2025 | MULTI V™

2025

MULTI V™



LG Electronics
http://www.lg.com
http://partner.lge.com

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Life's Good.

028
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OUTDOOR UNITS

MULTI V *i* 030
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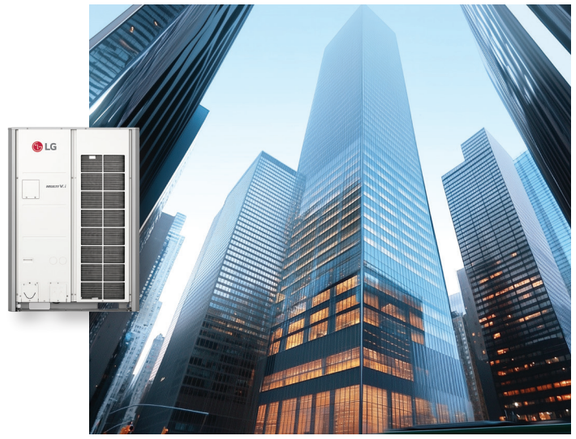



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THE EU BUILDING SECTOR

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

LG : OUR MISSION

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



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



OF GREENHOUSE GAS EMISSIONS COMES FROM BUILDINGS

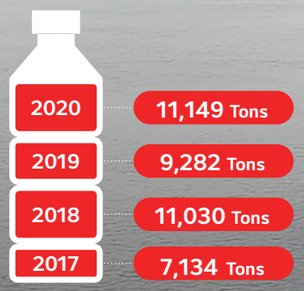
* Source: The European Commission website. https://commission.europa.eu/news/focus-energy-efficiency-buildings-2020-02-17_en

1 RE-DESIGN

IMPROVE CIRCULARITY OF RAW MATERIALS

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

Amount of recycled plastic that LG used in previous years



Targeted use of recycled plastics

27,000 Tons
2021 achievement

600,000 Tons
2030 target

RECYCLING OLD APPLIANCES

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

85% of old appliances become new resources

Target amount of e-waste collection

2021 achievement — 3.52M Tons
2030 target — 8M Tons

2 RE-PROGRAM

ACHIEVE 95% WASTE RECYCLING AT PRODUCTION SITES BY 2030

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

3 INNOVATE

REDUCE RELIANCE ON HIGH GWP REFRIGERANT GASES

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

CONSTANT PRODUCT EFFICIENCY IMPROVEMENTS

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

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

2021 achievement 6.6%
2030 target 20%

FIRST HOME APPLIANCES LIGHTHOUSE FACTORY

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

4 CERTIFICATIONS

LG Electronics is listed in the:

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



EU **MARKET TRENDS**

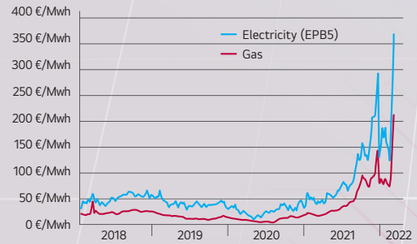
More efficient HVAC systems are required to significantly reduce energy consumption and to meet energy regulations.

Soaring Energy Prices in Europe

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

Electricity & Gas price

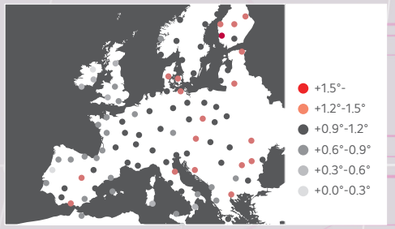
Wholesale Prices EU27



Source : brusselstimes

Efficiency

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



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

Environment

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

Low-carbon Strategy (Targets compared to 1990)

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

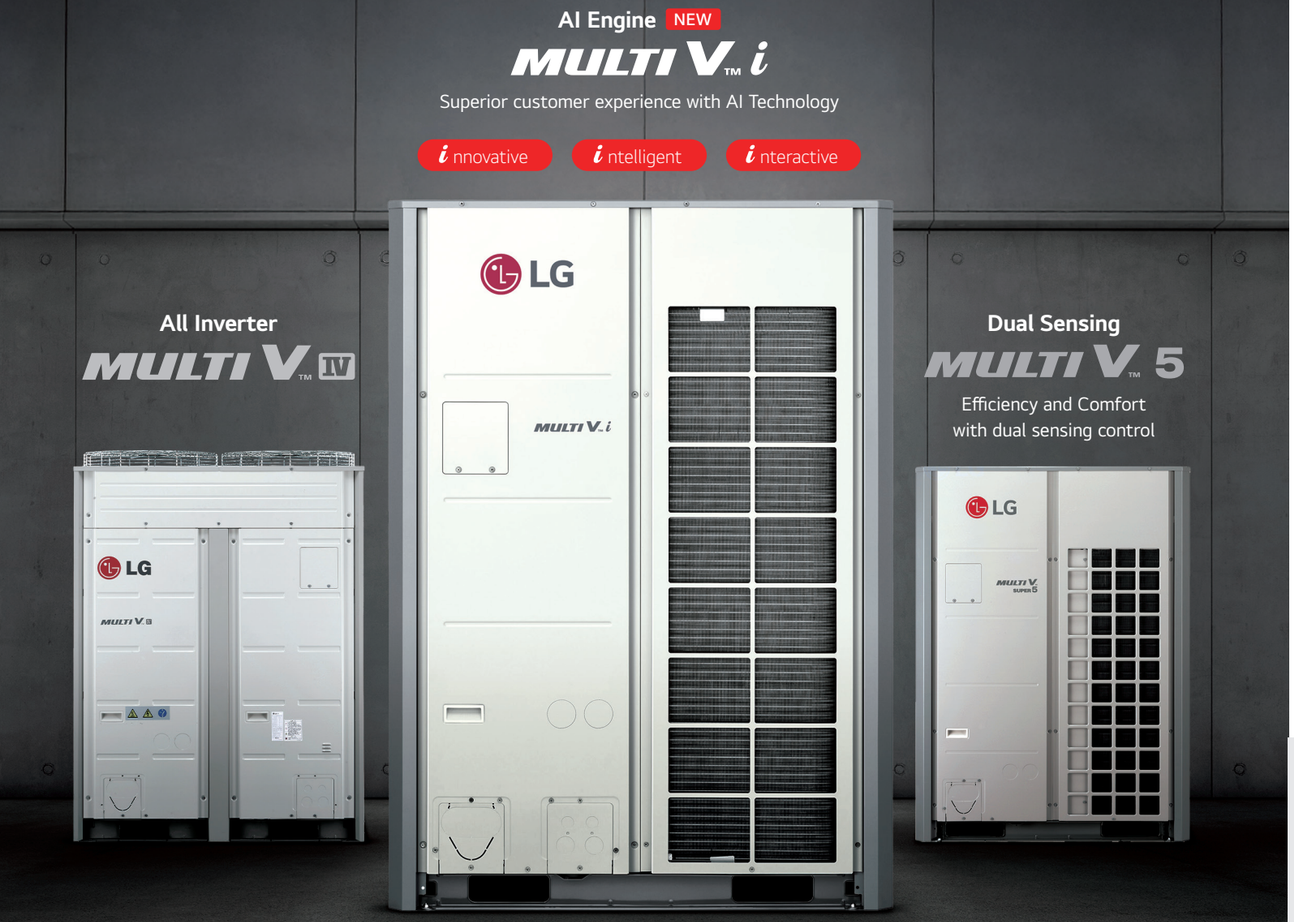
	2005	2030	2050
Power (CO_2)	-7%	-54% ~ -68%	-93% ~ -99%
Industry (CO_2)	-20%	-34% ~ -40%	-83% ~ -87%
Transport (incl, CO_2, aviation, excl, maritime)	+30%	+20% ~ -9%	-54% ~ -67%
Residential & Services (CO_2)	-12%	-37% ~ -53%	-88% ~ -91%
Agriculture (other than CO_2)	-20%	-36% ~ -37%	-42% ~ -49%
Total	-7%	-40% ~ -44%	-79% ~ -82%

* Source : European Commission



MULTI V BRAND HISTORY

MULTI V is recognized for its technology and innovation.



HISTORY OF MULTI V LEADERSHIP

2013
MULTI V IV

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

2017
MULTI V 5

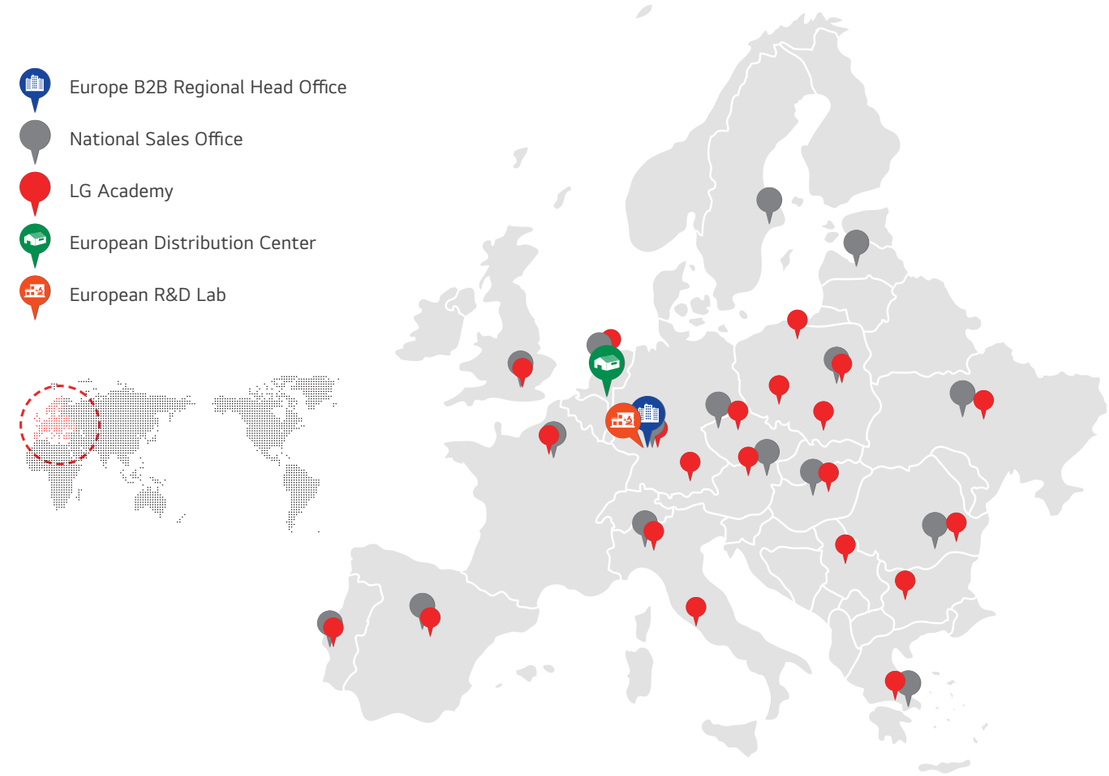
- Dual Sensing Control
- Ultimate Inverter Compressor
- Large Capacity ODU with Biomimetic Technology Fan
- Continuous Heating
- Ocean Black Fin

2023
MULTI V i

- Powerful Performance
- Energy Saving with AI Engine
- Noise Adaptive Control
- Smart Diagnosis Reporting
- Weather Information Interlocking Control

LG BUSINESS PARTNERSHIP & INFRASTRUCTURE

- Europe B2B Regional Head Office
- National Sales Office
- LG Academy
- European Distribution Center
- European R&D Lab



INFRASTRUCTURE IN EUROPE

LG Electronics' European Air Solution department is committed to ensuring your business success. With 16 pan-European sales offices and academies, we seek to deliver on our promise of support, efficiency and proactivity throughout each stage of our business partnership. Our highly competitive products are delivered through our dedicated European distribution centre to ensure a steady and reliable supply of inventory. At our European Energy Lab, LG Business Solutions is developing a heat pump technology that is optimized for the varied European climates and weather patterns along with continuous product performance verification.



LG Europe B2B Regional Head Office

LG Business Solutions Europe is based in Eschborn, Germany, with regional offices located throughout Europe. LG Europe B2B Regional Head Office is a control tower for European B2B business dealing with a wide range of products, including heat pumps and air conditioners. LG Electronics has a strong global network.

About LG Business Solutions:
http://www.lg.com/global/business/about-lg-business



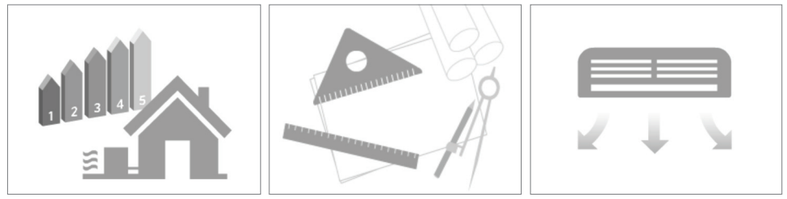
European Distribution Center

LG's European Distribution Center is located in Tilburg, the Netherlands. Supplying 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. Inventory efficiency of the hub is secured by the LG EU's established inventory pool.

ENGINEERING TOOLS & SUPPORT

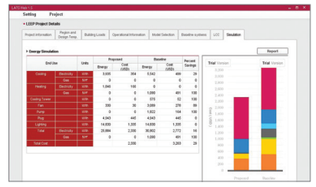
From planning to service & maintenance and then to de-construction, an architectural project goes through many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution 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. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers with a solution that allows for faster, easier and more accurate model selection, draft energy estimations and more.

* LATS : LG Air-conditioner Technical Solution



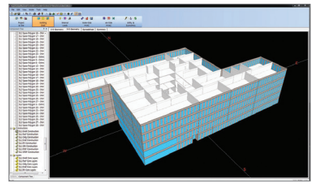
I	II	III
Energy Estimation & Energy Modeling	Model Selection & Design	Installation Environment Analysis
01 Planning	LATS Energy Simple energy estimation for proposal		
02 Schematic Design		LATS HVAC Model Selection for LG VRF	
03 Design Development		Energy Modeling - eQUEST® - TRNSYS Detailed energy modeling for comparison	LATS CAD LATS REVIT Drawing using CAD for LG VRF Spec-in	CFD - FLUENT Outdoor / Indoor environment analysis before installation
04 Construction Design				
05 Construction				
06 Service & Maintenance				LGMV

01 Draft Energy Estimation



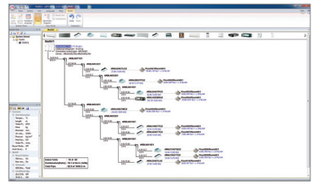
LATS Energy
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems at the early stages of a project.

02 Building Energy Modeling



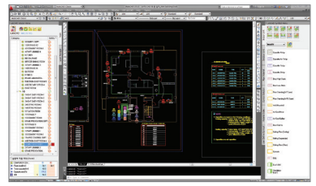
eQuest, EnergyPro, Trace700 and More
These are certified commercial programs which assess a HVAC system's efficiency and a building's annual energy savings for building standards or certifications, like LEED. LG HQ supports these programs for the project stages of Design Development and Construction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

03 Model Selection

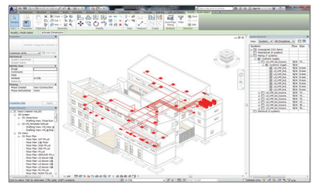


LATS HVAC
LATS HVAC is a model selection program that accurately and quickly selects the most suitable LG commercial air conditioning systems for each design. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing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

04 Design

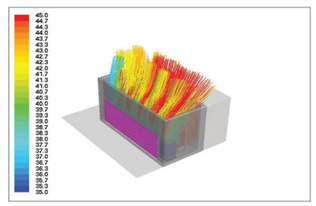


LATS CAD
LATS CAD enables faster and more accurate 2D design of LG commercial air conditioning systems. It also enables modules for quotation and installation review that minimize inherent problems during installation and commissioning.
※ AutoCAD program is required.



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

05 Environment Simulation



CFD Analysis
CFD Analysis is applied to estimate indoor airflow, temperature distribution, outdoor airflow distribution and noise level while operating VRF products.
By running a simulation before construction, engineers estimate potential issues and find optimal solutions for malfunctions that could occar after construction.

06 Service & Maintenance



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

BENEFITS OF LG MULTI V

Benefits for
Building Owners

Efficient Management & Cost Reduction
- Fault Detection Diagnosis enables easy maintenance with no extra manpower for regular maintenance
- Saves space, time, and installation costs by offering a larger capacity single outdoor unit
- More reliable heating operation provides stable and powerful heating during unexpected extreme environments

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

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



Benefits for
Developers & Construction Companies

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

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

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



Benefits for
Consultants

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

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

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



Benefits for
End-users

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

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

Convenient Functions
- Low-noise operation provides a pleasant environment



APPLICATION SOLUTIONS

Office

Supporting efficiency with flexibility

High Rise Office Building



Small to Medium sized Office Building



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

Commercial

Maximizing business, minimizing cost

Shopping Mall



Retail



Quick Service Restaurant (QSR)



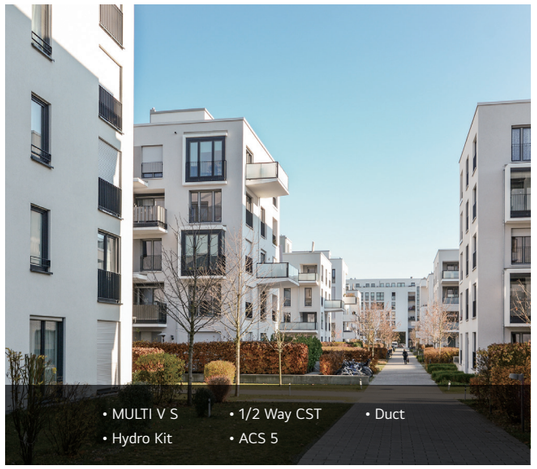
The highly efficient, energy saving MULTI V i and MULTI V M reduce operation costs and provide comfort to suit any purpose and any interior, helping your business save extra space and reduce expenses.

* CST : Cassette ** PDI : Power Distribution Indicator

Residential

Creating a comfortable home

Condominium & Apartments



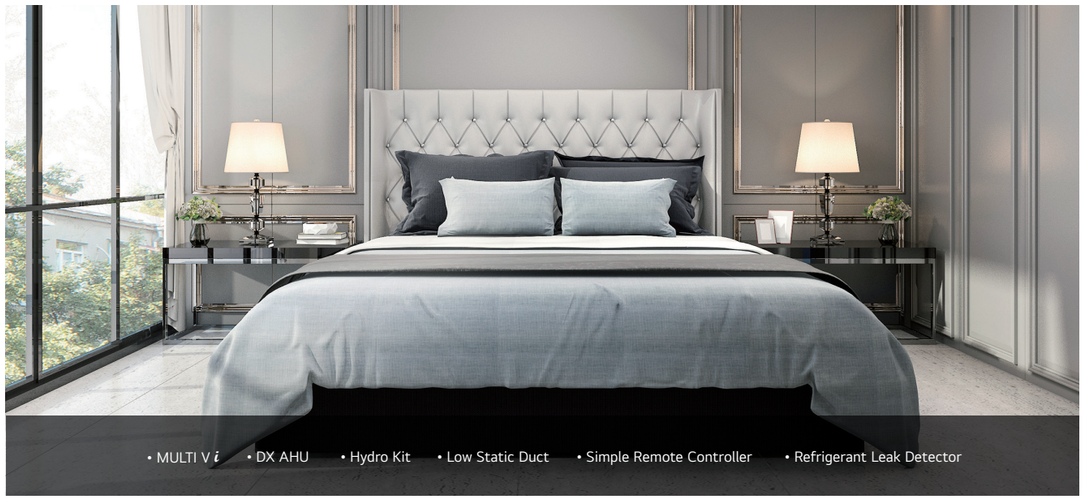
Single Family House & Villa



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

Hospitality

Meeting diverse needs

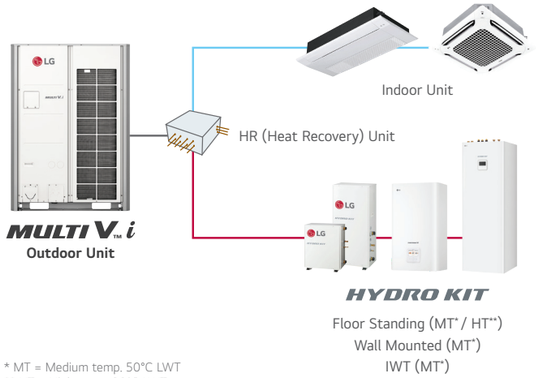


The variety of applications that MULTI V i offers represents a perfect opportunity for a sophisticated hotel business.

