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	O					
Wi-Fi	PWFMDD200					

※ O : 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 / 173
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
	Shipping	mm	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	400 x 1	400 x 1
	Air Flow Rate (H / M / L)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	36.0	36.0	37.2	42.2	42.2
Sound Pressure Levels (H / M / L)		dB(A)	38 / 36 / 35	40 / 38 / 36	42 / 41 / 39	41 / 38 / 37	42 / 41 / 40
Sound Power Levels (H / M / L)		dB(A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :
1. Performance based 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	O				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNV50				
EEV Kit	-				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRWN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	O				
Wi-Fi	PWFMDD200				

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

ARNU76GB8A4 / ARNU96GB8A4

MODEL		UNIT	ARNU76GB8A4	ARNU96GB8A4
Cooling Capacity		kW	22.4	28.0
Heating Capacity		kW	25.2	31.5
Power Input (H / M / L)	Nominal	W	765 / 500 / 500	800 / 750 / 750
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	External Static Pressure (High Mode)	mmAq (Pa)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	15 (147)	15 (147)
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight: Body		kg	87.0	87.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 41 / 40	47 / 42 / 41
Sound Power Levels (H / M / L)		dB(A)	67 / 62 / 60	68 / 64 / 62
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

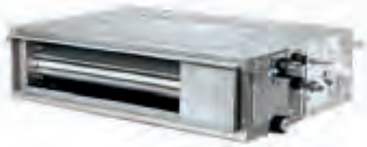
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
– Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting pipe length 7.5m, Level difference of zero
– Heating : Indoor temp. 20°C (68°F)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

Accessories

CHASSIS	ARNU76GB8A4	ARNU96GB8A4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	○	
Multi-tenant Power Module	PNPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRWN000	
Zone Controller	ABZCA	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWRM00200	

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

ARNU05GL4G4 / ARNU07GL4G4
ARNU09GL4G4 / ARNU12GL5G4



MODEL		UNIT	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Cooling Capacity		kW	1.8	2.2	2.8	3.6
Heating Capacity		kW	2.2	2.5	3.2	4
Power Input (H / M / L)	Nominal	W	15 / 13 / 11	28 / 24 / 21	28 / 24 / 21	43 / 38 / 35
Dimensions (W x H x D)	Body	mm	700 x 190 x 460	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460
	Shipping	mm	925 x 255 x 561	925 x 255 x 561	925 x 255 x 561	1,125 x 255 x 561
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1	19 x 1+5x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0(0)	0(0)	0(0)	0(0)
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm (inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25.4(1)	Ø25.4(1)	Ø25.4(1)	Ø25.4(1)
Weight: Body		kg	14.6	14.6	14.6	20
Sound Pressure Levels (H / M / L)		dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22	29 / 27 / 25
Sound Power Levels (H / M / L)		dB(A)	32.5 / 31.4 / 29.6	34 / 31.4 / 29.6	36.1 / 32.5 / 29.8	35.1 / 32.7 / 30.7
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission Cable		mm²	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
– Cooling : Indoor temp. 27°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 pipe 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 pipe length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVS0			
EEV Kit	PRGK024A0 (ARNUM*GL4G4 Only)			
Multi-tenant Power Module	PNPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	PWLRWN000			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWRM00200			

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

ARNU15GL5G4 / ARNU18GL5G4
ARNU21GL6G4 / ARNU24GL6G4

MODEL		UNIT	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Cooling Capacity		kW	4.5	5.6	6.3	7.1
Heating Capacity		kW	5	6.3	7.1	8
Power Input (H / M / L)	Nominal	W	54 / 45 / 38	57 / 38 / 30	65 / 50 / 42	81 / 59 / 43
Dimensions (W x H x D)	Body	mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460	1,100 x 190 x 460
	Shipping	mm	1,125 x 255 x 561	1,125 x 255 x 561	1,325 x 255 x 561	1,325 x 255 x 561
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1+5x1	19 x 1+5x1	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0(0)	0(0)	0(0)	0(0)
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
	Gas Side	mm (inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25.4(1)	Ø25.4(1)	Ø25.4(1)	Ø25.4(1)
Weight	Body	kg	20	20	22	22
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 27	35 / 32 / 29	35 / 30 / 29	36 / 33 / 29
Sound Power Levels (H / M / L)		dB(A)	38.4 / 35.1 / 32.7	42.1 / 38.4 / 35.1	42.5 / 38.3 / 36.0	45.0 / 40.7 / 36.0
Power Supply		Ø, V, Hz	1, 220~230~240, 50/60	1, 220~230~240, 50/60	1, 220~230~240, 50/60	1, 220~230~240, 50/60
Transmission Cable		mm²	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

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

Accessories

CHASSIS	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Drain Pump	O			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNV50			
EEV Kit	-			
Multi-tenant Power Module	PNPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	O			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	PWLRMN000			
Zone Controller	-			
Dry Contact (With additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	O			
Wi-Fi	PWFMDB0200			

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

ARNU07GM2A4 / ARNU09GM2A4
ARNU12GM2A4 / ARNU15GM2A4
ARNU18GM3A4

MODEL		UNIT	ARNU07GM2A4	ARNU09GM2A4	ARNU12GM2A4	ARNU15GM2A4	ARNU18GM3A4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3
Power Input (H / M / L)		W	32 / 29 / 27	32 / 29 / 27	33 / 30 / 28	33 / 30 / 28	97 / 70 / 51
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700
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	500 x 1
	Air Flow Rate (H / M / L) (High static Mode - factory set)	m³/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight		kg	36	36	36	36	44
Sound Pressure Levels (H / M / L)		dB(A)	33 / 33 / 32	33 / 33 / 32	34 / 33 / 32	34 / 33 / 32	38 / 36 / 34
Sound Power Levels (H / M / L)		dB(A)	52 / 52 / 52	52 / 52 / 52	53 / 52 / 52	53 / 52 / 52	52 / 51 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring construction 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 compliance with this.
3. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberant room 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 Capacities 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 50 Pa 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	O				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNV50				
EEV Kit	-				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRMN000				
Zone Controller	ABZCA				
Dry Contact (With additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2points input), PDRYCB500 (Modbus)				
External Input (1 point)	O				
Wi-Fi	PWFMDB0200				

※ O : 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
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	500 x 1	500 x 1	375 x 2	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High static Mode - factory set)	m³/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.6	57.2 / 43.0 / 34.0
	External Static Pressure	mmAq (Pa)	8 (59)	8 (59)	18 (176)	18 (176)	18 (176)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	53.7 / 49.5 / 43.9	55.6 / 50.6 / 45.0	58.0 / 52.3 / 47.3
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	9 (88)	9 (88)	9 (88)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight		kg	42.2	42.2	87	87	87
Sound Pressure Levels (H / M / L)		dB(A)	39 / 37 / 35	39 / 37 / 35	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power Levels (H / M / L)		dB(A)	53 / 52 / 51	53 / 52 / 51	65 / 64 / 62	66 / 65 / 63	66 / 65 / 64
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note :
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring make sure must comply with the applicable local and national code. And "Electric characteristics" chapter should be consulted for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with this.
3. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3741 standard. Sound power level is measured on the rated condition in the reverberation room 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 5.0Pa External Static Pressure condition.
6. *1 Air flow rate could be different in accordance with External Static Pressure and setting value.

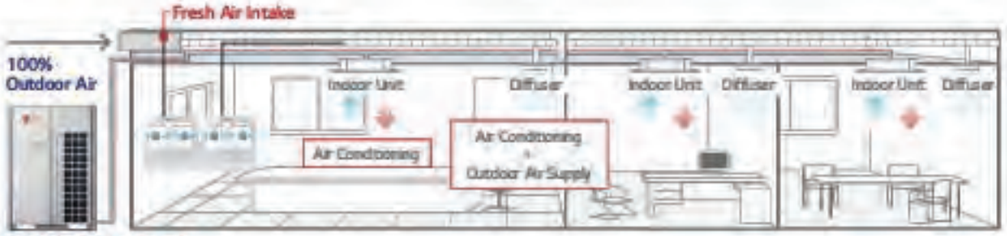
Accessories

CHASSIS	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Drain Pump	O				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit	-				
Multi-tenant Power Module	PNPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	O				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRWN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	O				
Wi-Fi	PWRM0D200				

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

Fresh Outdoor Air Supply

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



MULTI V 5 Outdoor unit

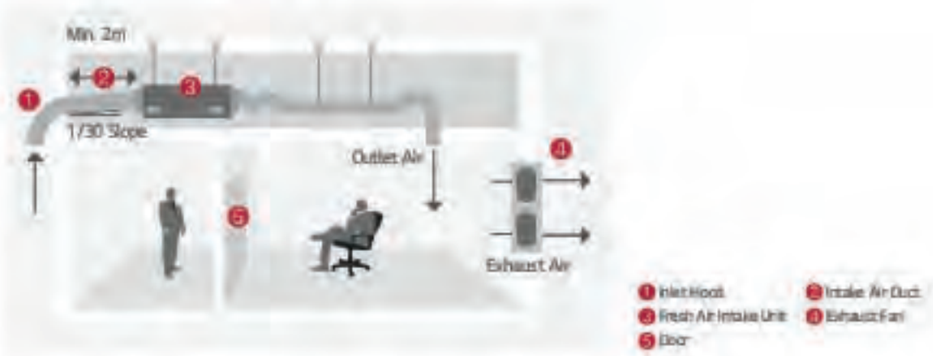
Economic Operation

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

MULTI V 5 Outdoor unit

MULTI V 5 Outdoor unit

Installation Scene



ARNU76GB8Z4 / ARNU96GB8Z4

MODEL		UNIT	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity		kW	22.4	28.0
Heating Capacity		kW	23.4	26.7
Power Input (H / M / L)	Nominal	W	230 / 200 / 200	360 / 230 / 230
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 1	375 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	External Static Pressure	mmAq (Pa)	22 (216)	22 (216)
	Motor Type		BLDC	BLDC
Air Filter			Long Life Filter	Long Life Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	73.0	73.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43	47 / 45 / 45
Sound Power Levels (H / M / L)		dB(A)	70 / 67 / 67	72 / 70 / 70
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note : 1. Performance tested under ENT 467 1
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of 0m
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

▲CAUTION

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

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

Accessories

CHASSIS	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump	O	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDMV50	
EEV Kit	-	
Multi-tenant Power Module	PMPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRWI000	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMD0200	

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

NOTE

CEILING & FLOOR CONVERTIBLE CEILING SUSPENDED

Features & Benefits

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

Key Applications

- Retail
- Restaurant
- Shop

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

※ O: Applied, -: Not applied

SMART

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

ThinQ

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

Easy Registration and Log-in

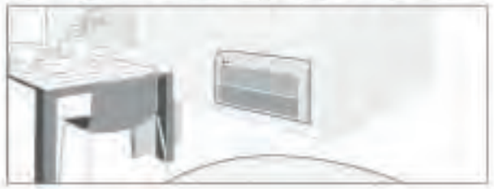
Follow the easy set-up steps that will activate ThinQ's impressive features.

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

COMFORT (CONVERTIBLE)

Flexible

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



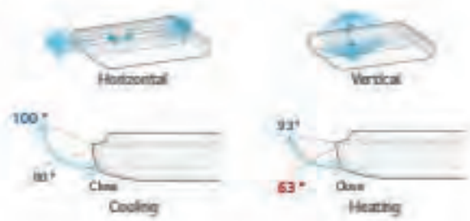
Filter Change Alarm

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

One Touch Filter — Filter Change Alarm

Air flow Direction Control

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



Differentiated Design

Modern 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.

One Touch Filter

Two Thermistors Control

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

NOTE

ARNU09GVEA4 / ARNU12GVEA4

MODEL		UNIT	ARNU09GVEA4	ARNU12GVEA4
Cooling Capacity		kW	2.8	3.6
Heating Capacity		kW	3.2	4.0
Power Input (H / M / L)	Nominal	W	19 / 15 / 11	28 / 19 / 15
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	900 x 490 x 200	900 x 490 x 200
	Shipping	mm	975 x 562 x 279	975 x 562 x 279
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	27 x 1	27 x 1
	Air Flow Rate (H / M /L)	m³/min	7.8 / 6.9 / 6.2	9.2 / 7.6 / 6.9
		cfm	368 / 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
Transmission Cable		mm² x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note: 1. Performance tested under EN14511
2. Capacities are based on the following conditions:
- Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5 m, 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	PRLDNVS0	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PNPMB001	
Plasma Kit	-	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMDD200 [1]	

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

ARNU18GV1A4 / ARNU24GV1A4
ARNU36GV2A4 / ARNU48GV2A4

MODEL		UNIT	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Cooling Capacity		kW	5.6	7.1	10.6	14.1
Heating Capacity		kW	6.3	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	23 / 20 / 17	25 / 21 / 17	84 / 77 / 66	91 / 79 / 66
Exterior Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,200 x 235 x 690	1,200 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
	Shipping	mm	1,315 x 320 x 772	1,315 x 320 x 772	1,715 x 320 x 772	1,715 x 320 x 772
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1	125 x 1	125 x 1
	Air Flow Rate (H / M / L)	m³/min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	29.0	29.0	37.0	37.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 35 / 33	45 / 44 / 40.5	47 / 44 / 40.5
Sound Power Levels (H / M / L)		dB(A)	61 / 59 / 58	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
Transmission Cable		mm² x cores	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	PRLDNVS0			
EEV Kit	-			
Multi-tenant Power Module	PNPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	O			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	O			
Wi-Fi	PWFMDD200			

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

Features & Benefits

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

Key Applications

- Residential building
- Historical building
- Hotel

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

※ O: Applied, - : Not applied

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

ThinQ

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

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

Air Flow Direction Change

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

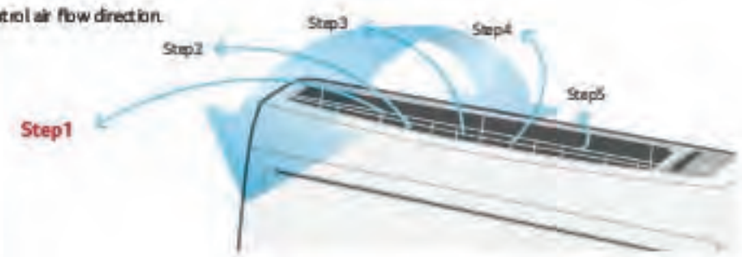
Cooling | **Heating (Normal)** | **Heating (Option)**

Cold Draft Protection

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

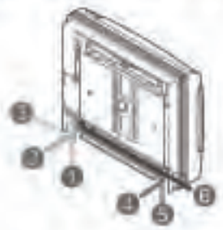
5-Step Vane Control

There are 5 different stages to control air flow direction.



6 Way Flexible Piping

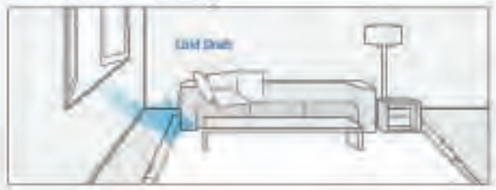
It is possible to install and connect the outdoor unit in 6 different ways. (Right Side, Right Back, Right Floor, Left Side, Left Back, Left Floor)



Protect Cold Draft

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

Without Floor Standing



With Floor Standing

3 Way Flexible Piping

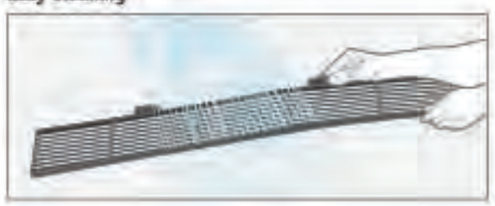
It is possible to install and connect the outdoor unit in 3 different ways. (Side, Back, Floor)

Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.

Sliding type

Easy cleaning



NOTE

ARNU07GQAA4 / ARNU09GQAA4

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

Note:
1. Performance tested under EN14511.
2. Capacities are based on the following conditions:
   - Cooling: Indoor temp. 27°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	ARNU09GQAA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	O	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMDD200	

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

ARNU12GQAA4 / ARNU15GQAA4

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

Note:
1. Performance tested under EN14511.
2. Capacities are based on the following conditions:
   - Cooling: Indoor temp. 27°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	PRLDNVS0	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	O	
Ion Generator	O	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	O	
Wi-Fi	PWFMDD200	

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

ARNU07GCEA4 / ARNU09GCEA4
ARNU12GCEA4 / ARNU15GCEA4
ARNU18GCFA4 / ARNU24GCFA4

※ A: Floor Standing without case

MODEL		UNIT	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Exterior Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
	Shipping	mm	1,154 x 705 x 289	1,154 x 705 x 289	1,154 x 705 x 289	1,154 x 705 x 289	1,432 x 705 x 289	1,432 x 705 x 289
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	27.0	27.0	27.0	27.0	34.0	34.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply		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
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Drain Pump	-				-	
Cassette Cover	-				-	
Refrigerant Leakage Detector	PRLDNVS0				PRLDNVS0	
EEV Kit	PRGK024A0				-	
Multi-tenant Power Module	PNPMB001				PNPMB001	
Robot Cleaner	-				-	
Pre Filter (Washable)	○				○	
Ion Generator	-				-	
CO_2 Sensor	-				-	
Ventilation Kit	-				-	
IR Receiver	PWLRVN000				PWLRVN000	
Zone Controller	-				-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	○				○	
Wi-Fi	PWFMDD200				PWFMDD200	

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

ARNU07GCEU4 / ARNU09GCEU4
ARNU12GCEU4 / ARNU15GCEU4
ARNU18GCFU4 / ARNU24GCFU4

※ U: Floor Standing without case

MODEL		UNIT	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Dimensions (W x H x D)	Body	mm	978 x 639 x 190	978 x 639 x 190	978 x 639 x 190	978 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190
	Shipping	mm	1,055 x 702 x 260	1,055 x 702 x 260	1,055 x 702 x 260	1,055 x 702 x 260	1,332 x 702 x 260	1,332 x 702 x 260
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	20.0	20.0	20.0	20.0	26.0	26.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Drain Pump	-				-	
Cassette Cover	-				-	
Refrigerant Leakage Detector	PRLDNVS0				PRLDNVS0	
EEV Kit	PRGK024A0				-	
Multi-tenant Power Module	PNPMB001				PNPMB001	
Robot Cleaner	-				-	
Pre Filter (Washable)	○				○	
Ion Generator	-				-	
CO_2 Sensor	-				-	
Ventilation Kit	-				-	
IR Receiver	PWLRVN000				PWLRVN000	
Zone Controller	-				-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input), PDRYCB400 (2points input), PDRYCB500 (Modbus)					
External Input (1 point)	○				○	
Wi-Fi	PWFMDD200				PWFMDD200	

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

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	O	O	* Necessary to install the PDI (Power Distribution Indicator) and central controller * Combined with Multi V Water Souddoor unit, this function is not available.
		Monitoring accumulated power consumption by Central Control Device / PDI	-	O	* Necessary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	**2Set Point**	1) 2 set point control by Indoor and central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring)	O	O	* Wired remote controller and central controller must be installed * Combined with Multi V Water Souddoor 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)	O	O	* 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 Souddoor unit, this function is not available.
4	**Group Control**	Group Control can use Additional function	O	O	* Check more details in RDB (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	O	-	
6	**Model Information Monitoring**	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	O	-	
7	**Indoor unit address checking**	Wired remote controller can check indoor unit address information	O	-	
8	**Refrigerant Leakage Detection**	Function error sign display when refrigerant leakage occurred	O	O	* 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 Souddoor unit, this function is not available. * Accessory PRLDINV50 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	O	-	* Thermo On / Off temperature setting (3 step)
10	**Thermo On / Off range Setting (Heating)**	User can set heating thermo on/off range with wired remote controller for prevention overheating. (4 Step)	O	-	* 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	O	-	* Only applied in Ceiling Concealed Duct
12	**1 point External Input (On / Off control)**	Indoor unit can be controlled by external devices without purchasing. Dry contact as an accessory (All 4th generation indoors)	O	-	* 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.	O	O	* 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	O	-	
15	**Indoor Humidity display**	Monitoring indoor humidity Wired Remote Controller	O	O	* Available only with Multi V 5
16	**Comfort Cooling setting**	set the outdoor unit comfort cooling operation value	O	O	* Available only with Multi V 5
17	**Smart Load Control setting**	Change the outdoor unit's Smart Load Control stage value	O	O	* Available only with Multi V 5
18	**ODU Refrigerant Noise Reduction setting**	set the outdoor unit's refrigerant noise reduction function	O	O	* 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	O	O	* Available only with Multi V 5

Note (1) No.1, 2, 3, 18 / 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, 17 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 Assemble Unit, Ceiling Suspended Unit, Hi DRO KIT (Low Temp. / High Temp.), ERV ON (with Humidifier, without Humidifier), AHU Communication Kit

WIRED REMOTE CONTROLLER					CENTRALIZED CONTROLLER				
PREMIUM (PREMTA000 PREMTA000A PREMTA000B)	STANDARD II (PREMTB100) (PREMTB810)	STANDARD II (PREMTB801) (PREMTB001)	SIMPLE		ACE2 (PQCSZ320M)	ACE2 TOUCH (PACE2A000)	AC SMART 5 (PACS5A000)	AC P 5 (PACP5A000)	AC MANAGER 5 (PACM5A010)
			SIMPLE FOR HOTEL (PQRCHQ0Q / QM)	SIMPLE (PQRCVCL00 / QM)					
O	O	O	-	-	-	O	O	O	O
-	-	-	-	-	-	O	O	O	O
O	O	-	-	-	-	O	O	O	O
O	O	-	-	-	-	O	O	O	O
O	O	O	-	-	-	-	O	O	O
O	O	O	-	-	-	-	-	-	-
O	O	O	-	-	-	-	-	-	-
O	O	O	-	-	-	-	-	-	-
O	O	O	-	-	-	-	O	O	-
O	O	O	-	-	-	-	-	-	-
O (4 step)	O (4 step)	O (3 step)	O (3 step)	O (3 step)	-	-	-	-	-
O	O	O	O	O	-	-	-	-	-
O	O	O	-	-	-	-	-	-	-
O	O	O	-	-	O	O	O	O	-
O	O	-	-	-	-	-	O	O	-
O	O	-	-	-	-	-	O	O	-
O	O	-	-	-	-	-	O	O	-
O	O	-	-	-	-	-	O	O	-
O	O	-	-	-	-	O	O	O	-

※ O : Applied, - : Not applied

COMPATIBILITY

Product \ Controller			Premium	Standard III	Standard II	Simple	Simple for Hotel	Wireless	Dry Contact
			PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTB810	PREMTB001 PREMTB801	PQRCVCL00Q PQRCVCL00QW	PQRCHCA0QQ PQRCHCA0QW	PWLSSB21H (H/P)	Simple Dry Contact PQRCSB00	2 system Dry Contact PQRCSB10	Dry Contact for Thermostat PQRCSL00	For Multi PQRCSB00
Ceiling Mounted Cassette	4 Way	ARNU-A4 ARNU-B4	O	O	O	O	O	O	O	O	O	O
	2 Way / 1 Way	ARNU-B4 ARNU-C4	O	O	O	O	O	O	O	O	O	O
	Round Cst	ARNU-A4	O	O	O	O	O	O	O	O	O	O
Ceiling Concealed Duct	High Sensible	ARNU-A4	O	O	O	O	O	△	O	O	O	O
	High/Mid Static	ARNU-A4	O	O	O	O	O	△	O	O	O	O
	Low Static	ARNU-G4	O	O	O	O	O	△	O	O	O	O
FAU (Fresh Air Intake)		ARNU-B8	O	O	O	O	O	△	O	O	O	O
Convertible & Ceiling Suspended		ARNU-A4	O	O	O	O	O	O	O	O	O	O
Console		ARNU-A4	O	O	O	O	O	O	O	O	O	O
Floor Standing		ARNU-A4 ARNU-U4	O	O	O	O	O	O	O	O	O	O
		ARNU-A4	O	O	O	O	O	O	O	O	O	O
Wall Mounted		ARNU-R8	O	O	O	O	O	O	O	O	O	O
		ARNU-A4 ARNU-G4 ARNU-N4	O	O	O	O	O	O	O	O	O	O
HYDRO KIT[1]		ARNH-A4	-	-	-	-	-	-	O	-	O	-
Ventilation		Energy Recovery Ventilator	O	O	O	-	-	-	O	-	-	O
		Energy Recovery Ventilator with DX coil	O	O	O	-	-	-	O	-	-	O
AMJ Communication Kit			O	O	O	-	-	△	-	-	-	-

※ O : Compatible, △ : Need wired remote controller / I : Includes - : Not compatible
1) It has a separate remote controller

FEATURE FUCTIONS

Controller Name		Wired Remote Controller					Wireless Remote Controller	Wi-Fi Modem
		Premium	Standard III	Standard II	Simple	Simple (Hotel)		
Model Name		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTB810	PREMTB001 PREMTB801	PQRCVCL00Q PQRCVCL00QW	PQRCHCA0QQ PQRCHCA0QW	PWLSSB21H (H/P)	PWRMD0200
Basic	On / Off	O	O	O	O	O	O	O
	Fan Speed Control	O	O	O	O	O	O	O
	Temperature Setting	O	O	O	O	O	O	O
	Mode Change	O	O	O	O	-	O	O
	Auto Swing	O	O	O	O	O	O	
	Vane Control (Louver Angle)	O	O	O	O	O	O	O
	E.S.P (External Static Pressure)	O	O	O	O	O	-	-
	Electric Failure Compensation	O	O	O	O	O	-	O
	Indoor Temperature Display	O	O	O	O	O	O	
	ALL Button Lock (Child Lock)	O	O	O	O	O	-	-
Advanced	Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off	Weekly
	Additional Mode Setting [1]	O	O	O	-	-	-	-
	Time Display	O	O	O	-	-	O	-
	Humid. Display	O	O	-	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
	Filter Sign	O	O	O	-	-	-	-
	Energy Management [2]	O	O	O	-	-	-	-
	Dual Set Point	O	O	-	-	-	-	-
	Human Detection	-	O	-	-	-	-	-
	Temp, Humidity Compensation	O	O	-	-	-	-	-
	Wi-Fi AP mode setting	O	O	O	O	O	O	-
ETC	Operation Status LED	O	O	O	O	O	-	-
	Wireless Remote Controller Receiver	O [3]	-	O [3]	O [3]	O [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 121 x 16	70 x 123 x 18	70 x 121 x 16	51 x 15.3 x 26	48 x 68 x 14
	Black Control for Screen Saver	O	O	-	-	-	-	-

※ O : Applied, - : Not Applied
1) It might not be indicated or operated at the part of product
2) Central control (PACSA000 / PACSB000 / PACPS000 / PUMY8000) and PI (PQNUDI540 / PWMB0000) should be installed for this function
3) For ceiling type duct
Note
- Indoor unit should have function separated by this controller
- If you need more detail, please refer to the manual of product. (http://pim.net/gecom (Error Doc Library> Manual)

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HOT WATER SOLUTION

HYDRO KIT

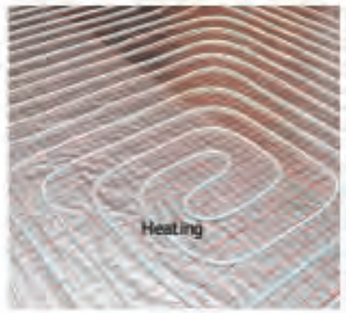
HYDRO KIT

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

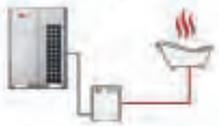
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiator. Where cold water is needed such as Fan coil unit and chilled beam.



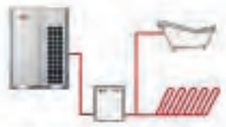
Radiant Heating / Cooling

Fan Coil Unit Heating / Cooling

Hot Water / Cold Water



Combination



Hot water + Underfloor heating

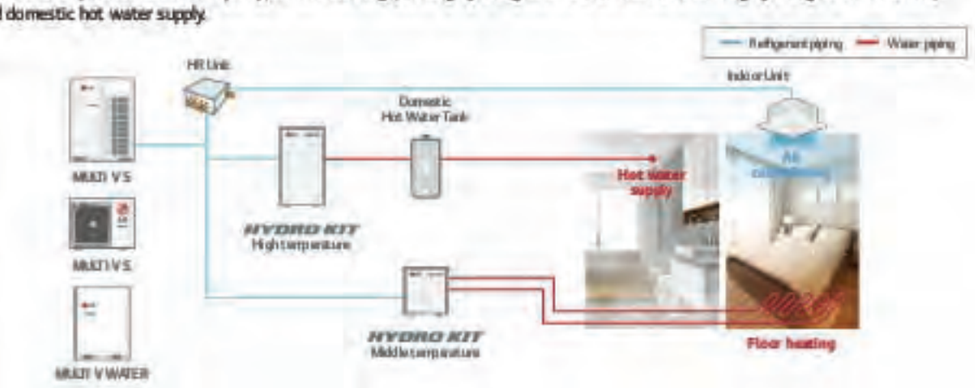
HR unit (Cooling & Hot water)

Thermal Storage System

CONVENIENCE

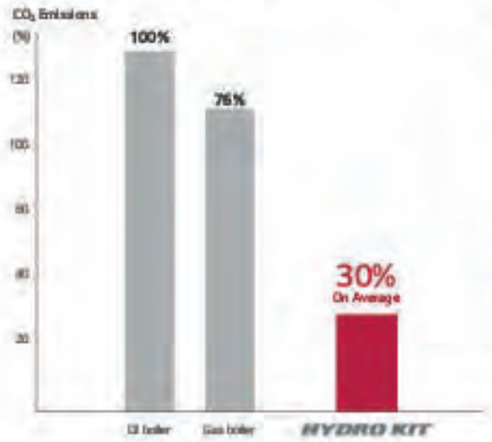
Total Solution

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



Eco-conscious Solution

Green energy solution through the reduction of CO_2 emmisions.