* ESS : Energy Storage System

Hot Water Solution

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

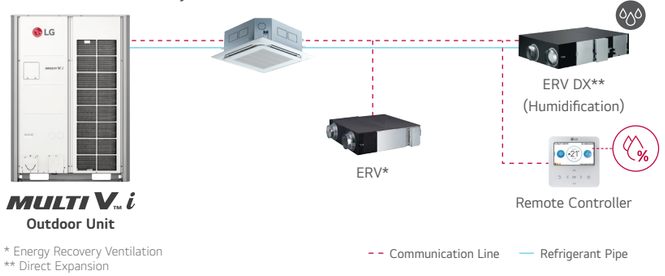




* MT = Medium temp. 50°C LWT
** HT = High temp. 80°C LWT

Interlocking Operation with ERV

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



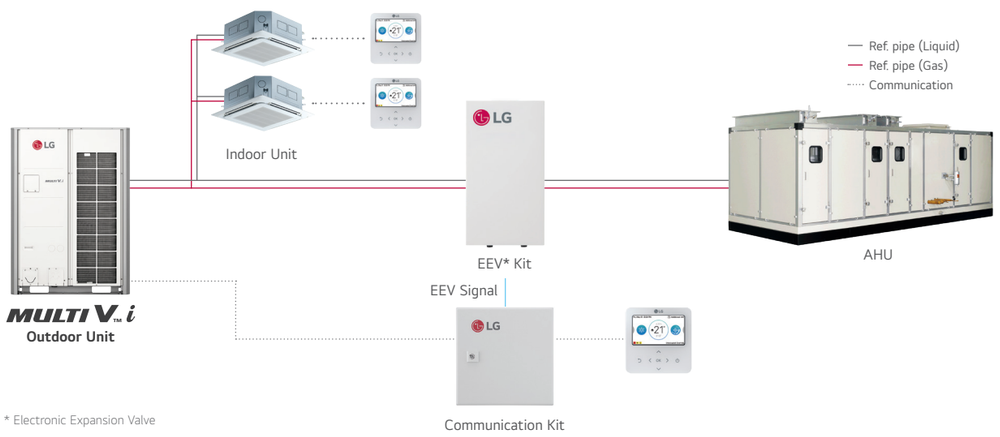
* Energy Recovery Ventilation
** Direct Expansion

Various Applications

- Hospital
- Nursery Facility & School
- Sanatorium

Air Handling Unit (AHU) Solution

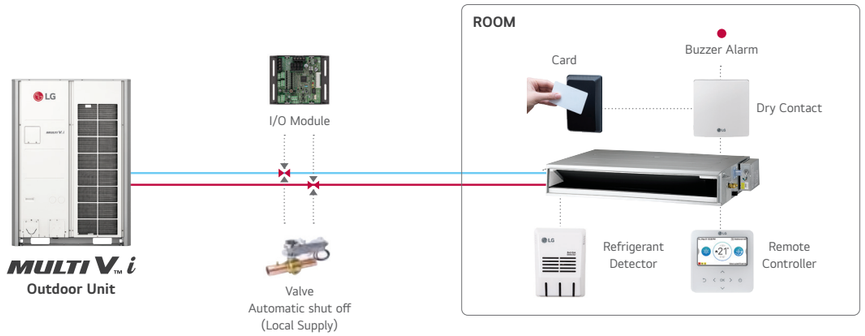
AHU is a suitable solution for cooling and heating in large spaces. With an LG AHU Comm. Kit (for both return air / supply air control) connected to the DX coil of the AHU, LG VRF system can be applied to deliver conditioned air.



* Electronic Expansion Valve

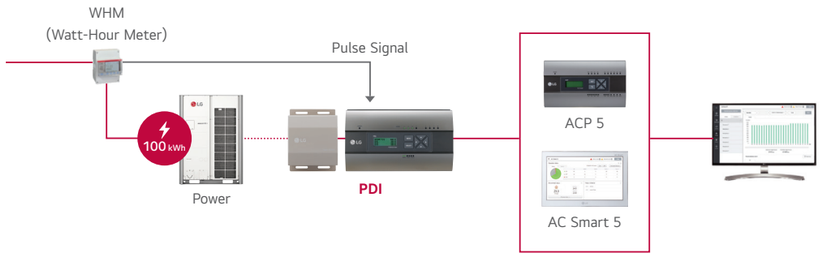
Refrigerant Leak Detection Solution

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



Power Consumption Distribution Solution

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



Total Control via Any Device

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



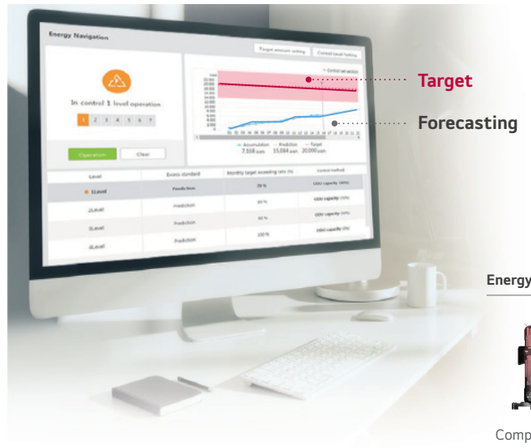
Management office
PC

Library
Tablet

Main administration building
Mobile

Energy Management Solution

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



Monthly Target Setting

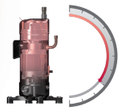
↓

Control Step & Logic Selecting
(Up to 7 Steps)

↓

Automatic Control by Power Consumption

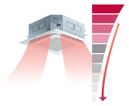
Energy Saving Logic



Compressor Capacity Control



IDU Operation Ratio Control



IDU Operation Level

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
KNX

Small - Medium size building



IDU ~64 : Modbus RTU G/W

* Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules



IDU ~64 : KNX gateway



KNX gateway for IDU

Medium - Large size building



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

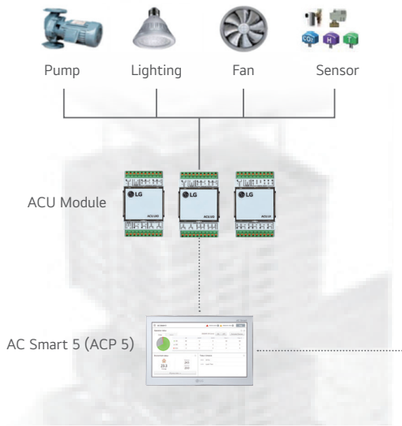


IDU ~256 : ACP5
(BACnet IP / Modbus TCP)

* IDU ~ 64, Lonworks with U60FT

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.



Saving Engineering Cost

Strengthen Maintenance Efficiency

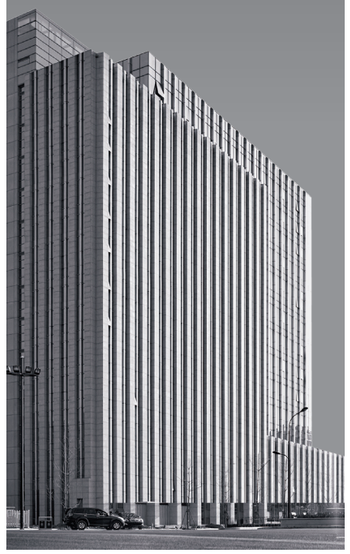


Interlocking Solution Using Dry Contact

3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit.
The Standard III remote controller has a DO port. With this DO port, it is possible to interlock the indoor unit with 3rd party devices such as lighting, a fan, or a radiator, based on parameters like operation mode or current temperature.
The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor ect., so that the air conditioner is automatically operated. In addition, the dry contact option settings enable the operation of the air conditioner to maintain proper temperature when the occupant is absent. This solution makes sure that the room does not overheat or become too cold when unoccupied so that energy cost can be saved.



MULTI V™ i



8 - 12 HP
R32 **8 - 12 HP**

380V, 3Ø



14 - 20 HP
R32 **14 - 20 HP**

380V, 3Ø



22 - 26 HP
R32 **22 - 26 HP**

380V, 3Ø



28 - 48 HP
R32 **28 HP**

380V, 3Ø



50 - 68 HP

380V, 3Ø



70 - 96 HP

380V, 3Ø



MULTI V™ M



5 HP

220V, 1Ø
380V, 3Ø



MULTI V™ S



4 HP

220V, 1Ø



5 - 6 HP

220V, 1Ø

4 - 8 HP

380V, 3Ø



10 - 12 HP

380V, 3Ø



6 HP

220V, 1Ø

Heat Recovery



3 - 6 HP

220V, 1Ø
380V, 3Ø

R32



MULTI V™ WATER 5



8 - 20 HP

380V, 3Ø



22 - 40 HP

380V, 3Ø



42 - 60 HP

380V, 3Ø



Unit : HP ● 380V, 3Ø ○ 220V, 1Ø * R410A, R32 Line-up

Features	Appearance	3	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	...	96
MULTI V i						●*	●*	●*																																			
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MULTI V S			○																																								
			●	○ ●	○ ●	●	●	●																																			
	HEAT RECOVERY				○																																							
	R32	○ ●	○ ●	○ ●	○ ●																																							
MULTI V M				●																																							
MULTI V WATER 5						●	●	●	●	●	●	●																																
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- Large capacity ODU (Up to 26 HP)
- R32 ODU line-up (Up to 28 HP)
- Powerful cooling / heating performance
- Flexible ODU combinaion
- AI efficiency / comfort / smart up
- Scability to various applications
- Continuous Heating
- Black Fin heat exchanger
- Flexible installation
  (Heat recovery unit & large capacity)
- Large space, Individual control building

Shopping mall Education Airport

- Space saving
- Flexible design
  Slim, light, broad range (3 -12 HP)
  Large number of connectable
  indoor units (Up to 20 Units)
- Small to medium buildings

Apartment House & villa

- High flexibility of installation
- Various indoor unit combinations
  & long distance between modules
- Retail shop

Office Cafe Restaurant

- High efficiency systems
- Indoor installation
- Low noise operation (No fan)
- Simultaneous cooling & heating
- Individual control building,
  Large building

Hospital Resort

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

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

Individual Control

Wired Remote Controller

Standard

Deluxe



PREMTMB01*
(Multi-room control + Wi-Fi)
PREMTA211 (Wi-Fi)
PREMTA210 (Lite)

Premium



PREMTA000
PREMTA000A
PREMTA000B

Standard III (White)



PREMTB101

Standard III (Black)



PREMTB11

Standard II (White)



PREMTB001

Standard II (Black)



PREMTBB01

Standard



PREMTB200

Simple



PQRCVCL0QW



PQRCVCL0Q



PQRCHCA0QW
(Simple for Hotel)



PQRCHCA0Q
(Simple for Hotel)

Wireless Remote Controller



PWLSSB21H (Heat Pump)
PWLSSB21C (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
* ~64, Lonworks with U60FT

AC Manager 5



PACM5A000
(Indoor Unit ~ 8,192)

Gateway

Modbus RTU gateway



PMBUSB00A
(Indoor Unit ~ 16 with single module
Indoor Unit ~ 64 with 4 modules)

KNX gateway



INKNXLGE016O036
(Indoor Unit ~16)
INKNXLGE064O036
(Indoor Unit ~64)



INKNXLGE001R000
(For Indoor Unit)

PI485



For ERV
PHNFP14A0



For ERV
PSNFP14A0 (with case)



For AWHP
PP485A00T



For SINGLE / MULTI
PMNFP14A1

* 2H Launching

Centralized Control

Facility Integrator

PDI
(Power Distribution Indicator)



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

ACS IO Module
(Input / Output Module)



PEXPMB000

ACU IO Module
UIO



PEXPMB300

UO



PEXPMB200

UI



PEXPMB100

Integration Device

Indoor Unit

Dry Contact



Simple Dry Contact
PDRYCB000



Dry Contact for Thermostat
PDRYCB320



2 Points Dry Contact (For Setback)
PDRYCB400



For Modbus
PDRYCB500
/ PDRYCB510 (w/o case)

Control Accessory

Group Control Wire



PZCWRCG3

Remote Temperature Sensor



PQRSTA0

Zone Controller



4 Zones by thermostat
ABZCA

Multi-tenant Power Module



PINPMB001

Outdoor Unit

IO Module
(Input / Output Module)



For MULTI V IV, 5, *i*
PVDSMN000

Variable Water Flow Control Kit



For MULTI V WATER 5
PWFCKN000

Low Ambient Kit

For MULTI V IV, 5, *i*
PRVC2

Cool / Heat Selector

PRDSBM

AHU Kit

Communication Kit

Return / Room Air Control
PAHCMR000

Discharge / Supply Air Control
PAHCMS000

Controller Module

Main Module
PAHCMM000

Communication Module
PAHCMC000

Control Kit

PAHCNM000
(Max. 3 Outdoor Units)

Water Communication Module

PAHCMW000

EEV Kit (Electronic Expansion Valve)

PRLK048A0 (~ 28 kW)
PRLK096A0 (~ 56 kW)

PRLK396A0
(~ 112 kW)

PRLK594A0
(~ 168 kW)

OUTDOOR UNITS

MULTI V *i* 030
MULTI V S 072
MULTI V M 096
MULTI V WATER 5 106

MULTI V™ i

Highlights

Energy savings

Reliability

Low noise

Advanced performance

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

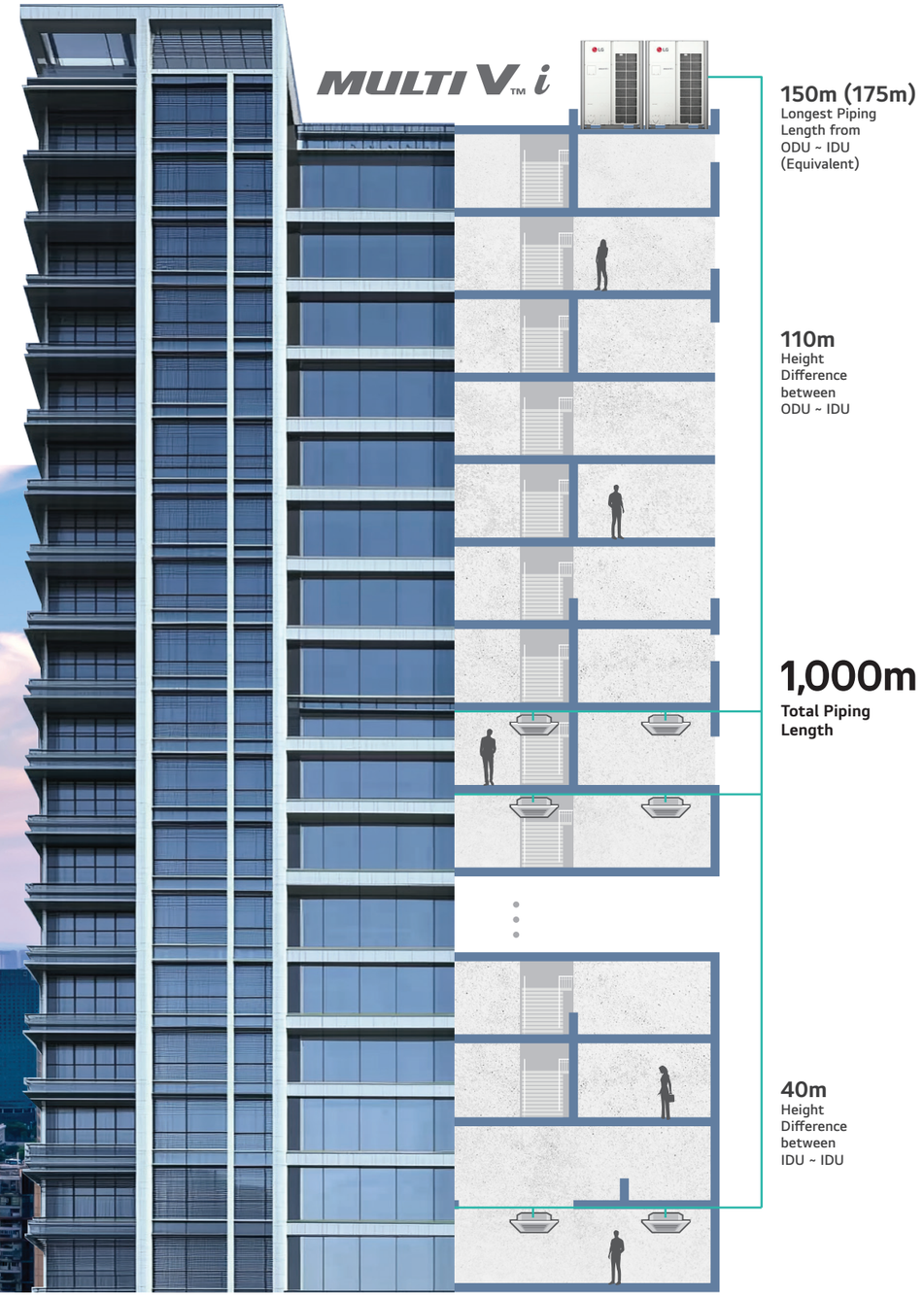
How does it work?

Dual Sensing

Partial Defrost

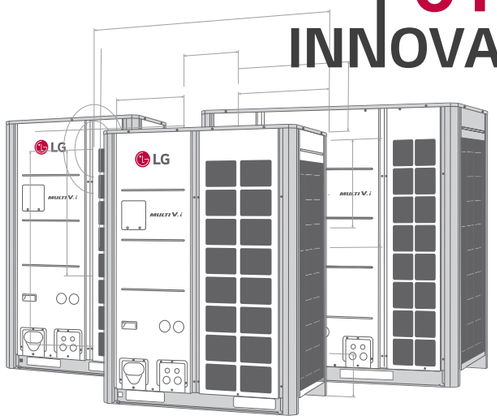


Interchangeable between heat pump and heat recovery





01 INNOVATIVE



Innovative Energy efficiency / Performance realization

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

02 INTELLIGENT

Recognizes various environments & optimizes itself through its AI Engine

AI EFFICIENCY UP
- AI Smart Care
- AI Energy Waste Alert
- AI Energy Management

AI COMFORT UP
- Noise Adaptive Control
- Noise Target Control
- Weather Information Interlocking Control

AI SMART UP
- AI Smart Diagnosis
- Large Capacity Black Box
- Auto Tuning System



03 INTERACTIVE

Upgrading & evolutionary system according to customer

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

Interlocking System

- **A/C** (Air Conditioner)
- **LG AHU**
- **Valve / Pump** AO (Analog Output)
- **Occupancy Sensor / Alarm / Key-Tag** DI (Digital Input)
- **Fan / Lighting / Switch** DO (Digital Output)
- **Temperature / Humidity / CO_2 Sensor** AI (Analog Input)



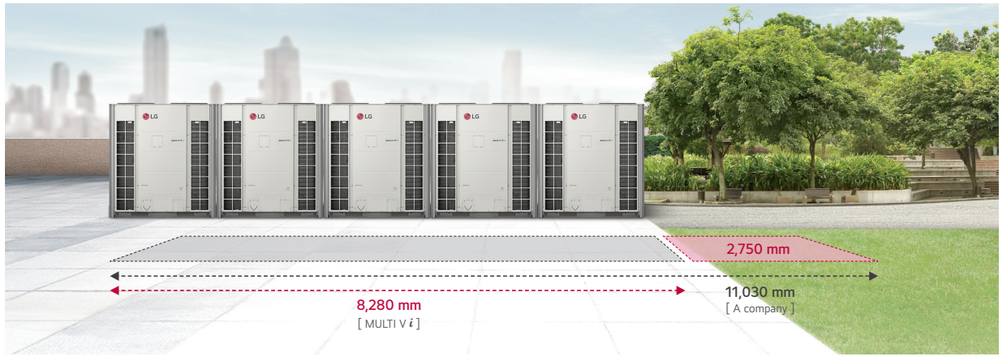
Maximum 26HP for a Single Outdoor Unit

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

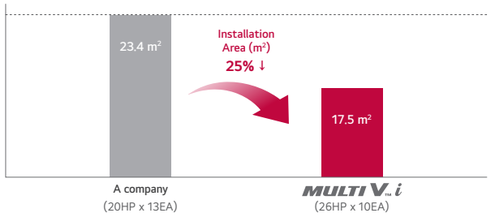


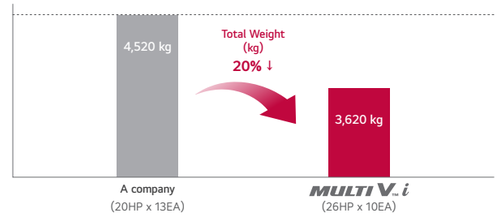
Compact Design with Larger Capacity

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



Install 260HP



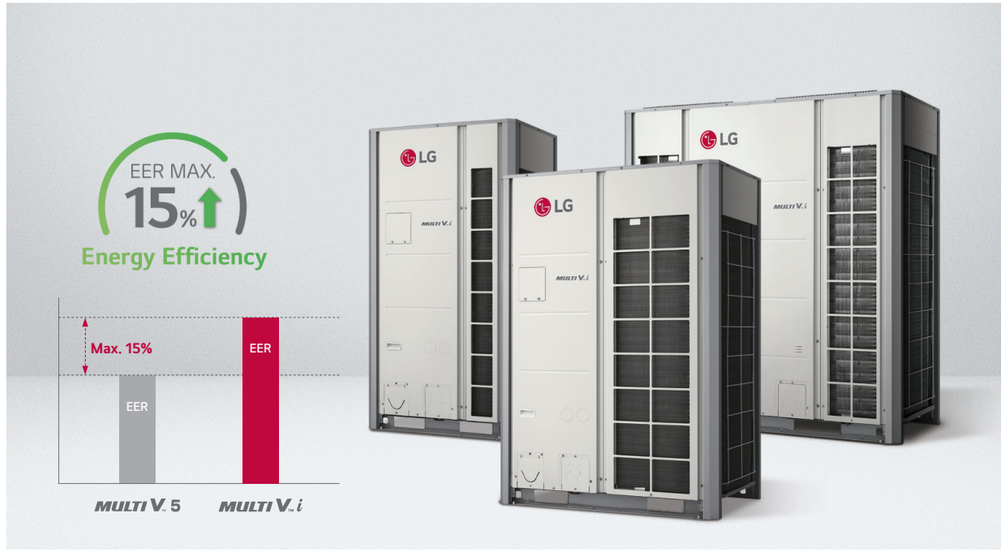


※ Previous model: ARUM261LTE5, New model: ARUM260LTE6
※ This scene is designed only for easier understanding, because 26HP unit cannot be applicable.

Powerful Performance

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

[Better than the Best]



※ For certain models in the line-up.

Powerful Cooling Performance

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





Powerful & Stable Cooling Performance

	MULTI V. i	MULTI V. 5
Cooling Operation Range	-15 ~ 52°C	-15 ~ 48°C
Performance at 43°C	Full	92%

※ Final specifications may change slightly.

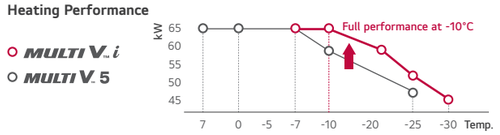
Powerful Heating Performance

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





Heating Performance



Stable & Powerful Heating

	MULTI V. i	MULTI V. 5
Heating Operation Range	-30 ~ 18℃	-25 ~ 16°C
Performance at -10°C	Full	92%

※ Final specifications may change slightly.

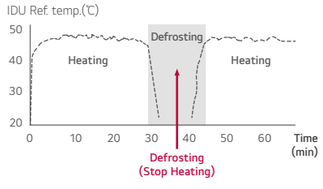
Improved design

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

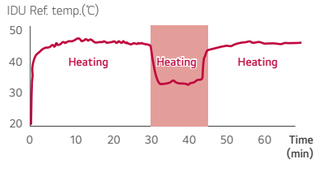
Continuous Heating

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

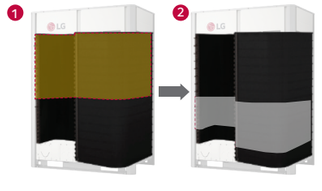
Competitors

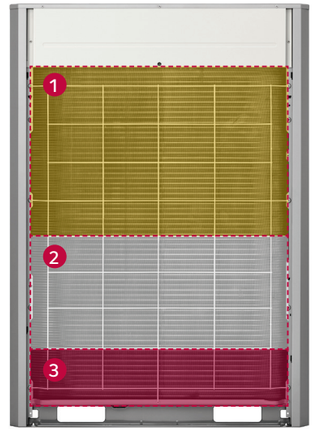


MULTI V. i



Continuous Heating





NEW Accumulated Freezing Prevention Design

Preventing the freezing of the lower part of the heat exchanger

Competitors



After defrost, ice is the deposited on the HEX

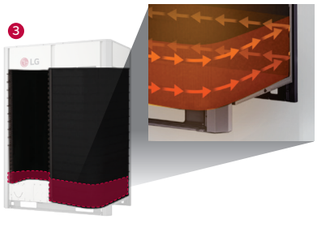
MULTI V. i



After defrost, less ice is the deposited on the HEX

Defrost Time Reduction

65% ↓



※ The defrost process is simplified for easier understanding.

※ HEX: Heat Exchanger

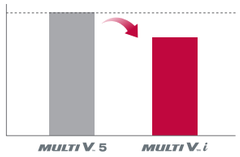
Newly Designed Compact Fan

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



※ Final specifications may change slightly.

Fan Noise Level
2.6dB Reduction

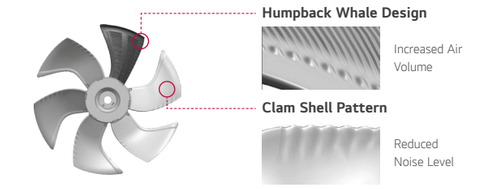


Fan Power Consumption
12% Reduction



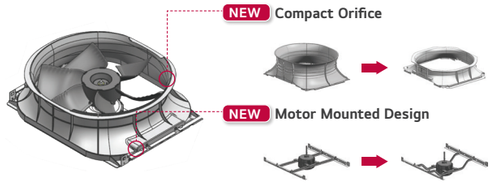
NEW Designed Biomimetic Fan

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



Compact Aero-Design

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



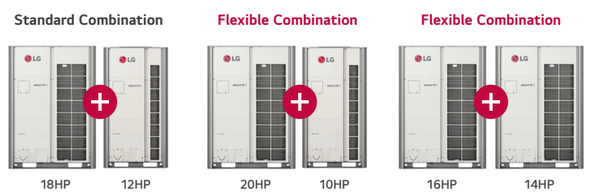
Flexible Outdoor Unit Combination

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

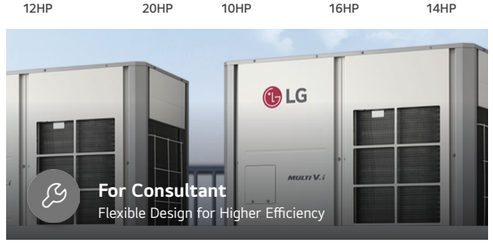
Applicable Free Combination



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



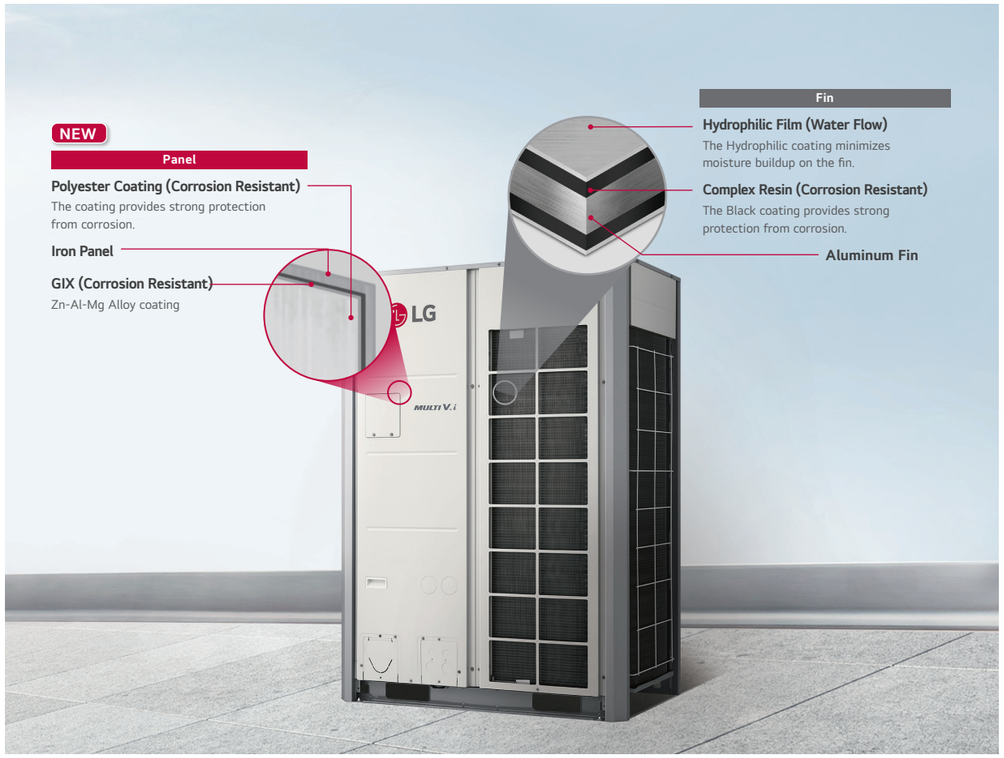




※ The UXC chassis models are not applicable to free combination.
※ The 26 HP model of UXC chassis cannot be combined with other models.
※ More information can be checked in the LATS tool.

Corrosion Resistant

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



Salt Spray Test (SST) × Process repeated

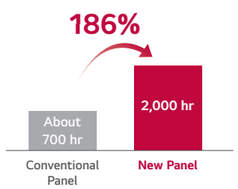
0.05% Area of defects compared to initial state.



Fog[1)]
(35°C, 24hr)



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



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

Salt Spray Test (SST) × Process repeated

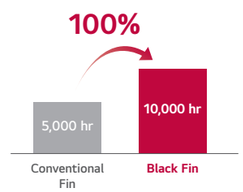
0.05% Area of defects compared to initial state.



Fog[1)]
(35°C, 24hr)



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

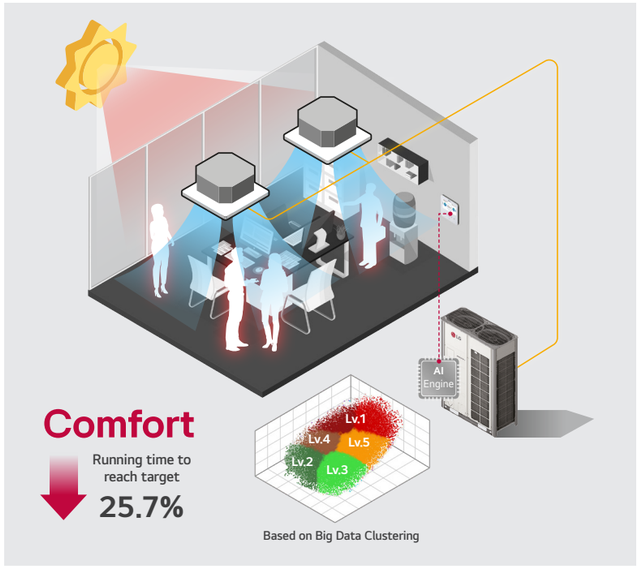


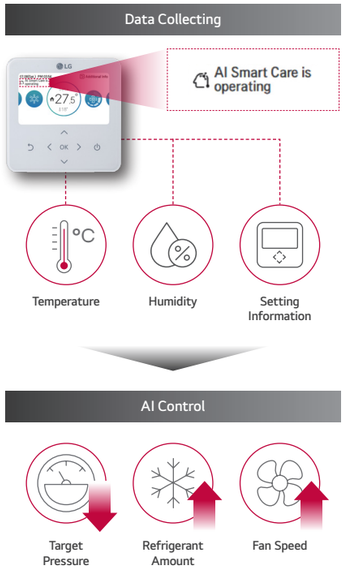
Test process is conducted according to ASTM B117.
1) Salty water concentration : NaCl aqueous solution (5%)

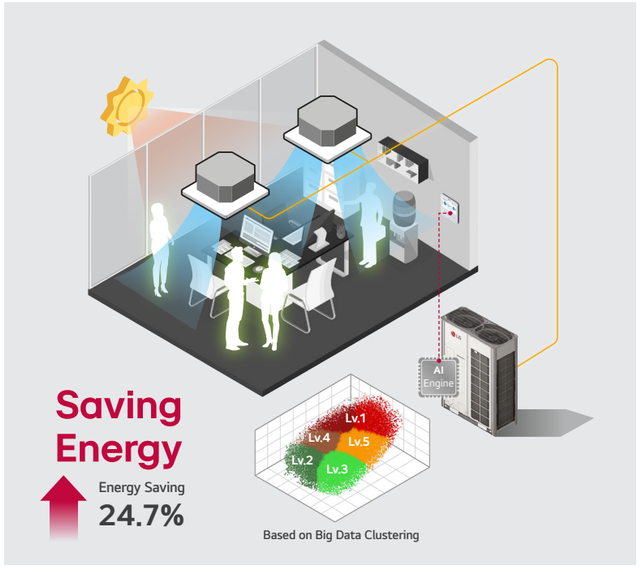
※ The product is not fully anticorrosive. To install near the sea, additional measures can be required.

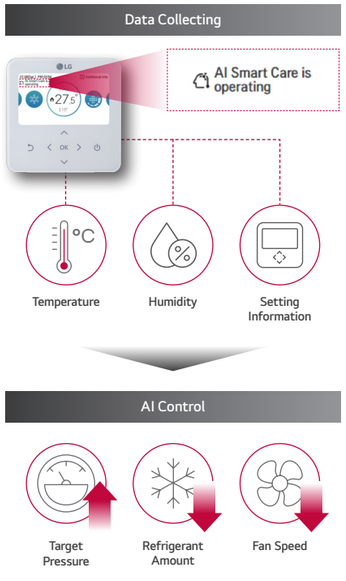
AI Smart Care

It autonomously implements solutions by adjusting the running time to reach target as well as taking into consideration the best efficiency point to operate in order to save energy.





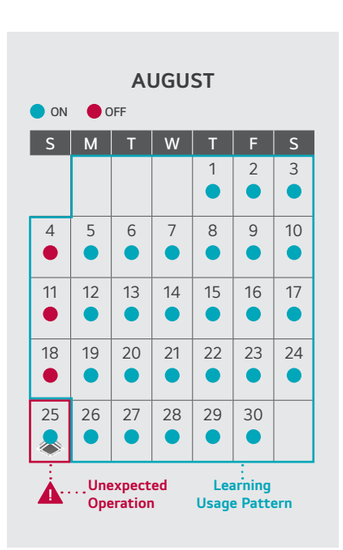


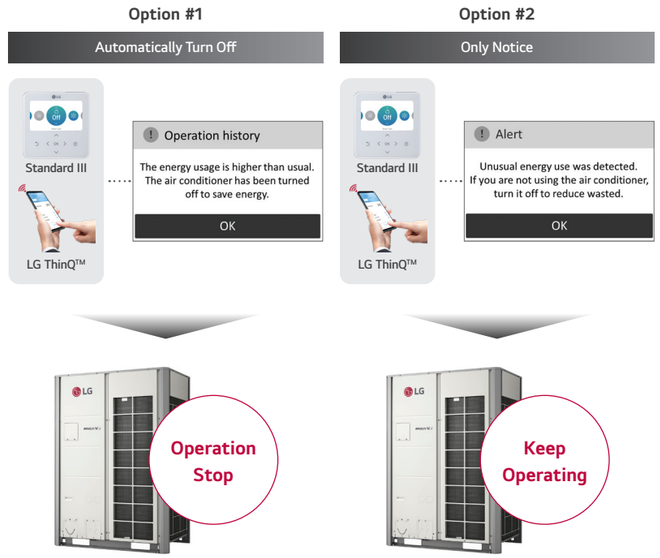


※ The feature above is to help customers understand, and detailed logic may vary depending on the actual environment.
※ This is the internal test that is followed KS Standard (Model : 24 HP of MULTI V / Test condition : KS B ISO 15042 : 2006)
※ The value of energy saving is the result of comparison AI Smart Care and normal operation.

AI Energy Waste Alert

MULTI V *i* learns usage patterns and prevents energy waste by judging abnormal operation when it is not normally operated.
It can be saved energy by displaying a notification or automatically stopping operation.

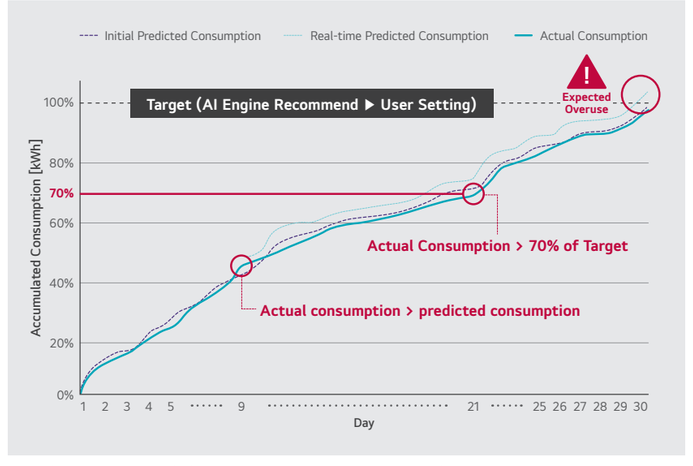


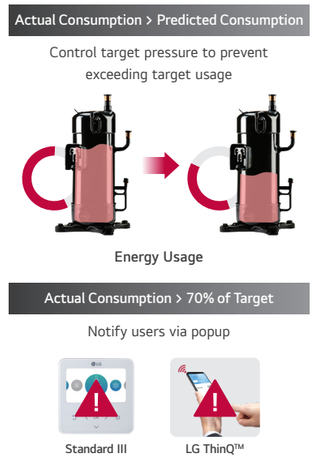


※ To use this function, at least 2 weeks of usage pattern learning period is required.
※ The waste alert will be displayed at least 2 hours after the indoor unit is turned on.

AI Energy Management

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



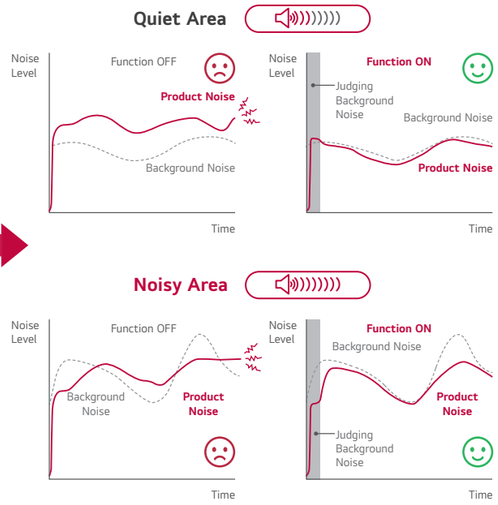


※ The above image is a graph for better understanding. Results may vary depending on the environment.
※ If more accurate status for energy consumption is needed, ACP and PDI have to be installed.
※ To alarm for exceeding 70% of target consumption, the user should activate the Alarm Popup Setting function on the Wired Remote Controller (Purchase Separately) in advance.
※ To use the above function, users should input the monthly target consumption on the wired remote controller (For the usage period of less than 1 year, the recommended target consumption is displayed, and for the usage periods of more than 1 year, the previous year's consumption is displayed.)

Noise Adaptive Control

MULTI V *i* calculates the appropriate noise by considering the background noise and the user's location and operates with the limited noise. And the product noise does not exceed the background noise, users will not be disturbed by the product noise.

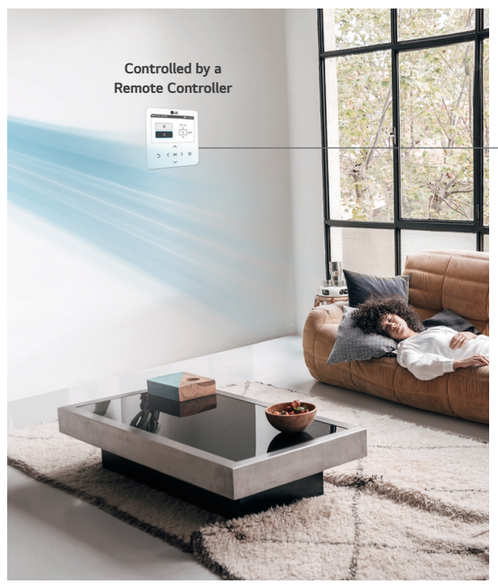




※ AI Engine calculates the target noise considering background noise and distance between the product and the user (Sound pressure).
※ To use the above function, the installer should input the installation distance between the product and the user.
※ After powering on the outdoor unit, the AI engine needs 10 minutes to measure and judge the background noise.
※ The operation may differ according to the environment, and noise reduction may impact the performance.

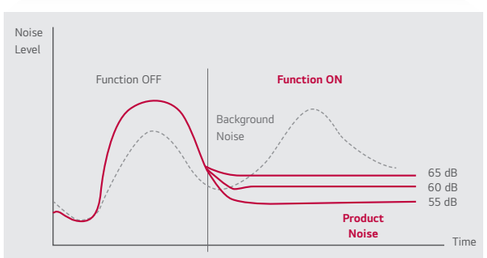
Noise Target Control

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



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

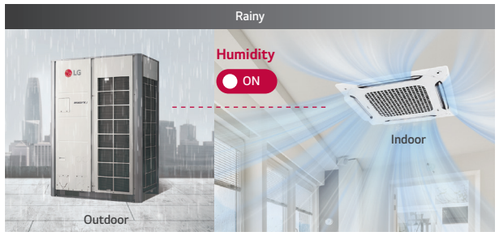




Weather Information Interlocking Control

This feature allows MULTI V *i* to provide environmentally optimized performance such as preheating, snow removal, air cleaning display and comfortable power saving mode display according to the weather information (live and forecast) received from AccuWeather.





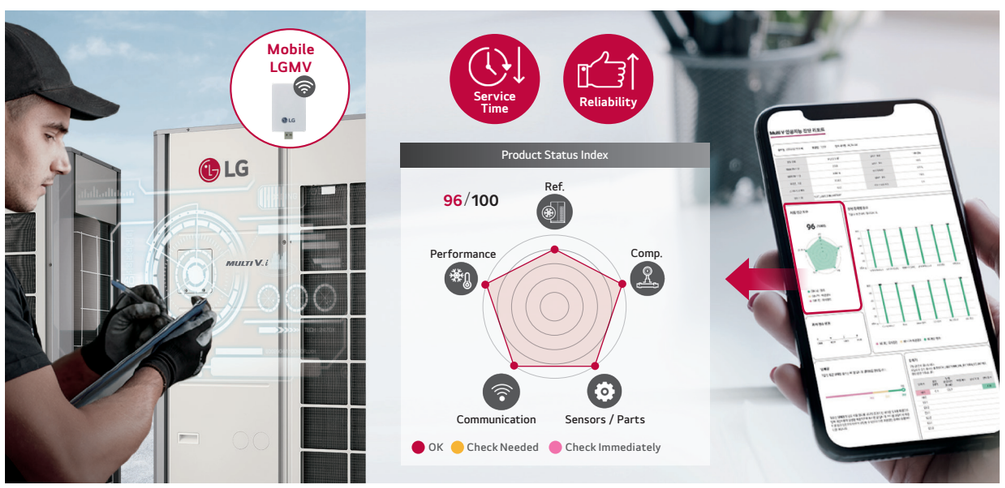






AI Smart Diagnosis

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



※ UI may be changed without notification.

Large Capacity Black Box

Quick Service can be done because the large-capacity black box in the AI engine stores up to Max 6 months of operation data and 100 failure-events information.



Easy to Get Maintenance Services

Ready → LGMV → Saving Data → Analysis

Step. 1

Main PCB ····· LGMV module

Step. 2

AI Engine ····· USB

Memory device



LGMV App.

Data storage for up to 6 months
Saving data for 1 hour before an error occurs

※ The data format is same as "DSM"

NEW

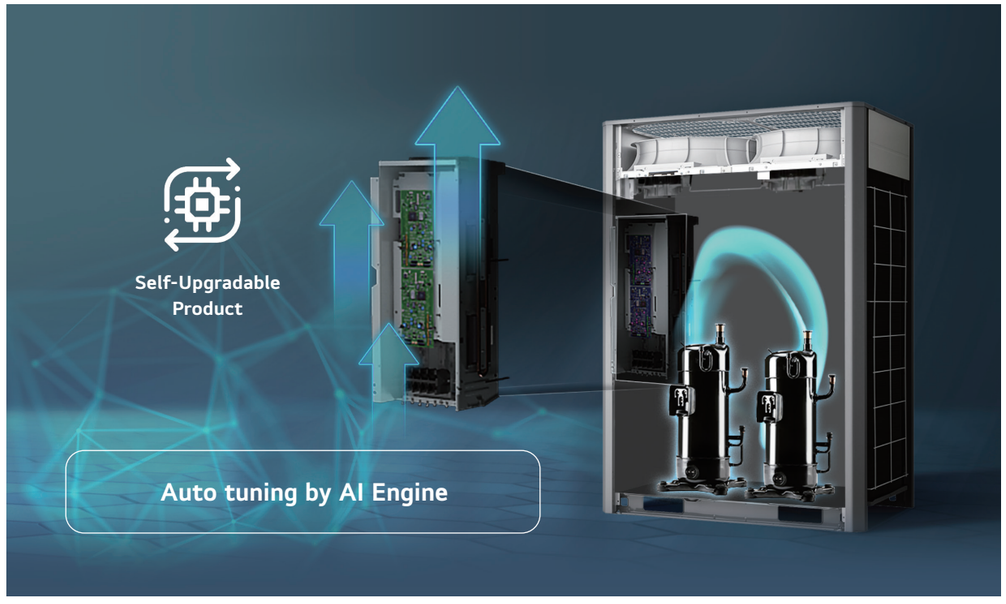
Data Saving Period

MULTI V 5 170 sec → MULTI V i Max. 6 months

※ This function is for installers, and LGMV is required.
※ Supporting Device : Windows PC, Android Phone / Tablet, iPhone / iPad
※ Black Box Save (Large Capacity): LGMV cycle data are saved with some period. (default: 1 Month, Max. 6 month by option)

Auto Tuning System

LG MULTI V *i* provides a new experience to customers with faster and easier installation and service.