CONVENIENCE

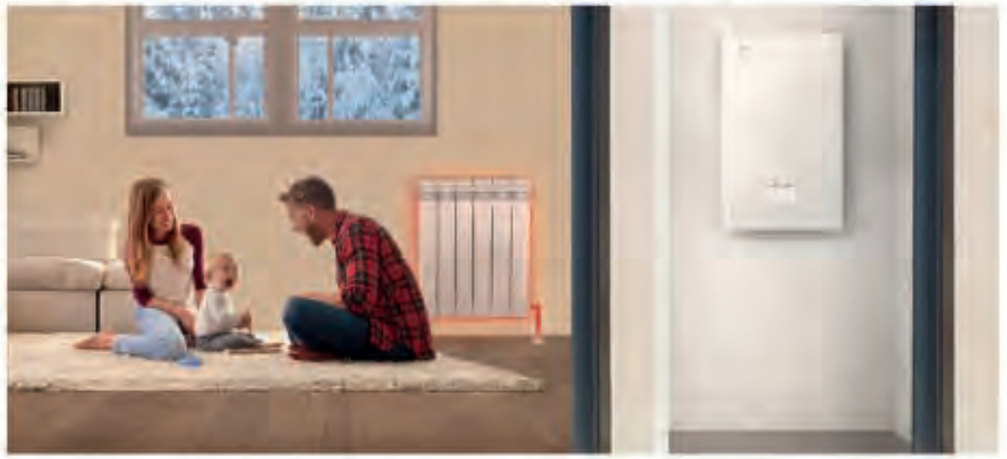
EFFICIENCY

HOT WATER SOLUTION

HYDRO KIT

Space Saving

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



Compatible with compact R32 Multi V S

Product Volume (㎥)

Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs

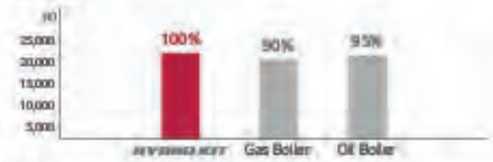
1st Proposal MULTI V 5 HYDRO KIT

(Air Conditioning + Hot Water Supply + Floor Heating)
2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler
(Hot Water Supply + Floor Heating)
3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler
(Hot Water Supply + Floor Heating)

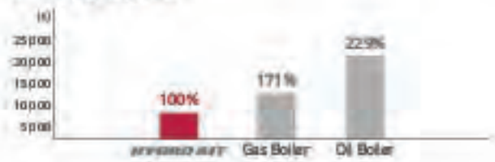
Analysis Conditions

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

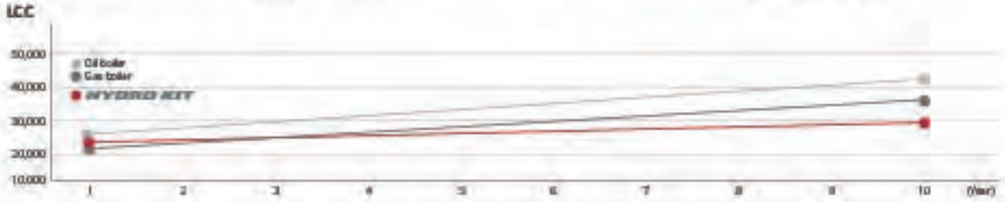
Initial Costs



Annual Operating Costs



LCC



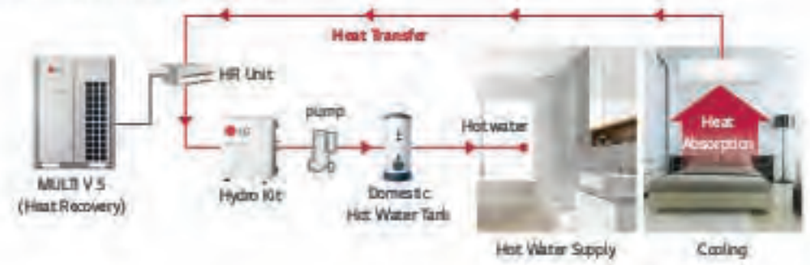
Energy Savings through Heat Recovery

Conventional

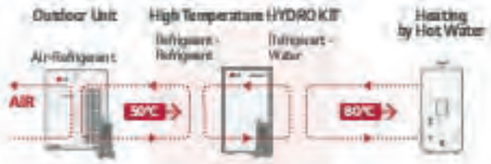
Absorbed heat is released to outdoor air

HYDRO KIT

Absorbed heat from indoor space is used for making hot water



High Temperature HYDRO KIT Cycle Diagram



Various Applications

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


Dormitory


Hotel


Office


Restaurant


Fitness

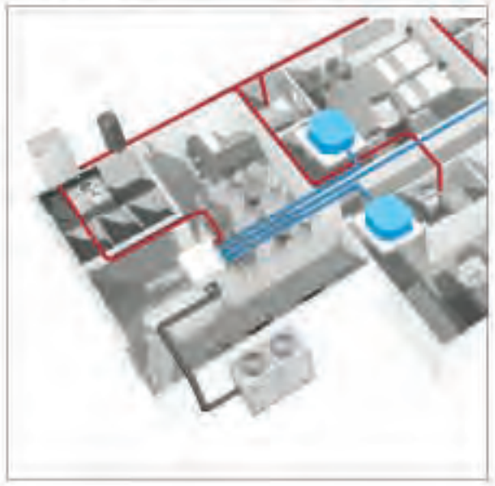

Hospital


Factory


Residential

Hotel Application

Simultaneous cooling and heating operation during summer to produce hot water by using heat energy recovered from indoor cooling process.



Office Application

The energy recovered from office cooling can be used to generate hot water for use in the offices.

ARNH18GK1A4 / ARNH24GK1A4
ARNH30GK1A4

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

MODEL				UNIT	ARNH18GK1A4	ARNH24GK1A4	ARNH30GK1A4
Backup Heater	Type			-	Sheath	Sheath	Sheath
	Number of Heating Coil			EA	2	2	2
	Capacity Combination			kW	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
	Operation			-	Automatic	Automatic	Automatic
	Heating Steps			Step	2	2	2
	Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
	FLA			A	31.0	31.0	31.0
	Power Cable (H07RN-F) (Included Earth)			mm2x cores	4.0 x 3C	4.0 x 3C	4.0 x 3C
Flow Sensor	Type			-	Vortex	Vortex	Vortex
	Model			-	SIKA VVX20	SIKA VVX20	SIKA VVX20
	Measuring Range	Min. ~ Max.		ℓ/min	5 ~ 80	5 ~ 80	5 ~ 80
	Flow (Trigger Point)	Min.		ℓ/min	7.0	7.0	7.0
Temperature Control				-	Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating	Microprocessor, Thermostat for cooling and heating
Water Tank Temperature Sensor	Type(Sensor Holder)			-	Male PT 1/2 inch	Male PT 1/2 inch	Male PT 1/2 inch
	Length			m	12	12	12
Sound Absorbing Thermal Insulation Material				-	Foamed polystyrene	Foamed polystyrene	Foamed polystyrene
Safety Device				-	Fuse	Fuse	Fuse
Piping Connections	Water Side		Inlet:	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
			Outlet:	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
	Refrigerant Side		Liquid	mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52(3/8)
			Gas	mm(inch)	Ø 15.88(5/8)	Ø 15.88(5/8)	Ø 15.88(5/8)
Power Cable Supply Cable (H07RN-F)				mm² x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Communication Cable (VCTF-SB)				mm² x cores	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Refrigerant	Refrigerant to Water		Type	-	R32	R32	R32
			Precharged Amount	kg (lbs)	-	-	-
			Additional Charging Amount	kg (each)	0.43	0.43	0.43
			Control	-	EEV	EEV	EEV
Sound Pressure Level	Cooling / Heating		Rated	dB(A)	35	35	35
Sound Power Level	Cooling / Heating		Rated	dB(A)	44	44	44

ARNH04GK2A4 / ARNH10GK2A4

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

1) Nominal : Performance tested under EN14511

Note :
1. Capacities are based on the following conditions :
   - Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
   - Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB/ 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
4. MULTI V 5 4HP (ARUN040GSS, ARUN040LS30) cannot be connected to Hydro Kit.
5. MULTI V Water 5 cannot be connected to Hydro Kit.
6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.

Accessories

CHASSIS	ARNH04GK2A4	ARNH10GK2A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDWS0	
EEV Kit	-	
Multi-tenant Power Module	○	
Robot Cleaner	-	
Pre Filter (Washable)	-	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNH04GK3A4 / ARNH08GK3A4

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

1) Nominal : Performance tested under EN14511

Note :
1. Capacities are based on the following conditions :
   - Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 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 5 4HP (ARUN040GSS, ARUN040LS30) cannot be connected to Hydro Kit.
5. MULTI V Water 5 cannot be connected to Hydro Kit.

Accessories

CHASSIS	ARNH04GK3A4	ARNH08GK3A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDWS0	
EEV Kit	-	
Multi-tenant Power Module	○	
Robot Cleaner	-	
Pre Filter (Washable)	-	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320 (Universal input)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

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VENTILATION SOLUTIONS

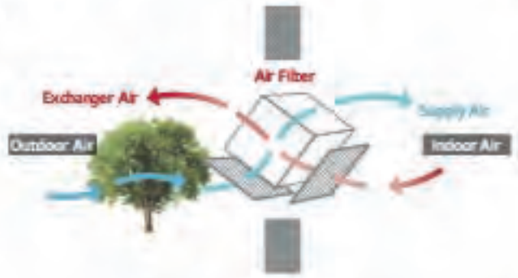
ERV / ERV WITH DX COIL

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.

Necessity of ERV

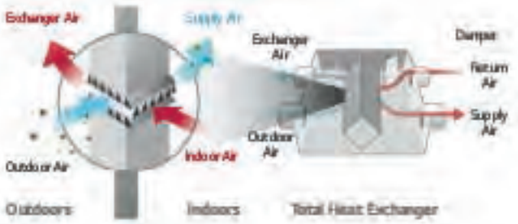
High Efficiency Heat Exchanger

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



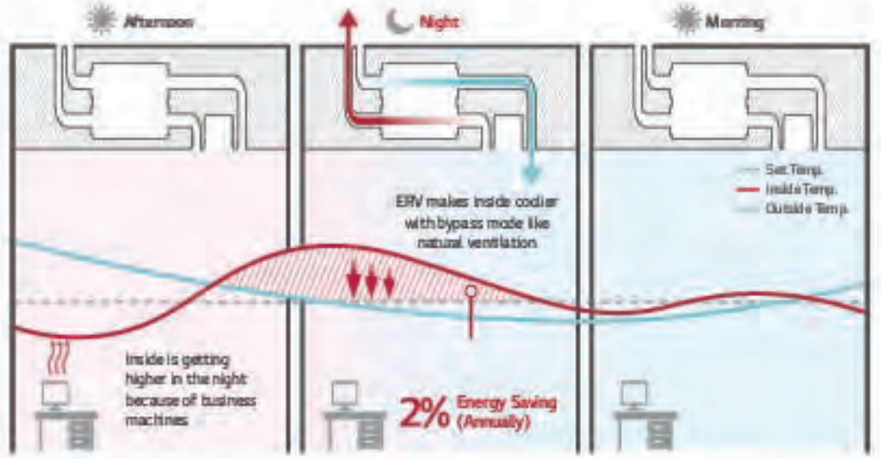
Cross Flow System

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



Night Time Free Cooling

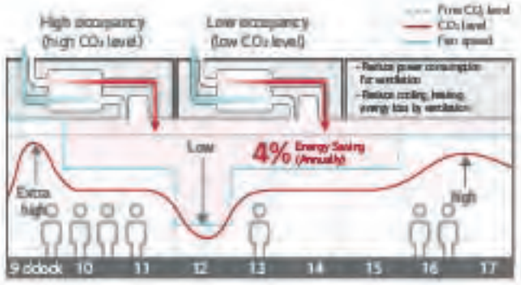
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



※ This function is operated with Night Time Free Cooling on remote controller (with MULTI V only)
※ Energy saving ratio can be differed by weather condition
※ Test Condition
- Office (40,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) +MULTI V 4 (134HP) Unit Combination
- Other conditions are subject to BREEAM.

CO_2 Auto Operation

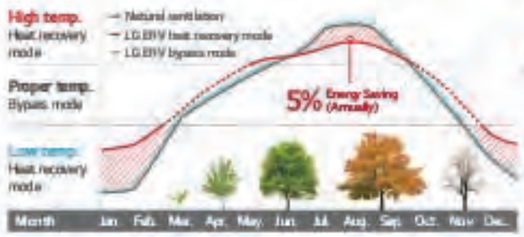
LG ERV reduces energy loss with auto fan speed control following CO_2 level.



※ 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 (9,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (13HP) Unit Combination
- Other conditions are subject to BREEAM

Seasonal Auto Operation

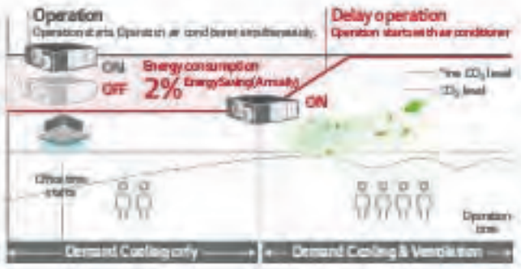
LG ERV senses outdoor temperature and operates automatically following weather conditions.



※ This function is operated with 'Auto' mode by wired remote control.
※ Energy saving ratio can be differed by weather condition
※ Test Condition - Office (9,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (13HP) Unit Combination
- Other conditions are subject to BREEAM

Delay Operation

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



※ This function is operated with 'Night Time Free Cooling' on remote controller (with MULTI V only)
※ Energy saving ratio can be differed by weather condition
※ Test Condition - Office (9,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (13HP) Unit Combination
- Other conditions are subject to BREEAM

CO_2 Level Monitoring

CO_2 sensor senses CO_2 level in the room. Users can monitor CO_2 level on new wired remote controller, and ERV controls the fan speed automatically following the level.

CO_2 Level Visualization

CO_2 sensor senses indoor CO_2 level and displays it on new wired remote controller.

Main display

If the CO_2 level is above 900ppm in the room, the red mark is on.

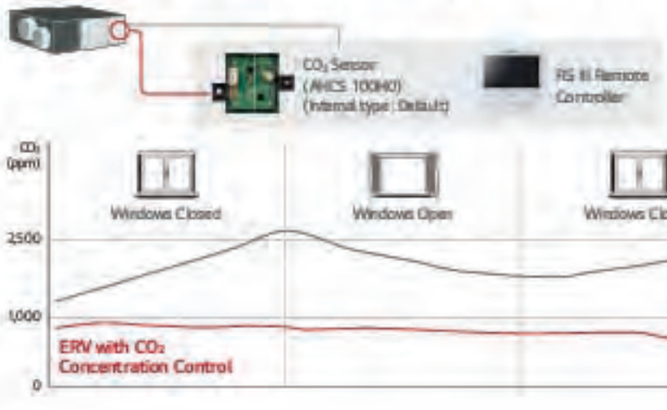
※ The remote controller screen image may change.
※ Applicable to only Standard II, Premium remote controller

Further information

CO_2 level and room condition are displayed continuously.

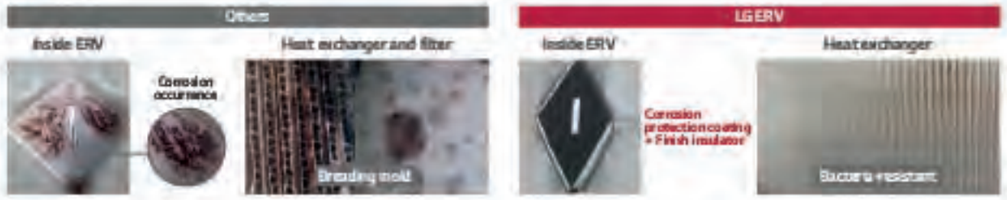
CO_2 Concentration Control

Using CO_2 sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO_2 concentration.



High Durability

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



Easy Control

Wired remote controller is easy for usage.

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

Display
- Indoor CO_2 level
- Alarm for filter change / remaining time to change filters

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

Group Control

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

Several units combination

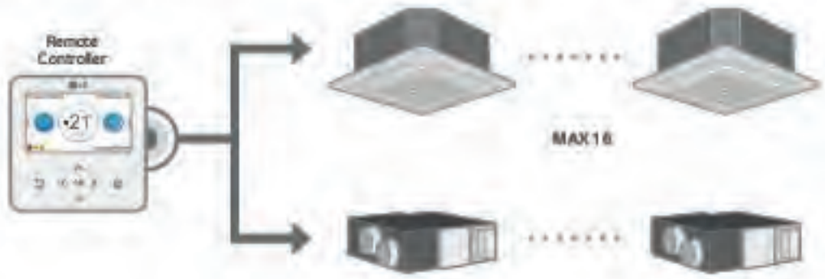
16 units group control is available with 1 remote controller.

Good looking interior

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.



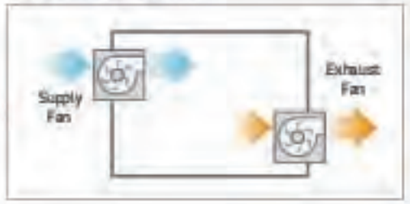
Fast Ventilation Mode

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

Only Exhausting

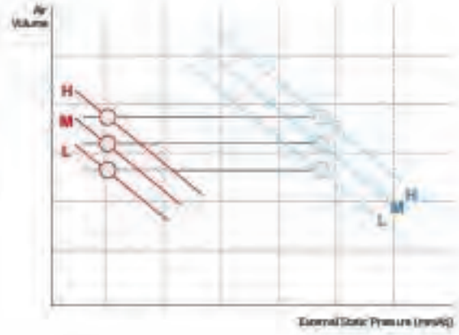
Exhausting and Supplying Simultaneously

Fast Ventilation Mode



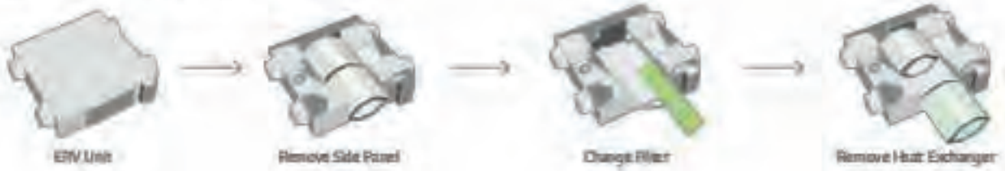
External Static Pressure Control

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



Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.



LZ-H025GBA4 / LZ-H035GBA5
LZ-H050GBA5

MODEL			UNIT	LZ-H025GBA4	LZ-H035GBA5	LZ-H050GBA5
Dimensions (W x H x D)	Body		mm		888 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 / 83	78 / 79 / 82
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	75 / 75 / 80	75 / 75 / 78
		Coding (SH / H / L)	%	66 / 66 / 68	71 / 71 / 75	68 / 68 / 75
	Energy Label	A+ to G Scale		A	B	B
	Sound Pressure Level	SH / H / L	dB(A)	29 / 28/ 24	35 / 32 / 28	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 / 28	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 : 34.8°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.3% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is based at heating condition.

Accessories

CHASSIS	LZ-H025GBA4	LZ-H035GBA5	LZ-H050GBA5
Drain Pump		+	
Cassette Cover		+	
Refrigerant Leakage Detector		+	
EEV Kit		+	
Multi-tenant Power Module		+	
Robot Cleaner		+	
Pre Filter (Washable)		+	
Ion Generator		+	
CO_2 Sensor		O	
Ventilation Kit		+	
IR Receiver		+	
Zone Controller		+	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	
External Input (1 point)		+	
Wi-Fi		-	

※ O : 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	83		130	
Power Supply			Ø, V, Hz	1, 220-240, 50		1, 220-240, 50	
Normal Air flow			m³/h	800	1,000	1,500	2,000
ERV Mode	Operating Step			Super-high / High / Low		Super-high / High / Low	
	Current	SH / H / L	A	2.13 / 1.75 / 1.00	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	328 / 266 / 144	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	m³/h	800 / 800/ 660	1,000 / 1,000 / 800	1,500 / 1,500 / 1,200	2,000 / 2,000 / 1,600
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50
	Temperature Exchange Efficiency	SH / H / L	%	82 / 82 / 83	80 / 80 / 81	82 / 82 / 83	80 / 80 / 81
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	73 / 73 / 76	71 / 71/ 73	73 / 73 / 76	71 / 71/ 73
		Cooling (SH / H / L)	%	66 / 66 / 70	64 / 64 / 67	66 / 66 / 70	64 / 64 / 67
	Sound Pressure Level	SH / H / L	dB(A)	40 / 36 / 32	40 / 37 / 33	43 / 39 / 35	43 / 40 / 36
	Sound Power Level	SH / H / L	dB(A)	56 / 53 / 47	59 / 56 / 52	59 / 56 / 50	62 / 59 / 55
Bypass Mode	Operating Step			Super-high / High / Low		Super-high / High / Low	
	Current	SH / H / L	A	2.13 / 1.75 / 1.00	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	328 / 266 / 144	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	m³/h	800 / 800/ 660	1,000 / 1,000 / 800	1,500 / 1,500 / 1,200	2,000 / 2,000 / 1,600
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	41 / 37 / 33	41 / 38 / 34	44 / 40 / 36	44/ 41 / 37
Duct Work		Qty	EA	4		4 x 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 : 34.8°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.3% 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		-		
Multi-tenant Power Module		-		
Robot Cleaner		-		
Pre Filter (Washable)		-		
Ion Generator		-		
CO_2 Sensor		O		
Ventilation Kit		+		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)		
External Input (1 point)		-		
Wi-Fi		-		

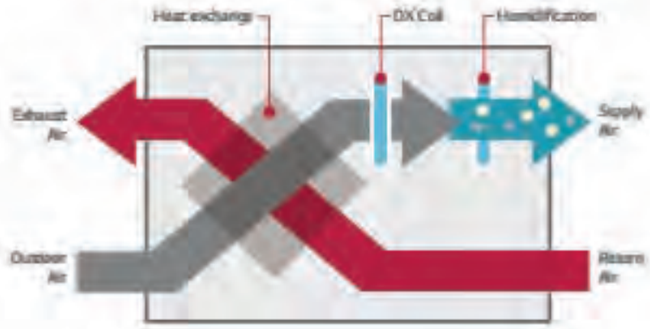
※ O : Applied, - : Not applied
Option : Refer to model name in table

Providing Cool & Warm Fresh Air

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

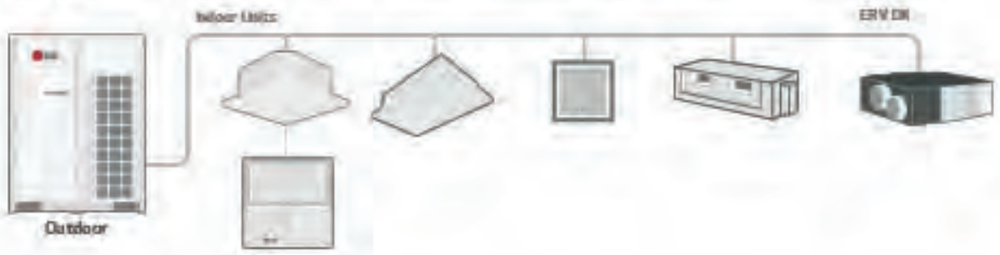
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



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 Conditioning Load	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72	6.73	9.80	11.72
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78
Enthalpy Exchange Efficiency	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66
Operation Range	Outdoor air Temperature	℃	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	160 / 150 / 110	170 / 120 / 80	150 / 100 / 70
Humidifier	System		Natural Evaporating Type			-		
	Amount	kg/h	2.70	4.00	5.40	-		
	Pressure Rnd Water	Mpa	0.02 ~ 0.49			-		
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant			R410A					
Power Supply		Ø, V, Hz	1, 220-240, 50/60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat Exchange System			Air to air cross flow total heat (Sensible + Latent heat) exchange			Air to air cross flow total heat (Sensible + Latent heat) exchange		
Heat Exchange Element			Specially processed non-flammable paper			Specially processed non-flammable paper		
Air Filter			Multi-sectional fibrous fleeces			Multi-sectional 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		
Piping Connection	Liquid	mm	Ø6.35			Ø6.35		
	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 in an anechoic chamber
6. The specifications, design and information here are subject to change without notice

Accessories

CHASSIS	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump	-					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNVS0					
EEV Kit	-					
Multi-tenant Power Module	-					
Robot Cleaner	-					
Pre Filter (Washable)	-					
Ion Generator	-					
CO_2 Sensor	AHCS100H0					
Ventilation Kit	-					
IR Receiver	-					
Zone Controller	-					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)					
External Input (1 point)	O					
Wi-Fi	-					

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

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CHILLER

INVERTER SCROLL CHILLER / FCU

INVERTER SCROLL CHILLER

Capacity (kW)		65	74	114	130	148	171	195	222
*16 Heat Pump Model (ACHH *** LBA0)									
Capacity (Kw)	Cooling	65	74	114	130	148	171	195	222
	Heating	70.3	82	120	140.6	164	180	210.9	246
Range of Unit Control		Up to 1,110 kW (5 CHILLERS) by AC Smart Controller 							
		Up to 1,110 kW (5 CHILLERS) by HMI Touch controller 							
		*Central controller ACP/ AC Smart controller are option							
		Up to 2,220 kW (10 CHILLERS) by ACP (Advanced Control Platform) 							

FCU

(kW)* / Btu/h		1.8 / 6k	2.7 / 9k	3.2 / 11k	4.1 / 14k	6 / 20k	7.2 / 24k	9 / 30k	10.5 / 36k	13 / 44k
Ceiling Mounted Cassette	4 Way Cassette	●	●	●	●	●	●	●	●	●
	Body Size (W×H×D, mm)	570 × 214 × 570			570 × 256 × 570	840 × 204 × 840		840 × 246 × 840		
	Front Panel	PT-UQC  , PT-QCHWD (U-Style) 				PT-UMC 				

(kW)* / Btu/h		1.5 / 4k	1.8 / 6k	2.5 / 9k	3.2 / 11k	3.9 / 13k	5.5 / 17k	6.8 / 22k
Ceiling Mounted Duct	Low ESP Duct	●	●	●	●	●	●	●
	Body Size (W×H×D, mm)	700 × 190 × 700		900 × 190 × 700		1,100 × 190 × 700		

@ All temperature for 2 pipes type only
* Based on Cooling Capacity : Cooling Capacity testing condition : Inlet/Outlet Water Temperature 7°C / 12°C , Indoor Air Temperature 27°CDB / 19°CWB

ACCESSORIES & PARTS FOR WATER PIPES CONNECTION

Remote Controller	Dry Contact	ETC	Not Offered by LG and to be Purchased Separately	
			Parts for Water Pipes Connection	Installation Parts


Premium
PREMTA000(A/B)


PDRYCB000
(Simple)

Remote Temperature Sensor
PQRSTA0


Rubber Packing
(4EA, 0023 ×1015 × t3.2)


Ball Valve
(2EA, FPT ¾", 20A)


Standard III [1]
PREMTB100 (White)
PREMTB810 (Black)


PDRYCB400
(2 points)


Wi-Fi Modem
PWFMDD200

Flexible Pipe
(2EA, FPF ¾", 350mm/500mm Ordered Specification)


Nipple
(2EA, MPT ¾", MPF ¾")


Standard II
PREMTB001 (White)
PREMTB801 (Black)


PDRYCB320
(for Thermostat)


Multi-tenant Power Module
PNPMB001


Nipple
(2EA, MPT ¾", MPF ¾")


Strainer
(1EA, FPF ¾", +30)


Simple
PQRCVCL00(W)
PQRCHCA00Q(W) (for Hotel)


Group Control Wire
PZCWRCG3


2Way Valve
(On/Off, 2-wires or 3wires)


Water Pipe
(2EA, 20A Copper or Stainless Tube)


Wireless Remote Controller
PWLSSB21H/C
(Heat Pump/Cooling Only)


2-Core, Control Wire
PZCWRC2


Valve Insulation Material
(1EA)


Extension Wire
PZCWRC1


Drain Hose*
(1EA, 5m)

1) It could not be operated some functions.
2) The dry contact for Modbus is built-in to the PCU as default.
3) Included with installation parts.

ULTIMATE INVERTER COMPRESSOR

As the core technology of the air conditioning system, the Ultimate Inverter Compressor of MULTI V 5 boasts its ultimate efficiency and durability, designed based on the unique technology and innovation of LG HVAC.

All Inverter

Provide high efficiency with low vibration and low noise

Six By-pass Valves

Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 by-pass valves

01. Vapor Injection

Wide operating range via two-stage compression

02. Enhanced Bearing with PEEK Material

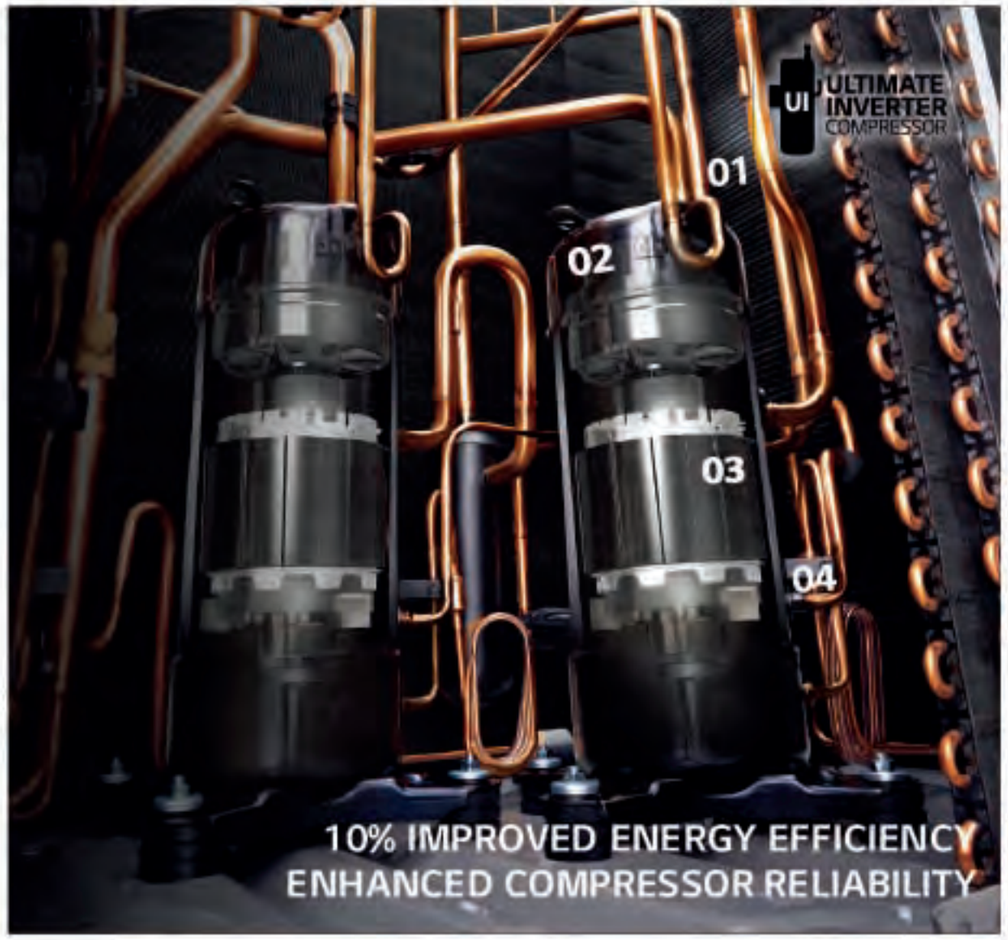
Newly invented system motivated by PEEK (Polyetheretherketone) bearing used for aero engine to increase operation range and durability

03. Wide Operation Range from 30 to 130 Hz

Improved part load efficiency at all operation ranges

04. HiPOR™ (High Pressure Oil Return)

Resolve compressor efficiency loss caused by oil return



Smart Farm

Small Industry (Process Water)

Hotel / Office

All Inverter Scroll Compressor

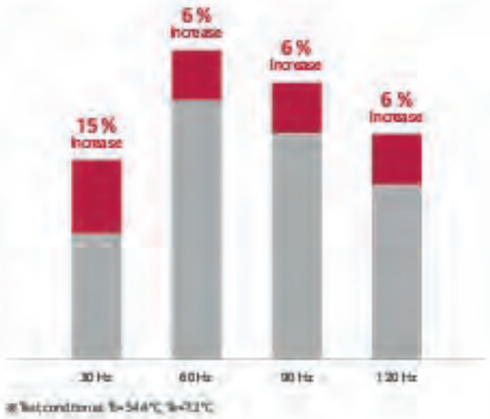
All inverter scroll compressor with HiPOR™ (Patent) is applied to improve full load and part load energy efficiency.

All Inverter System

Wide operation frequency range 30 ~ 130Hz

Compressor Efficiency

Compressor efficiency by Hz is increased through HiPOR™ application

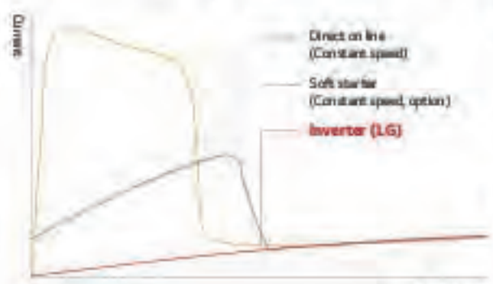


@Test conditions: Te=54.4℃, Ta=43.3℃

App. Inverter Comp. vs Constant Speed Comp.

Inverter compressor is more stable and efficient solution than Constant speed compressor.