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

LG's Control Solution

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

Hotel

Hotel Room Solution



Office

Central Control Solution





Apartment

Power Distribution Solution



Residential

Smart Individual Control Solution



Small Building

Small Central Control Solution



Smart GUI

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





Monitoring room
PC



Checking each room
Tablet



Working outside
Mobile

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

New Innovative Controller

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



Features

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

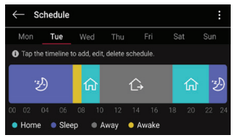
Function Code search Tool

Full Touch & Easy Access



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

Pre-set Schedule



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

Remote Control



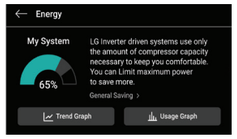
The built-in Wi-Fi module makes the connection to ThinQ cloud simple and easy. Seven day schedule is synchronized between ThinQ cloud and wired remote controller.

Air Quality Monitoring



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

Energy Navigation



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

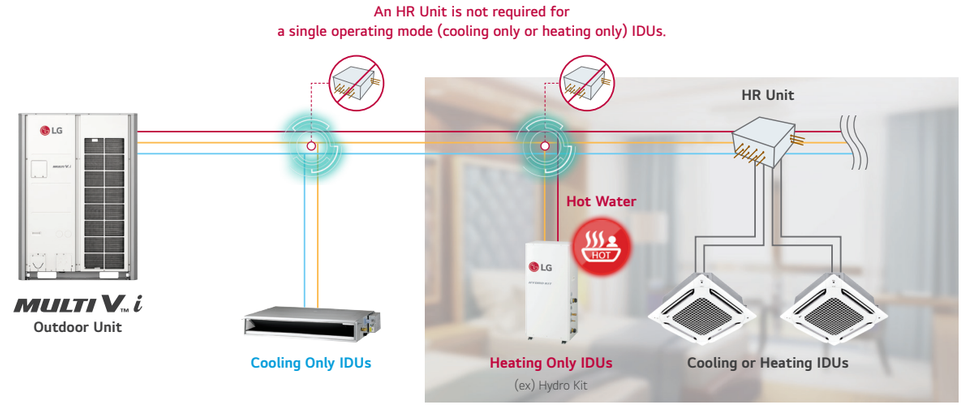
Easy Installation



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

Simpler Installation by Free HR Unit Function

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



Features

Applicable in sites where cooling, heating and hot water are simultaneously needed
(ex. hotel, hospital, etc.)
Save time and money with the Free HR Unit Function
(Cost reduction through fewer HR units, piping installations and reduecd labor)

※ This function will be available within 1H,`25 (This function application schedule may be changed without notification).

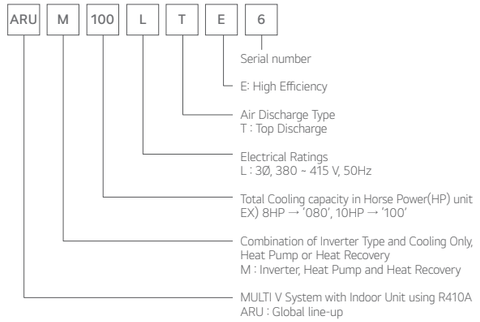
AI Engine Function Application

Category	Sub Category	Tool	Application Date[1] (Based on MP)	AI Engine Function							
				AI Smart Care	AI Indoor Space Care	AI Smart Metering	AI Energy Management	Noise Adaptive Control	AI Energy Waste Alert	AI Smart Diagnosis	Large Capacity Black Box
Cassette	DUAL Vane 4 Way	TM-A / TP-B	available	●	●	●	●	●	●	●	●
	1 Way	TU / TT	available	●	●	●	●	●	●	●	●
	2 Way	TS	available	●	●	●	●	●	●	●	●
	Round	TY	available	●	●	●	●	●	●	●	●
	Mini 4 Way	TQ / TR	available	●	●	●	●	●	●	●	●
Duct	Low Static	L4 / L5 / L6	available	●	X	●	●	●	●	●	●
	High Static	B8	available	●	X	●	●	●	●	●	●
	Mid Static	M1 / M2 / M3	available	●	X	●	●	●	●	●	●
Floor Standing		CE / CF	available	●	●	●	●	●	●	●	●
Convertible*	Ceiling Suspended	VM1 / VM2	Feb.`25	●	●	●	●	●	●	●	●
Console*		QA	Feb.`25	●	●	●	●	●	●	●	●
Floor Standing (PAC)*		PT3 / PF2	Feb.`25	●	●	●	●	●	●	●	●
Wall Mounted*	Artcool, Standard	SJ / SK / SR	available	●	X	●	X	●	●	●	●

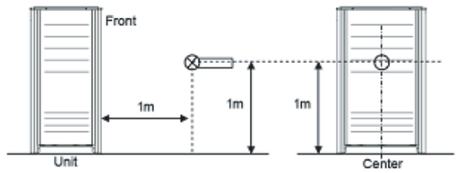
※ Indoor units produced from 2020.
- AI Functions available via indoor units' Main PCB Onboarding.
- AI Functions available of marked models(*) by replacing indoor units' Main PCB.

1) Application Date is subject to change.

Nomenclature



Position of Sound Pressure Level Measuring



- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Reference accoustic pressure 0dB = 20μPa.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions (Power source and Ambient temperature, etc).
- Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model).
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.

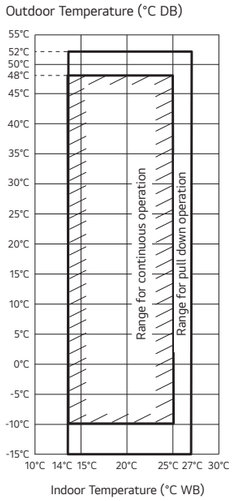
Outdoor Units Function

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

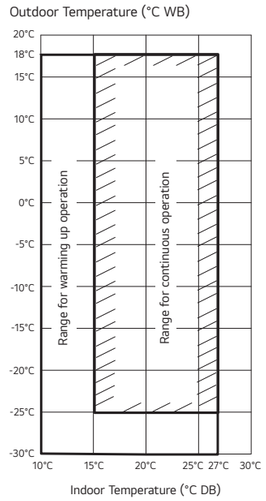
O : Applied, X : Not applied
- Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
- Accessory line-ups varies by region, so check your local catalogue or local sales material

Cooling / Heating Operation

Cooling



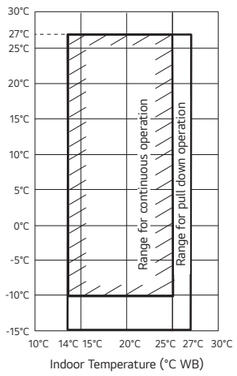
Heating



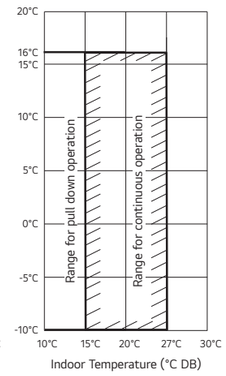
Note
1. These figures assume the following operating conditions
   : Equivalent piping length is standard condition, and level differenc is 0m.
2. Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
3. Warming up operation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

Simultaneous Cooling / Heating Operation

Cooling



Heating



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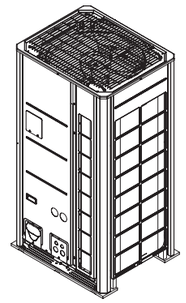
3. Warming up operation means that the outdoor (outside) unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

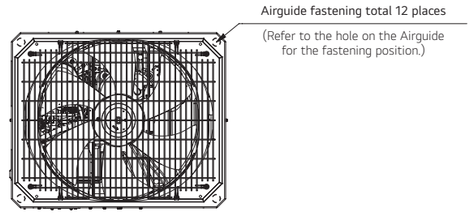
ARUM080LTE6 / ARUM100LTE6 ARUM120LTE6

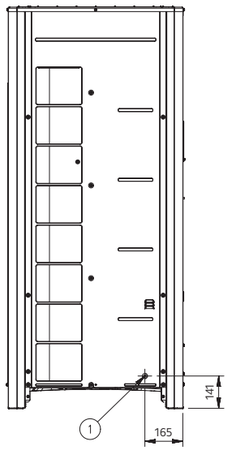
[Unit : mm]

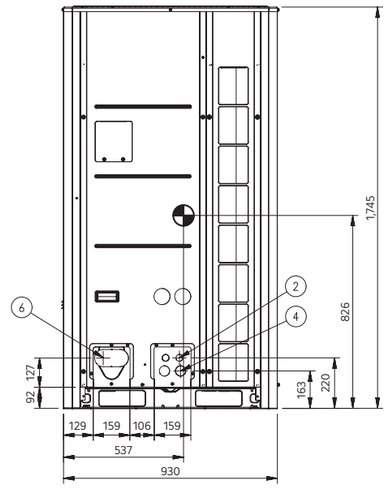
No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Front)	2-Ø30
3	Wire routing hole (Bottom)	2-Ø22.2
4	Power cord routing hole (Front)	2-Ø45
5	Power cord routing hole (Bottom)	2-Ø50
6	Pipe routing hole (Front)	-
7	Pipe routing hole (Bottom)	-

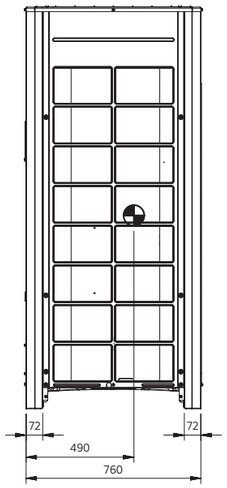


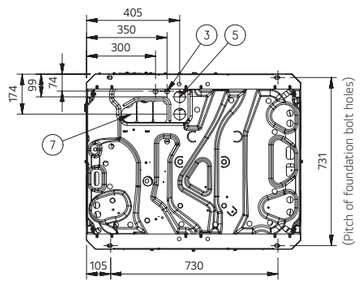
3D View







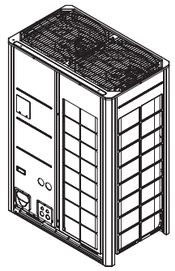




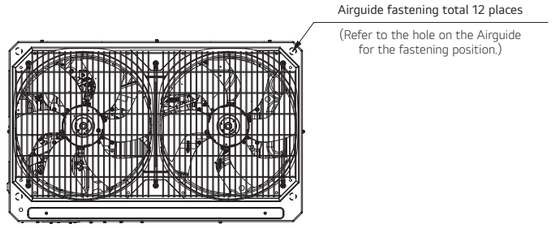
ARUM140LTE6 / ARUM160LTE6
ARUM180LTE6 / ARUM200LTE6

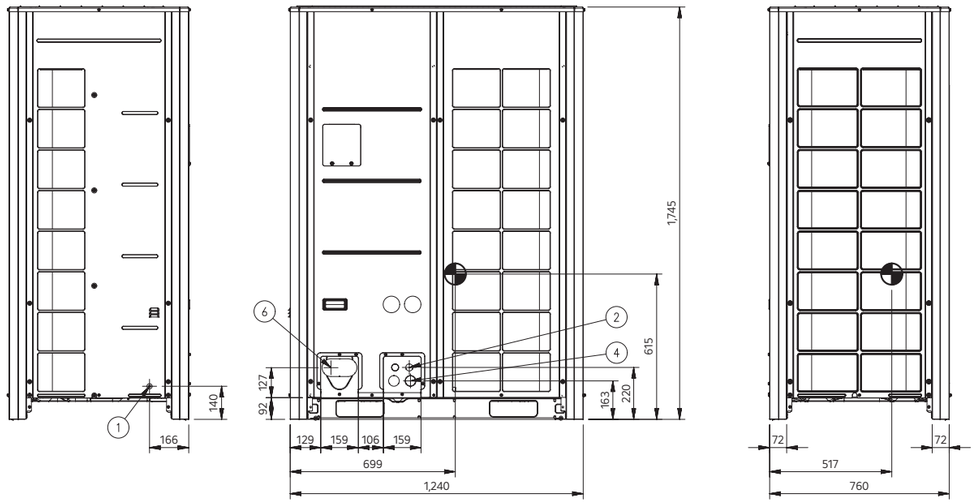
[Unit : mm]

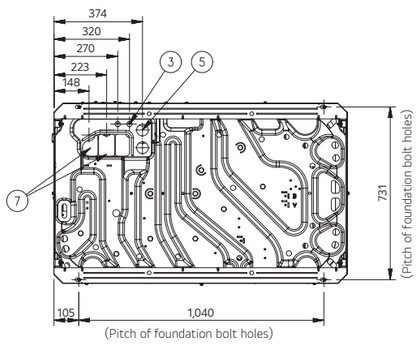
No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Front)	2-Ø30
3	Wire routing hole (Bottom)	2-Ø22.2
4	Power cord routing hole (Front)	2-Ø45
5	Power cord routing hole (Bottom)	2-Ø50
6	Pipe routing hole (Front)	-
7	Pipe routing hole (Bottom)	-



3D View



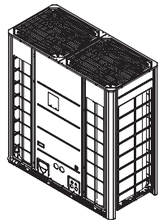




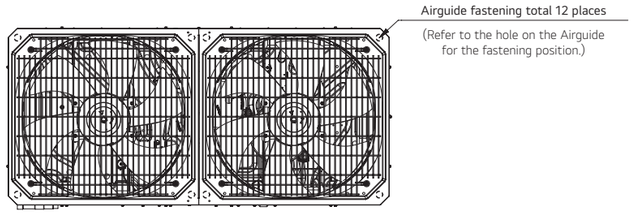
ARUM220LTE6 / ARUM240LTE6
ARUM260LTE6

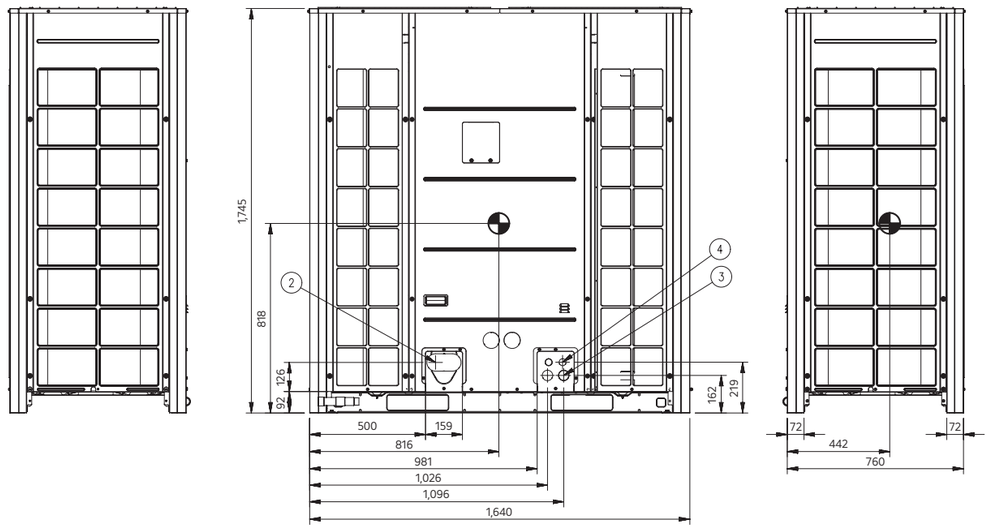
[Unit : mm]

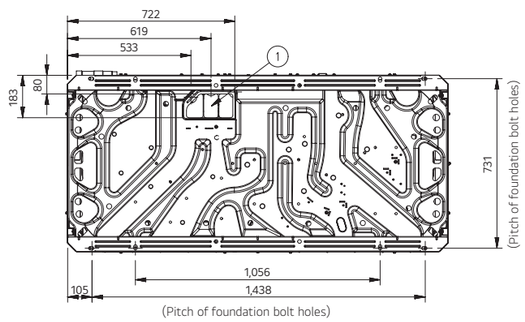
No.	Part Name	Description
1	Pipe routing hole (Bottom)	-
2	Pipe routing hole (Front)	-
3	Power cord routing hole (Front)	2-Ø30
4	Wire routing hole (Front)	2-Ø45



3D View







ARUM080LTE6 / ARUM100LTE6
ARUM120LTE6 / ARUM140LTE6



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

HP			8	10	12	14
Classification	Chassis	-	UXA	UXA	UXA	UXB
	Combination Unit	-	ARUM080LTE6	ARUM100LTE6	ARUM120LTE6	ARUM140LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	22.4	28.0	33.6	39.2
Heating Capacity	Rated	kW	22.4	28.0	33.6	39.2
	Max	kW	25.2	31.5	37.8	44.1
Power Input (Cooling)	Rated	kW	6.10	8.33	11.67	11.88
Power Input (Heating)	Rated	kW	5.16	6.22	7.76	8.43
Efficiency	EER (Rated)	W/W	3.67	3.36	2.88	3.30
	COP (Rated)	W/W	4.34	4.50	4.33	4.65
	SEER	Wh/Wh	8.28	8.11	7.94	8.55
	SCOP	Wh/Wh	4.45	4.52	4.99	5.17
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	220 x 1	220 x 1	220 x 1	320 x 1
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct	Direct
	Output	W x No.	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1	62.1	62.1
	Number of Revolution	rev./min	3,600	3,600	3,600	3,600
	Motor Output	W x No.	5,300 × 1	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	930 x 1,745 x 760	930 x 1,745 x 760	930 x 1,745 x 760	1,240 x 1,745 x 760
	Shipping (W x H x D)	mm	965 x 1,919 x 802	965 x 1,919 x 802	965 x 1,919 x 802	1,282 x 1,919 x 802
Weight	Net	kg	215	215	215	255
	Shipping	kg	225	225	225	265
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Precharged Amount	kg	8.5	9.5	9.5	13.0
	t-CO_2 eq.	-	17.744	19.831	19.831	27.138
	Control Type	-	EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.70 (1/2)	Ø12.70 (1/2)
	Gas	mm (inch)	Ø19.05 (3/4)	Ø22.20 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø22.20 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.20 (7/8)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	57.0	57.5	59.0	60.0
	Heating	dB (A)	58.0	58.5	60.0	61.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	78.0	79.0	80.0	81.0
	Heating	dB (A)	78.0	79.0	82.0	81.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × 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
Connectable Indoor Units Number	Max. (Conditional)	EA	13 (20)	16 (25)	20 (30)	23 (35)

*: Sound Pressure is not a value declared on Eurovent Program.
1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM160LTE6 / ARUM180LTE6
ARUM200LTE6 / ARUM220LTE6



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HP			16	18	20	22
Classification	Chassis	-	UXB	UXB	UXB	UXC
	Combination Unit	-	ARUM160LTE6	ARUM180LTE6	ARUM200LTE6	ARUM220LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	44.8	50.4	56.0	61.6
Heating Capacity	Rated	kW	44.8	50.4	56.0	61.6
	Max	kW	50.4	56.7	63.0	69.3
Power Input (Cooling)	Rated	kW	15.45	14.40	17.55	22.00
Power Input (Heating)	Rated	kW	10.09	10.59	12.64	15.96
Efficiency	EER (Rated)	W/W	2.90	3.50	3.19	2.80
	COP (Rated)	W/W	4.44	4.76	4.43	3.86
	SEER	Wh/Wh	7.97	8.65	8.42	7.20
	SCOP	Wh/Wh	5.46	4.81	5.13	4.62
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	320 x 1	320 x 1	320 x 1	430 x 1
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct	Direct
	Output	W x No.	900 x 2	900 x 2	900 x 2	1,500 x 2
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1 x 2	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 1	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,640 x 1,745 x 760
	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,675 x 1,919 x 802
Weight	Net	kg	255	300	300	362
	Shipping	kg	265	310	310	372
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Precharged Amount	kg	13.0	16.0	16.0	16.0
	t-CO_2 eq.	-	27.138	33.400	33.400	33.400
	Control Type	-	EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.70 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø28.58 (1-1/8)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	60.5	61.0	62.0	64.0
	Heating	dB (A)	61.5	62.0	63.5	66.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	85.0	85.0	86.0	84.0
	Heating	dB (A)	85.0	86.0	89.0	88.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × 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
Connectable Indoor Units Number	Max. (Conditional)	EA	26 (40)	29 (45)	32 (50)	35 (56)

*: Sound Pressure is not a value declared on Eurovent Program.
1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2) Applying to 16, 18, 20HP outdoor units only.