Comparison of starting type



Compressor	Starting type	Starting current (Is / FLA*, %)
Constant speed	Direct on line	About 650 %
	Soft starter	200 ~ 350 %
Inverter (LG)	Inverter	No inrush current

* FLA : Full load ampere

Inverter's feature & benefits

When starting

Reduce starting torque below full load torque
➔ **Mechanical wear↓**

Decrease starting current under FLA
➔ **Circuit breaker capacity↓**

When operating

Low electric loss due to high value of the power factor**
➔ **Energy efficient**

Low power input in part load
➔ **High SEER**

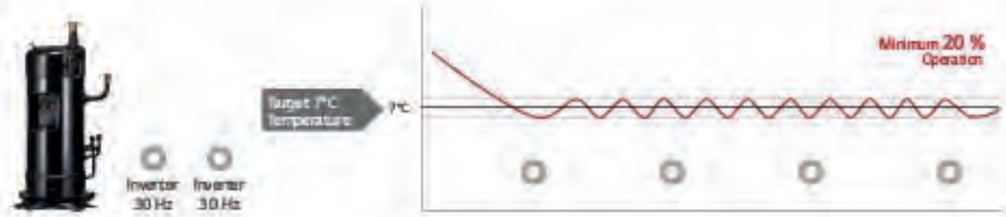
Continuously adjust compressor output according to the load (Compressor 15~125Hz)
➔ **Save energy**

** Power factor : Ratio between active power(kW) and total power(kVA)

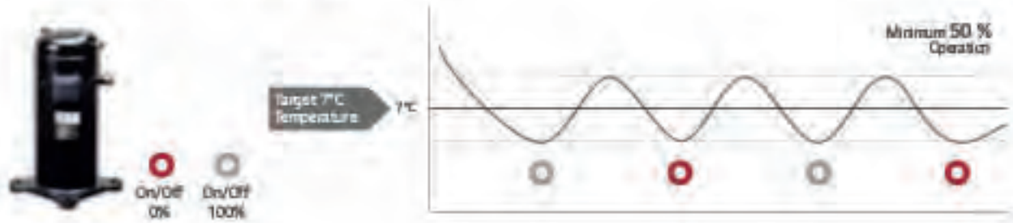
Lower Load Operation

20% part load operation and minimized water outlet temperature haunting with inverter scroll compressor.

LG Inverter Scroll Compressor



Normal On/Off Multi Compressor System

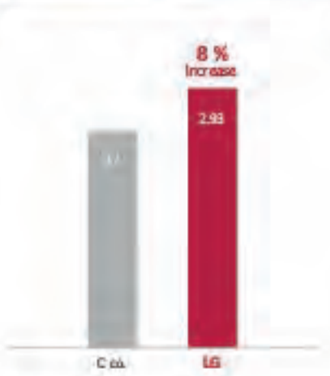


High Energy Efficiency

All inverter scroll compressors with Multi V technologies improve energy efficiency.

Cooling Performance

EER



Heating Performance

COP

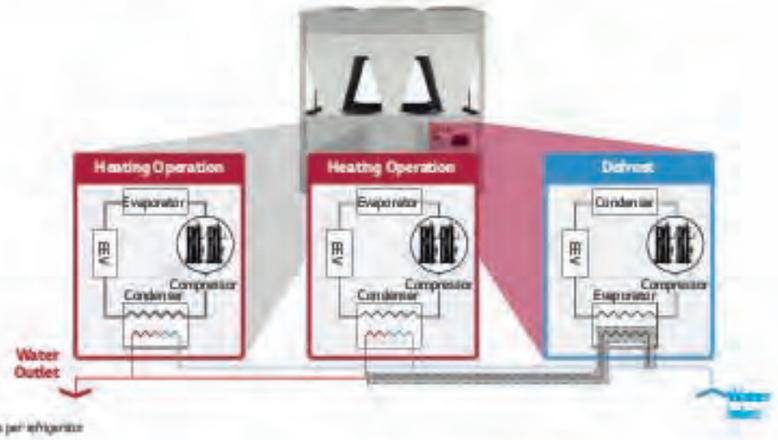
SCOP

@ 85 kW Heat pump model comparison

Continuous Heating Operation

Continuous heating minimizes the decrease of water outlet temperature during defrosting for multi circuit model.

Multi cycle can defrost each cycle individually to supply hot water continuously multi cycle.



* Applied up to 6 small compressors per refrigerator

Back Up Operation

If one compressor or one cycle needs to be repaired, backup operation helps the whole system to operate continuously.

All Inverter System

Cycle back up

Corrosion Resistance (Black Fin)

'Black Fin' heat exchanger is highly corrosion resistant, designed to perform in corrosive environments such as contaminated and humid condition.

Black Fin

- Longer lifespan, lower operational costs
- Strengthened corrosion resistant coating

Hydrophilic Coating

The hydrophilic coating minimizes moisture build up on the fin

Corrosion Resistant Black Coating

The black coating provides strong protection from corrosion.

Aluminum Fin

Black Box Function

Quick service can be done because operation data can be saved for 180 seconds before system failure.

Without Black Box Function

Check many failure causes and error codes in person

Take much service time and undergo trial and error

With Black Box Function

Search for the failure cause conveniently using recorded data

Save service time and diagnose it more accurately

Compact Size

Compact size reduces concern about installation and service space.

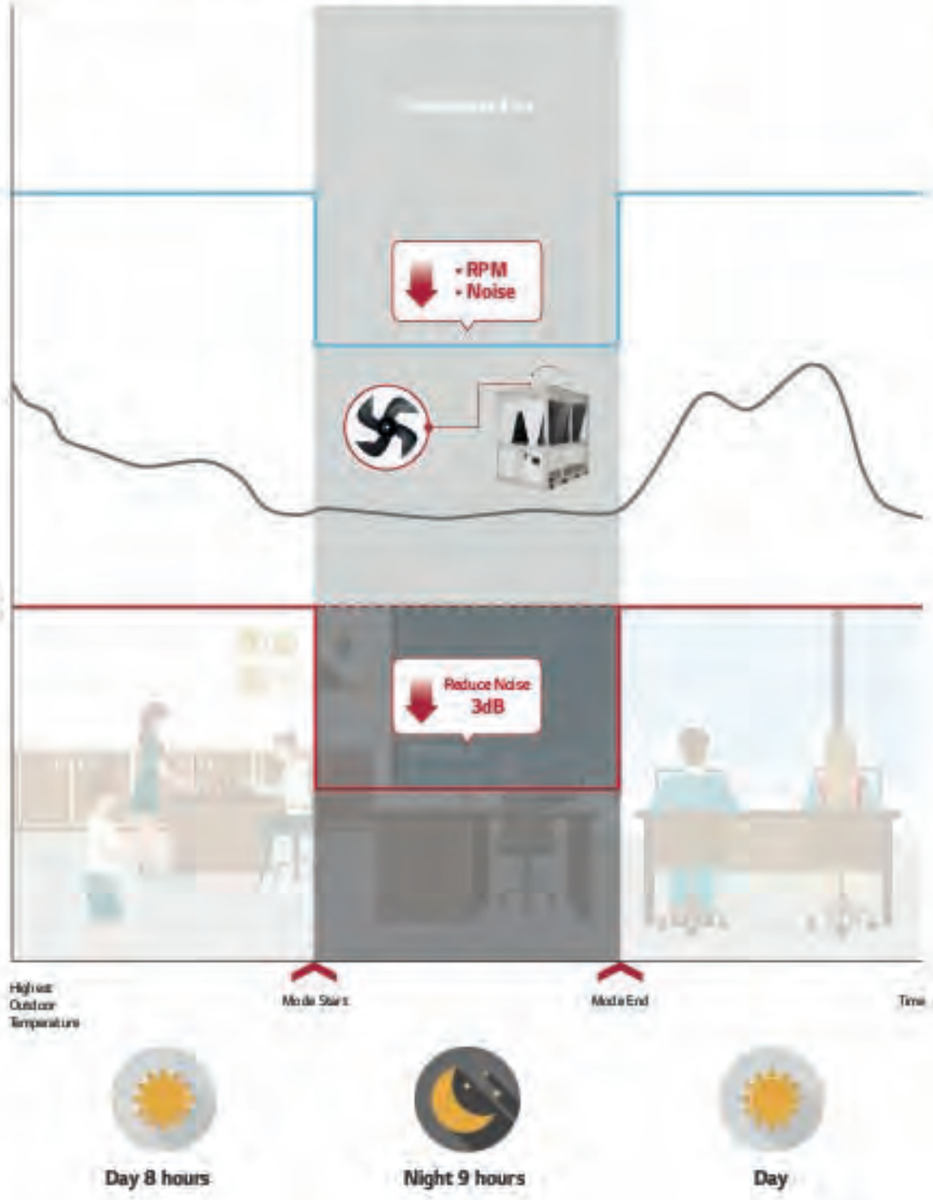
Low Noise Level

Lower noise can reduce noise pollution and provide a quieter environment.

Noise Comparison

Silent Operation Function (Cooling Mode)

Silent operation function can reduce noise levels at night time by adjusting the fan RPM.



ACHH020LBAB / ACHH023LBAB
ACHH033LBAB / ACHH040LBAB

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

Heat pump model

INVERTER SCROLL CHILLER			ACHH020LBAB	ACHH023LBAB	ACHH033LBAB	ACHH040LBAB
			H/P	H/P	H/P	H/P
Power		Phase,Line,V	3,4,380~415	3,4,380~415	3,4,380~415	3,4,380~415
Capacity	Cooling	kW	65	74	114	130
		RT	18.5	21	32.4	37
	Heating	kW	70.3	82	120	140.6
		RT	20	23	34	40
Input Power	Cooling	kW	22.2	27.4	36.8	44.4
	Heating	kW	21.6	27.3	35.3	43.3
Max operating Current		A	39	48	72	78
Efficiency	Cooling	W/W	2.93	2.70	3.10	2.93
	Heating	W/W	3.25	3.00	3.40	3.25
SEER		W/W	4.40	4.20	4.50	4.40
SCOP		W/W	3.30	3.30	3.30	3.30
Sound Pressure		dBA	67	68	68	68
Sound power	Cooling	dBA	86	87	87	90
	Heating		86	87	88	90
Compressor	Type	-	Scroll	Scroll	Scroll	Scroll
	No of Compressor	EA	2	2	4	4
	Oil Type	-	PVE	PVE	PVE	PVE
	Oil charge	cc	1,400 x 2	1,400 x 2	1,400 x 4	1,400 x 4
	Sump Heater	W	60 x 2	60 x 2	60 x 4	60 x 4
Refrigrant	Type	-	R410A	R410A	R410A	R410A
	Amount of Charged	Kg	7.0 kg x 2	7.0 kg x 2	7.0 kg x 4	7.0 kg x 4
Evaporator	Type	-	plate	plate	plate	plate
	Pressure drop	kPa	21.5	28.7	18.7	21.5
	Operating maximum pressure (Refrigrant / Water)	kg/cm²	42/10	42/10	42/10	42/10
	Standard Flow (Cooling/Heating)	LPM	186/200	211/235	327/345	372/400
	Inlet/Outlet diameter (Water pipe)	mm	50A/50A	50A/50A	65A/65A	65A/65A
Fan motor	Type	-	BLDC	BLDC	BLDC	BLDC
	No. of Fan	EA	2	2	4	4
	No. of Vanes	EA	4	4	4	4
	Air Flow Rate	CMM	210 x 2 @1,000 rpm	210 x 2 @1,000 rpm	210 x 4 @1,000 rpm	210 x 4 @1,000 rpm
	Motor power	W	900 x 2	900 x 2	900 x 4	900 x 4
Expansion unit		-	EEV	EEV	EEV	EEV
Weight		kg	520	520	970	970
Dimension	W	mm	765	765	1,528	1,528
	H	mm	2,293	2,293	2,293	2,293
	D	mm	2,154	2,154	2,154	2,154
Footprint		m² / RT	0.089	0.078	0.102	0.089
Protection Devices	High/Low Pressure	-	✓	✓	✓	✓
	Anti Frost	-	✓	✓	✓	✓
Remote Control		-	Modbus	Modbus	Modbus	Modbus
Power	Power Line	mm²	25.0mm² x 5C	25.0mm² x 5C	50.0mm² x 5C	50.0mm² x 5C
Outlet Temperature	Cooling	°C	5~20	5~20	5~20	5~20
	Heating	°C	30~55	30~55	30~55	30~55
Ambient Temperature	Cooling	°C	-15~48	-15~48	-15~48	-15~48
	Heating	°C	-30~35	-30~35	-30~35	-30~35
Earth Leakage Breaker		A	75	75	125	125

Notes:
1. Due to our policy of innovation some specifications may be changed without prior notification.
2. Capacities and Inputs are based on the following conditions:
   Cooling : Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C
   Heating : Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C
3. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3745 standard.
   Sound power level is measured ISO 9614-2:09 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.

ACHH045LBAB / ACHH050LBAB
ACHH060LBAB / ACHH067LBAB

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

Heat pump model

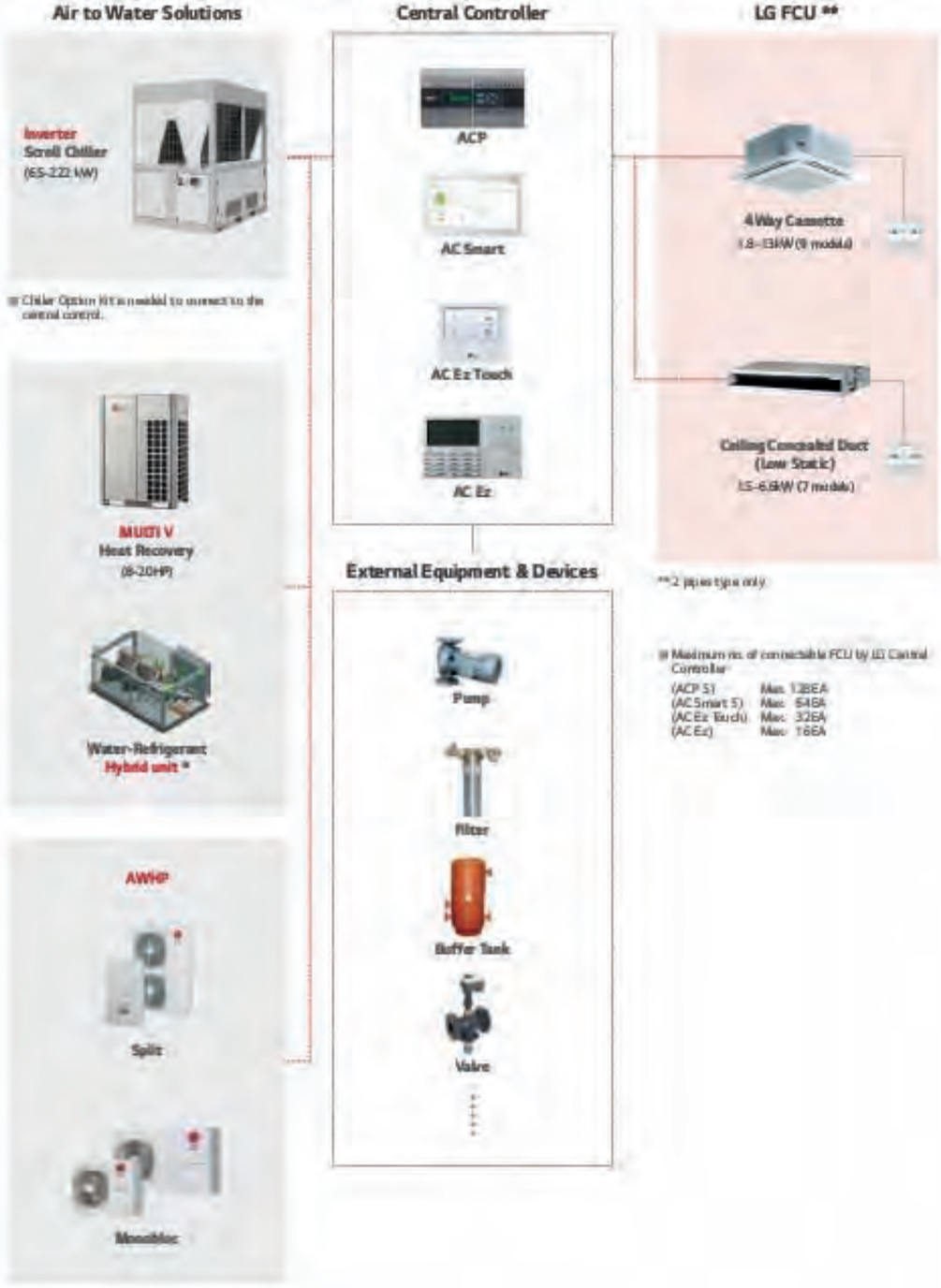
INVERTER SCROLL CHILLER			ACHH045LBAB	ACHH050LBAB	ACHH060LBAB	ACHH067LBAB
			H/P	H/P	H/P	H/P
Power		Phase,Line,V	3,4,380~415	3,4,380~415	3,4,380~415	3,4,380~415
Capacity	Cooling	kW	148	171	195	222
		RT	42.1	48.6	55.4	63.1
	Heating	kW	164	180	210.9	246
		RT	47	51	60	70
Input Power	Cooling	kW	54.8	55.2	66.6	82.2
	Heating	kW	54.7	52.9	64.9	82
Max operating Current		A	96	108	117	144
Efficiency	Cooling	W/W	2.70	3.10	2.93	2.70
	Heating	W/W	3.00	3.40	3.25	3.00
SEER		W/W	4.20	4.50	4.40	4.20
SCOP		W/W	3.30	3.30	3.30	3.30
Sound Pressure		dBA	68	68	68	68
Sound power	Cooling	dBA	91	88	91	92
	Heating		91	88	91	92
Compressor	Type	-	Scroll	Scroll	Scroll	Scroll
	No. of Compressor	EA	4	6	6	6
	Oil Type	-	PVE	PVE	PVE	PVE
	Oil charge	cc	1,400 x 4	1,400 x 6	1,400 x 6	1,400 x 6
	Sump Heater	W	60 x 4	60 x 6	60 x 6	60 x 6
Refrigrant	Type	-	R410A	R410A	R410A	R410A
	Amount of Charged	Kg	7.0kg x 4	7.0 kg x 6	7.0 kg x 6	7.0 kg x 6
Evaporator	Type	-	plate	plate	plate	plate
	Pressure drop	kPa	28.7	18.7	21.5	28.7
	Operating maximum pressure (Refrigrant / Water)	kg/cm²	42/10	42/10	42/10	42/10
	Standard Flow (Cooling/Heating)	LPM	411/470	490/518	558/600	633/705
	Inlet/Outlet diameter (Water pipe)	mm	65A/65A	65A/65A	65A/65A	65A/65A
Fan motor	Type	-	BLDC	BLDC	BLDC	BLDC
	No. of Fan	EA	4	6	6	6
	No. of Vanes	EA	4	4	4	4
	Air Flow Rate	CMM	210 x 4 @1,000 rpm	210 x 6 @1,000 rpm	210 x 6 @1,000 rpm	210 x 6 @1,000 rpm
	Motor power	W	900 x 4	900 x 6	900 x 6	900 x 6
Expansion unit		-	EEV	EEV	EEV	EEV
Weight		kg	970	1,430	1,430	1,430
Dimension	W	mm	1,528	2,291	2,291	2,291
	H	mm	2,293	2,293	2,293	2,293
	D	mm	2,154	2,154	2,154	2,154
Footprint		m² / RT	0.078	0.101	0.089	0.078
Protection Devices	High/Low Pressure	-	✓	✓	✓	✓
	Anti Frost	-	✓	✓	✓	✓
Remote Control		-	Modbus	Modbus	Modbus	Modbus
Power	Power Line	mm²	50.0mm² x 5C	95.0mm² x 5C	95.0mm² x 5C	95.0mm² x 5C
Outlet Temperature	Cooling	°C	5~20	5~20	5~20	5~20
	Heating	°C	30~55	30~55	30~55	30~55
Ambient Temperature	Cooling	°C	-15~48	-15~48	-15~48	-15~48
	Heating	°C	-30~35	-30~35	-30~35	-30~35
Earth Leakage Breaker		A	125	200	200	200

Notes:
1. Due to our policy of innovation some specifications may be changed without prior notification.
2. Capacities and Inputs are based on the following conditions:
   Cooling : Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C
   Heating : Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C
3. Sound pressure level is measured on the rated condition in the anechoic room by ISO 3745 standard.
   Sound power level is measured ISO 9614-2:09 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.


PREMIUM
Collection

Fan Coil Unit

FCU can be applied to various solutions using water. It allows not only to control equipment individually by using the remote controller, but also apply integrated control including control of some external equipment and devices through the central controller.

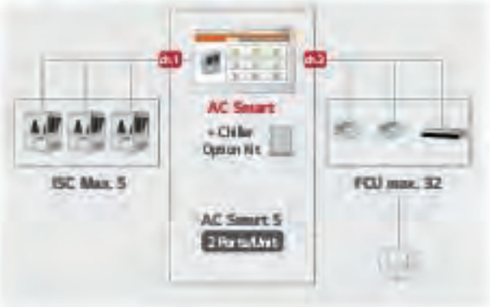


Interlocking Control

It allows interlocking control between FCU and Inverter Scroll Chiller(ISC) by using LG central controller such as ACP, ACS.
When FCU is being turned on/off, ISC turns on/off automatically by LG central controller.

What are the benefits?

The Total Cost(Equipment + installation + BMS) is greatly reduced. It eliminated the hassle of turning on the ISC first.

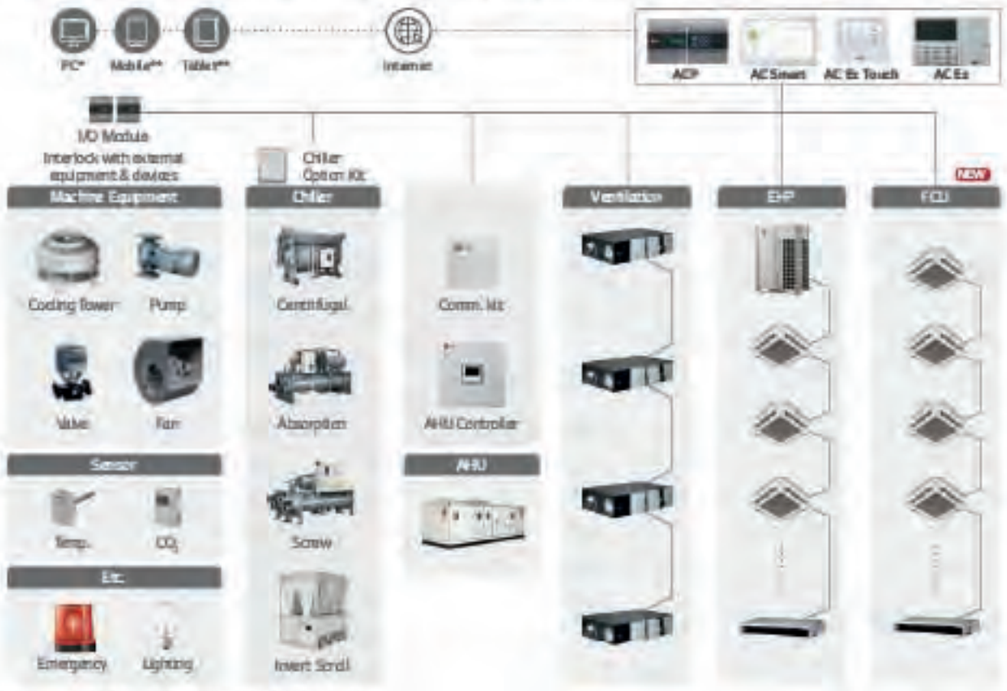


Central Controller

LG's central controller allows control of various external equipment and devices in addition to LG's equipment. (FCU, Chiller, EHP, etc.)

What are the benefits?

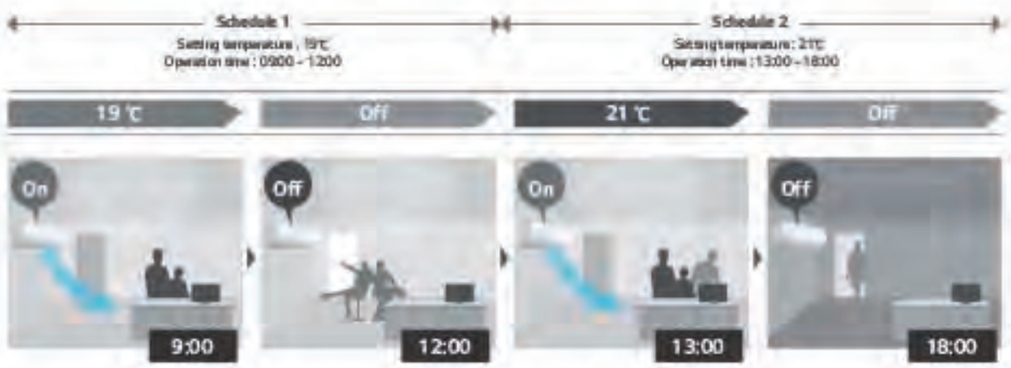
Integrated control of the system can be realized conveniently through the LG central controller (FCU + Chiller + EHP + - + External Equipment & Devices)



* Installation kit AC Ez ** Available on AC Ez, AC Ez Touch

Scheduled Operation

You can set 2 schedules for one day, and up to 14 schedules for a week.



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

Group Control with One Remote Controller

Up to 16 FCUs can be controlled with one wired remote controller. It can reduce installation costs and keep the wall interior clean.

Functions available through group control

- On / Off
- Mode Selection (Cooling / Heating / Fan / Dehumidification)
- Fan Speed (High / Mid / Low)
- Time Setting, Etc.

Maintaining clean walls

Installation costs saving

※ If you set up in 'Installation Setting' > Group Control 'Enabled' in your Wired Remote Controller, you can use many more functions.

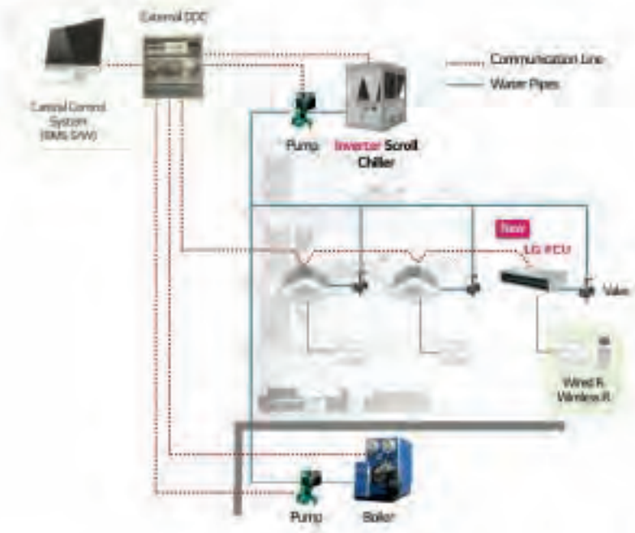
Easy Control
(Simple Test Run via LGMV)

LG MV (Monitoring View) helps engineers to inspect and monitor LG's air conditioning unit easily.

※ Search "Mobile LGMV" on Google market or App store then download the app.
※ Wi-Fi modem (PWFMDS100) is required by option.

Individual Control & External Central Control

It allows not only to control each room by using the remote controller, but also apply integrated control through a 3rd party central controller.



- Wired/Wireless Remote Controller in each space
  - On / Off / Temperature Setting
  - Adjusting the vane angle
- Individual Valve Control from FCU
- Interlocking with 3rd party automatic controllers through Modbus communication

Wi-Fi Remote Control

Control your air conditioners using the smart devices as Android or IOS based smartphones and voice commands via Google assistant.

App Store Google Play

※ Search "ThinQ" on Google market or App store then download the app.
* Wi-Fi modem (PWFMDD200) is required by option.

Access your air conditioner anytime and from anywhere

Operation under the revised weather conditions before changing conditions impact indoor comfort.

Simple operation for various functions

- On / Off **
- Mode Selection **
- Current temperature **
- Set temperature **
- Set fan speed **
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management
- Smart Diagnosis

** This functions are used by Google assistant & Amazon Alexa.
※ In some countries, the use of the Google assistant & Amazon Alexa system may be restricted.

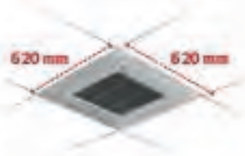
※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

Stylish Design Panel
(U-style 4Way cassette)

New 4-way cassette panel adapted a unibody shape and fits into the ceiling cell size.

Compact Size

Panel size is fit into the ceiling tile.



Interior Fit

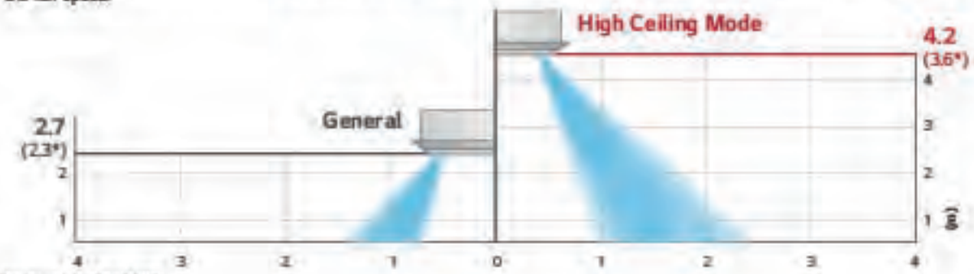
Lineless Surface

Detachable Corner

※ U-Style panel corresponds to the PT-QCHN0 panel for MF4A018 / 027 / 033 / 041C00A models.

High Ceiling Mode

Airflow in a space with a 4.2m ceiling height is possible with this indoor unit. Furthermore, air flow can be strengthened by adjusting the fan speed.



* For models less than 8.0 kW.

Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and helps to easily check leakages in the drain connection pipe. Moreover, button type holder design makes it is easy to install the panel to the body.

Detachable Corner Design

Drain Leakage Check

Hanger Adjust

One Push Panel

※ The detachable corner design is only applicable to the U-Style panel.