ARUM240LTE6 / ARUM260LTE6
ARUM280LTE6 / ARUM300LTE6




HP			24	26	28	30
Classification	Chassis	-	UXC	UXC	UXB + UXA	UXB + UXA
	Combination Unit	-	ARUM240LTE6	ARUM260LTE6	ARUM160LTE6 ARUM120LTE6	ARUM180LTE6 ARUM120LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	67.2	72.8	78.4	84.0
Heating Capacity	Rated	kW	67.2	72.8	78.4	84.0
	Max	kW	75.6	81.9	88.2	94.5
Power Input (Cooling)	Rated	kW	26.15	31.52	27.10	26.04
Power Input (Heating)	Rated	kW	18.61	21.60	17.86	18.36
Efficiency	EER (Rated)	W/W	2.57	2.31	2.89	3.23
	COP (Rated)	W/W	3.61	3.37	4.39	4.58
	SEER	Wh/Wh	6.91	6.62	7.96	8.30
	SCOP	Wh/Wh	4.31	4.11	5.22	4.90
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	430 x 1	430 x 1	(320 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct	Direct
	Output	W x No.	1,500 x 2	1,500 x 2	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 2	62.1 x 2	62.1 x 2	62.1 x 3
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2	3,600 x 2	3,600 x 3
	Motor Output	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 3
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	1,640 x 1,745 x 760	1,640 x 1,745 x 760	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	1,675 x 1,919 x 787	1,675 x 1,919 x 787	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)
Weight	Net	kg	362	362	(255 x 1) + (215 x 1)	(300 x 1) + (215 x 1)
	Shipping	kg	372	372	(265 x 1) + (225 x 1)	(310 x 1) + (225 x 1)
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Precharged Amount	kg	16.0	16.0	22.5	25.5
	t-CO_2 eq.	-	33.400	33.400	46.969	53.231
	Control Type	-	EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	65.0	65.0	62.8	63.1
	Heating	dB (A)	66.0	66.5	63.8	64.1
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	85.0	89.0	86.2	86.2
	Heating	dB (A)	88.0	89.0	86.8	87.5
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × 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
Connectable Indoor Units Number	Max. (Conditional)	EA	39 (61)	42 (64)	45 (56)	49 (60)

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

ARUM320LTE6 / ARUM340LTE6
ARUM360LTE6 / ARUM380LTE6




HP			32	34	36	38
Classification	Chassis	-	UXB + UXA	UXB + UXB	UXB + UXB	UXB + UXB
	Combination Unit	-	ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM140LTE6	ARUM200LTE6 ARUM160LTE6	ARUM200LTE6 ARUM180LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	89.6	95.2	100.8	106.4
Heating Capacity	Rated	kW	89.6	95.2	100.8	106.4
	Max	kW	100.8	107.1	113.4	119.7
Power Input (Cooling)	Rated	kW	29.19	29.42	32.99	31.93
Power Input (Heating)	Rated	kW	20.41	21.07	22.73	23.23
Efficiency	EER (Rated)	W/W	3.07	3.24	3.06	3.33
	COP (Rated)	W/W	4.39	4.52	4.43	4.58
	SEER	Wh/Wh	8.18	8.48	8.19	8.53
	SCOP	Wh/Wh	5.06	5.15	5.29	4.97
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (220 x 1)	(320 x 1) + (320 x 1)	(320 x 1) + (320 x 1)	(320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2)	(900 x 2) + (900 x 2)	(900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 3	62.1 x 3	62.1 x 3	62.1 x 4
	Number of Revolution	rev./min	3,600 x 3	3,600 x 3	3,600 x 3	3,600 x 4
	Motor Output	W x No.	5,300 x 3	5,300 x 3	5,300 x 3	5,300 x 4
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,240 x 1,745 x 760) x 1) + ((930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 2
	Shipping (W x H x D)	mm	((1,282 x 1,919 x 802) x 1) + ((965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 2
Weight	Net	kg	(300 × 1) + (215 × 1)	(300 x 1) + (255 x 1)	(300 x 1) + (255 x 1)	(300 x 1) + (300 x 1)
	Shipping	kg	(310 x 1) + (225 x 1)	(310 x 1) + (265 x 1)	(310 x 1) + (265 x 1)	(310 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Precharged Amount	kg	25.5	29.0	29.0	32.0
	t-CO_2 eq.	-	53.231	60.538	60.538	66.800
	Control Type	-	EEV	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	63.8	64.1	64.3	64.5
	Heating	dB (A)	65.1	65.4	65.6	65.8
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	87.0	87.2	88.5	88.5
	Heating	dB (A)	89.8	89.6	90.5	90.8
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × 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
Connectable Indoor Units Number	Max. (Conditional)	EA	52 (64)	55 (64)	58 (64)	61 (64)

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

ARUM400LTE6 / ARUM420LTE6
ARUM440LTE6




HP			40	42	44
Classification	Chassis	-	UXB + UXB	UXC + UXB	UXC + UXB
	Combination Unit	-	ARUM200LTE6 ARUM200LTE6	ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM200LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	112.0	117.6	123.2
Heating Capacity	Rated	kW	112.0	117.6	123.2
	Max	kW	126.0	132.3	138.6
Power Input (Cooling)	Rated	kW	35.08	39.54	43.69
Power Input (Heating)	Rated	kW	25.28	28.60	31.25
Efficiency	EER (Rated)	W/W	3.19	2.97	2.82
	COP (Rated)	W/W	4.43	4.11	3.94
	SEER	Wh/Wh	8.42	7.81	7.66
	SCOP	Wh/Wh	5.13	4.87	4.72
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (320 x 1)	(430 x 1) + (320 × 1)	(430 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (900 x 2)	(1,500 x 2) + (900 x 2)	(1,500 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 4	62.1 x 4	62.1 x 4
	Number of Revolution	rev./min	3,600 x 4	3,600 x 4	3,600 x 4
	Motor Output	W x No.	5,300 x 4	5,300 x 4	5,300 x 4
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 2	((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 1)	((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 2	((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 1)	((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 1)
Weight	Net	kg	(300 x 1) + (300 x 1)	(362 x 1) + (300 x 1)	(362 x 1) + (300 x 1)
	Shipping	kg	(310 x 1) + (310 x 1)	(372 x 1) + (310 x 1)	(372 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	32.0	32.0	32.0
	t-CO_2 eq.	-	66.800	66.800	66.800
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	65.0	66.1	66.8
	Heating	dB (A)	66.5	67.9	67.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	89.0	88.1	88.5
	Heating	dB (A)	92.0	91.5	91.5
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM460LTE6 / ARUM480LTE6
ARUM500LTE6




HP			46	48	50
Classification	Chassis	-	UXC + UXC	UXC + UXC	UXB + UXB + UXA
	Combination Unit	-	ARUM240LTE6 ARUM220LTE6	ARUM240LTE6 ARUM240LTE6	ARUM200LTE6 ARUM180LTE6 ARUM120LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	128.8	134.4	140.0
Heating Capacity	Rated	kW	128.8	134.4	140.0
	Max	kW	144.9	151.2	157.5
Power Input (Cooling)	Rated	kW	48.15	52.30	43.58
Power Input (Heating)	Rated	kW	34.57	37.22	31.00
Efficiency	EER (Rated)	W/W	2.67	2.57	3.21
	COP (Rated)	W/W	3.73	3.61	4.52
	SEER	Wh/Wh	7.06	6.91	8.34
	SCOP	Wh/Wh	4.47	4.31	4.97
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (430 x 1)	(430 x 1) + (430 x 1)	(320 x 1) + (320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(1,500 x 2) + (1,500 x 2)	(1,500 x 2) + (1,500 x 2)	(900 x 2) + (900 x 2) + (1,200 x 1)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 4	62.1 x 4	62.1 x 5
	Number of Revolution	rev./min	3,600 x 4	3,600 x 4	3,600 x 5
	Motor Output	W x No.	5,300 x 4	5,300 x 4	5,300 x 5
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,640 x 1,745 x 760) x 2	(1,640 x 1,745 x 760) x 2	((1,240 x 1,745 x 760) x 2) + ((930 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	(1,675 x 1,919 x 802) x 2	(1,675 x 1,919 x 802) x 2	((1,282 x 1,919 x 802) x 2) + ((965 x 1,919 x 802) x 1)
Weight	Net	kg	(362 x 1) + (362 x 1)	(362 x 1) + (362 x 1)	(300 x 1) + (300 x 1) + (215 x 1)
	Shipping	kg	(372 x 1) + (372 x 1)	(372 x 1) + (372 x 1)	(310 x 1) + (310 x 1) + (225 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	32.0	32.0	41.5
	t-CO_2 eq.	-	66.800	66.800	86.631
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	67.5	68.0	65.6
	Heating	dB (A)	69.0	69.0	66.8
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	87.5	88.0	89.1
	Heating	dB (A)	91.0	91.0	91.3
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM520LTE6 / ARUM540LTE6
ARUM560LTE6





HP			52	54	56
Classification	Chassis	-	UXB + UXB + UXA	UXB + UXB + UXB	UXB + UXB + UXB
	Combination Unit	-	ARUM200LTE6 ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM140LTE6	ARUM200LTE6 ARUM200LTE6 ARUM160LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	145.6	151.2	156.8
Heating Capacity	Rated	kW	145.6	151.2	156.8
	Max	kW	163.8	170.1	176.4
Power Input (Cooling)	Rated	kW	46.73	46.96	50.53
Power Input (Heating)	Rated	kW	33.05	33.71	35.37
Efficiency	EER (Rated)	W/W	3.12	3.22	3.10
	COP (Rated)	W/W	4.41	4.49	4.43
	SEER	Wh/Wh	8.26	8.46	8.27
	SCOP	Wh/Wh	5.08	5.14	5.24
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (320 x 1) + (220 x 1)	(320 x 1) + (320 x 1) + (320 x 1)	(320 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2) + (900 x 2)	(900 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 5	62.1 x 5	62.1 x 5
	Number of Revolution	rev./min	3,600 x 5	3,600 x 5	3,600 x 5
	Motor Output	W x No.	5,300 x 5	5,300 x 5	5,300 x 5
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,240 x 1,745 x 760) x 2) + ((930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 3	(1,240 x 1,745 x 760) x 3
	Shipping (W x H x D)	mm	((1,282 x 1,919 x 802) x 2) + ((965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 3	(1,282 x 1,919 x 802) x 3
Weight	Net	kg	(300 x 1) + (300 x 1) + (215 x 1)	(300 x 1) + (300 x 1) + (255 x 1)	(300 x 1) + (300 x 1) + (255 x 1)
	Shipping	kg	(310 x 1) + (310 x 1) + (225 x 1)	(310 x 1) + (310 x 1) + (265 x 1)	(310 x 1) + (310 x 1) + (265 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	41.5	45.0	45.0
	t-CO_2 eq.	-	86.631	93.938	93.938
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	66.0	66.2	66.3
	Heating	dB (A)	67.4	67.6	67.7
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	89.5	89.6	90.5
	Heating	dB (A)	92.4	92.3	92.8
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM580LTE6 / ARUM600LTE6
ARUM620LTE6





HP			58	60	62
Classification	Chassis	-	UXB + UXB + UXB	UXB + UXB + UXB	UXC + UXB + UXB
	Combination Unit	-	ARUM200LTE6 ARUM200LTE6 ARUM180LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6	ARUM220LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	162.4	168.0	173.6
Heating Capacity	Rated	kW	162.4	168.0	173.6
	Max	kW	182.7	189.0	195.3
Power Input (Cooling)	Rated	kW	49.47	52.62	57.08
Power Input (Heating)	Rated	kW	35.87	37.92	41.24
Efficiency	EER (Rated)	W/W	3.28	3.19	3.04
	COP (Rated)	W/W	4.53	4.43	4.21
	SEER	Wh/Wh	8.49	8.42	8.01
	SCOP	Wh/Wh	5.02	5.13	4.96
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (320 x 1) + (320 x 1)	(320 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (900 x 2) + (900 x 2)	(900 x 2) + (900 x 2) + (900 x 2)	(1,500 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 6	62.1 x 6	62.1 x 6
	Number of Revolution	rev./min	3,600 x 6	3,600 x 6	3,600 x 6
	Motor Output	W x No.	5,300 x 6	5,300 x 6	5,300 x 6
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 3	(1,240 x 1,745 x 760) x 3	((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 2)
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 3	(1,282 x 1,919 x 802) x 3	((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 2)
Weight	Net	kg	(300 x 1) + (300 x 1) + (300 x 1)	(300 x 1) + (300 x 1) + (300 x 1)	(362 x 1) + (300 x 1) + (300 x 1)
	Shipping	kg	(310 x 1) + (310 x 1) + (310 x 1)	(310 x 1) + (310 x 1) + (310 x 1)	(372 x 1) + (310 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	48.0	48.0	48.0
	t-CO_2 eq.	-	100.200	100.200	100.200
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)	Ø34.90 (1-3/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	66.5	66.8	67.5
	Heating	dB (A)	67.8	68.3	69.3
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.5	90.8	90.2
	Heating	dB (A)	93.0	93.8	93.5
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM640LTE6 / ARUM660LTE6
ARUM680LTE6





HP			64	66	68
Classification	Chassis	-	UXC + UXB	UXC + UXC + UXB	UXC + UXC + UXB
	Combination Unit	-	ARUM240LTE6 ARUM200LTE6 ARUM200LTE6	ARUM240LTE6 ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	179.2	184.8	190.4
Heating Capacity	Rated	kW	179.2	184.8	190.4
	Max	kW	201.6	207.9	214.2
Power Input (Cooling)	Rated	kW	61.23	65.69	69.84
Power Input (Heating)	Rated	kW	43.89	47.21	49.86
Efficiency	EER (Rated)	W/W	2.93	2.81	2.73
	COP (Rated)	W/W	4.08	3.91	3.82
	SEER	Wh/Wh	7.91	7.51	7.41
	SCOP	Wh/Wh	4.86	4.69	4.58
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(1,500 x 2) + (900 × 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 6	62.1 x 6	62.1 x 6
	Number of Revolution	rev./min	3,600 x 6	3,600 x 6	3,600 x 6
	Motor Output	W x No.	5,300 x 6	5,300 x 6	5,300 x 6
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 1) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 1)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 1) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 1)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 1)
Weight	Net	kg	(362 x 1) + (300 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1)
	Shipping	kg	(372 x 1) + (310 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	48.0	48.0	48.0
	t-CO_2 eq.	-	100.200	100.200	100.200
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø41.30 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø34.90 (1-3/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	68.0	68.6	69.0
	Heating	dB (A)	69.3	70.1	70.1
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.5	89.8	90.1
	Heating	dB (A)	93.5	93.1	93.1
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM700LTE6 / ARUM720LTE6
ARUM740LTE6





HP			70	72	74
Classification	Chassis	-	UXB + UXB + UXB + UXA	UXB + UXB + UXB + UXA	UXB + UXB + UXB + UXB
	Combination Unit	-	ARUM200LTE6 ARUM200LTE6 ARUM180LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM120LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM140LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	196.0	201.6	207.2
Heating Capacity	Rated	kW	196.0	201.6	207.2
	Max	kW	220.5	226.8	233.1
Power Input (Cooling)	Rated	kW	61.12	64.27	64.50
Power Input (Heating)	Rated	kW	43.64	45.69	46.35
Efficiency	EER (Rated)	W/W	3.21	3.14	3.21
	COP (Rated)	W/W	4.49	4.41	4.47
	SEER	Wh/Wh	8.36	8.30	8.45
	SCOP	Wh/Wh	5.01	5.09	5.14
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (320 x 1) + (320 x 1) + (220 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (220 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (900 x 2) + (900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2) + (900 x 2) + (1,200 x 1)	(900 x 2) + (900 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 7	62.1 x 7	62.1 x 7
	Number of Revolution	rev./min	3,600 x 7	3,600 x 7	3,600 x 7
	Motor Output	W x No.	5,300 x 7	5,300 x 7	5,300 x 7
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,240 x 1,745 x 760) x 3) + ((930 x 1,745 x 760) x 1)	((1,240 x 1,745 x 760) x 3) + ((930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	((1,282 x 1,919 x 802) x 3) + ((965 x 1,919 x 802) x 1)	((1,282 x 1,919 x 802) x 3) + ((965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 4
Weight	Net	kg	(300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (215 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (255 x 1)
	Shipping	kg	(310 x 1) + (310 x 1) + (310 x 1) + (225 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (225 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (265 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	57.5	57.5	61.0
	t-CO_2 eq.	-	120.031	120.031	127.338
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	67.2	67.4	67.6
	Heating	dB (A)	68.5	68.9	69.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.8	91.1	91.2
	Heating	dB (A)	93.3	94.1	94.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM760LTE6 / ARUM780LTE6
ARUM800LTE6



HP			76	78	80
Classification	Chassis	-	UXB + UXB + UXB + UXB	UXB + UXB + UXB + UXB	UXB + UXB + UXB + UXB
	Combination Unit	-	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM160LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM180LTE6	ARUM200LTE6 ARUM200LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	212.8	218.4	224.0
Heating Capacity	Rated	kW	212.8	218.4	224.0
	Max	kW	239.4	245.7	252.0
Power Input (Cooling)	Rated	kW	68.07	67.01	70.16
Power Input (Heating)	Rated	kW	48.01	48.51	50.56
Efficiency	EER (Rated)	W/W	3.13	3.26	3.19
	COP (Rated)	W/W	4.43	4.50	4.43
	SEER	Wh/Wh	8.30	8.47	8.42
	SCOP	Wh/Wh	5.21	5.05	5.13
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (320 x 1) + (320 x 1) + (320 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (320 x 1)	(320 x 1) + (320 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	(900 x 2) + (900 x 2) + (900 x 2) + (900 x 2)	(900 x 2) + (900 x 2) + (900 x 2) + (900 x 2)	(900 x 2) + (900 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 7	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 7	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 7	5,300 x 8	5,300 x 8
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 4	(1,240 x 1,745 x 760) x 4	(1,240 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 4	(1,282 x 1,919 x 802) x 4	(1,282 x 1,919 x 802) x 4
Weight	Net	kg	(300 x 1) + (300 x 1) + (300 x 1) + (255 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (300 x 1)	(300 x 1) + (300 x 1) + (300 x 1) + (300 x 1)
	Shipping	kg	(310 x 1) + (310 x 1) + (310 x 1) + (265 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (310 x 1)	(310 x 1) + (310 x 1) + (310 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A	R410A
	Precharged Amount	kg	61.0	64.0	64.0
	t-CO_2 eq.	-	127.338	133.600	133.600
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	67.7	67.8	68.0
	Heating	dB (A)	69.1	69.2	69.5
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.8	91.8	92.0
	Heating	dB (A)	94.3	94.4	95.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64	64

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

ARUM820LTE6 / ARUM840LTE6



HP			82	84
Classification	Chassis	-	UXC + UXC + UXB + UXB	UXC + UXC + UXB + UXB
	Combination Unit	-	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM140LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM160LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	229.6	235.2
Heating Capacity	Rated	kW	229.6	235.2
	Max	kW	258.3	264.6
Power Input (Cooling)	Rated	kW	81.72	85.29
Power Input (Heating)	Rated	kW	58.29	59.95
Efficiency	EER (Rated)	W/W	2.81	2.76
	COP (Rated)	W/W	3.94	3.92
	SEER	Wh/Wh	7.70	7.55
	SCOP	Wh/Wh	4.73	4.80
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 7	62.1 x 7
	Number of Revolution	rev./min	3,600 x 7	3,600 x 7
	Motor Output	W x No.	5,300 x 7	5,300 x 7
	Oil Type	-	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)
Weight	Net	kg	(362 x 1) + (362 x 1) + (300 x 1) + (255 x 1)	(362 x 1) + (362 x 1) + (300 x 1) + (255 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (310 x 1) + (265 x 1)	(372 x 1) + (372 x 1) + (310 x 1) + (265 x 1)
Refrigerant	Type	-	R410A	R410A
	Precharged Amount	kg	61.0	61.0
	t-CO_2 eq.	-	127.338	127.338
	Control Type	-	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	69.5	69.6
	Heating	dB (A)	70.6	70.6
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.6	91.3
	Heating	dB (A)	93.4	93.8
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

ARUM860LTE6 / ARUM880LTE6



HP			86	88
Classification	Chassis	-	UXC + UXC + UXB + UXB	UXC + UXC + UXB + UXB
	Combination Unit	-	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM180LTE6	ARUM240LTE6 ARUM240LTE6 ARUM200LTE6 ARUM200LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	240.8	246.4
Heating Capacity	Rated	kW	240.8	246.4
	Max	kW	270.9	277.2
Power Input (Cooling)	Rated	kW	84.23	87.38
Power Input (Heating)	Rated	kW	60.45	62.50
Efficiency	EER (Rated)	W/W	2.86	2.82
	COP (Rated)	W/W	3.98	3.94
	SEER	Wh/Wh	7.72	7.66
	SCOP	Wh/Wh	4.64	4.72
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (320 x 1) + (320 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (900 x 2) + (900 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type	-	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)	((1,640 x 1,745 x 760) x 2) + ((1,240 x 1,745 x 760) x 2)
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)	((1,675 x 1,919 x 802) x 2) + ((1,282 x 1,919 x 802) x 2)
Weight	Net	kg	(362 x 1) + (362 x 1) + (300 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (300 x 1) + (300 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (310 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (310 x 1) + (310 x 1)
Refrigerant	Type	-	R410A	R410A
	Precharged Amount	kg	64.0	64.0
	t-CO_2 eq.	-	133.600	133.600
	Control Type	-	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	69.6	69.8
	Heating	dB (A)	70.7	70.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.3	91.5
	Heating	dB (A)	93.9	94.5
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

ARUM900LTE6 / ARUM920LTE6





HP			90	92
Classification	Chassis	-	UXC + UXC + UXC + UXB	UXC + UXC + UXC + UXC
	Combination Unit	-	ARUM240LTE6 ARUM240LTE6 ARUM220LTE6 ARUM200LTE6	ARUM240LTE6 ARUM240LTE6 ARUM220LTE6 ARUM220LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	252.0	257.6
Heating Capacity	Rated	kW	252.0	257.6
	Max	kW	283.5	289.8
Power Input (Cooling)	Rated	kW	91.84	96.30
Power Input (Heating)	Rated	kW	65.82	69.14
Efficiency	EER (Rated)	W/W	2.74	2.67
	COP (Rated)	W/W	3.83	3.73
	SEER	Wh/Wh	7.36	7.06
	SCOP	Wh/Wh	4.59	4.47
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (430 x 1) + (430 x 1) + (320 x 1)	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (900 x 2)	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type	-	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	((1,640 x 1,745 x 760) x 3) + ((1,240 x 1,745 x 760) x 1)	(1,640 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	((1,675 x 1,919 x 802) x 3) + ((1,282 x 1,919 x 802) x 1)	(1,675 x 1,919 x 802) x 4
Weight	Net	kg	(362 x 1) + (362 x 1) + (362 x 1) + (300 x 1)	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (372 x 1) + (310 x 1)	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)
Refrigerant	Type	-	R410A	R410A
	Precharged Amount	kg	64.0	64.0
	t-CO_2 eq.	-	133.600	133.600
	Control Type	-	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	70.2	70.5
	Heating	dB (A)	71.5	72.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	91.1	90.5
	Heating	dB (A)	94.3	94.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

ARUM940LTE6 / ARUM960LTE6



HP			94	96
Classification	Chassis	-	UXC + UXC + UXC + UXC	UXC + UXC + UXC + UXC
	Combination Unit	-	ARUM240LTE6 ARUM240LTE6 ARUM240LTE6 ARUM220LTE6	ARUM240LTE6 ARUM240LTE6 ARUM240LTE6 ARUM240LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	263.2	268.8
Heating Capacity	Rated	kW	263.2	268.8
	Max	kW	296.1	302.4
Power Input (Cooling)	Rated	kW	100.50	104.60
Power Input (Heating)	Rated	kW	71.79	74.44
Efficiency	EER (Rated)	W/W	2.62	2.57
	COP (Rated)	W/W	3.67	3.61
	SEER	Wh/Wh	6.98	6.91
	SCOP	Wh/Wh	4.39	4.31
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)	(430 x 1) + (430 x 1) + (430 x 1) + (430 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)	(1,500 x 2) + (1,500 x 2) + (1,500 x 2) + (1,500 x 2)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 8	62.1 x 8
	Number of Revolution	rev./min	3,600 x 8	3,600 x 8
	Motor Output	W x No.	5,300 x 8	5,300 x 8
	Oil Type	-	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,640 x 1,745 x 760) x 4	(1,640 x 1,745 x 760) x 4
	Shipping (W x H x D)	mm	(1,675 x 1,919 x 802) x 4	(1,675 x 1,919 x 802) x 4
Weight	Net	kg	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)	(362 x 1) + (362 x 1) + (362 x 1) + (362 x 1)
	Shipping	kg	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)	(372 x 1) + (372 x 1) + (372 x 1) + (372 x 1)
Refrigerant	Type	-	R410A	R410A
	Precharged Amount	kg	64.0	64.0
	t-CO_2 eq.	-	133.600	133.600
	Control Type	-	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø22.20 (7/8)	Ø22.20 (7/8)
	Gas	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø41.30 (1-5/8)	Ø41.30 (1-5/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	70.8	71.0
	Heating	dB (A)	72.0	72.0
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	90.8	91.0
	Heating	dB (A)	94.0	94.0
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	64	64

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

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

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

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

4. **Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Refer to the model specifications for nominal conditions. (Power source and Ambient temperature, etc.) Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static Pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model). Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.**

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

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

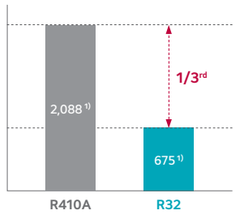
7. **This product contains Fluorinated greenhouse gas. (R410A, GWP (Global warming potential) = 2,087.5)**



Highlight of the R32 Refrigerant

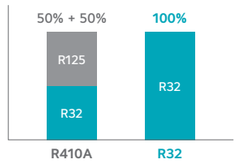
Low GWP

- More eco-friendly refrigerant compliant with regulation



Single Component

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



High Volumetric Energy

- Lower compressor displacement



Less Refrigerant Charge

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



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

Less Charge, Less Carbon Emission System

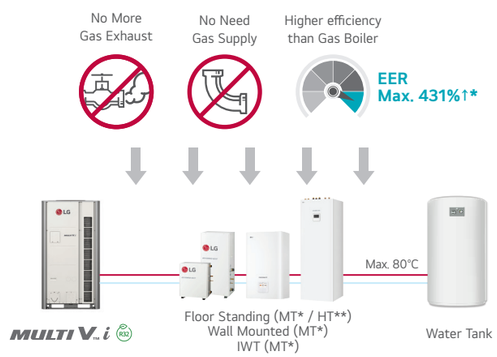
MULTI V *i* R32 can save Max. 14% of refrigerant amount compared to R410A system, which leads to reduced carbon dioxide emissions.



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

More Efficient Hot Water Supply Solution

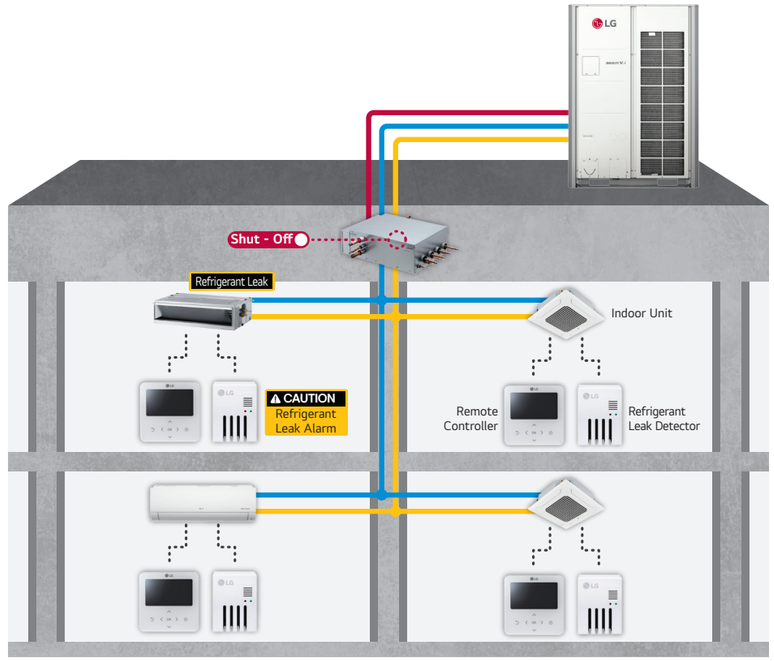
MULTI V *i* with Hydro kit provides floor heating and hot water supply without using gas. It is a more environmentally friendly system with higher energy efficiency and lower carbon emissions.



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

Safety Device Response Scenarios

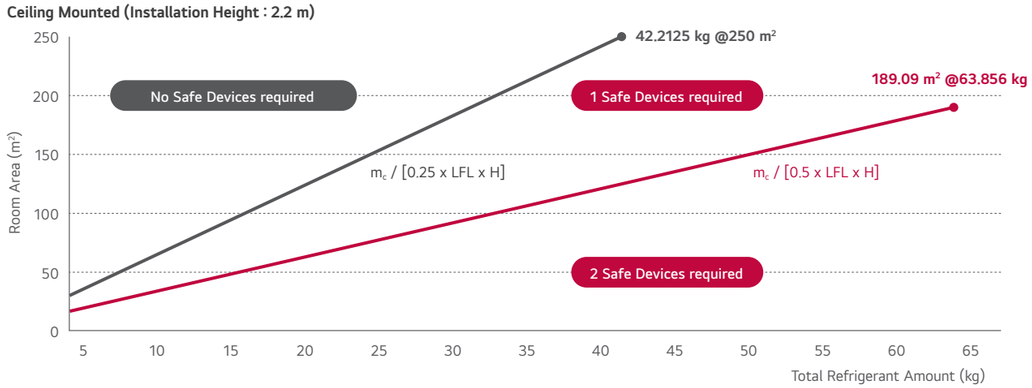
When a refrigerant leak occurs in the indoor unit or in the piping between the Heat Recovery (HR) Unit and the indoor unit, the system operates as follows: All indoor units will stop operating even if only one indoor unit has a leak. Alternatively, the shut-off valve of the leaking indoor unit will close, and the leaking unit will stop while other indoor units continue to operate. This integration is designed to enhance safety by quickly identifying leaks and preventing the spread of refrigerants to ensure compliance with refrigerant regulations.



R32 Indoor Unit Design Guide

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

Ceiling Mounted (Installation Height : 2.2 m)



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

ZRUM080LTE6 / ZRUM100LTE6
ZRUM120LTE6

R32



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

MODEL		UNIT	ZRUM080LTE6	ZRUM100LTE6	ZRUM120LTE6
Classification	Chassis	-	UXA	UXA	UXA
	Combination Unit	-	ZRUM080LTE6	ZRUM100LTE6	ZRUM120LTE6
Power Supply		V / Ø / Hz	380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	22.4	28.0	33.6
Heating Capacity	Rated	kW	22.4	28.0	33.6
	Max	kW	25.2	31.5	37.8
Power Input (Cooling)	Rated	kW	6.10	8.33	11.67
Power Input (Heating)	Rated	kW	5.16	6.22	7.76
Efficiency	EER (Rated)	W/W	3.67	3.36	2.88
	COP (Rated)	W/W	4.34	4.50	4.33
	SEER	Wh/Wh	8.28	8.11	7.94
	SCOP	Wh/Wh	4.45	4.52	4.99
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	220 x 1	220 x 1	220 x 1
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	1,200 x 1	1,200 x 1	1,200 x 1
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1	62.1
	Number of Revolution	rev./min	3,600	3,600	3,600
	Motor Output	W x No.	5,300 × 1	5,300 x 1	5,300 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	930 x 1,745 x 760	930 x 1,745 x 760	930 x 1,745 x 760
	Shipping (W x H x D)	mm	965 x 1,919 x 802	965 x 1,919 x 802	965 x 1,919 x 802
Weight	Net	kg	215	215	215
	Shipping	kg	225	225	225
Refrigerant	Type	-	R32	R32	R32
	Precharged Amount	kg	7.5	8.5	8.5
	t-CO_2 eq.	-	5.063	5.738	5.738
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	57	57.5	59
	Heating	dB (A)	58	58.5	60
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	78	79	80
	Heating	dB (A)	78	79	82
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	13 (20)	16 (25)	20 (30)

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

ZRUM140LTE6 / ZRUM160LTE6
ZRUM180LTE6

R32



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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MODEL		UNIT	ZRUM140LTE6	ZRUM160LTE6	ZRUM180LTE6
Classification	Chassis	-	UXB	UXB	UXB
	Combination Unit	-	ZRUM140LTE6	ZRUM160LTE6	ZRUM180LTE6
Power Supply		V / Ø / Hz	380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	39.2	44.8	50.4
Heating Capacity	Rated	kW	39.2	44.8	50.4
	Max	kW	44.1	50.4	56.7
Power Input (Cooling)	Rated	kW	11.88	15.45	14.40
Power Input (Heating)	Rated	kW	8.43	10.09	10.59
Efficiency	EER (Rated)	W/W	3.30	2.90	3.50
	COP (Rated)	W/W	4.65	4.44	4.76
	SEER	Wh/Wh	8.55	7.97	8.65
	SCOP	Wh/Wh	5.17	5.46	4.81
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	320 x 1	320 x 1	320 x 1
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	900 x 2	900 x 2	900 x 2
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1	62.1 x 2
	Number of Revolution	rev./min	3,600	3,600	3,600 x 2
	Motor Output	W x No.	5,300 x 1	5,300 x 1	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	1,240 x 1,745 x 760	1,240 x 1,745 x 760	1,240 x 1,745 x 760
	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	1,282 x 1,919 x 802	1,282 x 1,919 x 802
Weight	Net	kg	255	255	305
	Shipping	kg	265	265	315
Refrigerant	Type	-	R32	R32	R32
	Precharged Amount	kg	11.4	11.4	14
	t-CO_2 eq.	-	7.695	7.695	9.450
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	60	60.5	61
	Heating	dB (A)	61	61.5	62
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	81	85	85
	Heating	dB (A)	81	85	86
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	23 (35)	26 (40)	29 (45)

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

ZRUM200LTE6 / ZRUM220LTE6
ZRUM240LTE6



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com [1)]

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MODEL		UNIT	ZRUM200LTE6	ZRUM220LTE6	ZRUM240LTE6
Classification	Chassis	-	UXB	UXA + UXA	UXB + UXA
	Combination Unit	-	ZRUM200LTE6	ZRUM120LTE6 ZRUM100LTE6	ZRUM140LTE6 ZRUM100LTE6
Power Supply		V / Ø / Hz	380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Cooling Capacity	Rated	kW	56.0	61.6	67.2
Heating Capacity	Rated	kW	56.0	61.6	67.2
	Max	kW	63.0	69.3	75.6
Power Input (Cooling)	Rated	kW	17.54	19.98	20.21
Power Input (Heating)	Rated	kW	12.64	13.99	14.65
Efficiency	EER (Rated)	W/W	3.19	3.08	3.33
	COP (Rated)	W/W	4.43	4.40	4.59
	SEER	Wh/Wh	8.42	8.03	8.33
	SCOP	Wh/Wh	5.13	4.76	4.85
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	320 x 1	(220 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct	Direct
	Output	W x No.	900 x 2	(1,200 x 1) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 2	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	1,240 x 1,745 x 760	(930 x 1,745 x 760) x 2	(1,240 x 1,745 x 760) x 1) + (930 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	1,282 x 1,919 x 802	(965 x 1,919 x 802) x 2	(1,282 x 1,919 x 802) x 1) + (965 x 1,919 x 802) x 1)
Weight	Net	kg	305	215 x 2	(255 x 1) + (215 x 1)
	Shipping	kg	315	225 x 2	(265 x 1) + (225 x 1)
Refrigerant	Type	-	R32	R32	R32
	Precharged Amount	kg	14	17	19.9
	t-CO_2 eq.	-	9.450	11.475	13.433
	Control Type	-	EEV	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Sound Pressure Level* (Outdoor Unit)	Cooling	dB (A)	62	61.3	61.9
	Heating	dB (A)	63.5	62.3	62.9
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	86	82.5	83.1
	Heating	dB (A)	89	83.8	83.1
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	32 (50)	35 (56)	39 (61)

*: Sound Pressure is not a value declared on Eurovent Program
1) Applying to 20HP outdoor units only.
Note :
1. Due to our policy of innovation some specifications may be changed without notification.

ZRUM260LTE6 / ZRUM280LTE6



MODEL		UNIT	ZRUM260LTE6	ZRUM280LTE6
Classification	Chassis	-	UXB + UXA	UXB + UXA
	Combination Unit	-	ZRUM140LTE6 ZRUM120LTE6	ZRUM160LTE6 ZRUM120LTE6
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50
Cooling Capacity	Rated	kW	72.8	78.4
Heating Capacity	Rated	kW	72.8	78.4
	Max	kW	81.9	88.2
Power Input (Cooling)	Rated	kW	23.53	27.10
Power Input (Heating)	Rated	kW	16.20	17.86
Efficiency	EER (Rated)	W/W	3.09	2.89
	COP (Rated)	W/W	4.49	4.39
	SEER	Wh/Wh	8.25	7.96
	SCOP	Wh/Wh	5.08	5.23
Outdoor Fan	Type	-	Propeller Fan	Propeller Fan
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (220 x 1)	(320 x 1) + (220 x 1)
	Discharge direction (Side / Top)		Top	Top
Outdoor Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 x 2	62.1 x 2
	Number of Revolution	rev./min	3,600 x 2	3,600 x 2
	Motor Output	W x No.	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)
Heat Exchanger	Fin Type	-	Wide Louver Plus	Wide Louver Plus
Dimensions	Net (W x H x D)	mm	(1,240 x 1,745 x 760) x 1) + (930 x 1,745 x 760) x 1)	(1,240 x 1,745 x 760) x 1) + (930 x 1,745 x 760) x 1)
	Shipping (W x H x D)	mm	(1,282 x 1,919 x 802) x 1) + (965 x 1,919 x 802) x 1)	(1,282 x 1,919 x 802) x 1) + (965 x 1,919 x 802) x 1)
Weight	Net	kg	(255 x 1) + (215 x 1)	(255 x 1) + (215 x 1)
	Shipping	kg	(265 x 1) + (225 x 1)	(265 x 1) + (225 x 1)
Refrigerant	Type	-	R32	R32
	Precharged Amount	kg	19.9	19.9
	t-CO_2 eq.	-	13.433	13.433
	Control Type	-	EEV	EEV
Connecting Pipe	Liquid	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)
Sound Pressure Level (Outdoor Unit)	Cooling	dB (A)	62.5	62.8
	Heating	dB (A)	63.5	63.8
Sound Power Level (Outdoor Unit)	Cooling	dB (A)	83.5	86.2
	Heating	dB (A)	84.5	86.8
Connecting Cable	Communication Cable (VCTF-SB)	mm^2 × cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Connectable Indoor Units Number	Max. (Conditional)	EA	42 (64)	45 (56)

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

MULTI V™ S

Highlights

Energy savings

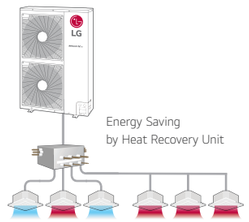
Reliability

Convenience

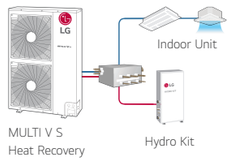
- Air cooled VRF Heat pump & Heat Recovery
- 9.0 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge

How does it work?

Available in Heat Pump and Heat Recovery Models



Combination of Cooling, Heating and Hot Water Solution



※ Heat Pump and Recovery are separated models.

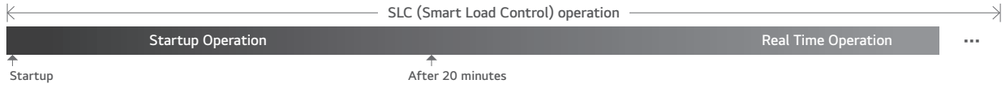




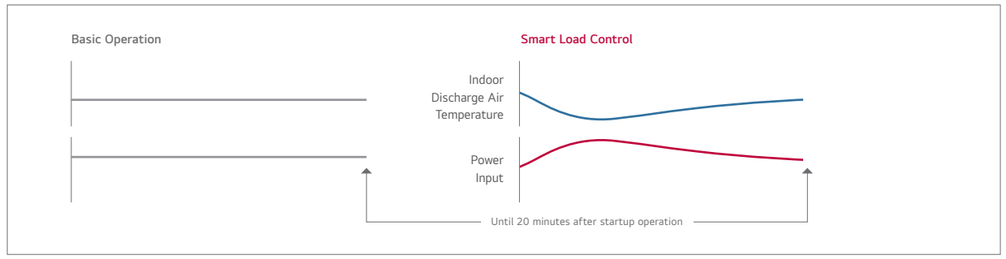
Smart Load Control Applied

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

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



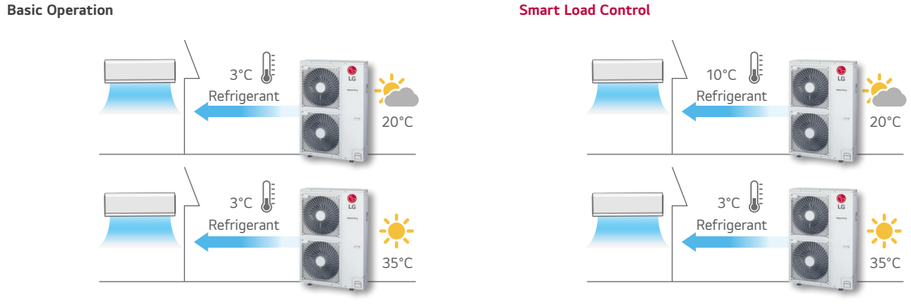
Startup Operation



Max 10% Energy Saving

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

Real Time Operation



Max 13% Energy Saving

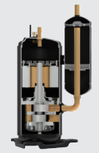
※ How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.
- Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35℃ (DB) / 30℃ (DB) / 25℃ (DB) / 20℃ (DB)
- Indoor temperature condition : 27°C (DB) / 19°C (WB)

※ Dual sensing (Temperature & humidity) smart load control is possible with Remote controller PTEMTB100 (White) / PREMTBB11 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficiency compressor according to capacity

Inverter Twin Rotary (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 extra stator cavity. Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.