WF4A018CG0A / WF4A027CG0A
WF4A032CG0A / WF4A041CG0A
WF4A060CG0A

INDOOR				WF4A018CG0A	WF4A027CG0A	WF4A032CG0A	WF4A041CG0A	WF4A060CG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Running Current by Voltage			A	0.37-0.37-0.37	0.38-0.38-0.38	0.40-0.40-0.40	0.35-0.43-0.43	0.62-0.69-0.69
Capacity	Cooling	Condition A	kW (kcal/h)	1.8 (1,548)	2.7 (2,322)	3.2 (2,752)	4.1 (3,525)	6.0 (5,159)
		Condition B		1.2 (1,032)	1.8 (1,548)	2.2 (1,892)	2.8 (2,408)	4.0 (3,439)
		Condition C		1.5 (1,290)	2.3 (1,978)	2.8 (2,408)	3.6 (3,095)	4.9 (4,213)
		Condition D		0.7 (602)	1.2 (1,032)	1.4 (1,204)	1.8 (1,548)	2.5 (2,150)
	Heating	Condition A	kW (kcal/h)	1.9 (1,634)	2.7 (2,322)	3.3 (2,837)	4.5 (3,869)	7.2 (6,191)
		Condition B		2.2 (1,892)	3.1 (2,666)	3.9 (3,353)	5.4 (4,643)	8.5 (7,309)
Water Flow Rate	Cooling	Condition A	LPM	5.7	8.2	10.0	13.5	19.0
		Condition B		4.6	6.6	8.0	10.8	14.4
		Condition C		5.7	8.2	10.0	13.5	19.0
		Condition D		3.4	4.9	6.0	8.1	12.1
	Heating	Condition A	LPM	6.1	8.6	10.0	13.5	22.5
		Condition B		5.7	8.2	10.0	13.5	19.0
Head Loss	Cooling	Condition A	kPa	21.5	32.0	47.7	43.7	38.2
		Condition B		13.7	20.3	30.3	27.8	23.6
		Condition C		21.5	32.0	47.7	43.7	38.2
		Condition D		8.1	12.0	17.9	16.4	17.0
	Heating	Condition A	kPa	30.3	40.7	53.8	56.5	57.3
		Condition B		26.2	36.5	53.8	56.5	42.1
Power Input	Nominal		W	12	15	20	43	73
Running Current	Nominal		A	0.37	0.38	0.40	0.43	0.69
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Air Flow Rate (H / M / L)		m³/min	6.5 / 5.5 / 5.0	7.0 / 6.5 / 6.0	8.5 / 8.0 / 7.0	12.0 / 10.0 / 8.0	19.0 / 17.0 / 15.0
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC	BLDC
	Drive		-	CCW	CCW	CCW	CCW	CCW
	Output		W x No.	30 x 1	30 x 1	30 x 1	43 x 1	40 x 1
	FLA (Full Load Ampere)		A	0.37	0.38	0.40	0.42	0.69
Dimensions	Net (W x H x D)		mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840
Weight	Net		kg	12.9	13.9	12.9	14.0	20.8
	Shipping		kg	15.7	15.7	15.7	16.3	24.9
Air Filter	Type		-	-	-	-	-	-
Temperature Control			-	Microprocessor, Thermostat for cooling and heating				
Sound Absorbing / Thermal Insulation Material			-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse	Fuse	Fuse
Water Connecting Pipes	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure Level	Cooling (H / M / L)		dB (A)	35 / 34 / 33	38 / 37 / 35	43 / 40 / 38	48 / 43 / 38	48 / 46 / 42
	Heating (H / M / L)		dB (A)	35 / 34 / 33	38 / 37 / 35	43 / 40 / 38	48 / 43 / 38	48 / 46 / 42
Sound Power Level	Cooling (H / M / L)		dB (A)	40 / 39 / 38	44 / 42 / 40	50 / 46 / 44	56 / 50 / 45	55 / 53 / 49
	Heating (H / M / L)		dB (A)	40 / 39 / 38	44 / 42 / 40	50 / 46 / 44	56 / 50 / 45	55 / 53 / 49
Connecting Cable	Communication Cable (VCTF-SB)		mm² x core	1.0 - 1.5	1.0 - 1.5	1.0 - 1.5	1.0 - 1.5	1.0 - 1.5
	Name		-	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-MCHW0
Decoration Panel *1 (Accessory)	Dimensions (W x H x D)		mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620	950 x 35 x 950
	Color		-	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	RAL Code		-	120-4	120-4	120-4	120-4	120-4
	Name		-	-	-	-	-	-
Decoration Panel *2 (Accessory)	Dimensions (W x H x D)		mm	-	-	-	-	-
	Color		-	-	-	-	-	-
	RAL Code		-	-	-	-	-	-

WF4A072CG0A / WF4A090CG0A
WF4A105CG0A / WF4A130CG0A

INDOOR				WF4A072CG0A	WF4A090CG0A	WF4A105CG0A	WF4A130CG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Running Current by Voltage			A	0.75-0.88-0.88	0.89-0.89-0.89	1.4-1.39-1.39	1.7-1.88-1.88
Capacity	Cooling	Condition A	kW (kcal/h)	7.2 (6,191)	9.0 (7,739)	10.5 (9,028)	13.0 (11,178)
		Condition B		4.8 (4,127)	6.0 (5,159)	7.0 (6,019)	8.7 (7,481)
		Condition C		5.8 (4,987)	7.3 (6,277)	8.5 (7,309)	10.5 (9,028)
		Condition D		2.9 (2,494)	3.7 (3,181)	4.3 (3,697)	5.3 (4,557)
	Heating	Condition A	kW (kcal/h)	7.9 (6,793)	9.7 (8,340)	11.1 (9,544)	13.3 (11,436)
		Condition B		9.3 (7,997)	11.5 (9,888)	13.4 (11,522)	15.7 (13,500)
Water Flow Rate	Cooling	Condition A	LPM	21.0	28.0	33.0	37.8
		Condition B		15.9	21.2	25.0	28.6
		Condition C		21.0	28.0	33.0	37.8
		Condition D		13.4	17.8	21.0	24.1
	Heating	Condition A	LPM	24.5	28.0	33.0	39.1
		Condition B		21.0	28.0	33.0	37.8
Head Loss	Cooling	Condition A	kPa	45.9	56.3	80.4	68.2
		Condition B		28.4	31.5	44.0	38.9
		Condition C		45.9	56.3	80.4	68.2
		Condition D		20.4	23.5	31.3	26.4
	Heating	Condition A	kPa	67.6	48.9	68.3	71.7
		Condition B		49.6	48.9	68.3	68.3
Power Input	Nominal		W	93	103	167	246
Running Current	Nominal		A	0.88	0.89	1.39	1.88
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Air Flow Rate (H / M / L)		m³/min	21.0 / 19.0 / 17.0	25.0 / 23.0 / 19.0	31.0 / 28.0 / 25.0	41.0 / 36.0 / 30.0
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC
	Drive		-	CCW	CCW	CCW	CCW
	Output		W x No.	40 x 1	156 x 1	156 x 1	136 x 1
	FLA (Full Load Ampere)		A	0.88	0.89	1.39	1.88
Dimensions	Net (W x H x D)		mm	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
Weight	Net		kg	20.8	23.2	23.2	25.1
	Shipping		kg	24.9	27.5	27.5	29.7
Air Filter	Type		-	-	-	-	-
Temperature Control			-	Microprocessor, Thermostat for cooling and heating			
Sound Absorbing / Thermal Insulation Material			-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse	Fuse
Water Connecting Pipes	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure Level	Cooling (H / M / L)		dB (A)	51 / 48 / 46	51 / 47 / 43	55 / 53 / 51	57 / 53 / 50
	Heating (H / M / L)		dB (A)	51 / 48 / 46	51 / 47 / 43	55 / 53 / 51	57 / 53 / 50
Sound Power Level	Cooling (H / M / L)		dB (A)	57 / 55 / 52	59 / 54 / 51	63 / 61 / 58	65 / 61 / 57
	Heating (H / M / L)		dB (A)	57 / 55 / 52	59 / 54 / 51	63 / 61 / 58	65 / 61 / 57
Connecting Cable	Communication Cable (VCTF-SB)		mm² x core	1.0 - 1.5	1.0 - 1.5	1.0 - 1.5	1.0 - 1.5
	Name		-	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
Decoration Panel *1 (Accessory)	Dimensions (W x H x D)		mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Color		-	Morning fog	Morning fog	Morning fog	Morning fog
	RAL Code		-	120-4	120-4	120-4	120-4
	Name		-	-	-	-	-
Decoration Panel *2 (Accessory)	Dimensions (W x H x D)		mm	-	-	-	-
	Color		-	-	-	-	-
	RAL Code		-	-	-	-	-

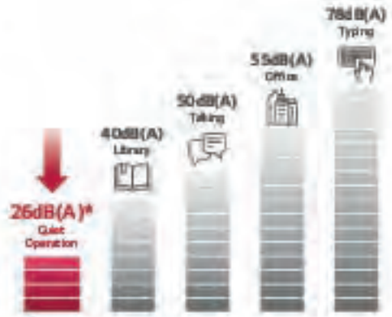
Quiet Operation

The noise level of Low EPS Ducts does not interfere with conversation at all.

Unit: dB(A)

	Sound Pressure (High / Medium / Low)
WFCA012RG0A	31 / 30 / 29
WFCA018RG0A	33 / 32 / 31
WFCA025RG0A	31 / 30 / 29
WFCA032RG0A	33 / 32 / 31
WFCA039RG0A	28 / 27 / 26
WFCA055RG0A	31 / 28 / 26
WFCA066RG0A	38 / 34 / 31

* Test condition Temperature : (Cooling) 27℃ DB / 19℃ WB, 35℃ DB / 24℃ WB
* Based on Low speed of WFCA039RG0A, WFCA055RG0A model
* Sound level may vary depending on the place or surrounding conditions in which the equipment is installed.



Two Thermistors Control

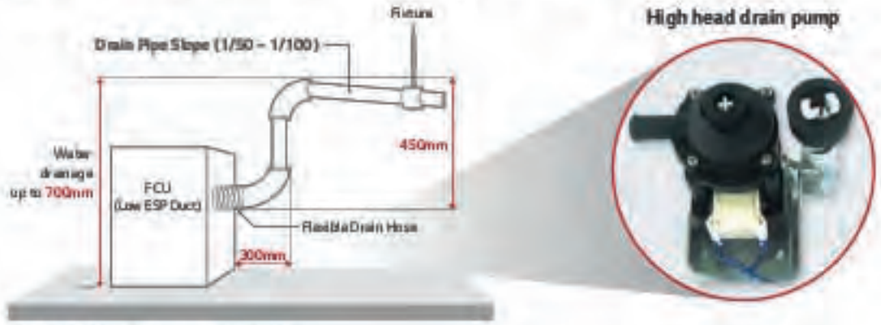
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. Two thermistors can check the optimal indoor air temperature for a more comfortable environment.

Compares temperatures sensed from different positions, and automatically selects the optimal temperature for users.

※ Need to connect the wired remote controller

High Head Drain Pump

High head drain pump automatically drains water up to a height of 700mm of drain-head height.



※ Most LG's FCUs have a high head drain pump built-in

Flexible Installation

LG's Low ESP Duct FCU allows air intake from the rear or the bottom sides according to requirements.

Various way for air intake

Easy Service & Maintenance

Service engineers don't need to open the whole panel for maintenance, since the panel is divided into 2 components; one for heat exchanger and the other for fans/motor. User can easily detach and re-attach the air filter in the available limited space.

WFCA012RG0A / WFCA018RG0A
WFCA025RG0A / WFCA032RG0A

INDOOR				WFCA012RG0A	WFCA018RG0A	WFCA025RG0A	WFCA032RG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50
Running Current by Voltage			A	0.29-0.29-0.29	0.31-0.31-0.31	0.32-0.32-0.32	0.35-0.35-0.35
Capacity	Cooling	Condition A	kW (kcal/h)	1.3 (1,118)	1.8 (1,548)	2.5 (2,150)	3.2 (2,752)
		Condition B		1.1 (946)	1.5 (1,290)	2.1 (1,806)	2.7 (2,322)
		Condition C		1.2 (1,032)	1.6 (1,376)	2.2 (1,892)	2.8 (2,408)
		Condition D		0.7 (602)	0.9 (774)	1.3 (1,118)	1.6 (1,376)
	Heating	Condition A	kW (kcal/h)	2.0 (1,721)	2.8 (2,408)	3.2 (2,752)	3.8 (3,267)
		Condition B		2.1 (1,806)	3.0 (2,581)	3.6 (3,095)	4.4 (3,783)
Water Flow Rate	Cooling	Condition A	LPM	4.0	5.6	7.4	9.3
		Condition B		4.0	5.6	7.4	9.3
		Condition C		4.0	5.6	7.4	9.3
		Condition D		2.7	4.0	5.0	6.3
	Heating	Condition A	LPM	6.2	8.5	9.7	11.4
		Condition B		4.0	5.6	7.4	9.3
Head Loss	Cooling	Condition A	kPa	1.2	3.3	7.6	11.8
		Condition B		1.2	3.3	7.6	11.8
		Condition C		1.2	3.3	7.6	11.8
		Condition D		0.8	2.3	5.3	8.2
	Heating	Condition A	kPa	4.4	8.5	12.5	17.8
		Condition B		2.0	3.5	6.9	11.4
Power Input	Nominal		W	8	17	20	27
Running Current	Nominal		A	0.29	0.31	0.32	0.35
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Air Flow Rate (H / M / L)		m³ / min	5.5 / 5.0 / 4.5	8.0 / 7.0 / 6.0	8.0 / 7.5 / 7.0	9.8 / 8.8 / 8.0
	External Static Pressure (Standard mode)		mmAq	0	0	0	0
	External Static Pressure (High mode)		mmAq	0	0	0	0
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC
	Drive		-	CW	CW	CW	CW
	Output		W x No.	19 x 1	19 x 1	19 x 1 + 5 x 1	19 x 1 + 5 x 1
	FLA (Full Load Ampere)		A	0.29	0.31	0.32	0.35
Dimensions	Net (W x H x D)		mm	700 x 190 x 700	700 x 190 x 700	900 x 190 x 700	900 x 190 x 700
	Shipping (W x H x D)		mm	842 x 235 x 766	842 x 235 x 766	1,042 x 235 x 766	1,042 x 235 x 766
Weight	Net		kg	17.5	17.5	22.0	22.0
	Shipping		kg	21.9	21.9	26.9	26.9
Air Filter	Type		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Temperature Control			-	Microprocessor, Thermistor for cooling and heating			
Sound Absorbing / Thermal Insulation Material			-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse	Fuse
Water Connecting Pipes	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure Level	Cooling (H / M /L)		dB(A)	31 / 30 / 29	33 / 32 / 31	31 / 30 / 29	33 / 32 / 31
	Heating (H / M /L)		dB(A)	31 / 30 / 29	33 / 32 / 31	31 / 30 / 29	33 / 32 / 31
Sound Power Level	Cooling (H / M /L)		dB(A)	38 / 36 / 35	46 / 43 / 39	41 / 40 / 39	46 / 43 / 41
	Heating (H / M /L)		dB(A)	38 / 36 / 35	46 / 43 / 39	41 / 40 / 39	46 / 43 / 41
Connecting Cable	Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5

WFCA039RG0A / WFCA055RG0A
WFCA066RG0A

INDOOR				WFCA039RG0A	WFCA055RG0A	WFCA066RG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50
Running Current by Voltage			A	0.35-0.37-0.37	0.36-0.44-0.44	0.70-0.71-0.71
Capacity	Cooling	Condition A	kW (kcal/h)	3.9 (3,353)	5.0 (4,299)	6.6 (5,675)
		Condition B		3.3 (2,837)	4.2 (3,611)	5.5 (4,729)
		Condition C		3.5 (3,009)	4.4 (3,783)	5.9 (5,073)
		Condition D		2.0 (1,721)	2.5 (2,150)	3.3 (2,837)
	Heating	Condition A	kW (kcal/h)	4.2 (3,611)	5.3 (4,557)	6.6 (5,675)
		Condition B		3.0 (4,299)	6.4 (5,503)	8.0 (6,879)
Water Flow Rate	Cooling	Condition A	LPM	13.3	17.0	21.7
		Condition B		13.3	17.0	21.7
		Condition C		13.3	17.0	21.7
		Condition D		9.0	11.5	14.7
	Heating	Condition A	LPM	13.3	17.0	21.7
		Condition B		13.3	17.0	21.7
Head Loss	Cooling	Condition A	kPa	21.7	39.0	53.9
		Condition B		21.7	39.0	53.9
		Condition C		21.7	39.0	53.9
		Condition D		5.7	27.3	37.6
	Heating	Condition A	kPa	30.3	48.3	71.7
		Condition B		30.3	48.3	71.7
Power Input	Nominal		W	29	44	81
Running Current	Nominal		A	0.37	0.44	0.71
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Air Flow Rate (H / M / L)		m³ / min	10.7 / 9.3 / 7.2	14.4 / 10.7 / 9.3	20.1 / 17.3 / 14.4
	External Static Pressure (Standard mode)		mmAq	0	0	0
	External Static Pressure (High mode)		mmAq	0	0	0
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Drive		-	CW	CW	CW
	Output		W x No.	19 x 2	19 x 2	19 x 2
	FLA (Full Load Ampere)		A	0.37	0.44	0.71
Dimensions	Net (W x H x D)		mm	1,100 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
	Shipping (W x H x D)		mm	1,242 x 235 x 766	1,242 x 235 x 766	1,242 x 235 x 766
Weight	Net		kg	26.2	26.2	26.2
	Shipping		kg	30.7	30.7	30.7
Air Filter	Type		-	Pre Filter	Pre Filter	Pre Filter
Temperature Control			-	Microprocessor, Thermistor for cooling and heating		
Sound Absorbing / Thermal Insulation Material			-	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse
Water Connecting Pipes	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure Level	Cooling (H / M /L)		dB(A)	28 / 27 / 26	31 / 28 / 26	38 / 34 / 31
	Heating (H / M /L)		dB(A)	28 / 27 / 26	31 / 28 / 26	38 / 34 / 31
Sound Power Level	Cooling (H / M /L)		dB(A)	43 / 41 / 40	47 / 42 / 41	55 / 52 / 48
	Heating (H / M /L)		dB(A)	43 / 41 / 40	47 / 42 / 41	55 / 52 / 48
Connecting Cable	Communication Cable (VCTF-SB)		mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5

244 - 319

CONTROL SOLUTIONS

INDIVIDUAL CONTROL / CENTRALIZED CONTROL / INTEGRATION DEVICE

The perfect choice for innovative building management

LG BECON HVAC SOLUTION

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

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.

ENERGY SAVING

ENERGY SAVING

PDI

AC Smart 5

AC Manager 5

AC Ez Touch

SMART MANAGEMENT

SMART MANAGEMENT

Standard III Remote Controller

Premium Remote Controller

Wi-Fi Modem (with ThinQ)

EASY EXPANDABILITY

EASY EXPANDABILITY

Modbus Gateway

ACP Lonworks

Dry Contact

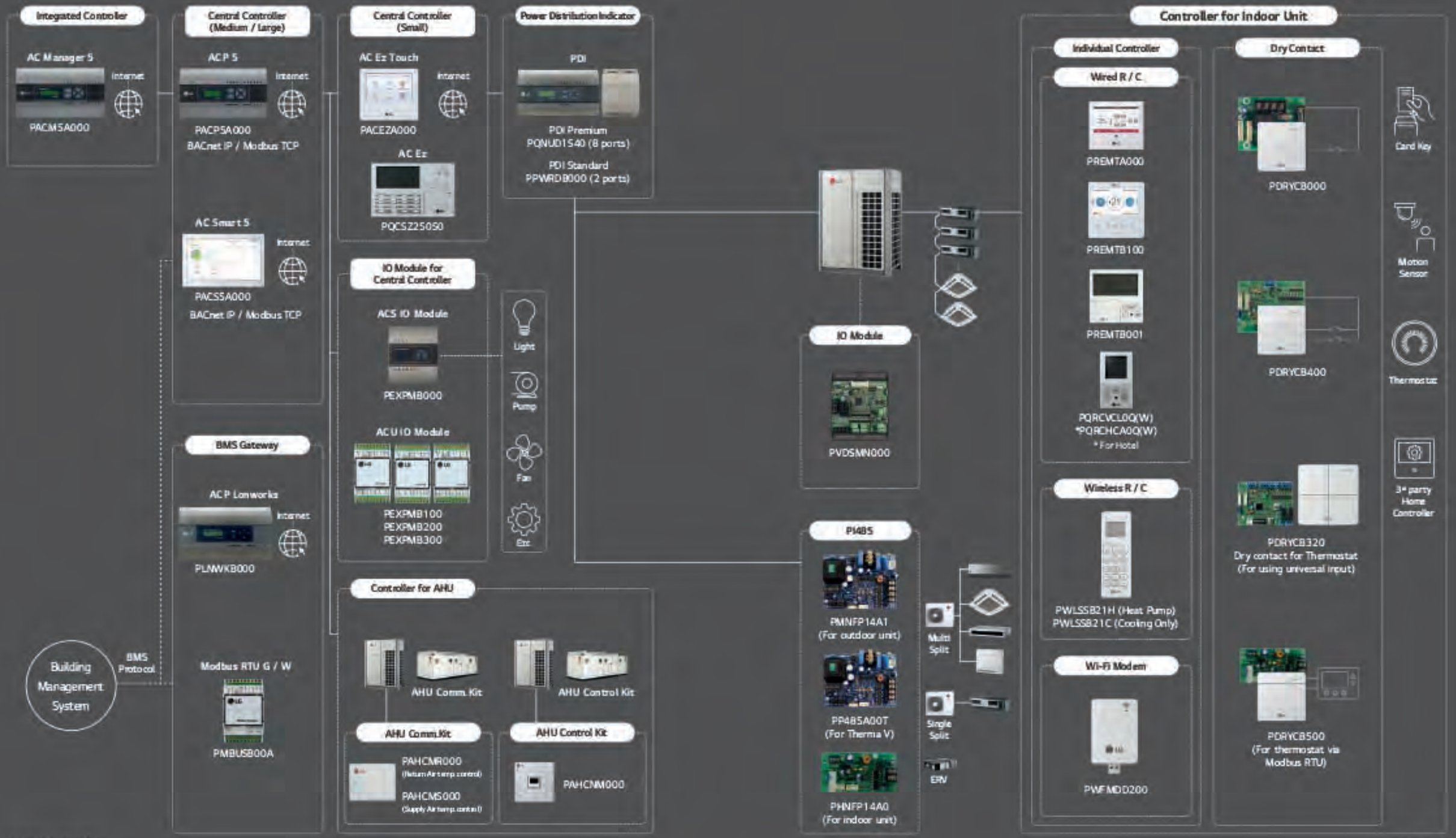
ACP 5

ACS IO Module

ACU IO Module

CONTROL SYSTEM ARCHITECTURE

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



Feature Functions

Controller Name		Wired Remote Controller					Wireless Remote Controller	Wi-Fi Modem
		Premium	Standard III	Standard II	Simple	Simple (Hotel)		
Model Name		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTB110	PREMTB001 PREMTB101	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P) PWLSSB21C (C/O)	PWRMDD200
Basic	On / Off	O	O	O	O	O	O	O
	Fan Speed Control	O	O	O	O	O	O	O
	Temperature Setting	O	O	O	O	O	O	O
	Mode	O	O	O	O	-	O	O
	Auto Swing	O	O	O	O	O	O	O
	Vane Control (Lower Angle)	O	O	O	O	O	O	O
	E.S.P (External Static Pressure)	O	O	O	O	O	-	-
	Electric Failure Compensation	O	O	O	O	O	-	O
	Indoor Temperature Display	O	O	O	O	O	O	O
	All Button Lock (Child Lock)	O	O	O	O	O	-	-
	Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off	Weekly
	Wi-Fi AP Mode Setting	O	O	O	O	O	O	-
	Additional Mode Setting[1]	O	O	O	-	-	-	-
	Time Display	O	O	O	-	-	O	-
	Humidity Display	O	O	-	-	-	-	-
	Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
	Filter Sign	O	O	O	-	-	-	-
Advanced	Energy Management[2]	O	O	O	-	-	-	-
	Dual Set Point	O	O	-	-	-	-	-
	Human Detection	-	O	-	-	-	-	-
	Temp, Humidity Compensation	O	O	-	-	-	-	-
	Air Purify Control	-	O	-	-	-	O	O
	Air Quality Level	-	O	-	-	-	-	O
	Dual Vane (6 Airflow mode)	-	O	-	-	-	O	O
ETC	Operation Status LED	O	O	O	O	O	-	-
	Wireless Remote Controller Receiver	O [3]	-	O [3]	O [3]	O [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 123 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26	48 x 68 x 14
	Black Control for Screen Saver	O	O	-	-	-	-	-

※ O : Applied, - : Not Applied
1) It might not be indicated or operated at the partial product.
2) Centralized control (PACSZA000 / PACSSA000 / PACPSA000 / PLNM80000) and PDI (PDNUDI S40 / PPWPD6000) 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

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.

PREMTB100 (White) / PREMTBB10 (Black)

4.3 inch colored screen with modern design.

MODEL NAME	PREMTB100 / PREMTBB10
On / Off	O
Fan Speed Control	O
Temperature Setting	O
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting [1]	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	O
Vane Control (Louver direction)	O
E.S.P (External Static Pressure) [2]	O
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	O
Electric Failure Compensation	O
Lock	All / On & Off / Mode / Set temperature range
Filter Sign	O (Remain time + Alarm)
Energy Management	Check Energy Usage [4] / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	O
Air Purify Control [3]	O
Air Quality Level [3]	O
Indoor Temperature Display	O
Indoor Humidity Display	O
Human Detection	O
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Back Light for Screen Saver	O
Home Leave	2 set points control

※ O: Applied, -: Not Applied
1) This function is available in some product. (Refer to the product data Book).
2) This function is available for duct type.
3) This function requires PQ (PQNUD1S40 / PPARB1000) to be installed.
4) This function is available for indoor units that provide corresponding function
Note:
1. Indoor unit needs to have functions requested by the controller.
2. 2 set points control works normally with MULTI V (Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, it may not work properly.

Design

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

Comfort & Air Purification

- CO_2 level monitoring (For ERV)
- Air quality level monitoring
- Air purify control

Energy Contents

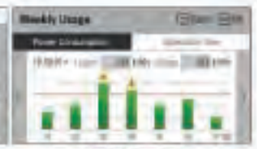
- Power consumption monitoring
- Operation time monitoring
- Temperature setback
- Time limit control

Advanced Functions

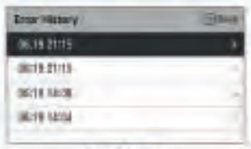
- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost noise setting
- ODU capacity control
- Schedule functions

Cool Heat Dry Fan Auto

Comfort Level



Energy Contents



Error History

Standard III Wired Remote Controller

Air Quality Level Display

Easy check for indoor air quality

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

CLASSIFICATION	GOOD	MODERATE	UNHEALTHY	POOR
* PM10 (㎍/ m3)	0 ~ 54	55 ~ 154	155 ~ 254	255~
* PM2.5 (㎍ / m3)	0 ~ 12	13 ~ 35	36 ~ 55	56~
* PM1.0 (㎍ / m3)	0 ~ 12	13 ~ 35	36 ~ 55	56~

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

Environment Display

Displaying environment information for the more user comfort

Temperature / Humidity / Comfort level / CO_2 concentration

Dual Set Point

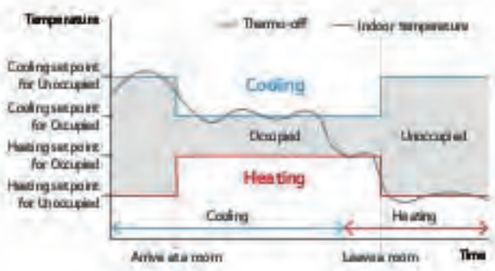
Auto changeover for convenience

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

Setback for energy savings and comfort

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

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



Energy Savings

Energy Management

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

※ PI3 (PQNU071540 / PFMR080000) is required.

Instantaneous Power Check

Energy Usage Target Setting

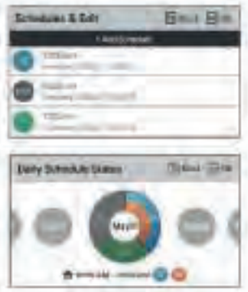
Time Limit Control

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

Schedule Function

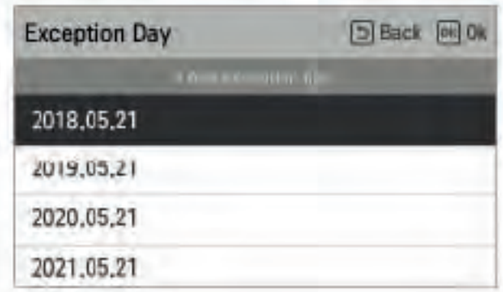
Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

Possible to set up exceptional date on regular schedule.



External Device On / Off

External Equipment Control

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

Customized Interlocking Control

User can create a automatic control pattern. For example, turning the temperature drops below or rises above a certain temperature.

Premium Wired Remote Controller

PREMTA000 [1] / PREMTA000A [2] / PREMTA000B [2]

5 inch full touch screen with a premium design.

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

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

※ O : Applied, - : Not Applied
* It might not be indicated or operated at the partial product.
2) This function is available for duct type.
3) This function requires PCI (PCNUCT540 / PPWR0B000) 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.

Easy Energy Management

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

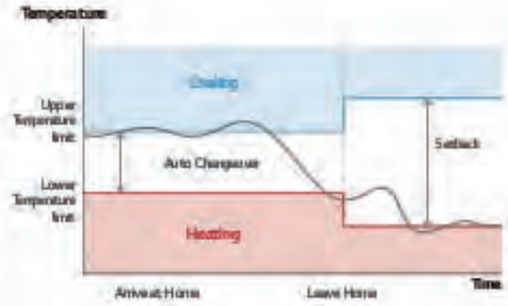
Easy Scheduling

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

Dual Set Point

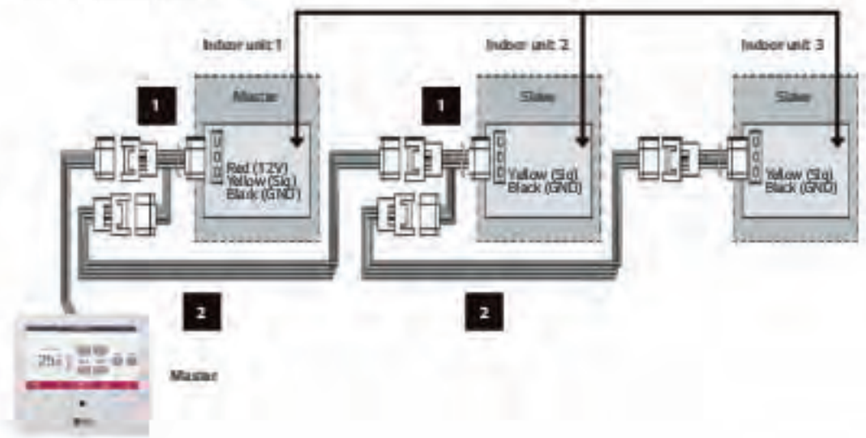
- Auto changeover switching the operation mode automatically
- Setback (Leave Home) Changing status by occupied / unoccupied

* This function is only for Heat Recovery system and Single Heat pump.



Group Control

- Max. 16 indoor units by one remote controller



Standard II Wired Remote Controller

PREMTB001 / PREMTBB01

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

Features & Benefits

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

MODEL NAME	PREMTB001 / PREMTBB01
On / Off	O
Fan Speed Control	O
Temperature Setting	O
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	O
Vane Control (Louver direction)	O
E.S.P (External Static Pressure)	O
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	O
Electric Failure Compensation	O
Child Lock	O
Filter Sign	O (Remain time + Alarm)
Operation Status LED	O
Indoor Temperature Display	O
Wireless Remote Controller Receiver	O*1
Size (W x H x D, mm)	120 x 123 x 16
Black Light	O
Power Consumption Monitoring	O*2
Check Model Information	O

※ O : Applied, - : Not Applied
1) For ceiling type ducted unit
2) This function requires RDI (PCNUDI340) / PAWRDB000 to be installed
Note : Indoor unit needs to have functions requested by the controller.

Simple Wired Remote Controller

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

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

Features & Benefits

- Small remote control with minimal functionality

MODEL NAME	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	O	O
Fan Speed Control	O	O
Temperature Setting	O	O
Mode	Cool / Heat / Dry / Fan / Auto	-
Auto Swing	O	O
Vane Control (Louver direction)	O	O
E.S.P (External Static Pressure)	O	O
Electric Failure Compensation	O	O
Child Lock	O	O
Indoor Temperature Display	O	O
Wireless Remote Controller Receiver	O *1	O *1
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Black Light	O	O

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

Wireless Remote Controller

PWLSSB21H (Heat Pump), PWLSSB21C (Cooling Only)

Handy and portable wireless type.

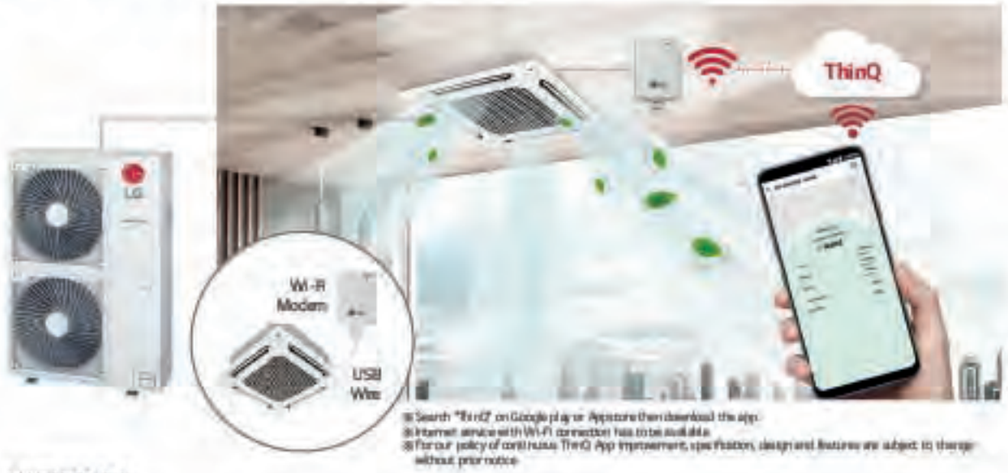
Features & Benefits

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

MODEL NAME	PWLSSB21H (H/P), PWLSSB21C (C/O)
On / Off	O
Fan Speed Control	O *1
Temperature Setting	O
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting	Air Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	O
Vane Control (Louver direction)	O
Reservation	Sleep / On / Off
Time Display	O
Indoor Temperature Display	O
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51 x 153 x 28

※ O : Applied, - : Not Applied
1) For some models, you can use 'Slow' fan speed function.

Wi-Fi Modem



※ Search "ThinQ" on Google play or Appstore then download the app.
※ Internet service with Wi-Fi connection has to be available.
※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

PWFMDD200

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

Features & Benefits

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity
- LG's exclusive Home Appliances control app (ThinQ) is available.
- Simple operation for various functions.

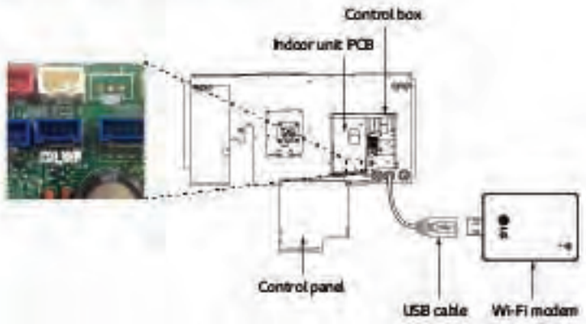
- On / Off
- Operation Mode
- Current / Set Temperature
- Fan Speed
- Vane Control *1
- Reservation (Sleep, Weekly On / Off)
- Energy Monitoring *2
- Filter Management
- Error Check
- Air Purify *3

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

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

Note :
1. Functionality may be different according to each IDU model.
2. User interface of application shall be revised for it's design and contents improvement.
3. Application is optimized for smart phone use, so it may not be well functioning with tablet devices.

Installation Scene



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

ThinQ Connectivity

Connection (Pairing) Order

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

* 5GHz networks may not be supported.

❹ ThinQ

ThinQ Mobile App

Simple operation for various functions

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

Vane Control

Air Purify

Easy Management

Reservation

Energy Monitoring

Smart Diagnosis

Filter Management

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

Feature Functions

Controller Name			AC Ez	AC Ez Touch	AC Smart 5 *1	ACP 5 *1	ACP Lonworks	AC Manager 5 *1
Model Name			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PUNWKB000	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	8,192
		A/C + ERV	32	64	128	256	64	8,192
		AHU	-	-	16	16	16 *5	16 x 32
		Chiller	-	-	5 Optional *4	10 Optional *6	-	10 x 32
		Commercial Air Purifier *1	-	-	64	128	-	128 x 32
Compatibility	Air Conditioner		O *3	O	O	O	O	O
	Ventilation (ERV / ERV DX)		O *3	O	O	O	O	O
	Heating		-	O	O	O	O	O
	AHU		-	-	O	O	O	O
	Chiller		-	-	O *6	O *6	-	O
	Commercial Air Purifier *1		-	-	O *6	O *6	-	O
	ACS IO		-	-	O	O	O *3	O
Additional Function	Add Drawing		-	-	O *6	O *6	O *3	O
	Group Management		-	O	O *6	O *6	O *3	O
	Auto Changer Over		-	O	O *6	O *6	O *3	O
	Set Back		-	O	O *6	O *6	O *3	O
	Dual Setpoint		-	O	O	O	O *3	O
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter
	Indoor Unit Lock		O *3	O	O	O	O *3	-
	Cycle Monitoring		-	-	O	O	O *3	O
	Air Purify		-	O *3	O *6	O *6	-	O
Schedule			O	O	O *6	O *6	O *3	O
Auto Control	Peak Control	Energy & Priority Control	-	O	O	O	O *3	O
		Outdoor Unit Capacity Control	-	-	O *6	O *6	O *3	O
	Time limit control		-	-	O *6	O *6	O *3	O
	Interlocking		-	-	O *6	O *6	O *3	O
Energy Navigation			-	-	O *6	O *6	-	O
Energy Report	Power		-	O	O	O	O *3	O
	Gas		-	-	O	O	O *3	O
	Run time		-	-	O *6	O *6	O *3	O
	Save to PC / USB (Excel)		-	-	PC / USB *3	PC	PC	PC
Trend Reporting			-	-	O *6	O *6	-	O
History	Report (Control / Error)		-	Error	O *6	O *6	O *3	O
	Send Email		-	-	O *6	O *6	O *3	O
	Save to PC / USB (Excel)		-	-	PC / USB	PC	O *3	PC
etc	Summer Time		-	O	O *6	O *6	O *3	O
	Outdoor Unit Oil-Return Operation		-	-	O *6	O *6	O *3	-
	User Authority		-	Password	O *6	O *6	O *3	O
	PC Access		-	O	O *6	O *6	O *3	O

※ O : Applied, - : Not Applied
1) The Commercial Air purifier must additionally install PMES (PMBP14A0)
2) Hard Lock
3) Except for some features (Individual lock, Limit temp, etc.)
4) Except for some features (User mode, additional function, etc.)
5) This function is not applied for BMS port 5
6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS
7) ACP 5 or AC Smart 5 is required.

AC Ez Touch

* Internet connection: mobile or Labels are not supported.
* Appropriate IP&PORT should be used according to PDB.

PACEZA000

Smart management with 5 inch touch screen for small site.

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

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

CENTRALIZED CONTROL

PC Access

Users can control each space efficiently through PC access.

* IPv6 supported
- Open port: 80 & 2300
- Fix public IP is mandatory (Router configuration of NAT is required.

Energy Statistics (with PDI)

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

Energy Mode

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

Air Purify Control & Monitoring

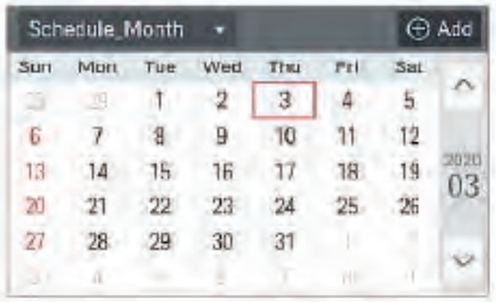
AC Ez Touch

Alarm Indicator

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

Schedule

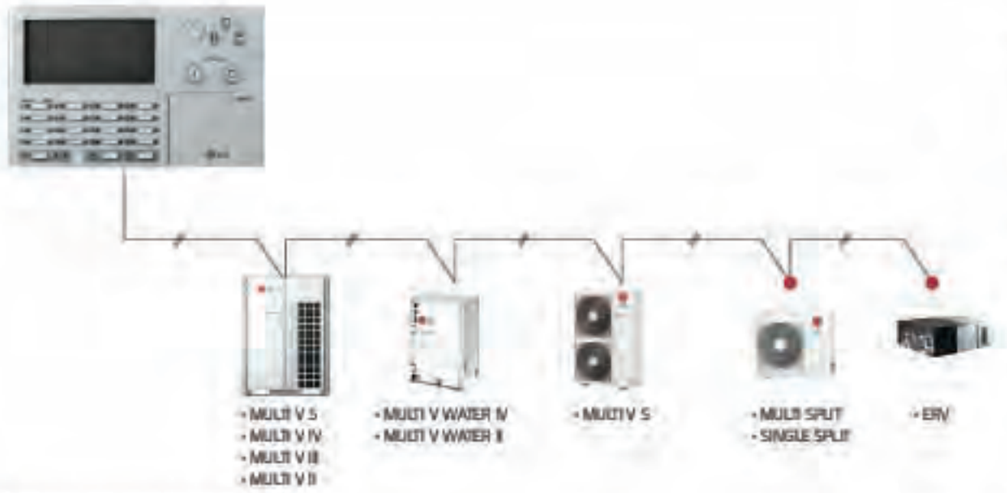
Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.



Group / Individual Control

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

AC Ez



* Appropriate R-485 should be used according to PDB.

PQCSZ25050

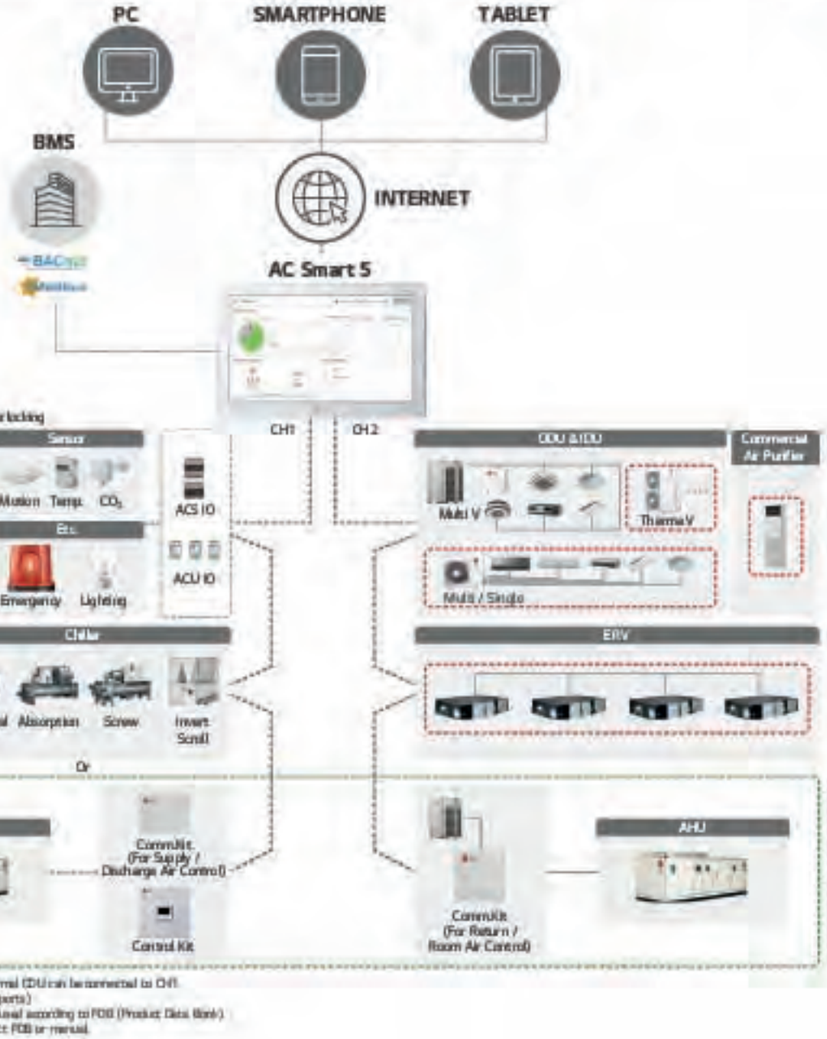
Easy to manage up to 32 indoor units, including ERV with simple interface.

Features & Benefits

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

MODEL NAME	PQCSZ25050
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERVDX
Display	LED / LCD Display
Power	DC12V, 1A
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	O
Slave Mode (Interlocking with higher level controller)	O
Schedule	Weekly

※ O: Applied, -: Not Applied



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

AC Smart 5

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.

PACS5A000

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

- Max. 128 IDU control
- Schedule
- Map view (Visual navigation)
- Energy monitoring
- Air Purify
- Multi level grouping

MODEL NAME	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU kit / LG Chiller ‡1 / Commercial Air Purifier
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display ‡2	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO2 Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	O
Slave Mode (Interlocking with higher level controller)	O
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	O
Emergency Stop & Alarm Display	O
Power Consumption Monitoring (with PDI)	O
Auto Changeover / Setback	O
Temperature Limit	O
Operation Time Limit	O
Visual Navigation	O
Operation Trend	O
Air Purify Control	O
Air Quality Level	O
Interlock Control	O
Virtual Group Control	O
ODU Capacity Control	O
Energy Navigation (with PDI)	O
Daylight Saving Time	O
External IO Port	DI 2 / DO 2
BMS Integration ‡3	BACnet IP / Modbus TCP
IPv6 Support	O

※ O : Applied, - : Not Applied
‡1) Chiller Option Kit (PQHLA000) is required.
‡2) It is only available in some products.
‡3) For the detail point list, please refer to the installation manual.

AC Smart 5

Air Purify Total Solution

Air Purify Control

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

* The Commercial Air purifier must additionally install PMS5(HW#1) (AC)

Air Quality Level Monitoring

System Air Conditioner

Commercial Air Purifier

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.

HTML5 web design

Visualized Control

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

Multi Level Group Composition

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

Energy Management

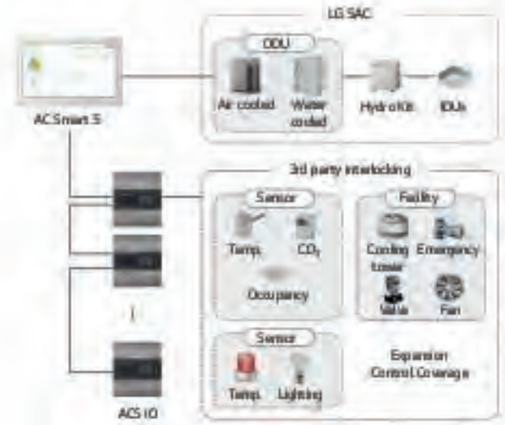
The energy navigation function allows the air conditioner's operational energy usage to be manged monthly, weekly and yearly. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.

Building Management System (BMS) Integration

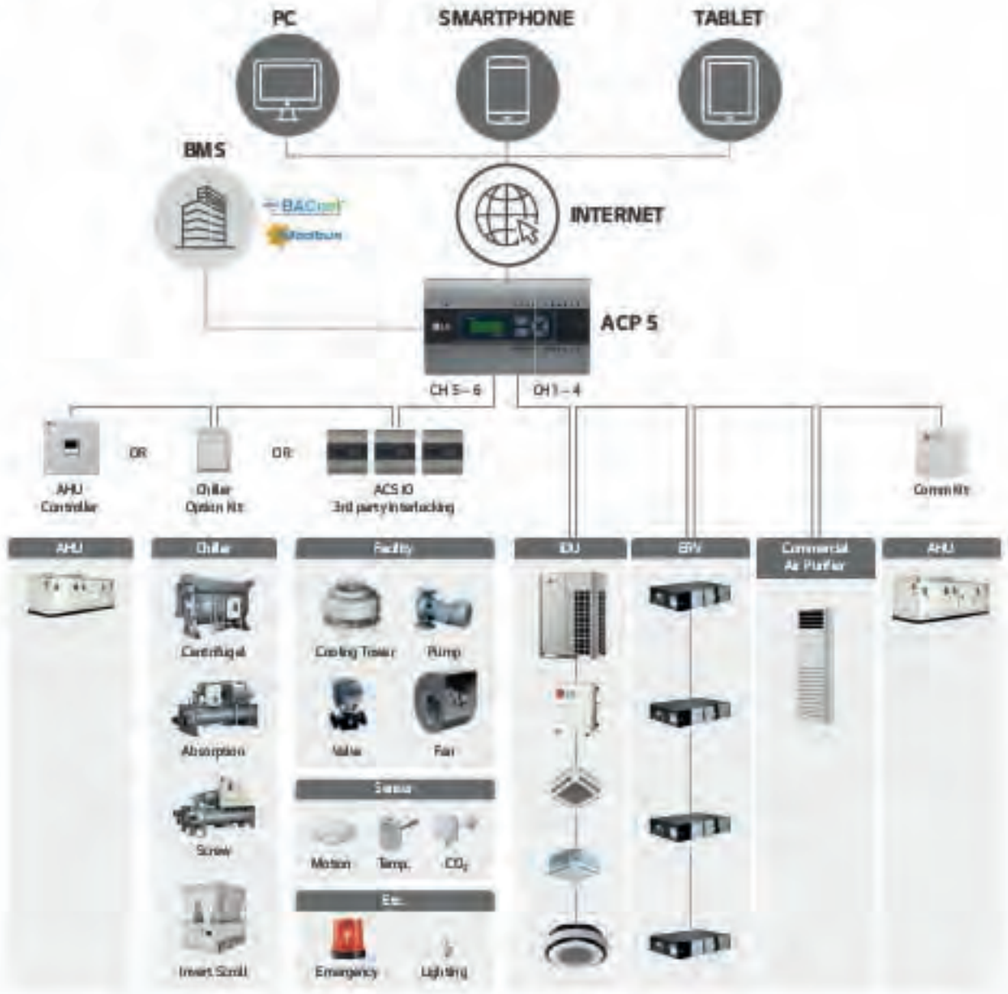
Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.

Interlocking with 3rd Party Equipment

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



ACP 5



Advanced Network Accessibility

* Fixed public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port : 80 & 9000.

Energy Navigation

BACnet IP & Modbus TCP

PACP5A000

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.

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 Kits / LG Chiller [1] / Commercial Air Purifier
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display [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	O
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	O
Emergency Stop & Alarm Display	O
Power Consumption Monitoring (with PDI)	O
Auto Changeover / Setback	O
Temperature Limit	O
Operation Time Limit	O
Visual Navigation	O
Operation Trend	O
Air Purify Control	O
Air Quality Level	O
Interlock Control	O
Virtual Group Control	O
ODU Capacity Control	O
Energy Navigation (with PDI)	O
Daylight Saving Time	O
External IO Port	DI 10 / DO 4
BMS Integration [3]	BACnet IP / Modbus TCP
IPv6 Support	O

※ O : Applied, - : Not Applied
1) Chiller Option Kit (PCHLIN000) is required.
2) It is only available in some products.
3) For the detail point list, please refer to the installation manual.

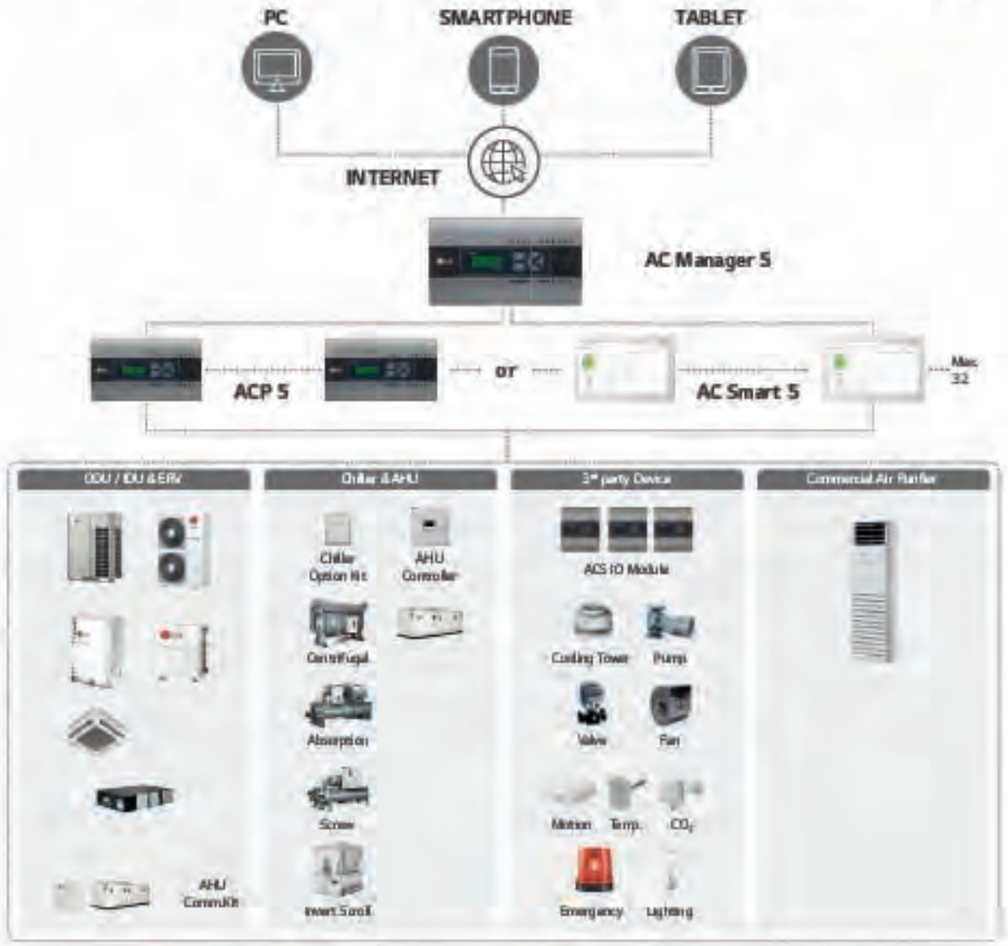
Air Purify Control / Monitoring

Integrated Management

The Commercial Air Purifier can be used with LG central controller to monitor and control.

AC Manager 5

For more LG Commercial Air Solutions information, please visit our Youtube channel through QR code.



PACM5A000

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

reddot award

MODEL NAME	PACM5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V/ ERV/ ERVDX / Hydro kit / THERMA V/ AHU Kit / LG Chiller [1] / Commercial Air Purifier
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLN000) is required for ACP 5 or AC Smart 5.

Note : AC Manager 5 required for ACP 5 or AC Smart 5

Up to 8,192 Connections for Indoor Units

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

AC Manager 5

Smart Air Purify Solution

Total management of air purify function creates clean environment everyday.

Air Quality Multi Status view

Air Quality Summary Widget

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

Air Purify Control

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

View Air Quality Trends

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

Advanced Network Accessibility & User Friendly GUI

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

Energy Navigation & Energy Usage Graph

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

Compressor Capacity Control | IDU Operation Ratio Control | IDU Operation Level

Peak Control

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

Operation ratio (IDUs) Control

ODU Capacity Control

Multi Level Group Composition

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

ACP Lonworks

PLNWKB000

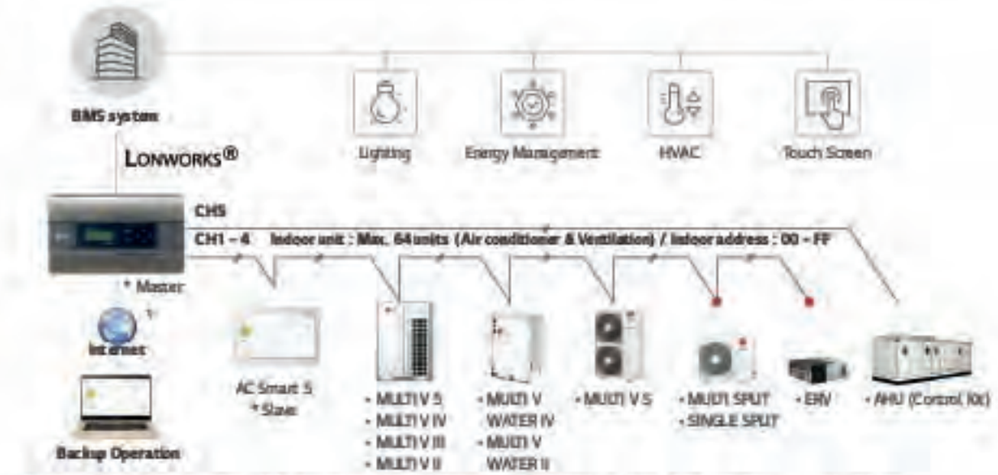
Lonworks easily link LG Air conditioners and other existing building systems.
By including ACP control function, the controlling continues even when error occurs with BMS.

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

※ O : Applied, - : Not Applied



1) Assignment of public IP address is required to access central controller through Internet. * Appropriate PMBS should be used according to PEB (Product Selection Book)

PI485

PI485 converts LG Air conditioners protocol to the RS485 protocol for the central controller.

PMNFP14A1

Easy to manage up to 64 indoor units.

- Power : Single phase AC 220V 50 / 60Hz

• 1 for Each Outdoor Unit

- Multi V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
- Single Split
- Multi Split

PP485A00T

- Power : Single phase AC 220V 50 / 60Hz

• 1 for Each Indoor Unit

- Thermal V

PHNFP14A0

- Power : Connected with the Indoor Units

• 1 for Each Indoor Unit

- Indoor Unit (ERV)

MODBUS RTU Gateway

PMBUSB00A

Providing Modbus RTU connection between LG Air conditioners and BMS

Features & Benefits

- Function
  - Modbus RTU communication with Modbus master controller
  - Modbus RTU slave (RS485) / 9,600 bps
  - Applicable for MULTI V 5, ERV, Heating
  - Size (W x H x D, mm) : 53.6 x 89.7 x 60.7
  - Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules
  - Power : DC 12V (250mA)
  - No slave allowed in LGAP

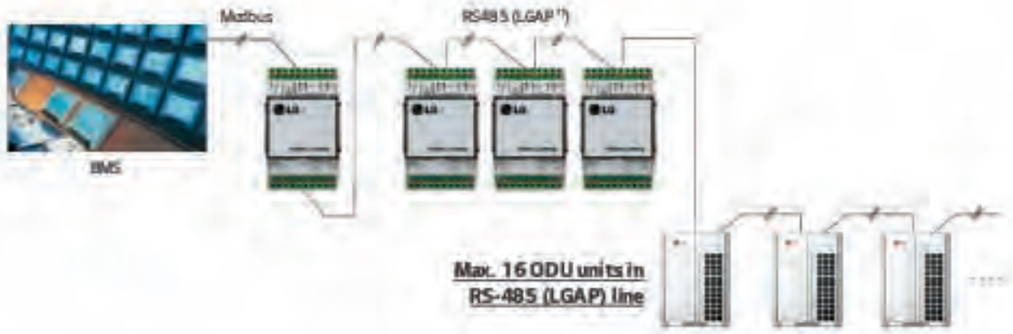
Installation Scene

Single Module

Max.16 indoor units with a single module

Multiple Module

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



*1) LGAP is LG Protocol.
Max. 16 ODU units in RS-485

Modbus Gateway Memory Map

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

Coil Register (0 x 01)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Auto Swing	Aircon Operate (On / Off)	Hot Water Mode (On / Off)	0 : Disable / 1 : Enable	
3	Filter Alarm Release	Filter Alarm Release *1	Reserved	0 : Normal / 1 : Alarm Release	
4	Lock Remote Controller	Lock Remote Controller	Lock Remote Controller	0 : UnLock / 1 : Lock	
5	Lock Operate Mode	Lock Operate Mode *1	Reserved	0 : UnLock / 1 : Lock	
6	Lock Fan Speed	Lock Fan Speed *1	Reserved	0 : UnLock / 1 : Lock	
7	Lock Target Temp.	Lock Target Temp. *1	Reserved	0 : UnLock / 1 : Lock	
8	Lock IDU Address	Lock IDU Address *1	Reserved	0 : UnLock / 1 : Lock	
9	Reserved	Quick Ventilace	Reserved	0 : Disable / 1 : Enable	
10	Reserved	Energy Save	Reserved	0 : Disable / 1 : Enable	

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

Discrete Register (0 x 02)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	Register = N X 16 + ① (N = Indoor Unit Central Address)
2	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
3	Filter Alarm	Filter Alarm *1	Hot Water Only *2	• 0 : Normal / 1 : Alarm Hydro Kit • 0 : Normal / 1 : Hot Water Only	
4	Reserved	Reserved	Target Temp. Select	0 : Air / 1 : Water	
5	Reserved	Reserved	Error Division *1	0 : CH type error / 1 : BC type error	

1) : This register value is applied 'DX Ventilator' ONLY
2) : This register value is applied 'Hydro Kit' ONLY

Holding Register (0 x 03)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Operate Mode	Operate Mode	Operate Mode	• 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP • 0 : Cooling, 3 : Auto, 4 : Heating Hydro Kit (High Temp. DHW)	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Fan Speed	Fan Speed	Target Temp. DHW *1	1 : Low, 2 : Mid, 3 : High, 4 : Auto	
3	Target Temp.	Target Temp. *1	Target Temp. *1	160 ~ 300 [℃] x 10	
4	Target Temp. Limit (Upper)	Target Temp. Limit *1 (Upper)	Reserved	160 ~ 300 [℃] x 10	
5	Target Temp. Limit (Lower)	Target Temp. Limit *1 (Lower)	Reserved	160 ~ 300 [℃] x 10	
6	Reserved	Vent. Operate Mode	Reserved	0 : HEX, 1 : Auto, 2 : Normal	

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

Input Register (0 x 04)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Error Code	Error Code	Error Code	0 ~ 255 ※ Please refer to the product error table.	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Room Temp.	RA Temp.	Room Temp.	-99.0 ~ 99.0 [℃] x 10	
3	Pipe In Temp.	OA Temp. *1	Water Inlet Temp.	-99.0 ~ 99.0 [℃] x 10	
4	Pipe Out Temp.	SA Temp. *1	Water Outlet Temp.	-99.0 ~ 99.0 [℃] x 10	
5	Reserved	Pipe In Temp. *1	Sanitary Tank Temp.	-99.0 ~ 99.0 [℃] x 10	
6	Reserved	Pipe Out Temp. *1	Solar Temp. *2	-99.0 ~ 99.0 [℃] x 10	

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

KNX Gateway

Technical and service support must come from Intesis directly.
LG Electronics Inc. warrants and assumes no liability for this product.
- This is the landing page of INTESIS MAPS: https://www.intesis.com/products/intesis-maps/home

INKNXLGE016O036 / INKNXLGE064O036

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

Key features

- 2 model types
- Up to 64 connectable indoor units
- Direct connection to KNX TP1 bus
- Independent management of communications
- Power supply: 9 to 36V DC or 24V AC (not included)
- KNX Power consumption: 5mA
- Standard DIN-Rail 6 modules enclosure
- LG Slave Central controller (for example, AC Smart) and PDI can be operated with KNX gateway

Key benefits

- Easy & quick installation : user comfort
- Flexible integration (Intesis MAPS & KNX) Export Group Address by "csv" file to ETS5/6
- Compatibility with all LG products (Air-Conditioning, ERV, Hydrokit and AWHP)
- Ergonomic & friendly user interface (using the supplied software Intesis MAPS)
- One single tool for settings, commissioning, SW update and troubleshooting

Key messages

- Manage your building with an advanced building automation solution
- Energy savings
- Power consumption measurement using additional LG PDI device
- Bidirectional communication between LG & KNX
- Your system diagnostics accessible through LG Error codes

MODEL NAME	MAX. CONNECTION INDOOR UNITS
INKNXLGE016O036	16
INKNXLGE064O036	64

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.