Twin Rotary Rotor

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



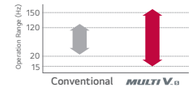
Surface Coating

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

Inverter scroll compressor

Best-in-class Compressor Speed

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



6 Bypass Valve

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



Direct Oil Injection

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

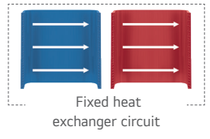
Scroll Profile

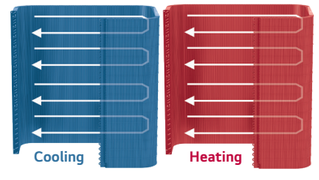
- Enhanced reliability with regulated oil supply
- Efficiency is enhanced through a 96% expansion of the bypass area and a 17% improvement in volume ratio achieved by incorporating non-uniform scroll thickness

Optimal Heat Exchanger

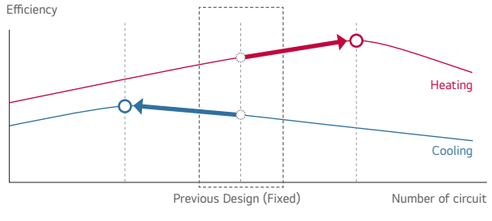
Maximize efficiency according to different heat exchanger paths by cooling and heating

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





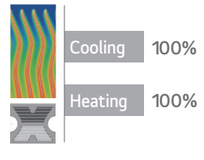
Efficiency performance



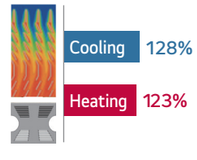
Efficiency up due to Fin shape

Up to 28% improved heat exchanger efficiency

Conventional



Wide Louver Plus Fin



High Efficiency

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

* Only for 8, 10, 12HP

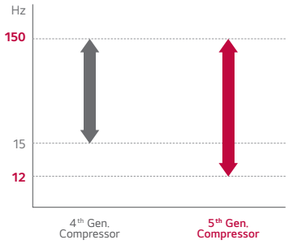


5th Gen. Compressor

Wider Frequency Range

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

Comparison of Compressor Frequency



Higher Performance

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

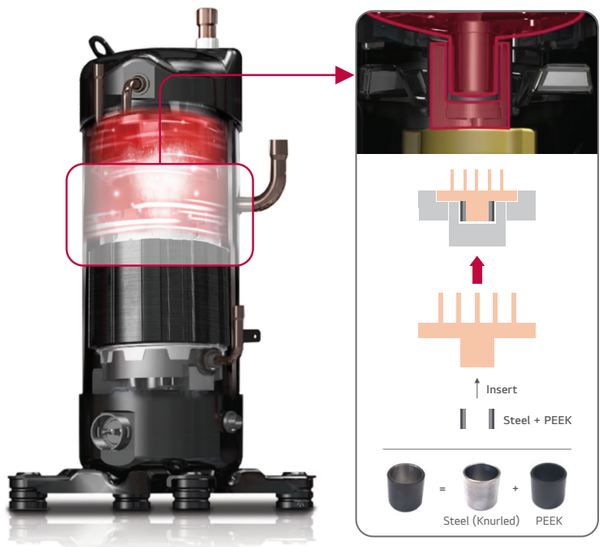
Inverter Scroll Compressor			4th Gen.	5th Gen.
Performance	CHEER Conditions	30 Hz	100%	105%
		60 Hz	100%	105%
	ARI Conditions	90 Hz	100%	104%
		120 Hz	100%	108%

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

Reliable Inverter Compressor

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

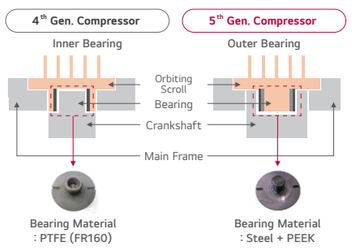
* Only for 8, 10, 12HP



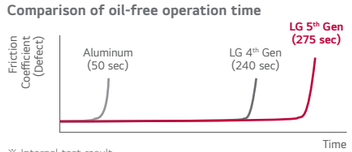
* PEEK : Polyether Ether Ketone

Enhanced Bearing Technology

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



Comparison of oil-free operation time

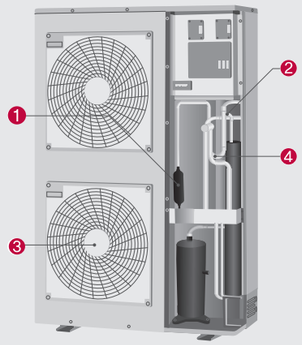


※ Internal test result.
※ Bearing oil blocking test (Oil blocking at 60 Hz)

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

Reliable Refrigerant Components

LG technology allows for superior performance and component durability

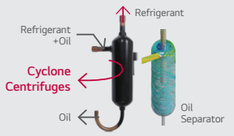


MULTI V S improved reliability with advanced technology :

- Oil separator
- Accumulator
- Sub-cooling

❶ 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



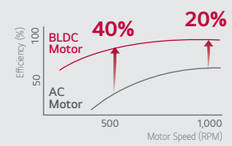
❷ Large Volume Accumulator

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



❸ 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



❹ Double Sub-cool Interchanger

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

* Based on equivalent pipe length



Double Sub-cool Interchanger

Smart Control

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

Temperature + Pressure Control

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



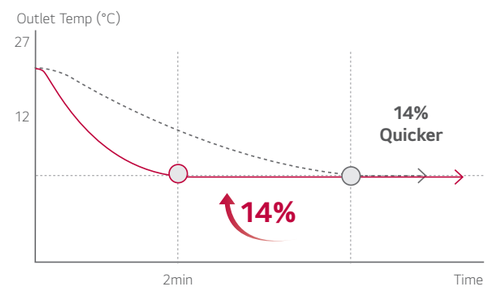
High Pressure Sensor

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.

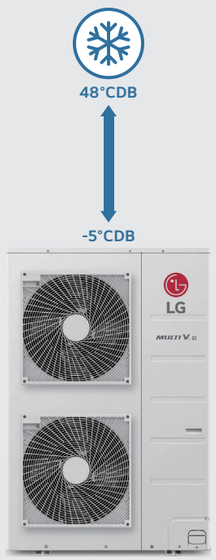


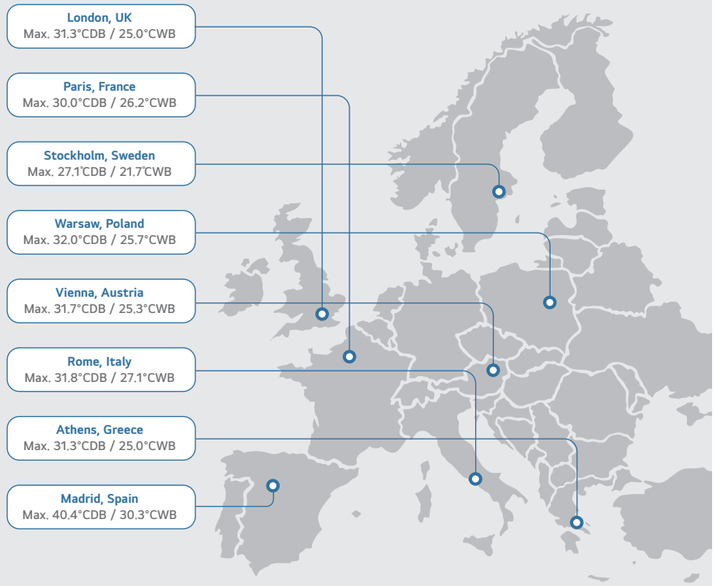
Wide Operation Ranges (Cooling & Heating)

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

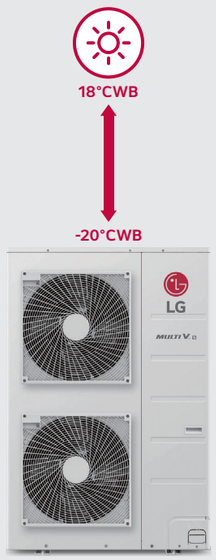
* Only for 8, 10, 12HP

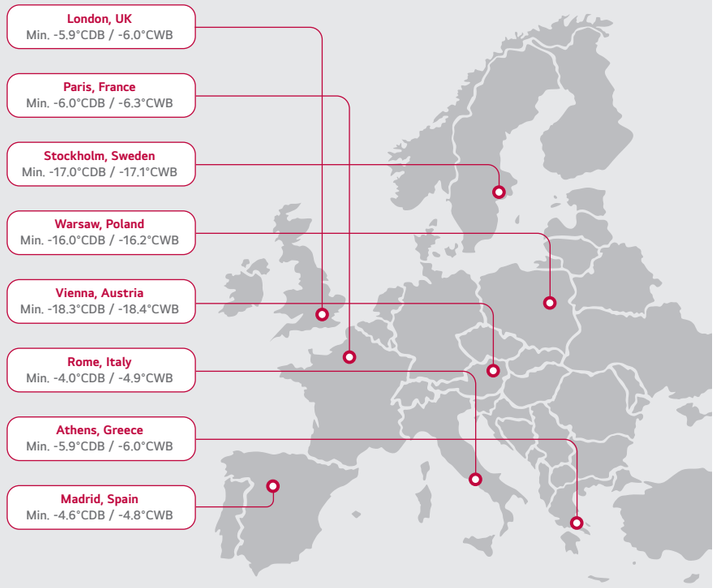
Continuous Operation





Continuous Operation





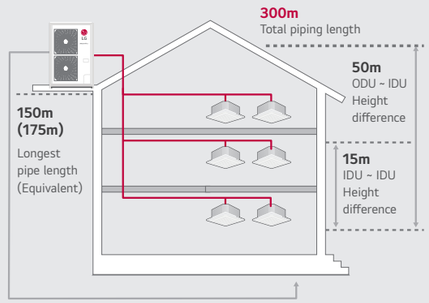
※ The source of weather data is TMY(Typical Meteorological Year) data.
The TMY data contains one year of hourly data that best represents weather conditions over many years.

Sufficient Piping Length

Increased piping length allows for flexible design and installation

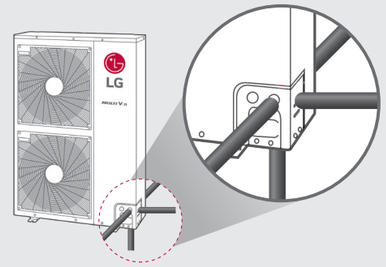
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and ensuing efficient designs.

Piping Capabilities



4 Way Piping

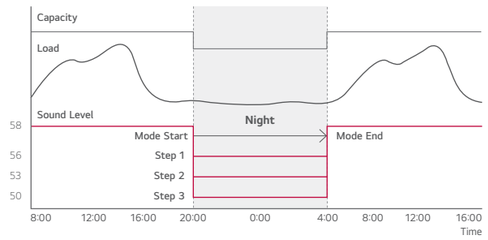
- Free design and installation with 4 way piping.

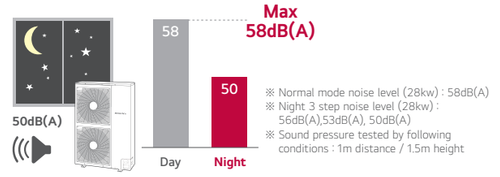


Low Noise Operation

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.

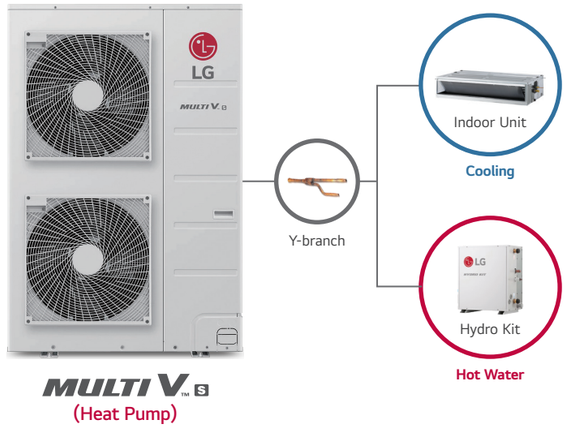




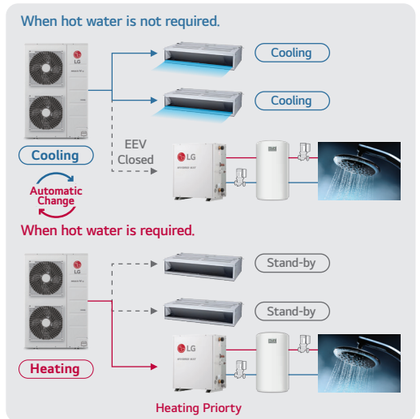
※ Normal mode noise level (28kw) : 58dB(A)
※ Night 3 step noise level (28kw) :
56dB(A),53dB(A), 50dB(A)
※ Sound pressure tested by following
conditions : 1m distance / 1.5m height

Heating Priority

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



Sequence of Heating Priority



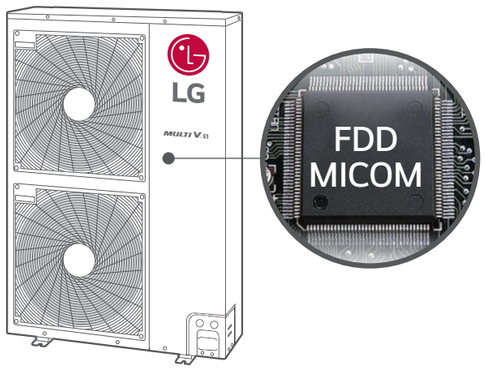
※ This function is available only when the dip switch of the outdoor unit and wired remote controller of the indoor unit & hydro kit are set.
(ODU : Dip Switch No.5 On → Fn25 → Heat → On) // (IDU : Installer Setting → ODU Cycle Priority → Stand-by) // (Hydro Kit : Installer Setting → ODU Cycle Priority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

Upgraded Fault Detection and Diagnosis

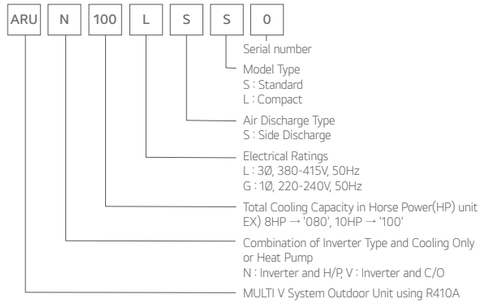
Easy and convenient maintenance with self-diagnosis

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

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



Nomenclature



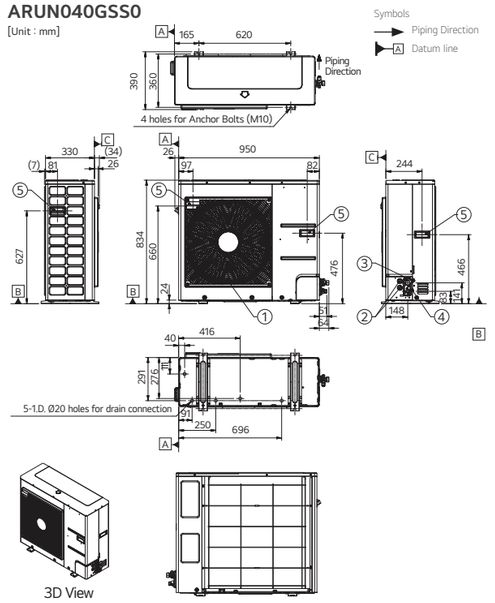
Outdoor Units Function

Category	Functions	MULTI V S
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	ARUB060GSS4 only
	Corrosion Resistance Black Fin	○
	Oil Sensor	-
Special Function	Dual Sensing	ARUB060GSS4 only
	Low Noise Operation	○
	Hgih 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)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP5 (w U60FT)	○
	ACP BACnet	PQNFB17C0
IO Module (ODU Dry Contact)		PVDSMN000
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Cycle Monitoring Device	LGMV	PRCTIL0
	Mobile LGMV	PLGMVW100
Additional Kit	Refrigerant Charging Kit	○ (Logical operation) Not applied to ARUB060GSS4
	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	-

※ ○ : Applied, - : Not Applied

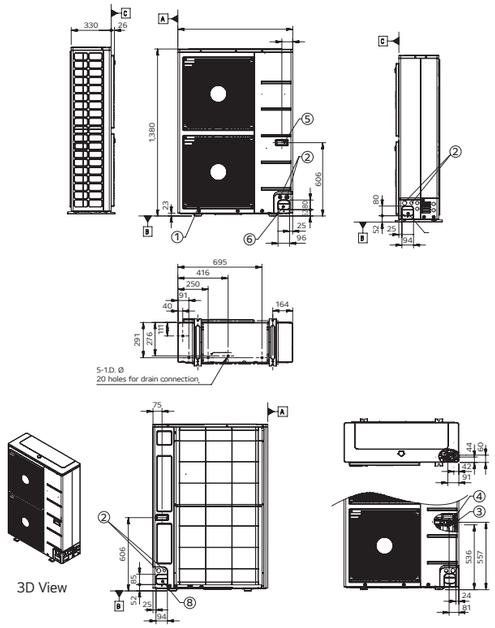
ARUN040GSS0

[Unit : mm]



ARUN080LSS5

[Unit : mm]

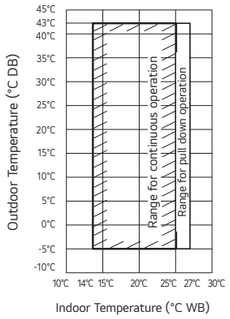


Note
1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulation or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations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

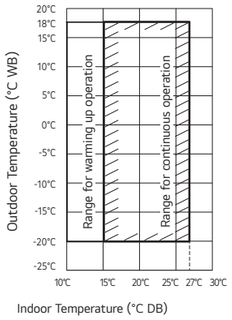
No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Welding joint
4	Liquid Pipe Connection	Welding joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

Heat Pump

Cooling

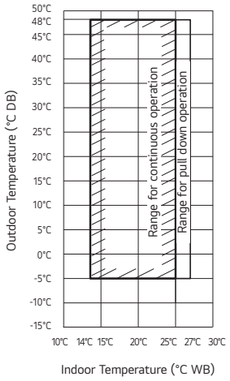


Heating

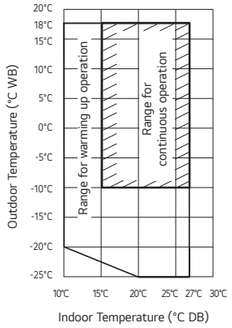


Heat Recovery

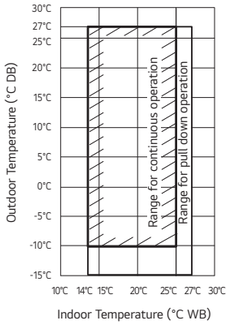
Cooling



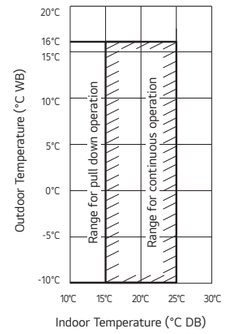
Heating



Simultaneous Cooling

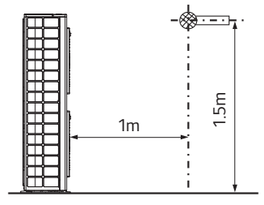


Simultaneous Heating



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

Position of Sound Level Measuring



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

ARUN040GSS0



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

HP			4
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	-	FW68L
	Oil Charge	cc	1,300
Fan	Type	-	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1
	Air Flow Rate (High)	m^3/min x No.	60
	Drive	-	DC INVERTER
	Discharge	Side / Top	Side
Pipe Connection	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		mm^2 x No. (VCTF-SB)	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant Name	-	R410A
	Precharged Amount in factory	kg	1.8
	t-CO_2eq	-	3.758
	Control	-	Electronic Expansion Valve
Power Supply		V / Ø / Hz	220-240 / 1 / 50
			220 / 1 / 60
Number of Maximum Connectable Indoor Units			8

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

ARUN050GSS0 / ARUN060GSS0



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

HP			5	6
Model Name		-	ARUN050GSS0	ARUN060GSS0
Capacity	Cooling (Rated)	kW	14.0	15.5
	Heating (Rated)	kW	16.0	18.0
Input	Cooling (Rated)	kW	4.59	5.17
	Heating (Rated)	kW	4.18	5.00
EER		-	3.05	3.00
SEER		-	7.40	7.53
COP	Rated Capacity	-	3.83	3.60
SCOP		-	4.16	4.35
Exterior	Color (General)	-	Warm Gray	Warm Gray
	RAL Code (Classic)	-	RAL 7044	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus	Wide Louver Plus
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	-	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	1,300	1,300
Fan	Type	-	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2
	Air Flow Rate (High)	m^3/min x No.	110	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.	(1,140 x 1,549 x 466) x 1	(1,140 x 1,549 x 466) 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		mm^2 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-CO_2eq	-	6.263	6.263
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
			220 / 1 / 60	220 / 1 / 60
Number of Maximum Connectable Indoor Units			10	13

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

ARUN040LSS0 / ARUN050LSS0
ARUN060LSS0



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

HP			4	5	6
Model Name		-	ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
Capacity	Cooling (Rated)	kW	12.1	14.0	15.5
	Heating (Rated)	kW	12.5	16.0	18.0
Input	Cooling (Rated)	kW	3.39	4.59	5.17
	Heating (Rated)	kW	2.75	4.18	5.00
EER		-	3.57	3.05	3.00
SEER		-	7.42	7.40	7.53
COP	Rated Capacity	-	4.55	3.83	3.60
SCOP		-	4.30	4.16	4.35
Exterior	Color (General)	-	Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)	-	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
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	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	1,300	1,300	1,300
Fan	Type	-	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2	124 x 2
	Air Flow Rate (High)	m^3/min x No.	110	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.	(1,140 x 1,549 x 466) x 1	(1,140 x 1,549 x 466) x 1	(1,140 x 1,549 x 466) 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		mm^2 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		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
			380 / 3 / 60	380 / 3 / 60	380 / 3 / 60
Number of Maximum Connectable Indoor Units			8	10	13

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

ARUN080LSS5 / ARUN100LSS5
ARUN120LSS5



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

HP			8	10	12
Model Name		-	ARUN080LSS5	ARUN100LSS5	ARUN120LSS5
Capacity	Cooling (Rated)*	kW	22.4	28.0	33.5
	Heating (Rated)*	kW	22.4	28.0	33.5
	Heating (Max)*	kW	24.5	30.6	36.7
Input	Cooling (Rated)*	kW	7.83	9.69	12.01
	Heating (Rated)*	kW	5.82	6.81	9.05
EER		-	2.86	2.89	2.79
SEER		-	7.49	6.59	6.83
COP	Rated Capacity	-	3.85	4.11	3.70
SCOP		-	4.76	4.42	4.45
Exterior	Color (General)	-	Warm Gray	Warm Gray	Warm Gray
	RAL Code (Classic)	-	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
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	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	1,200	1,200	1,200
Fan	Type	-	Propeller Fan	Propeller Fan	Propeller Fan
	Motor Output x Number	W x No.	124 x 2	250 x 2	250 x 2
	Air Flow Rate (High)	m^3/min x No.	140	210	210
	Drive	-	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (W x H x D)		mm x No.	950 x 1,380 x 330	1,090 x 1,625 x 380	1,090 x 1,625 x 380
Dimensions (W x H x D) - Shipping		mm x No.	(1,140 x 1,549 x 466) x 1	(1,215 x 1,795 x 500) x 1	(1,215 x 1,795 x 500) x 1
Net Weight		kg x No.	114	139	152
Shipping Weight		kg x No.	126	154	166
Sound Pressure Level*	Cooling	dB(A)	57	58	60
	Heating	dB(A)	57	58	60
Sound Power Level	Cooling	dB(A)	73	75	77
	Heating	dB(A)	77	81	82
Communication Cable		mm^2 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-CO_2eq	-	7.306	9.394	12.525
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
			380 / 3 / 60	380 / 3 / 60	380 / 3 / 60
Number of Maximum Connectable Indoor Units			13	16	20

*: Sound Pressure is not a value declared on Eurovent Program.
Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. EUROVENT Test Condition :
   - Performance values on the this PDB are based on Ceiling mounted cassette combination.
   - Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
7. The maximum combination ratio is 160%.
8. This product contains Fluorinated greenhouse gases. (R410A, GWP (Global warming potential) = 2,087.5)