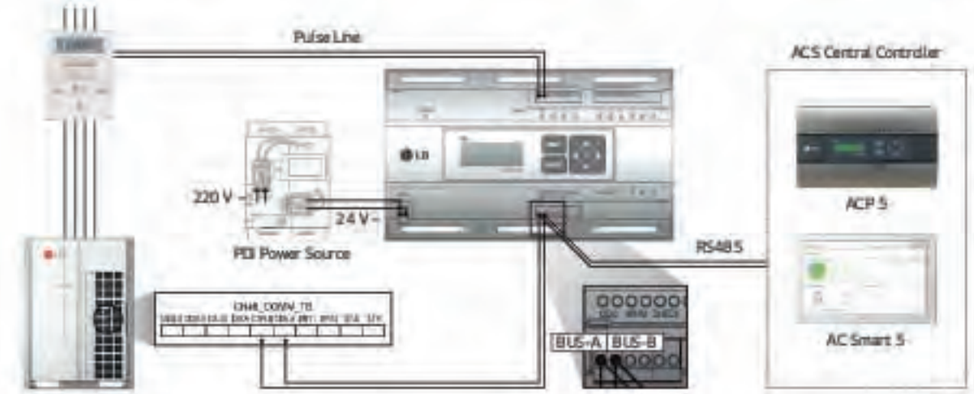
LinkBoxEIB
Configuration Software

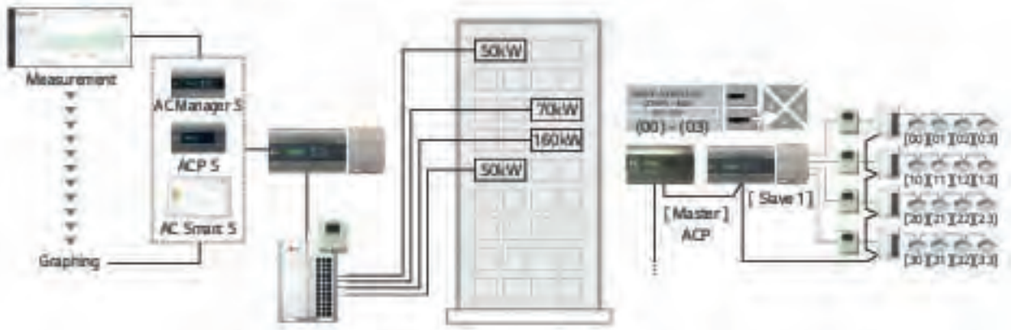
- Only needed during configuration
- One single tool for the configuration of the whole range of IntesisBox KNX series gateways
- Supplied with IntesisBox with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple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

Installation Scene

Integration of LG VRF systems into KNX control systems

NOTE



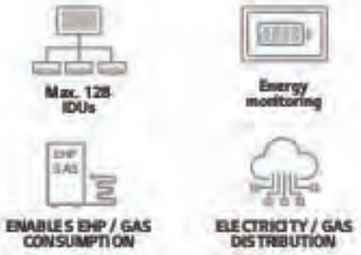


Note :
1. Power cable and type could be different from this scene depending on the Outdoor unit's specification.
2. Measured power consumption could be different between PDI and Watz meter.
3. Applicable Central Controller : ACP 5, ACP LonWorks, AC Smart 5, AC Ez Touch
(Combination) we recommend to connect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

PDI (Power Distribution Indicator)

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

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



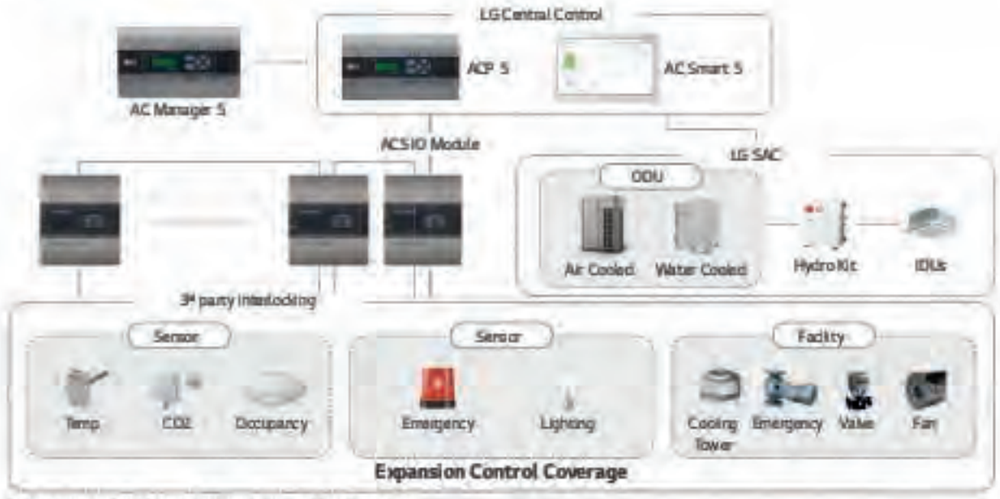
Features & Benefits

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

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

※ ○ : Applied, - : Not Applied

ACS IO Module

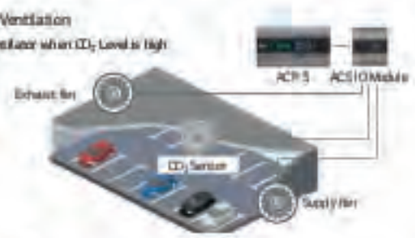


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output

Case. 1

Parking Lot Ventilation

Turning on ventilator when CO_2 Level is high



Case. 1

Auxiliary Heater

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

PEXPMB000

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

Features & Benefits

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

MODEL NAME		PEXPMB000
Linkable Products		PACSSA000, PACPSA000
Communication	RS-485	1 ch
I / O	Digital Input	3 ports
	Digital Output	3 ports
	Universal Input *1	4 ports
	Analog Output	4 ports

VALUE SPEC		MIN.	MAX.
Analog Input	NTC 10k	0.68kΩ	177kΩ
	PT1000	803Ω	1,573Ω
	NI1000	871.7Ω	1,675.2Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	–	0V	10V
Digital Input	Binary Input (Non Voltage)	–	–
Digital Output	Normal open	–	30VAC / 30VDC, 2A

※ O : Applied, - : Not Applied
1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.
Note. ACS IO & ACU IO are not a replacement for Direct Digital Controller(DDC) or PLC.

ACU IO Module

PEXPMB300, PEXPMB200, PEXPMB100

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

ACU.UIO
PEXPMB300

ACU.UO
PEXPMB200

ACU.UI
PEXPMB100

Features & Benefits

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

MODULE NAME	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products		PACSSA000, PACPSA000	
Communication RS-485	1 ch	1 ch	1 ch
Digital Input	–	–	3 ports
Digital Output	2 ports	6 ports	–
Universal Input *1	4 ports	–	6 ports
Analog Output	2 ports	4 ports	

VALUE SPEC		MIN.	MAX.
Analog Input	DC (Voltage)	0V	10V
Analog Output	DC (Voltage)	0V	10V
Digital Input	Binary Input (Non Voltage)	–	–
Digital Output	Normal Open	–	30VDC, 1A

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

Chiller Option Kit

PCHLLN000

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

MODEL NAME	PCHLLN000
Monitoring Points	Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) / Condenser status / Generator status (Abs. chiller only)
On / Off	O
Target Temp. setting	O
Mode	Scroll chiller only
Schedule	O
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (LG Only)

※ O : Applied, - : Not Applied

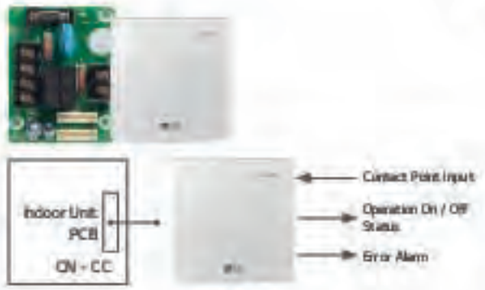
Installation Scene

- Chiller Option Kit installation of ACP, AC Smart 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 ACP, AC Smart. Insert the SD Card in the ACP, AC Smart. If a backup SD Card is inserted, replace it with a Chiller Option Kit SD Card.

Cycle Display Example

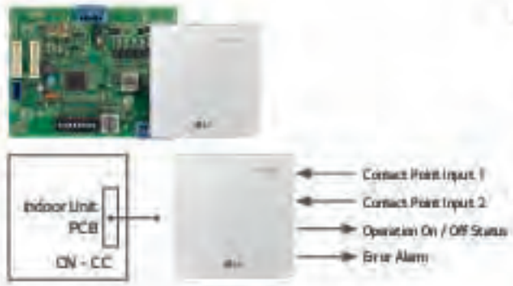
DRY CONTACT

PDRYCB000



Simple Dry Contact (1 input)

PDRYCB400



Dry Contact for 2 Input

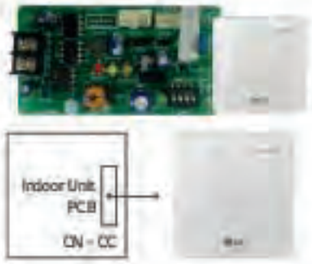
Refrigerant Leakage Detection Alarm

PDRYCB320

Dry Contact for Thermostat

※ Please contact our regional office to have full compatible room controller list.

PDRYCB500



Dry Contact for Modbus

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

Specification

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

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

※ O : Applied, - : Not Applied

Note :

1. Compatibility of PDRYCB320
- Can use with all types of smart indoor units after 2010.
(Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can use with new single package AI-W model after 2020. 10.
(The previous version Single package is not compatible)
- Heating : 3 series AWHP split and Monobloc models-4 generation Hydro kit

2. Compatibility of PDRYCB400
- Can use with all types of air conditioner indoor units after 2010.
(Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can use with new single package AI-W models(after 2020.10)
(The previous version Sing le package is not compatible)
- Can not use with AWHP(Hydro kit models.

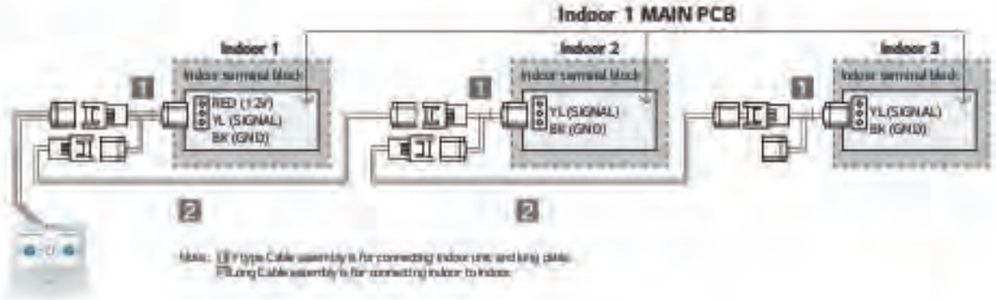
3. (Select & Fix) : The function is preset by rotary switch

Group Control Wire

PZCWRCG3

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

Installation Scene



Note. 1 Y-type Cable assembly is for connecting indoor unit and long cable.
2 Long Cable assembly is for connecting indoor to indoor.

Remote Temperature Sensor

PQRSTA0

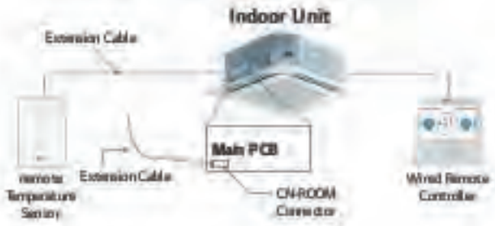
Sensor for detecting the room temperature.

Features & Benefits

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

Installation Scene

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



Zone Controller

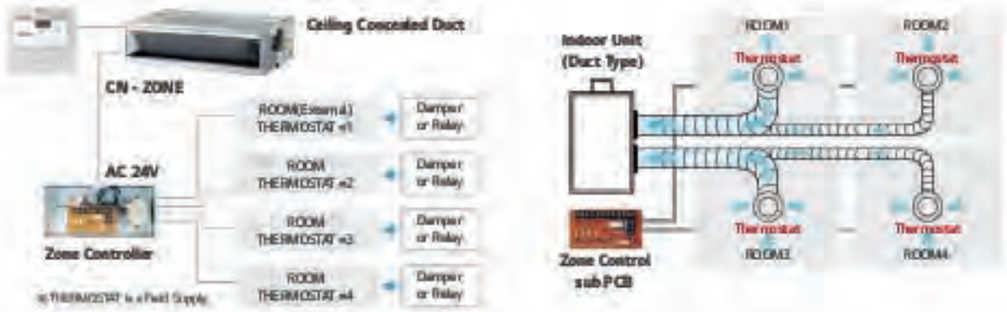
ABZCA

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

Features & Benefits

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

Installation Scene



IO Module

PVDSMN000

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

Features & Benefits

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

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

Models Applied

- MULTI V IV, S
- MULTI V WATER IV
- MULTI V S

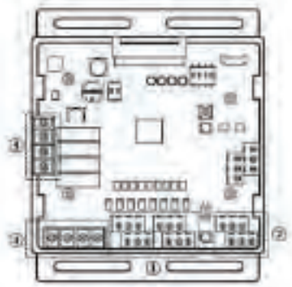
Note. | IO Module is not compatible for Multi V III and Multi V 5 R32.

Part Description

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

2) Analog Input Part (AI : DC 0 ~ 10V)
- Demand control by analog input (10 Step)

3) Digital Output Part (DO : AC 250V, Max. 1A)
- Error status relay output
- Operation status relay output
- Valve control



IO Module

ODU Capacity Control

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

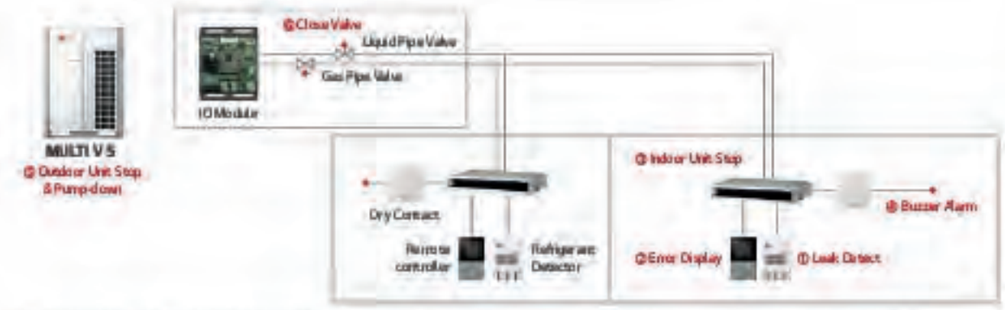
Low Noise Operation

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

※ If HP (12.5kW) model, Sound power level can be changed by outdoor unit operation status and remote operation input signal.

Refrigerant Leakage Detection with Pump-down

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



※ If the concentration of the refrigerant in the area exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence as mentioned in ea. 1~6)

Variable Water Flow Control Kit

PWFCKN000 (MULTI V WATER IV)

Accessory for controlling the water flow

Features

Function

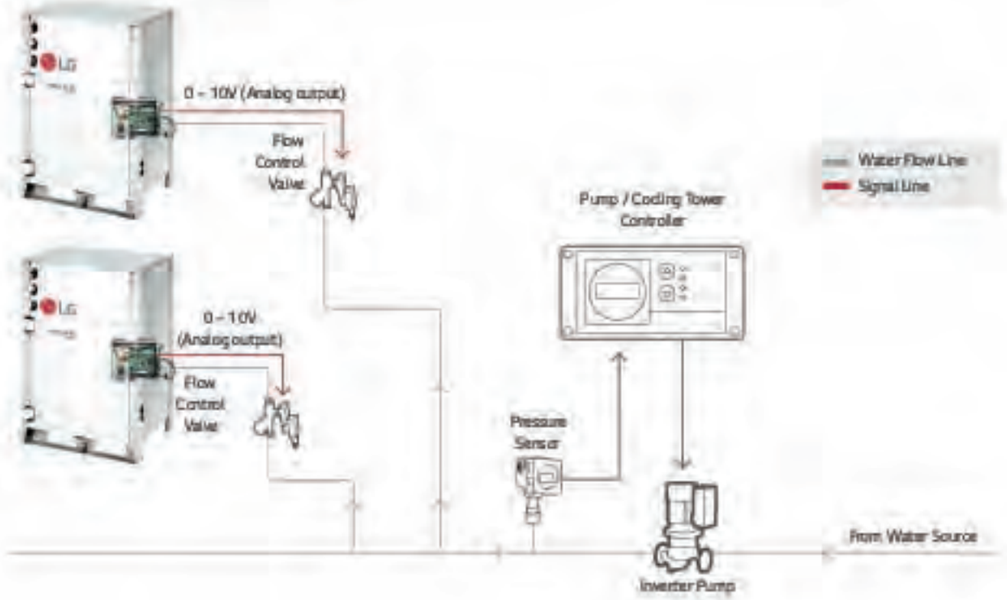
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

Description

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

Installation Scene

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



Low Ambient Kit

PRVC2

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

Features

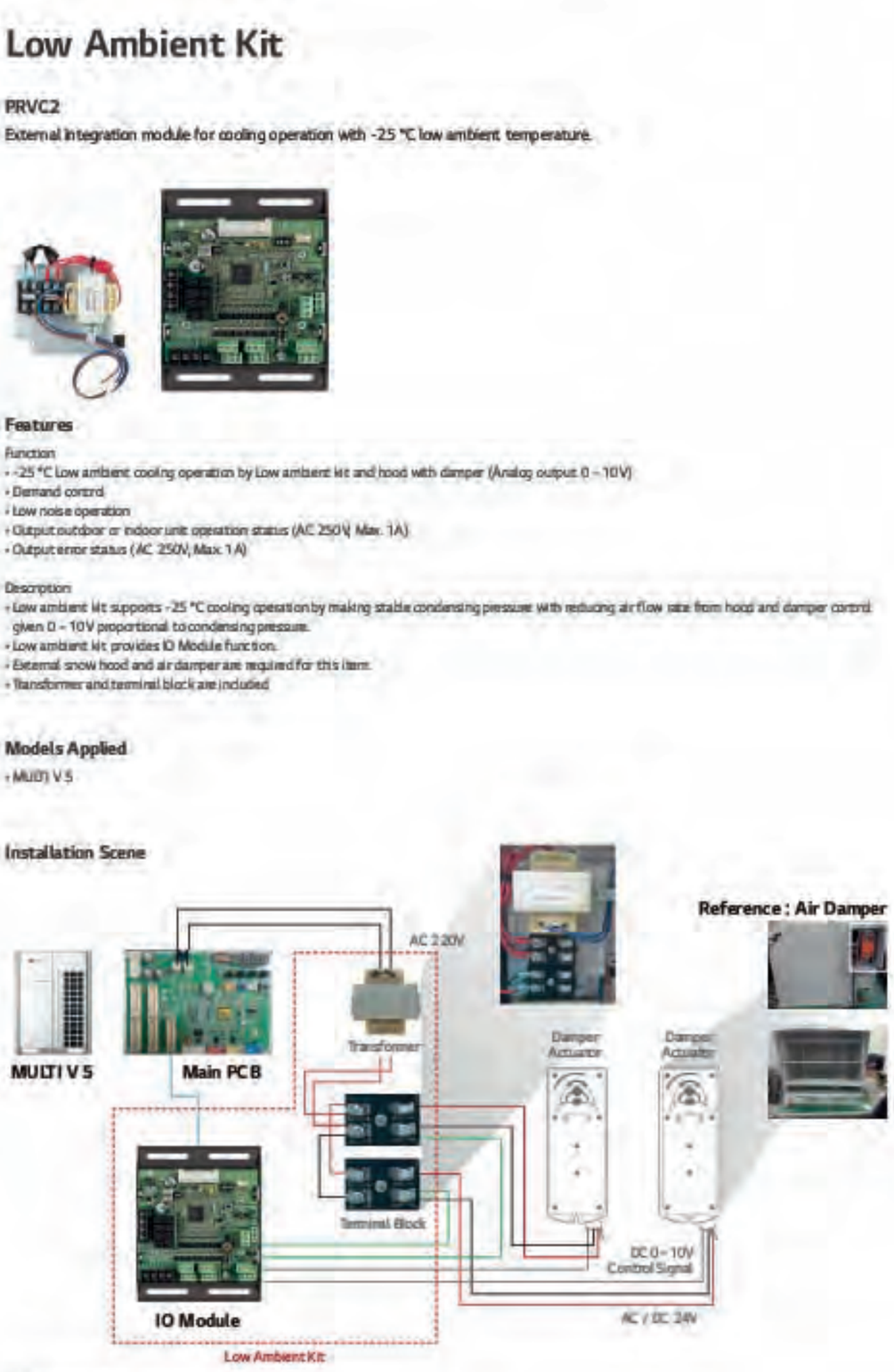
Function
- -25 ℃ Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V)
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (AC 250V, Max. 1A)
- Output error status (AC 250V, Max 1A)

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

Models Applied

- MULTI V S

Installation Scene



Note
1. Damper Actuator can accept only DC 24 V power input.
2. Do not input AC power. Otherwise it will cause a serious damage.
3. The IO Module can control maximum three actuators.
4. Case of one valve, the close signal connector must not use.
5. The power (AC / DC 24V) and signal (DC 0 ~ 10 V) line is recommended by AWG22 (1/32 in (0.644 mm) 0.016 Ω/ ft (0.053 Ω/ m))

Cool / Heat Selector

PRDSBM

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

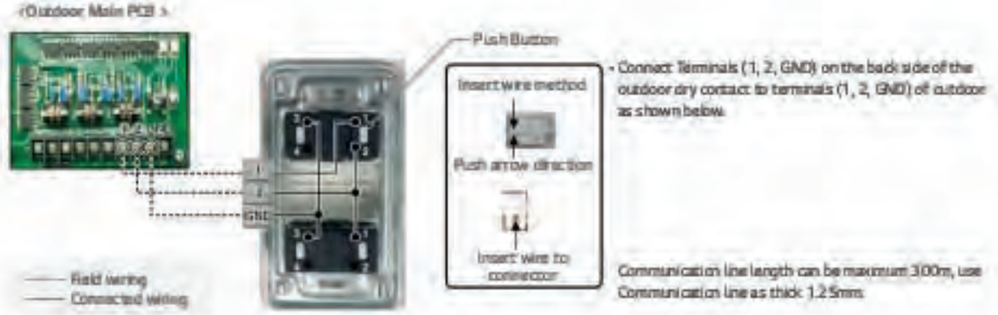
Features
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season

Models Applied

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

Note | Cool / Heat Selector is not compatible for Multi V S 71 12.

Installation Scene



- Connect Terminals (1, 2, GND) on the back side of the outdoor dry contact to terminals (1, 2, GND) of outdoor as shown below.

Communication line length can be maximum 300m, use Communication line as thick 1.25mm.

AHU Kit

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

COMMUNICATION KIT

PAHCMR000

PAHCMS000

CONTROL KIT

PAHCNM000

EEV KIT

PRLK048A0
PRLK096A0

PRLK396A0

PRLK594A0

CONTROLLER MODULE

PAHCMM000

PAHCMC000

Specification

Control Application Kit

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

Expansion Application Kit

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

Communication Kit

High Energy Efficiency

LG's DX AHU solutions' superior performance provides a highly efficient heat source system.
- High energy efficiency inverter system
- Large range of expansion application Kit: Max. 168 kW EEV Kit 1)
- Connected to various heat sources : MULTI V, MULTI V WATER, MULTI V S, SINGLE SPLIT

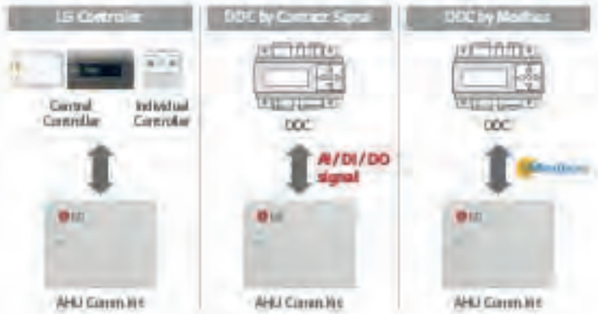
1) Maximum connectable EEV capacity for PAHCMR000, PAHCMC000 is 112 kW

Diverse Options for Control

AHU communication kit can be connected to various control systems such as LG individual / central controller and DDC.1)
It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

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

1) DDC : Direct Digital Controller



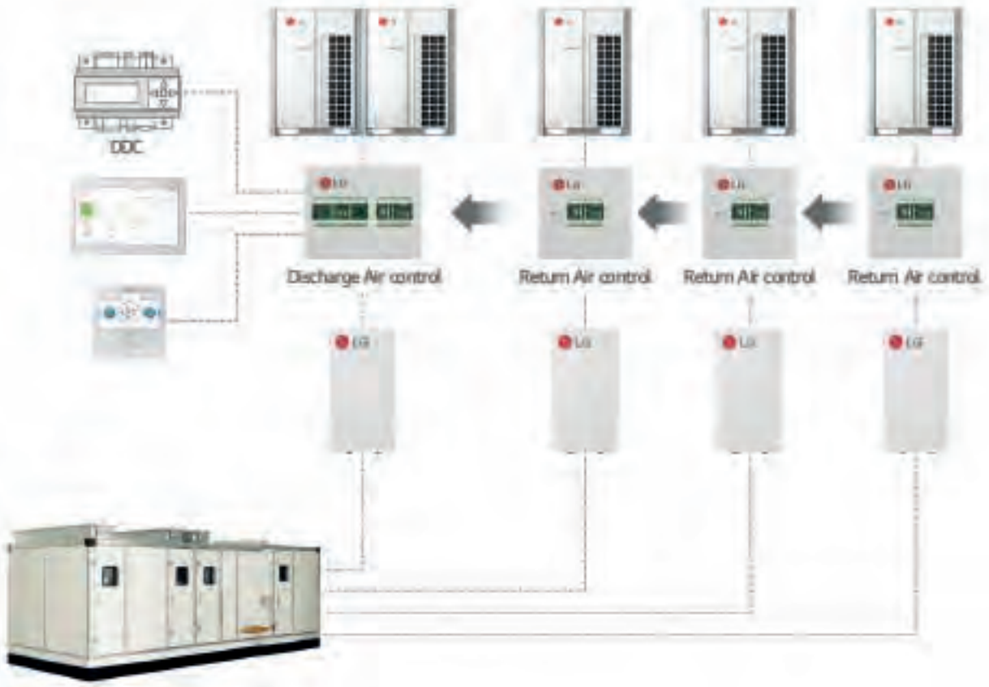
AHU Kit

Communication Kit

Expandable System Design

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

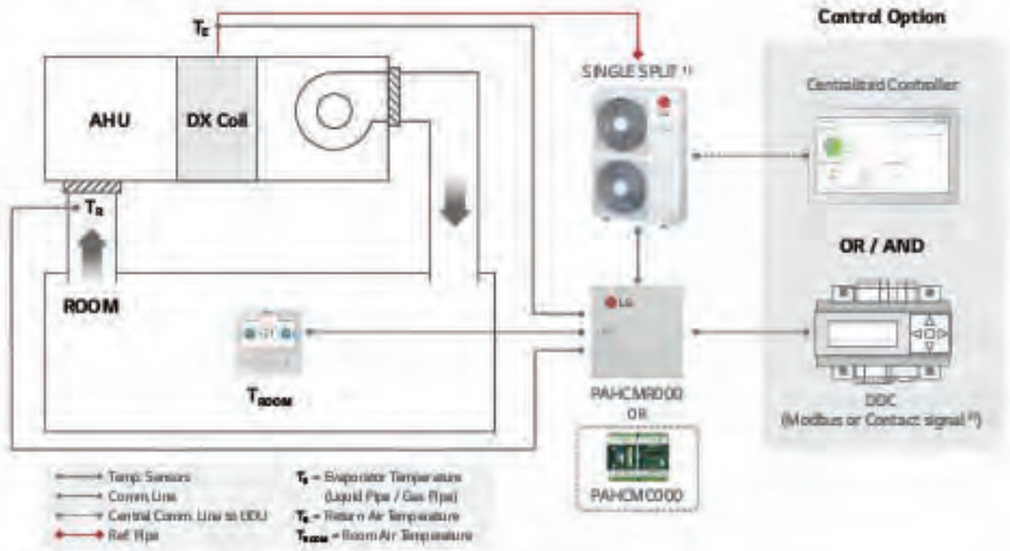
- Multiple module combination for large capacity AHU



Communication Kit & Controller Module

Single Split Application

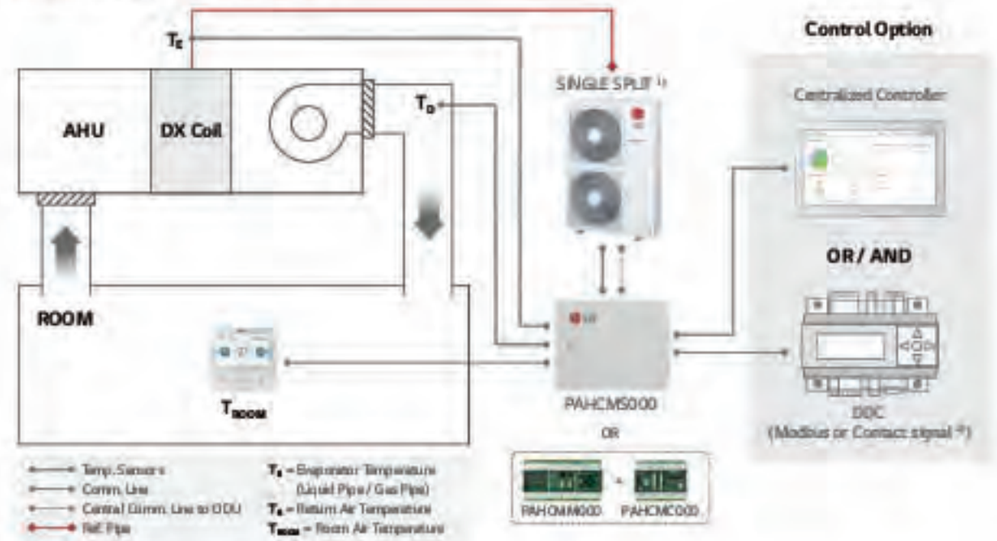
Single Split + Return / Room Air Temperature Control



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

Single Split Application

Single Split + Discharge Air Temperature Control



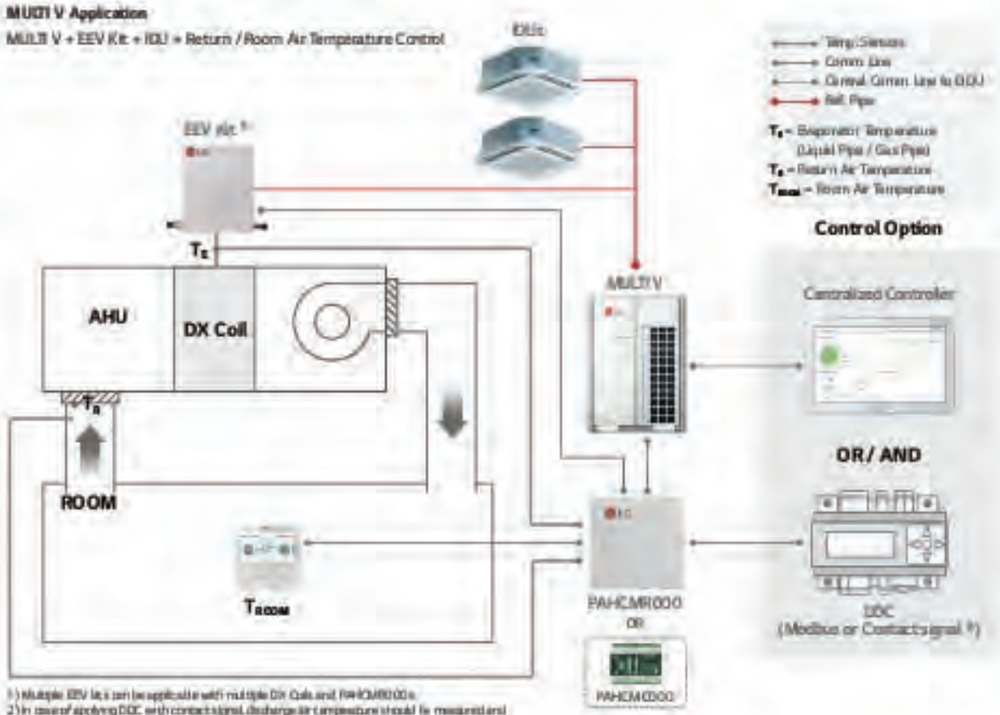
1) PMBS (PMNFP14A1) is required for centralized controller.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
Note : for more detail, please refer to the PDB.

AHU Kit

Communication Kit & Controller Module

MULTI V Application

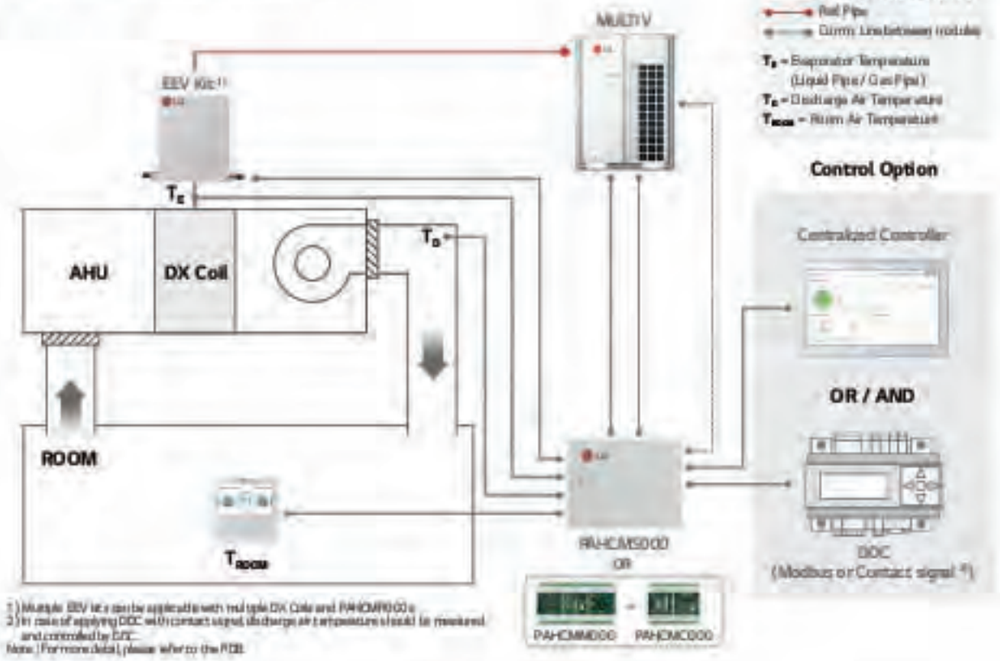
MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control



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

MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control



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

Communication Kit Function

Communication with DDC via Contact Signal

FUNCTION LIST		PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	TYPE	NOTE
Control 1)	Operation On / Off	On / Off	On / Off	Digital Input (Non Voltage)	-
	Operation Mode	Cooling / Heating	Cooling / Heating	Digital Input (Non Voltage)	Available operation mode can vary depending on the settings of Communication Kit
	Return (Room) Air Temperature 4)	16 ~ 30 ℃	-	Analog Input (DC 0 ~ 10 V / 20mA)	-
	Discharge Air Temperature 4)	-	-	-	Discharge air temperature should be controlled directly by DDC using 'ODU Capacity Control'
	Fan Speed 4)	-	High / Middle / Low	Digital Input (Non Voltage)	-
	Forced Thermal	On / Off	-	Digital Input (Non Voltage)	-
	ODU Capacity	-	10 ~ 100%	Analog Input (DC 0 ~ 10 V / 20mA)	-
	Emergency Stop	-	Stop / Normal	Digital Input (Non Voltage)	-
Monitor	Operation	On / Off	On / Off	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot be monitored by DO ports
	Operation Mode	-	-	-	It needs to be checked through control signal
	Fan Speed	High / Middle / Low	High / Middle / Low	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'On' (Fan Mode) In this case, 'On / Off, defrost, error Status' cannot be monitored by DO ports
	Defrost Operation	Defrost / Normal	Defrost / Normal	Digital Output (Max. : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO type should be set 'OFF' (Status), In this case, 'fan speed' cannot be monitored by DO ports
	Error Alarm	Error / Normal	Error / Normal	Digital Output, Relay C contact (Max. : DC 30 V / 1 A, AC 250V / 1 A)	
	Compressor On / Off	-	On / Off	Digital Output, (Max. : DC 30 V / 1 A, AC 250V / 1 A)	-

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

Communication with DDC via Modbus protocol

FUNCTION LIST		PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	NOTE
Control 1)	Operation On / Off	On / Off	On / Off	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
	Return (Room) Air Temperature	16 ~ 30 ℃	-	
	Discharge Air Temperature 4)	-	○	Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard Ⅱ : 16 ~ 30 ℃ Standard Ⅲ 4) : 12 ~ 50 ℃
	Fan Speed 4)	High / Middle / Low	-	
	Forced Thermal On / Off	-	-	
	ODU Capacity Control 2)	-	10 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
	Emergency Stop	-	-	
Monitor	Operation	On / Off	On / Off	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
	Return (Room) Air Temperature	○	-	Corresponding air temperature sensor connected to AHU Comm.Kit is required
	Discharge Air Temperature	-	○	
	Fan Speed	High / Middle / Low	High / Middle / Low	
	Defrost Operation	Defrost / Normal	Defrost / Normal	
	Error Alarm	Error / Normal, Error code	Error / Normal, Error code	
	Compressor On / Off	On / Off	On / Off	

※ ○ : Applied, - : Not Applied
1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
2) In case of PAHCMS000, control type between "Discharge Air Temperature" and "ODU Capacity Control" is selectable
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
4) Standard III wired remote controller after version 2.10S a
Note : For the Modbus memory maps and more detail information, please refer to the product data book.

AHU Kit

Communication Kit Function

With LG Control System (Individual & Centralized Controller)

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

※ O : Applied, - : Not Applied
*1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
2) The range of setting temperature is different depending on the type of the controllers. And operation may different from setting range.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
4) Standard II wired remote controller after version 2103.a.
Note1. For more detail information, please refer to the product data book

Compatibility with LG HVAC Controllers

CONTROLLER	INDIVIDUAL CONTROLLER			CENTRALIZED CONTROLLER					BMS GATEWAY	PDI
	PREMIUM	STANDARD III	STANDARD II	AC EZ	AC EZ TOUCH	AC SMART 5	ACP 5	AC MANAGER 5 *1	ACP LONWORKS	HIGH LEVEL STANDARD
Model no.	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTB810	PREMTB001	PQCSZ25050	PACSZA000	PACSSA000	PACPSA000	PACMSA000	PLNWMB000	PQNUD1540 PPWRDB000
PAHCMR000	O	O	O	O	O	O	O	O	O	O
PAHCMS000	-	O	O	-	-	O	O	O	-	-

※ O : Applied, - : Not Applied
*1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
Note. 1. Dry contact for Indoor unit (ROHYB000) 400 / 300 / 500 is not applied.
2. For more details, please refer to the product data book.

Outdoor Unit Compatibility

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

TYPE	MODEL	UUA1 (2.5 ~ 5.0 kW) 1)	UUB1 (5.0 ~ 8.0 kW) 1)	UUC1 (7.1 ~ 10.0 kW) 1)	UUD1 / UUD3 (10.0 ~ 15.0 kW) 1)
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	-	O	O	O
	PAHCMS000 (PAHCMM000 + PAHCMC000)	-	O	O	O
Control Kit	PAHCNM000	-	-	-	-

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

For Medium-Large Size Application (~ 67.2 kW) - MULTI V

TYPE	MODEL	MULTI V				MULTI V WATER	
		S	IV	III	S	IV	II
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	O	O	O	O	O	O
	PAHCMS000 (PAHCMM000 + PAHCMC000)	O	O	O	O	O	O
Control Kit	PAHCNM000	O	O	O	O	O	O

EEV Kit Compatibility

EEV KIT MODEL	CAPACITY INDEX (KW)		AHU APPLICATION KITS (MAXIMUM CONNECTABLE EEV KITS)			CONNECTION BY ODU SYSTEM		
	MIN.	MAX.	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	PAHCNM000	MULTI V		SINGLE SPLIT
						HEAT PUMP	HEAT RECOVERY	
PRLK048A0	3.6	28	O (1)	O (1)	O (6)	O	O	-
PRLK096A0	28.1	56	O (1)	O (1)	O (6)	O	O (Max. 33.7 kW)	-
PRLK396A0	56.1	112	O (1)	O (1)	O (6)	O	-	-
PRLK594A0	112.1	168	-	O (1)	O (3)	O	-	-

※ O : Applied, - : Not applied
Note 1. Table of the outdoor unit compatibility is based on European regional model.
2. When connecting outdoor units in other areas, please check whether they are compatible or not.
3. Expansion application kit compatibility is based on capacity index of the system, it may changed according to system design condition.

AHU Kit

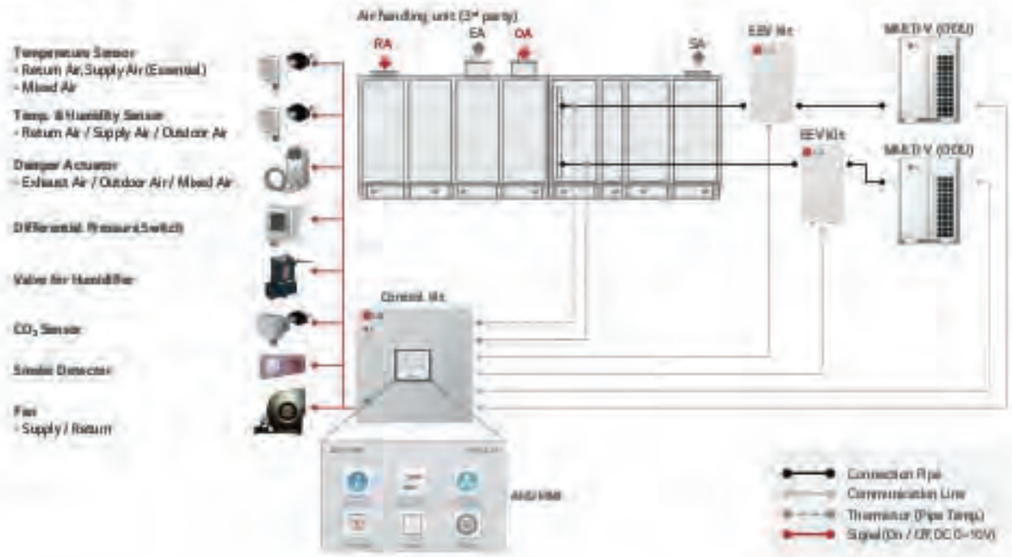
Control Kit

Field Supplied Item

LIST	REQUIRED SPECIFICATION	APPLY LOCATION
Temperature / Humidity Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Temperature range : -40 °C ~ 70°C - Humidity range : 0 ~ 95% RH	Supply air duct, Return air duct, Outdoor air duct
Temperature Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Temperature range : -50 °C ~ 50°C	Supply air duct, Return air duct, Mixed air duct
Damper Actuator	- Power : AC 24 V - Input / output signal : DC 0 ~ 10 V - Torque : 15 Nm - Operation time : 150 s - Rotation Angle : 90°	Outdoor air damper, Exhaust air damper, Mixed damper
Filter Differential Pressure Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 1,000 Pa - Switch type : Relay open / close	Filter
Static Pressure Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 1,000 Pa	Supply air duct
CO_2 Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 2,000 ppm	Return air duct
Smoke Detector	- Power : AC 24 V - Type : Contact	Return air duct

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

Field Supplied Item



Water Communication Module

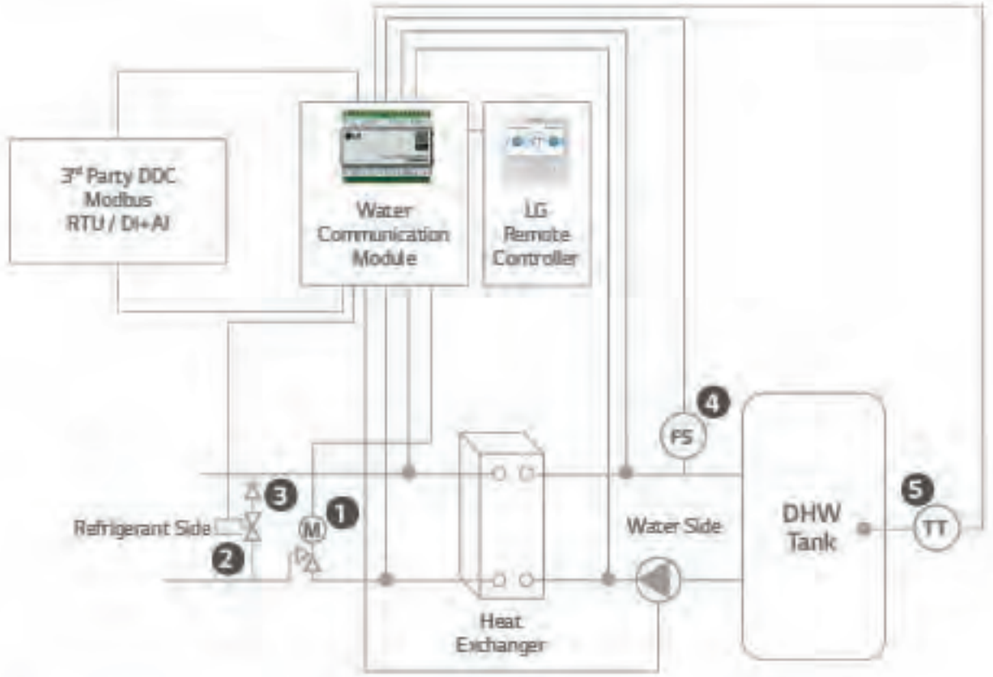
PAHCMW000

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

Overview

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

1. EEV
2. Solenoid Valve (NC)
3. Non-Return Valve
4. FS : Flow Switch
5. TT : DHW Temperature Transmitter



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

Water Communication Module

Features & Benefits

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

Interlocking with 3rd Party Equipment

CONTENTS	CONNECTION PORT		FUNCTION
RS485	CH1 (A+ / B-)	Module Comm. Port	Communication Port Modbus
	CH2 (A+ / B-)	IDU Comm. Port	Communication with Multi V Outdoor
UNIVERSAL INPUT (Cooling / Heating Sectig)	U1	Flow Switch	Flow Switch Input by 3rd party
	U2	0 ~ 10V Set Temp.	Target Temp. Setting
	U3	Cooling Thermostat Signal	Thermostat Cooling Signal
	U4	Heating Thermostat Signal	Thermostat Heating Signal
UNIVERSAL INPUT (DHW Only)	U1	Flow Switch	Flow Switch Input by 3rd party
	U2	0-10V Set Temp.	Target Temp. Setting
	U3	DHW Temperature Transmitter 0 ~ 10V	Measured Water Temp. Input by 3rd party 0 ~ 10 V sensor
	U4	DHW Thermostat Signal	DHW Heating Signal
NTC	R1	Water Inlet Sensor	PHEX Water Inlet Sensor
	R2	Water Outlet Sensor	PHEX Water Outlet Sensor
REMO	+12V / SIG / GND	LG Remote Controller	
SINGLE	Reserved		
DIGITAL OUTPUT	DO1	Defrost / Mode	Output for defrost signal and / or cool mode
	DO2	Pump	Output signal for pump on / off
	DO3	Bypass	Output signal for PHEX Bypass Valve
NTC	R3	Thermistor Pipe In	PHEX Ref. Inlet Pipe Sensor
	R4	Thermistor Pipe Out	PHEX Ref. Outlet Pipe Sensor
EEV	+12V / 1 / 2 / 3 / 4	Expansion Valve	EEV Control

Compatibility & Accessory

EEV (LG MODEL)

MODEL	CAPACITY (KW)		PAHCMW000
	MIN.	MAX.	
PAEEVC000	3.6	28	HP / HR
PRLK048A0	3.6	28	HP / HR
PRLK096A0	28.1	56	HP

Note:
Water communication module can accept plate heat exchanger from 3.6 to 112 kW for combination with Multi V Outdoor units

LG Controllers

CONTROLLER	INDIVIDUAL CONTROLLER	CENTRALIZED CONTROLLER		DRY CONTACT
	HEATING STANDARD III	AC EZ TOUCH	AC SMART 5	
	PREMTW101	PACEZA000	PACS5A000	PDRYCB000

Specification for Field supply item

- The 3rd party can select the for best usable version

Solenoid valve for Bypass

CAPACITY (KW)		EEV TYPE	SYSTEM	KV VALUE OF SOLENOID AND NON-RETURN VALVE	PIPE SIZE
MIN.	MAX.				
3.6	28	PAEEVC000 PRLK048A0	HP / HR	0.95	3/ 8" / 9.52mm
28	56	PRLK096A0	HP	1.9	1/ 2" / 12.7mm

Flow switch

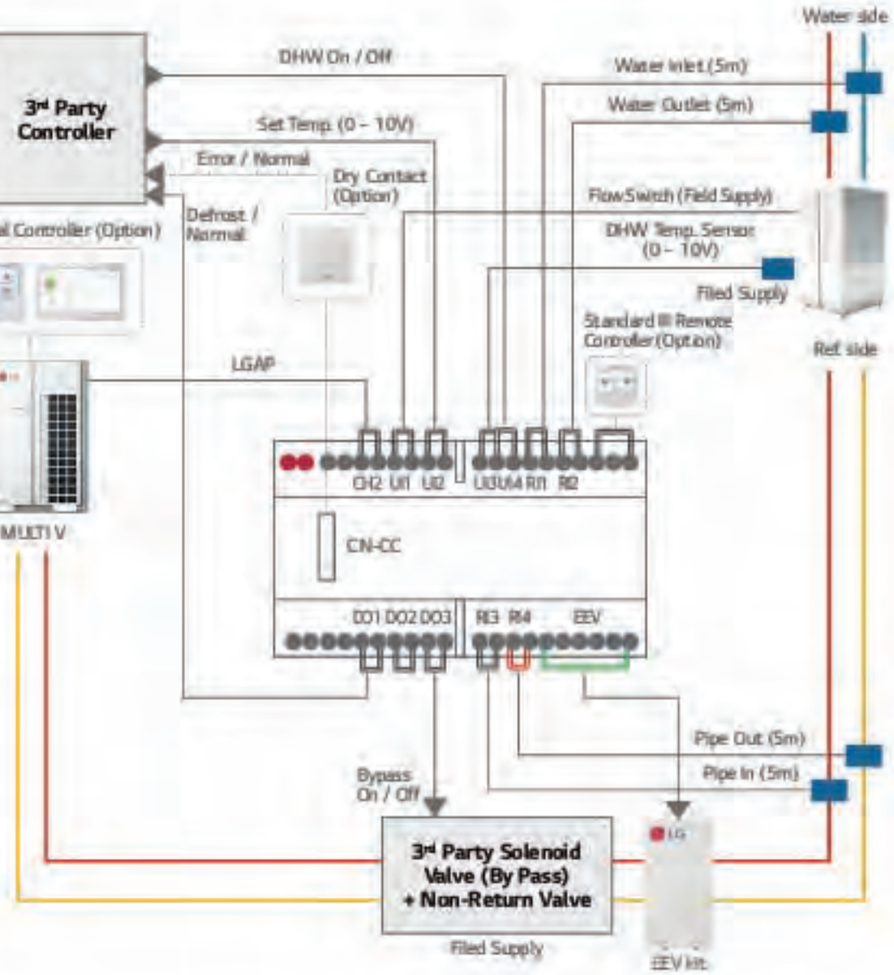
- The nominal flow and cut off flow can be calculated using the values below.

CONTROLLER	NOMINAL FLOW	FLOW SWITCH CUT OFF
L / min*kW	3.29	1.33

* Example : ODU nominal Cooling Capacity 28 kW(28 x 3.29 = 92.12 L / min nominal flow, 28 x 1.33 = 34.44 L / min flow switch cut off

Installation Scene with Contact Connection

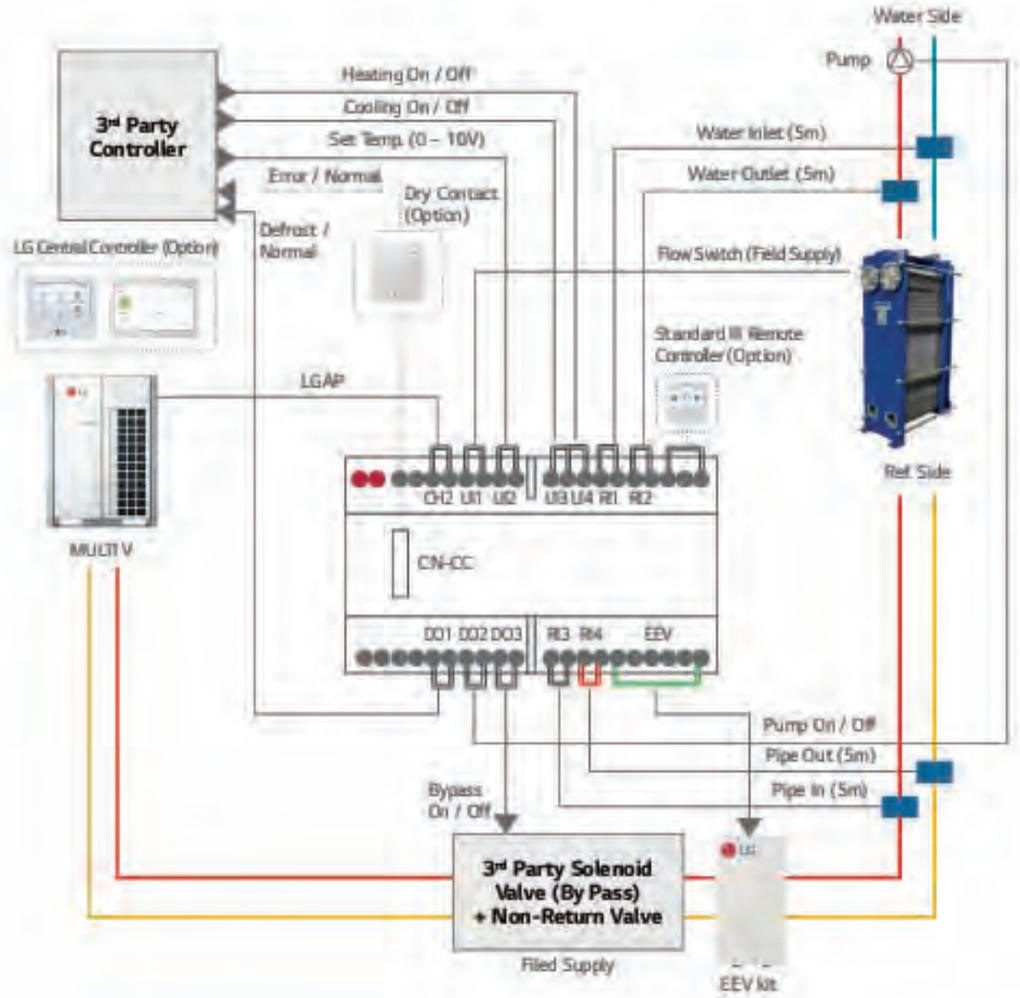
Contact signal + DHW Only Setting



Water Communication Module

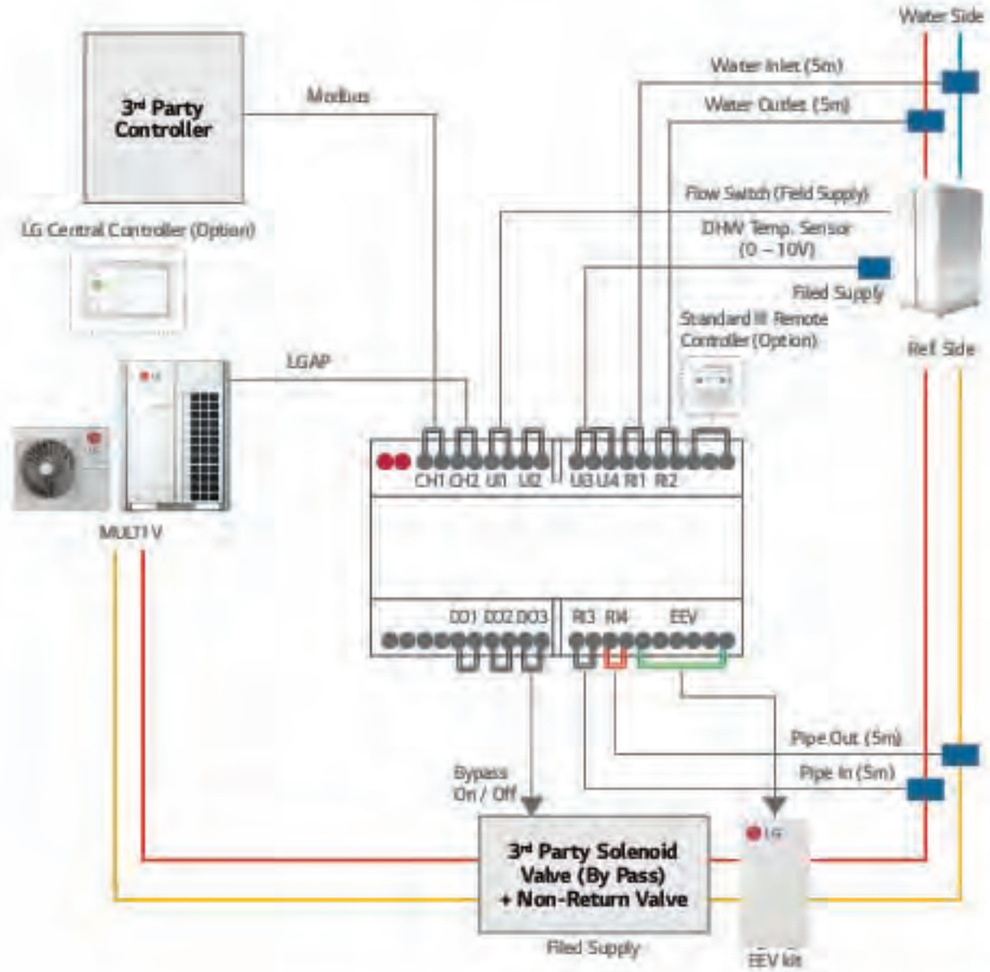
Installation Scene with Contact Connection

Contact signal + Heating / Cooling Setting



Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + DHW Only Setting

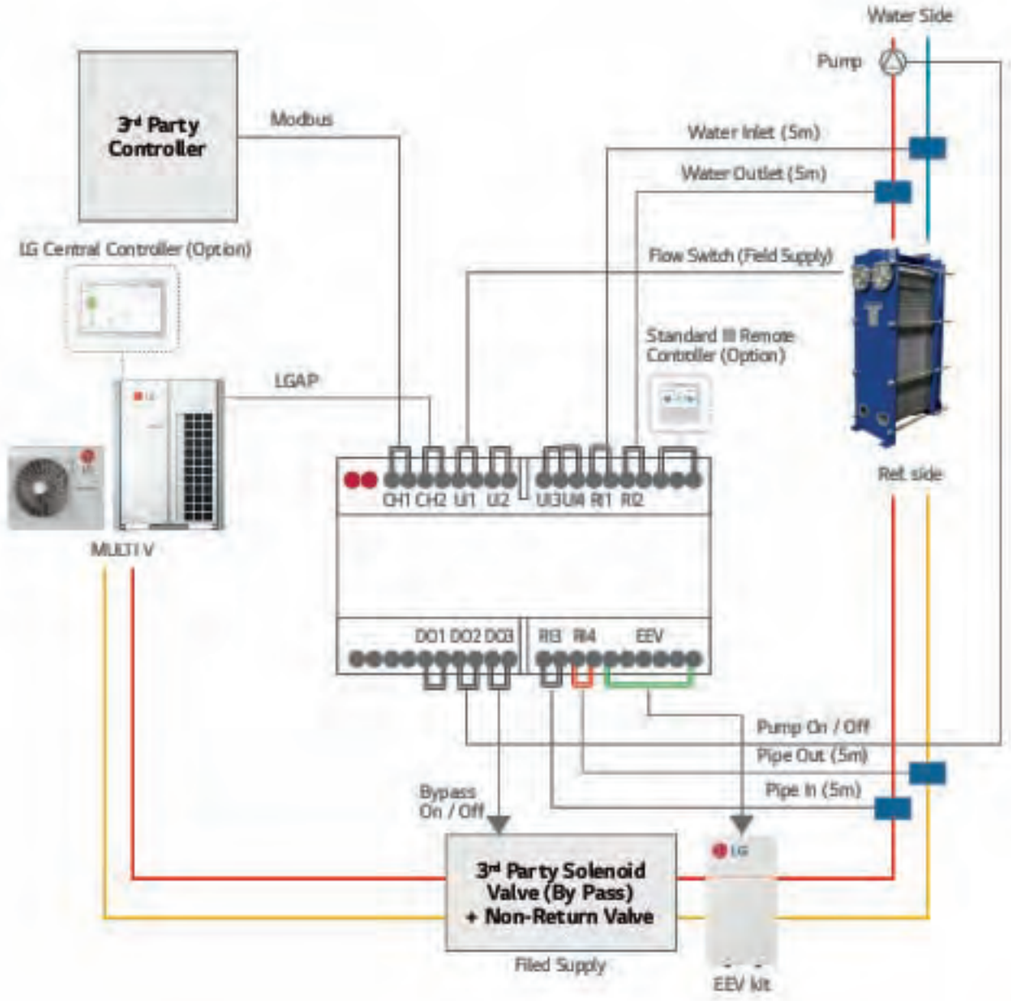


※ In case of Contact control, LG controllers can only support monitoring functions.

Water Communication Module

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + Heating / Cooling Setting



Hotel Control Solution

Guest Room

Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

Reception

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

Public Areas

Centralized management of the public areas

Design Proposal

GUEST ROOM

The air conditioner automatically turns off when guests leave

PDRYCB400

2 contact point

Input
- Operation On / Off

Output
- Operation On / Off status
- Error alarm

Integrated control of air conditioner with the hotel room controller

PDRYCB500

Modbus RTU (9,600bps)

Function
- Operation
- Indoor temperature
- Error alarm
- Set run mode
- Set temperature
- Set fan speed

Control with existing hotel thermostat

PDRYCB320

8 contact point

Input
- Universal input
- Operation On / OFF
- Thermo On / Off
- Operation mode (Fan / Heat / Cool)
- Fan speed (Low / Middle / High)

Output
- Operation On / Off status
- Error alarm

Guest safety is the first priority

PRLDNVS0

Refrigerant leakage detector
- 6000ppm

PREMTB100

Wired remote controller
- 4.3 inch color LCD
- Touch button

LOBBY

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

PACSSA000

AC Smart 5
- BMS Integration (BACnet IP, Modbus TCP)

PACPSA000

ACP 5
- BMS Integration (BACnet IP, Modbus TCP)

Shopping Mall Control Solution

Retail

Proportionally distribute and manage the power consumption by tenants

Real-time system issue detection and alarms

Maintenance Office

Reduces energy by checking operational trends

Atrium

Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

Design Proposal

RETAIL

Proportionally distribute and manage power consumption by the tenant

PPWRD8000

PDI Standard (2 ports)
- Max 128 IDU

PQNUD1540

PDI Premium (8 ports)
- Max 128 IDU

Fast problem detection and alarms

PACSSA000

AC Smart 5
- BMS Integration (BACnet IP, Modbus TCP)

PACPSA000

ACP 5
- BMS Integration (BACnet IP, Modbus TCP)

MAINTENANCE OFFICE

Reduces energy by checking operational trends

ATRIUM

Integrated management of AHU applied to large spaces

PAHCMR000

AHU CommKit
- Return air

PAHCMS000

AHU CommKit
- Discharge air

Chiller and VRF integrated control

PCHLLN000

Chiller Option Kit

+

PACPSA000 ACP 5

PACSSA000 AC Smart 5

Hospital Control Solution

Hospital Ward

Proper airflow management for patients

Monitor the comfort level for each hospital ward

Control fan speed and air volume

Service Zone

Energy savings based on flexible scheduling

Lobby

Centralized management of AHU for large spaces

Design Proposal

HOSPITAL WARD		SERVICE ZONE	LOBBY
Proper airflow management for patients	Monitor the comfort level for each hospital ward	External device interlock control	Energy savings based on flexible scheduling	Centralized management of AHU for large space

PTVSMA0
Human detection sensor

PREMTB100
Wired remote controller
- 4.3 inch color LCD
- Touch button

PACSSA000
AC Smart 5
- BMS Integration (BACnet IP, Modbus TCP)

PACPSA000
ACP 5
- BMS Integration (BACnet IP, Modbus TCP)

PDRYCB400
2 contact point

Input:
- Operation On / Off

Output:
- Operation On / Off status
- Error alarm

PACSSA000
AC Smart 5
- BMS Integration (BACnet IP, Modbus TCP)

PACPSA000
ACP 5
- BMS Integration (BACnet IP, Modbus TCP)

PAHCMR000
AHU CommUit
- Return air

PAHCMS000
AHU CommUit
- Discharge air

Academic Institution Control Solution

Class Room

Automatically save energy in the absence of students

Central controls prevent students from arbitrary control

Lecture Hall

Schedule management according to academic plan

Maintenance Office

Integrated management of distributed buildings

Centralized management with multiple interfaces

Design Proposal

CLASS ROOM		LECTURE HALL	MAINTENANCE OFFICE	
Automatically save energy in the absence of students	Central controls prevent students from arbitrary control	Schedule management according to academic plan	Integrated management of distributed buildings	Centralized management with multiple interfaces

PTVSMA0
Human detection sensor

PREMTB100
Wired remote controller
- 4.3 inch color LCD
- Touch button

PACSSA000
AC Smart 5
- BMS Integration (BACnet IP, Modbus TCP)

PACPSA000
ACP 5
- BMS Integration (BACnet IP, Modbus TCP)

PACMSA000
AC Manager 5

Office Control Solution

Maintenance Office
Energy savings and management throughout the building

Integrated management of HVAC with BMS system

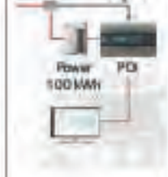
Reduce costs by replacing BMS

Office Room
Reasonable power distribution to tenants

Server Room
24-hour backup management

Meeting Room
Energy savings based on occupancy detection

Design Proposal

MAINTENANCE OFFICE			OFFICE ROOM	SERVER ROOM	MEETING ROOM
Energy savings and management throughout the building	Integrated management of HVAC with BMS system	Reduce costs by replacing BMS	Reasonable power distribution to tenants	Main equipment 24 hours back up management	Energy savings based on occupancy detection
					
PACSSA000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PUNWB000** ACP Lonworks	**PEXPMB000** ACS IO Module	**PPWRDB000** PDI Standard (2 ports) • Max. 128 IDU	**PACSSA000** AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PTVSMA0** Human detection sensor
					
PACPSA000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PMBUS100A** Modbus RTU gateway	**PEXPM300** **PEXPM200** **PEXPM100** ACU IO Module	**PQNUD1S40** PDI Premium (8 ports) • Max. 128 IDU	**PACPSA000** ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PREMTB100** Wired remote controller • 4.3 inch color LCD • Touch button

Residential Control Solution

Home
Anytime, anywhere air conditioner control and access

Integrate systems for smart connectivity throughout

Bed Room
Use a familiar residential thermostat

Simple interlocking control by remote control

Apartment / Residence
Stable system operation

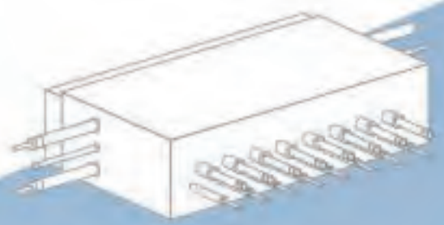
Design Proposal

HOME		BED ROOM		APARTMENT
Control your home air conditioner anytime, anywhere	Build a Smart house	Use a familiar residential thermostat	Simple interlocking control by remote control	Stable system operation when indoor unit power is lost
				
PWFMDO200 Wi-Fi modem **Function** • On / Off • Fan speed • Operation mode • Vane control • Reservation (Sleep, Weekly On / Off) • Error check	**PDRYCB500** Modbus RTU (9,600bps) **Function** • Operation • Indoor temperature • Error alarm • Set operation mode • Set temperature • Set fan speed	**PDRYCB320** 8 contact point **Input** • Universal Input • Operation On / Off • Thermo On / Off • Operation mode (Fan / Heat / Cool) • Fan speed (Low / Middle / High) **Output** • Operation On / Off status • Error alarm	**PREMTB100** Wired remote controller • 4.3 inch color LCD • Touch button	**PINPMB001** Multi-tenant Power Module • EEV full close function

320 - 341

ACCESSORIES

MECHANICAL ACCESSORIES / PIPING ACCESSORIES



Cassette Panel

The Independent Vane Operation makes desired and comfortable air flow

Model Name & Applied Products

4 Way Cassette (Mini, 570x570)
PT-QAGW0
PT-QCHW0
PT-UQC

2 Way Cassette
PT-USC

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

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

Key Features

- Independent vane operation uses separate motors, making it possible to control all 1, 2, and 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

Compact and Stylish Design

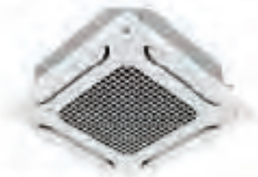
- Mini 4 way cassette panel adapted unibody shape and matching with into the ceiling
- Panel size is fit into the ceiling tile.

Specification

Model		Section Type	Color (RAL)	Glass	Weight (kg)	Dimension (mm)			Applied Model Capacity (kW)*					
						W	H	D	Single Split		Multi Split		Multi V	
									R32	R410A	R32	R410A	R32	R410A
4 Way	PT-QCHW0	Grill	Morning Fog (RAL 9001)	X	3.0	620	35	620	2.5-5.0	2.5-6.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
	PT-UQC	Grill	Morning Fog (RAL 9001)	X	3.0	700	22	700	2.5-5.0	2.5-6.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
	PT-QAGW0	Grill	White (RAL 9003)	X	2.9	620	35	620	2.5-5.0	2.5-6.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
2 Way	PT-USC	Grill	Morning Fog (RAL 9001)	X	4.7	1,100	28	690					2.8-7.1	2.8-7.1
1 Way	PT-UAHG0	Grill	White (RAL 9003)	O	3.9	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.8	2.2-3.8
	PT-TAHG0	Grill	White (RAL 9003)	O	4.8	1,480	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1
	PT-UAHW0	Grill	White (RAL 9003)	X	3.3	1,100	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-TAHW0	Grill	White (RAL 9003)	X	4.5	1,420	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1
	PT-UPHG0	Grill	White (RAL 9003)	O	4.1	1,160	34	500			2.6-3.5	2.6-3.5	2.2-3.6	2.2-3.6
	PT-TPHG0	Grill	White (RAL 9003)	O	4.9	1,480	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1

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

Dual Vane Cassette Panel



Model Name
PT-AAGW0
PT-AFGW0

Key Features

Model	Function					
	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Elevating Grille	Human Detection Sensor
PT-AAGW0	O	Optional	Optional	X	X	Optional
PT-AFGW0	O	Optional	Optional	Optional (Dust Sensor, Tact Switch)	X	Optional

Specification

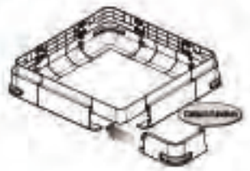
Model	Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)		
					W	H	D
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950

Air Purification Kit

Model	Type	Image	Model name	Dielectric Dust-collecting filter	Photocatalytic Deodorizing filter	HVPS	Sensor
Air Purification Kit	4 Way		PTAHMP0	O	O	O	O
	1 Way		PTAHTP0	O	O	O	O
	Round		PTAHYP0	O	O	O	X

Cassette Cover

Cover in case of exposed cassette installation



Key Features

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

Specification

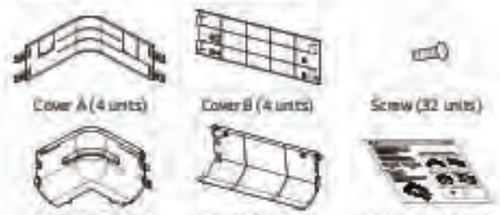
Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCM	PT-AAGW0 / PT-AFGW0	TB	5.9	8.8	1,157	1,157	268
		TA	3.9	8.8	1,157	1,157	310
PTDCQ	PT-UQC	TB	5.0	7.2	907	907	268
		TQ	5.0	7.2	907	907	310

Model Name
PTDCM / PTDCQ

Applied Products
4 Way Cassette (for chassis TA, TB, TQ, TR)

Included Parts

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



CO_2 Sensor

CO_2 sensor in ventilation system.

Model Name
AHCS100H0

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

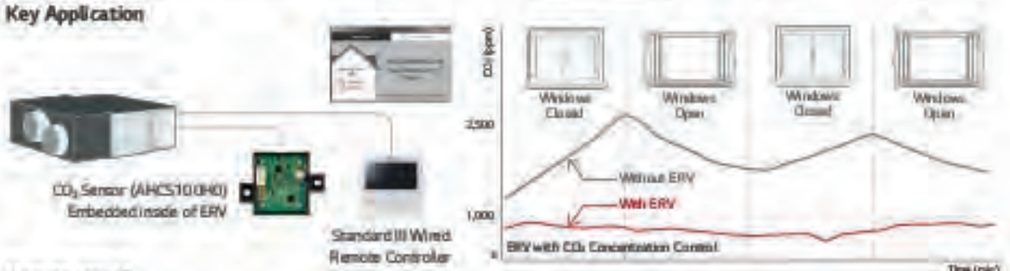
Applicable Products
LZ-H050GXN0 / LZ-H080GXN0
LZ-H100GXN0 / LZ-H050GXH0
LZ-H080GXH0 / LZ-H100GXH0

Key Features
Specification
- Applied Model : ERV (Embeded), ERV DX (Option)
- Supply voltage : DV 12V ±5%
- Output : 0.6 ~ 4.4V (Linear output, 340 ~ 1,760 ppm CO_2)
- Accuracy : ± 10% (2 days after installation)

Description
- The product is especially designed to detect CO_2.
- This model requires Standard III Wired Remote Controller for display.

Dimensions (Unit : mm)

Key Application

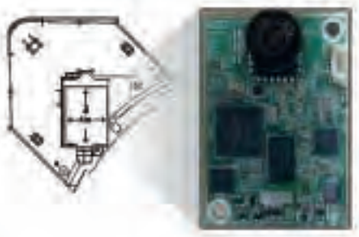


How to Install
1. Remove a screw on the service cover. Pull the service cover fixing bracket (①), then remove the service cover(②). Remove two elements (③) and two air filters (④).
2. Install the sensor with two screws.
3. Remove a screw, then remove the right side of element rail (⑤).
4. Press the holder (⑥) into the hole to fix the CO_2 sensor cable (⑦).
5. Connect the wire terminal to the CN-CO_2 port of PCB.

※ Airflow can be controlled by concentration of CO_2 after setting automatic operation mode at remote controller.
※ Use the screwdriver whose total length is less than 250mm.

Human Detection Kit

Human Detection Kit ensures energy saving and controls wind direction.



Model Name
PTVSMA0

Applied Products
PT-AUQW0
(For Dual Vane Cassette Panel)
PT-AEQW0
(For Dual Vane Cassette Panel)

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

Refrigerant Leakage Detector

R410A refrigerant leakage detector ensures room safety.

Model Name
PRLDMV50

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

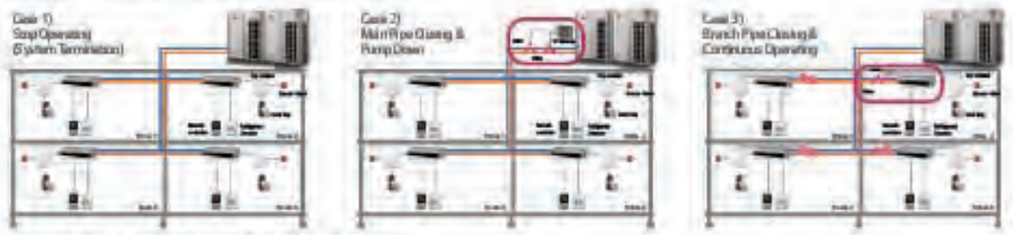
Parts	Specification	
Sensor	Rated Voltage (V)	DC 5.0 ±5%
	Dimensions (W x H x D, mm)	31 x 44 x 20
	Weight (g)	22
	Detectable Refrigerant	R410A
	Detected concentration (ppm)	0 / 6,000 Alarm Off / On
	Operating temperature range (oC)	-10 ~ 50
	Preserved temperature range (oC)	-40 ~ 60
	Average power consumption (mA)	35
Connecting cable	Cable length (m)	10
Sensor protective cover	Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.8
	Dimension of Backplate (W x H x D, mm)	80 x 110 x 6.5

This function available for ARUM***LM* Series of Multi V 5, Multi V IV (HR, HP model)

Included Parts

Sensor | Connecting Cable | Sensor Protective Cover

Key Application
Refrigerant Leakage Detector has three application methods.



Accessory Specification (To realize the case 2 application)

I/O Module PVDSMN000 ※Necessary accessory | PRLDMV50 (Refrigerant leak detector) | [Optional / Field Supply] Automatic Ball Valve*1 *1) Please contact to subsidiary to get the recommended specification (LG Electronic don't provide this accessory) | PDRYCB400 (Dry contact) | [Optional / Field Supply] Buzzer alarm Air control control room (Direct connection – DC 30V, – 1A) | [Field Supply] Buzzer alarm for room | Central Control Devices

EEV KIT (for Indoor Unit)

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

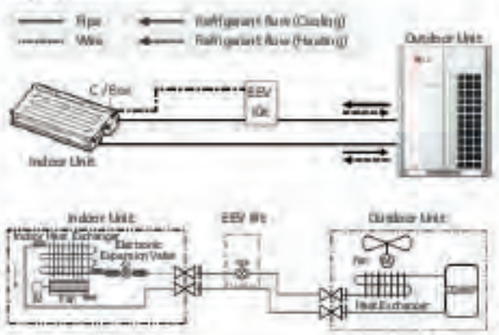
Model Name

PRGK02AA0

Key Features

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

Key Application



Applied Products

Indoor Unit	Model	Capacity	Applicable
Cassette	1 Way Cassette	TU	O
	2 Way Cassette	TT	N/A
		TS	O (~5.6kW)
	4 Way Cassette	TR	O
		TQ	O (~4.5kW)
		TP	N/A
		TN	N/A
		TM	-
Duct	High Sensible	BG	-
		BR	-
		BB	-
	High Static	B6	-
	Middle Static	M1	O (~5.6kW)
		M2	-
		M3	-
	Low Static	L1	O
		L2	-
		L3	-
Etc	Floor Standing	CE	O
		CF	-
	Convertible	VE	O
	Ceiling Suspended	V1	-
		V2	-
	Wall Mounted	SJ	O
		SK	O
		SV	-
	Art Cool	SF	O
	Console	QA	O
	Hydro kit	K2	-
		K3	-

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

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

Luxury Hotel

Villa

Executive office

Meeting room

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

How to Install

Open indoor unit's control box cover.

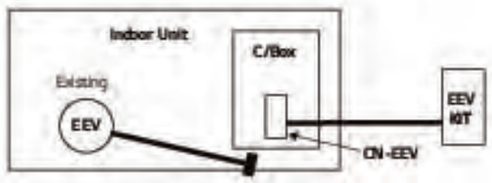
① Open fully indoor unit's EEV through vacuum mode of ODU setting.

② Detach the indoor unit's EEV connector from PCB and then push the reset button of Outdoor unit's PCB.

③ After connecting indoor unit's EEV CONNECTOR, repeat the process ① & ②. Then, connect the EEV CONNECTOR of EEV KIT in PCB of indoor unit.

④ Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.

⑤ Assemble the control box cover.



IR Receiver

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

Model Name

PWLIRV0000

Applied Products

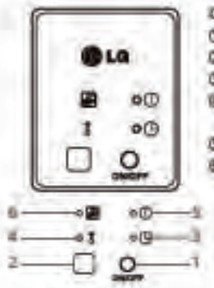
Multi V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Features

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

Key Application

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



Operation of Indication Lamps

① Emergency Operation button : Turns the indoor unit on or off when remote controller is not working.

② Signal Detector : Receives the signal from remote controller.

③ Timer lamp (Green) : Lights up during the timer operation.

④ Hotstart lamp (Orange) : Lights up during the pre-heating operation, defrost operation as well as latent heat removal operation in heat mode. Available only for the heat pump models, not cooling only models.

⑤ System On / Off lamp (Red) : Lights up during system controller operation.

⑥ Filter Sign lamp (Green) : Lights up after 2,400 hours from the time of first power on operation.

Test Run Mode

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

Multi-tenant Power Module

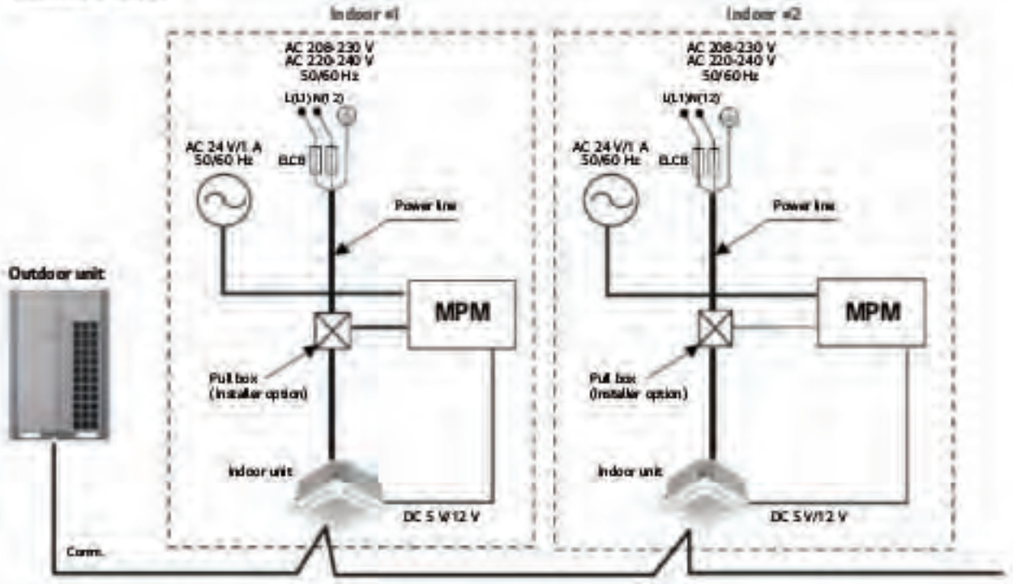
System operation is stable when indoor unit power is lost.

Model Name
PMPM8001

Applied Products
Multi V Indoor Units

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

Installation Scene



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

Auxiliary Heater Relay Kit

Providing an efficient way to add auxiliary heat.

Model Name
PHARST

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

Model Name
PHARH1

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

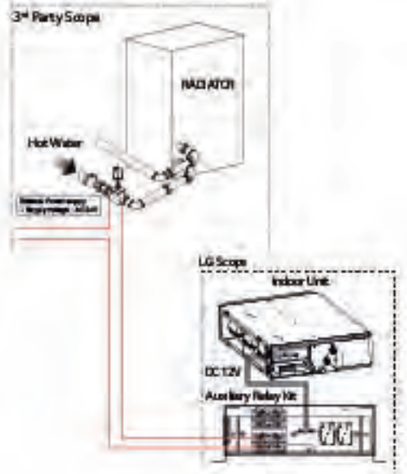
Key Features
- Provides two stages of auxiliary heat for indoor unit.
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

Included Parts

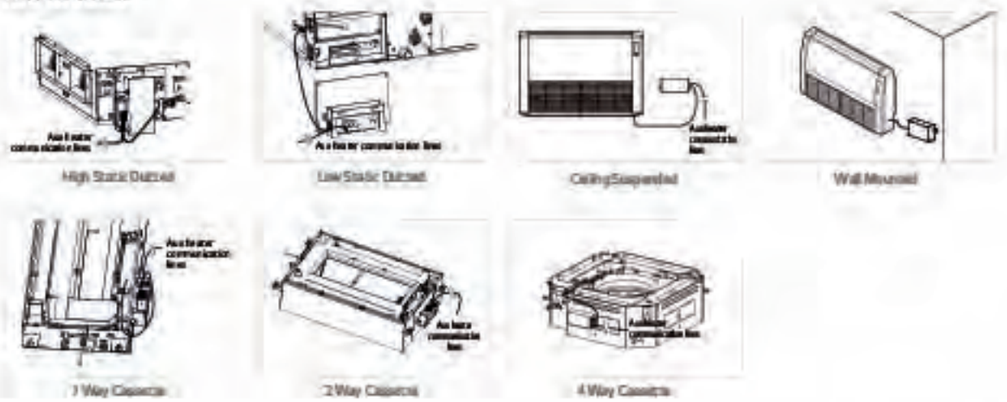
Model	PHARH1			
Item	Auxiliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1
Figure				

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

Key Application



How to Install



Heat Recovery

Model Name

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

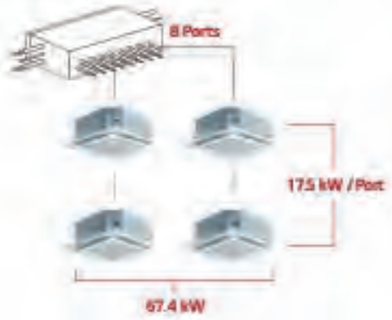
Applied Products

Multi V 5
Multi V IV
Multi V Water IV

Key Features

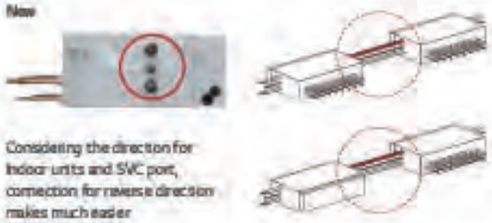
- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection
- Subcooling cycle in HR unit makes the system efficiency maximum.

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



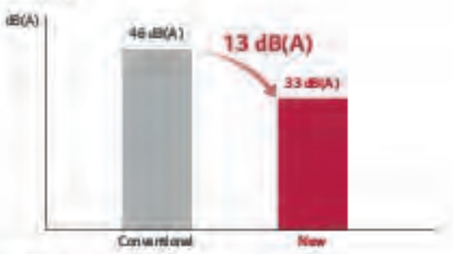
Flexible Connection
Series connection can be installed without pipes crossing.

New



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

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

Included Parts

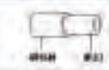
- HR unit (1EA)
- Hanging bolts M10 or M8 (4EA)
- Nut M8 or M10 (8EA)
- Washers M10 (8EA)
- Reducers

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 / 33	17.5 / 52.5	17.5 / 67.4	17.5 / 67.4	17.5 / 67.4
Maximum Number of Connectable Indoor Units Per Branch			EA	8	8	8	8	8
Nominal Input	Cooling		kW	0.040	0.040	0.040	0.076	0.076
	Heating		kW	0.038	0.038	0.038	0.072	0.072
Net. Weight			kg	18.5	20.3	22.0	28.3	31.8
Dimensions (W x H x D)			mm	786 x 218 x 657	786 x 218 x 657	786 x 218 x 657	1,113 x 218 x 657	1,113 x 218 x 657
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Power Supply			Ø, V, Hz	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60	1, 220-240, 50 1, 220, 60

Reducers for Indoor Unit and HR Unit

(Unit : mm)

Model		Liquid	High Pressure	Low Pressure
Indoor unit reducer				
HR unit reducer	PRHR023			
	PRHR033 PRHR043 PRHR063 PRHR083			

Y Branch and Header Branch

For refrigerant distribution of indoor units

Model Name

Refer to specifications

Applied Products

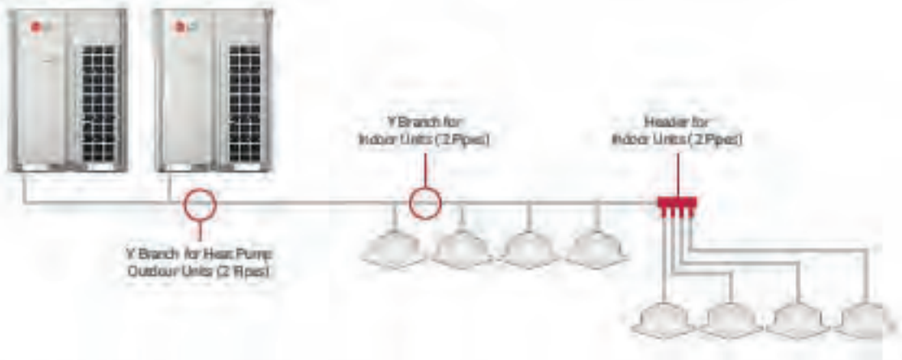
Multi V S
Multi V IV
Multi V III, Multi V Plus II, Multi V Plus
Multi V S
Multi V Water IV
Multi V Water II
Multi V Water S

Key Features

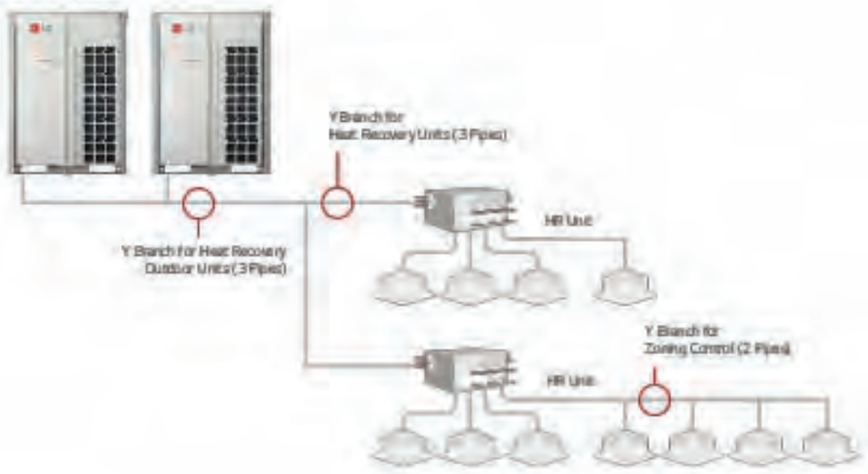
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Key Application

Heat Pump System



Heat Recovery System

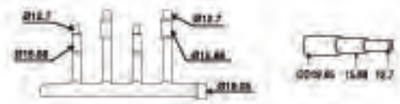


Specification

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

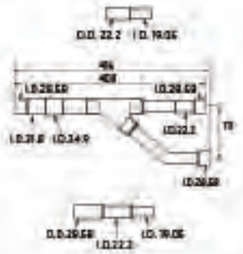
Y Branch pipe for connection of outdoor units.

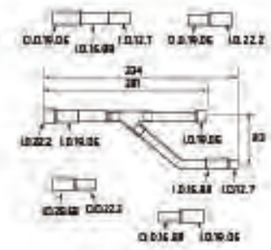
Specification

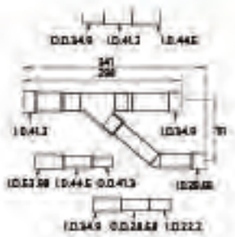
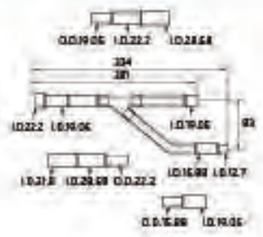
Heat Pump

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

(Unit: mm)

2 Outdoor Units		
Model	High Pressure Gas Pipe	Liquid Pipe
ARCNN21		

3 Outdoor Units		
Model	High Pressure Gas Pipe	Liquid Pipe
ARCNN31		

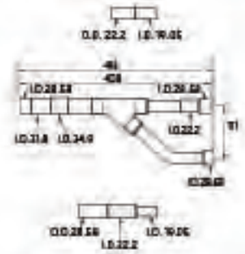
4 Outdoor Units		
Model	High Pressure Gas Pipe	Liquid Pipe
ARCNN41		

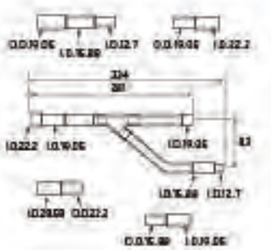
Specification

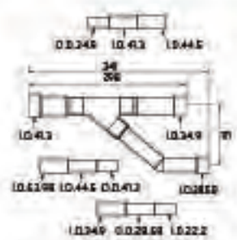
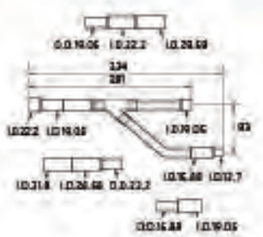
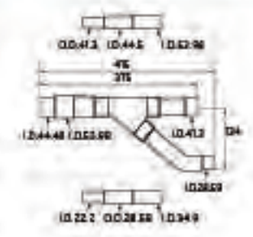
Heat Recovery

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

(Unit: mm)

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

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

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

Piping Accessories

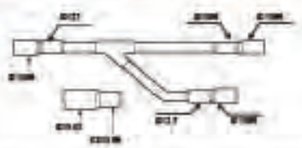
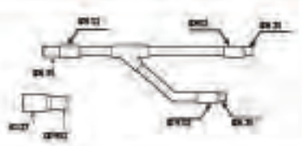
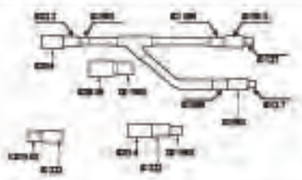
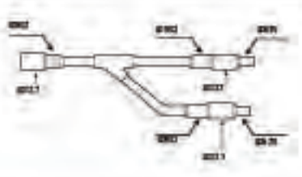
Y Branch pipe for connection of outdoor units.

Specification

Heat Pump, Heat Recovery Zone Control

R410A MULTI V 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
ARBUN01621		
ARBUN03321		

Model	Gas Pipe	Liquid Pipe
ARBUN07121		
ARBUN14521		

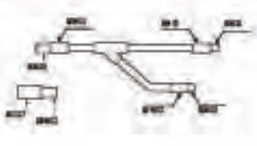
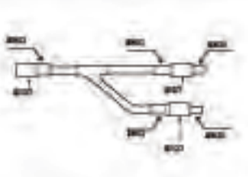
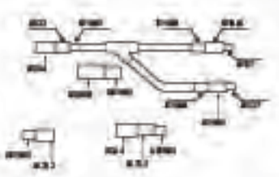
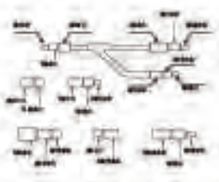
Model	Gas Pipe	Liquid Pipe
ARBUN23220		

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

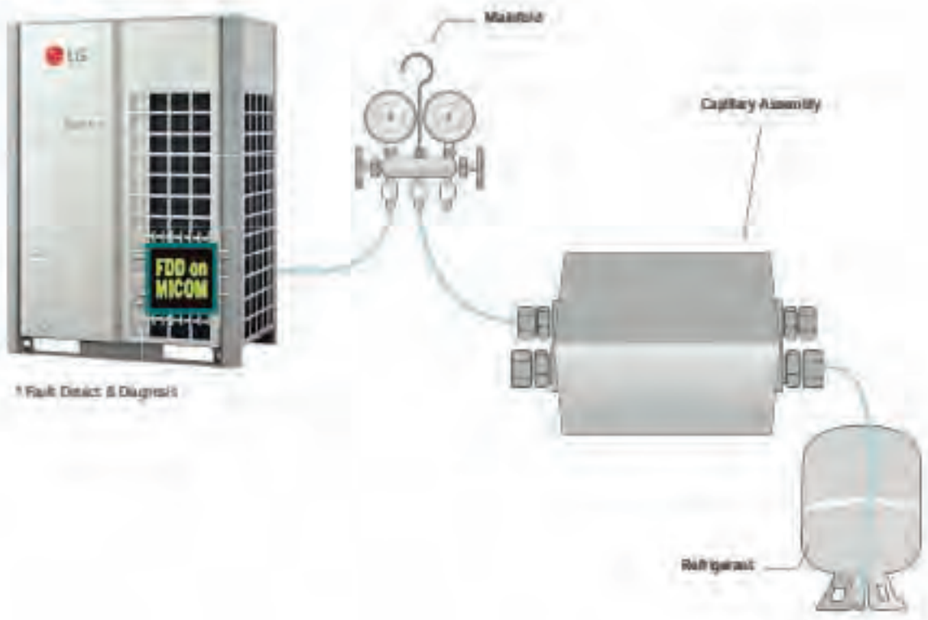
Applied Products

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

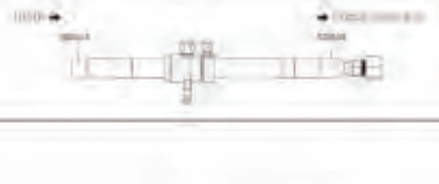
Model Name

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

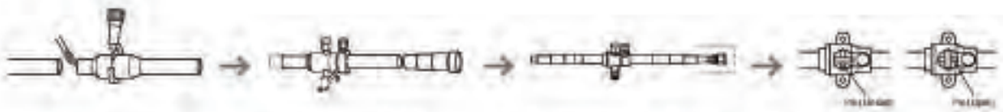
Key Features

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

Specification

Model	Specification
PRVT120	
PRVT780	
PRVT980	

How to Install

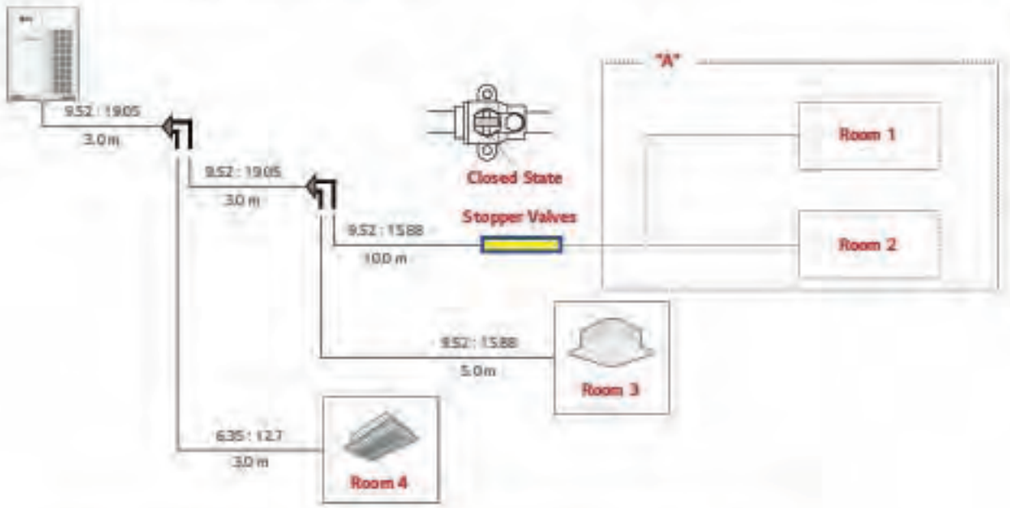


1. Cut the inlet side of the connector, and weld the pipe.
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing an additional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