ARUB060GSS4



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

HP			6
Model Name		-	ARUB060GSS4
Capacity	Cooling (Rated)	kW	15.5
	Heating (Rated)	kW	18.0
Input	Cooling (Rated)	kW	5.74
	Heating (Rated)	kW	5.14
EER		-	2.70
SEER		-	5.92
COP	Rated Capacity	-	3.50
SCOP		-	3.79
Exterior	Color	-	Warm Gray
	RAL Code (Classic)	-	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus
Compressor	Type	-	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1
	Oil Type	-	FW68L (PVE)
	Oil Charge	cc	1,700
Fan	Type	-	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
	Air Flow Rate (High)	m^3/min x No.	110
	Drive	-	DC INVERTER
	Discharge	Side / Top	Side
Pipe Connection #1	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (W x H x D)		mm x No.	950 × 1,380 × 330
Dimensions (W x H x D) - shipping		mm x No.	(1,140 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		mm^2 x No. (VCTF-SB)	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant Name	-	R410A
	Precharged Amount in factory	kg	3.5
	t-CO_2eq	-	7.306
	Control	-	Electronic Expansion Valve
Power Supply		V / Ø / Hz	220-240 / 1 / 50
			220 / 1 / 60
Number of Maximum Connectable Indoor Units			13

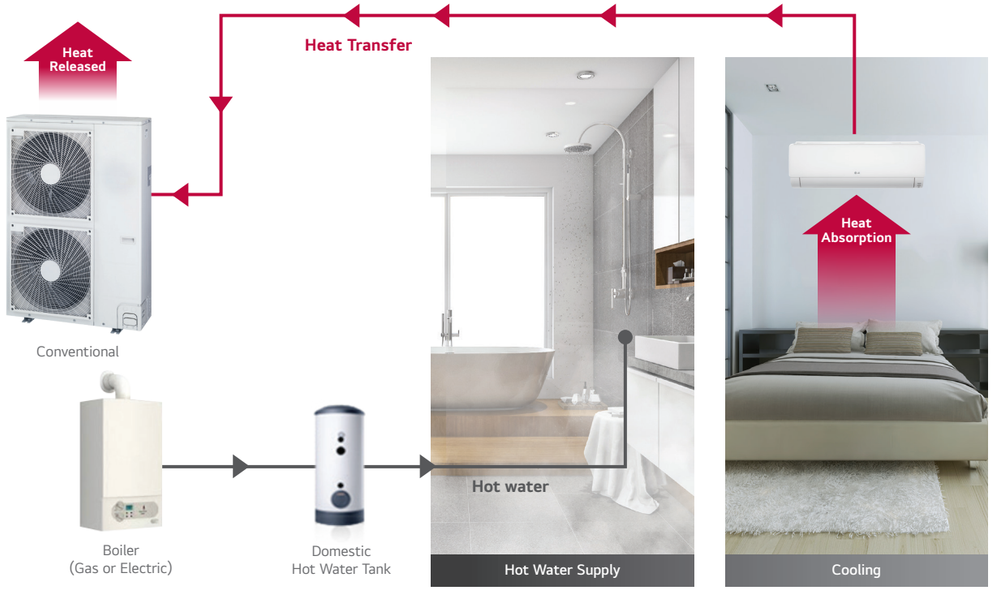
*: Sound Pressure is not a value declared on Eurovent Program.
Note
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
   - Refer to EUROVENT certification regulation for more detail test conditions.
   - Refer to EUROVENT website for test values connected Ceiling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

Energy Savings

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

Conventional

Absorbed heat is released to outdoor air.

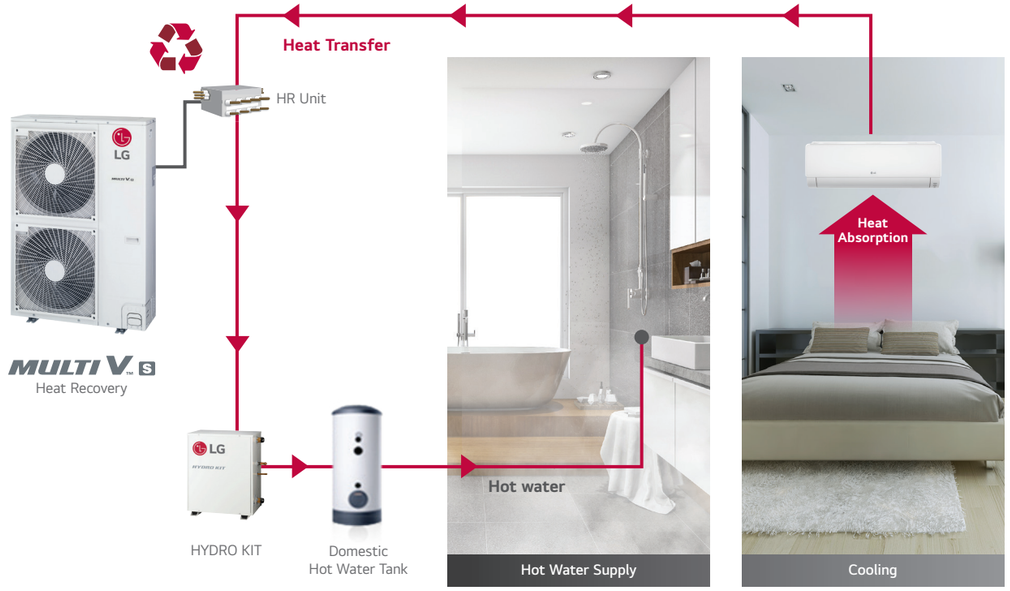


Energy Savings

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

MULTI V S Heat Recovery with HYDRO KIT

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



MULTI V™ S

R32

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



Compact Size & Light Weight

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





Previous New

Less Refrigerant Charge

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



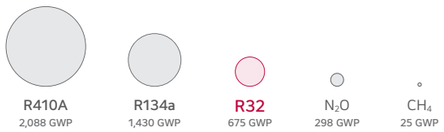
Previous New

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

Lower Global Warming Potential (GWP)

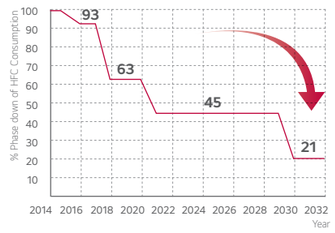
What is GWP?

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (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 freon gas that does not harm the Earth's ozone layer

Cost Savings with R32

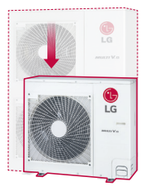
Higher Efficiency

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.



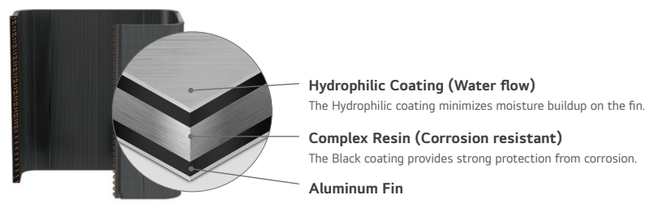
Corrosion Resistant Black Fin

Enhanced Coating Layers

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

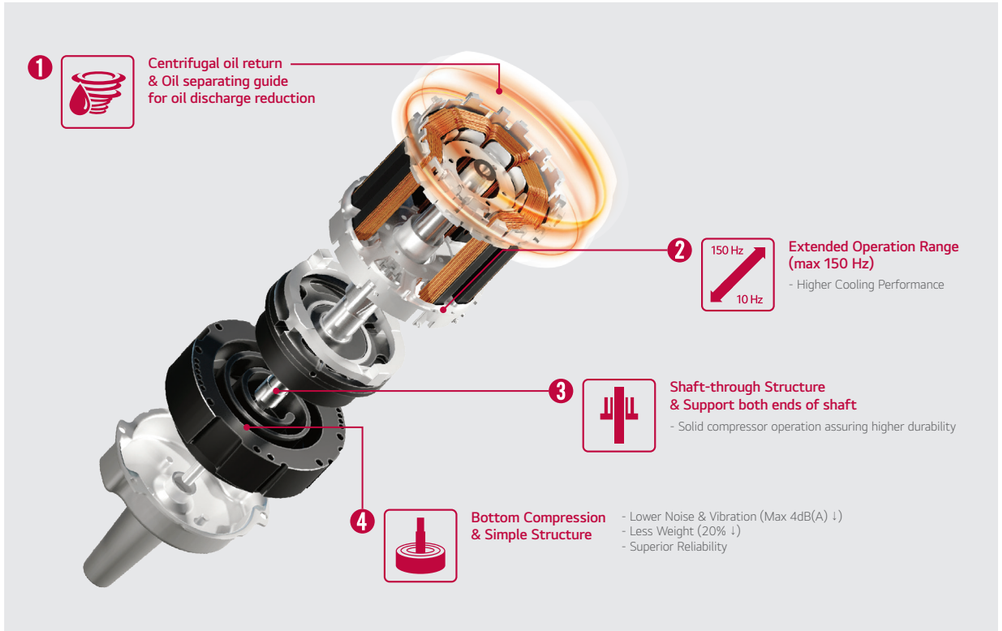


※ Verification of corrosion resistance performance
- Test Method B of ISO 21207
- ASTM B117 / ISO 9227 (10,000 hours)



R1 Compressor™

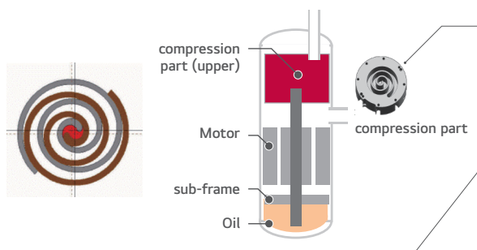
R1 Compressor combines the high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient and compact model.



Conventional Compressor

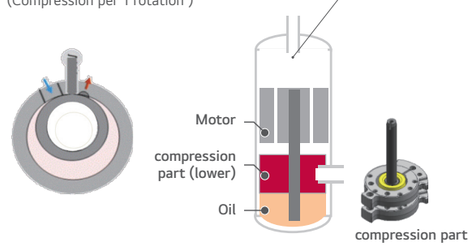
Scroll : High efficiency / Low sound

(Continuous compression, but complex structure)



Rotary : Simple structure

(Compression per 1 rotation)



R1 Compressor™

Revolutionary Scroll : High efficiency / Stable & Simple Structure



Hybrid scroll shape

(LG patent)*

* Patent registration number (S.Korea : 10-1059880, USA : RE46106)

Motor

Compression parts
(upper → lower)

Scroll penetrated by shaft
→ remove tilting moment

Simple structure :
without sub-frame

Oil feeding structure is superior over the previous scroll

Oil

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

Compact model

(Size 40%↓, Weight 25%↓)



ZRUN030GSS0 / ZRUN040GSS0
ZRUN050GSS0 / ZRUN060GSS0



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

HP			3	4	5	6
Model Name		-	ZRUN030GSS0	ZRUN040GSS0	ZRUN050GSS0	ZRUN060GSS0
Capacity	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
Input	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
	Heating (Rated)	kW	2.09	3.03	3.48	3.95
EER (Rated)		-	3.20	2.84	2.86	2.75
SEER		-	5.70	6.69	6.44	6.59
COP (Rated)		-	4.30	4.00	4.02	3.92
SCOP		-	3.80	3.87	3.81	4.07
Exterior	Color	-	Warm Gray	Warm Gray	Warm Gray	Warm Gray
	RAL Code	-	RAL 7044	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type	-	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	1,100	1,100	1,100	1,100
Fan	Type	-	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m^3/min x No.	60	60	80	80
	Drive	-	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 834 x 330	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	1,147 x 919 x 461
Net Weight		kg x No.	64.7	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	73.7	79.6	79.6
Sound Pressure Level*	Cooling	dB(A)	51	51	57	57
	Heating	dB(A)	55	55	60	60
Sound Power Level	Cooling	dB(A)	67	67	70	71
	Heating	dB(A)	70	71	74	75
Communication Cable		mm^2 x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name	-	R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
	t-CO_2eq	-	1.013	1.013	1.350	1.350
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50	220-230-240 / 1 / 50	220-230-240 / 1 / 50	220-230-240 / 1 / 50
Number of maximum connectable indoor units			6	8	10	13

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

Note

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

ZRUN030LSS0 / ZRUN040LSS0
ZRUN050LSS0 / ZRUN060LSS0



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

HP			3	4	5	6
Model Name		-	ZRUN030LSS0	ZRUN040LSS0	ZRUN050LSS0	ZRUN060LSS0
Capacity	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
Input	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
	Heating (Rated)	kW	2.09	3.03	3.48	3.95
EER (Rated)		-	3.20	2.84	2.86	2.75
SEER		-	5.70	6.69	6.44	6.59
COP (Rated)		-	4.30	4.00	4.02	3.92
SCOP		-	3.80	3.87	3.81	4.07
Exterior	Color	-	Warm Gray	Warm Gray	Warm Gray	Warm Gray
	RAL Code	-	RAL 7044	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Type	-	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type	-	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	1,100	1,100	1,100	1,100
Fan	Type	-	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m^3/min x No.	60	60	80	80
	Drive	-	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 x 834 x 330	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	1,147 x 919 x 461
Net Weight		kg x No.	64.7	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	73.7	79.6	79.6
Sound Pressure Level*	Cooling	dB(A)	51	51	57	57
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Sound Power Level	Cooling	dB(A)	67	67	70	71
	Heating	dB(A)	70	71	74	75
Communication Cable		mm^2 x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name	-	R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
	t-CO_2eq	-	1.013	1.013	1.350	1.350
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50	380-400-415 / 3 / 50
Number of maximum connectable indoor units			6	8	10	13

*: Sound Pressure is not a value declared on Eurovent Program.
Note
1. Due to our policy of innovation some specifications may be changed without notification.
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.
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4. Performances are based on the following conditions :
   • Cooling : Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB
   • Heating : Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB
   • Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
5. EUROVENT Test Condition :
   • Performance values on the this PDB are based on Ceiling mounted cassette combination.
   • Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
6. The maximum combination ratio is 160%.
7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

NOTE

MULTI V™ M

Highlights

Flexible design

Cost savings

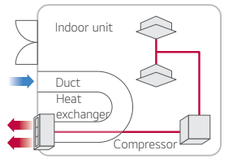
Space savings

Easy maintenance

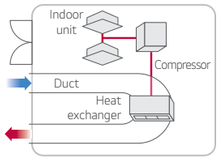
- Air Cooled VRF Heat pump
- 14kW (based on cooling capacity)
- 3Ø, 380 ~ 415V, 50Hz (Compressor module)
- 1Ø, 220 ~ 240V, 50Hz (Heat exchanger module)
- Outdoor unit is installed inside building

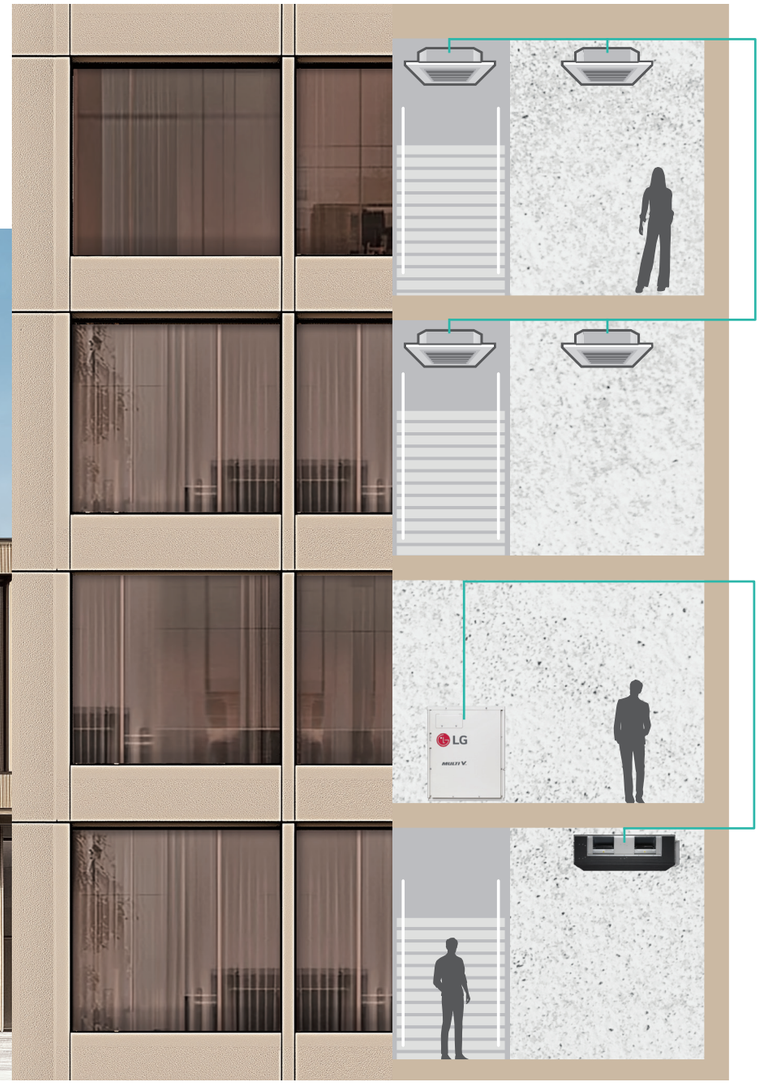
How does it work?

Direct Inlet / Outlet Case



Duct Connected Case



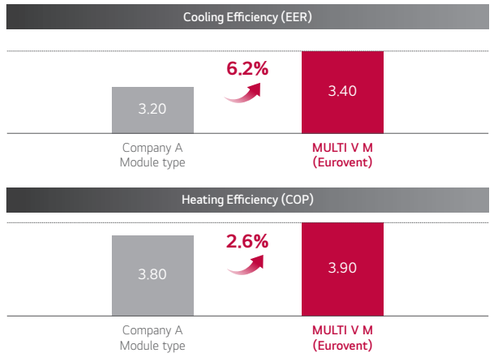


70m
Longest piping length from Compressor Module to Indoor unit

140m
Total Piping Length

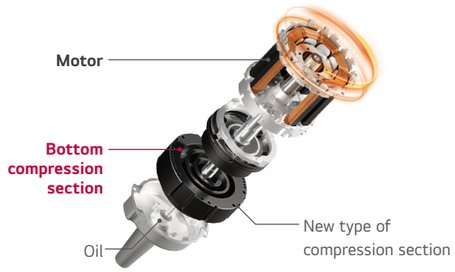
30m
Longest piping length from Heat Exchanger Module to Compressor Module

Energy Efficiency



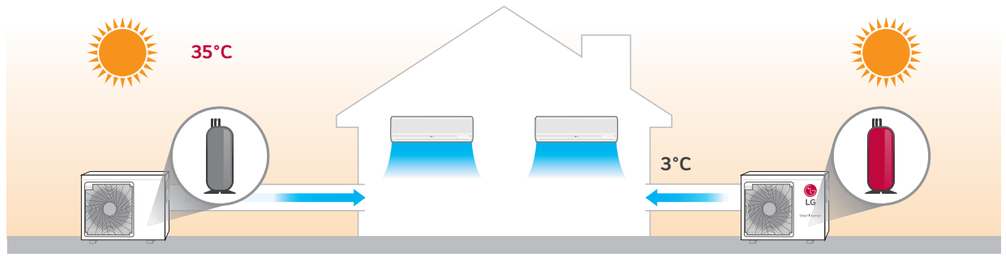
R1 Compressor™

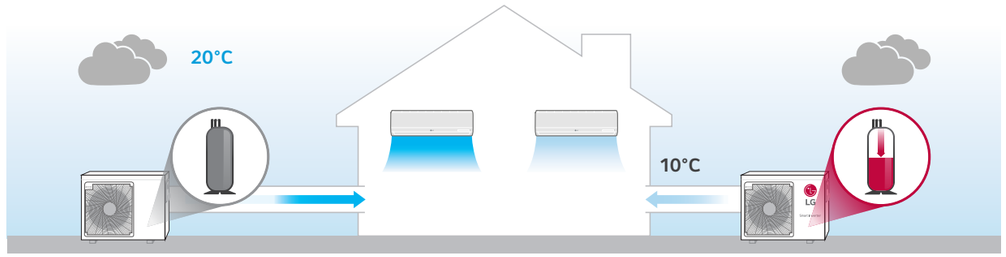
MULTI V M ensures world-class efficiency with innovative technology including the R1 Compressor.

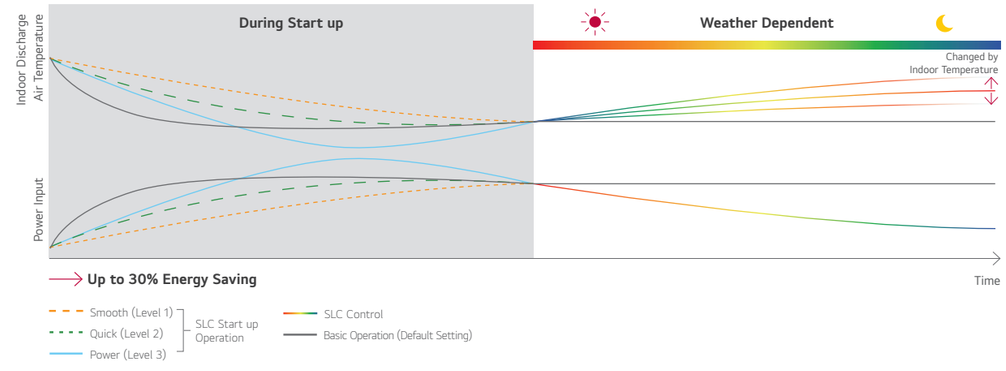


Smart Load Control

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



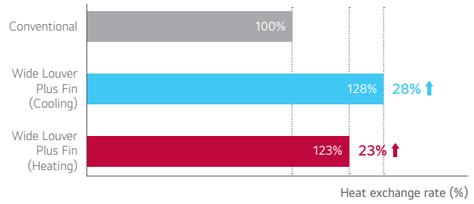




Wide Louver Plus Fin + Corrosion Resistance

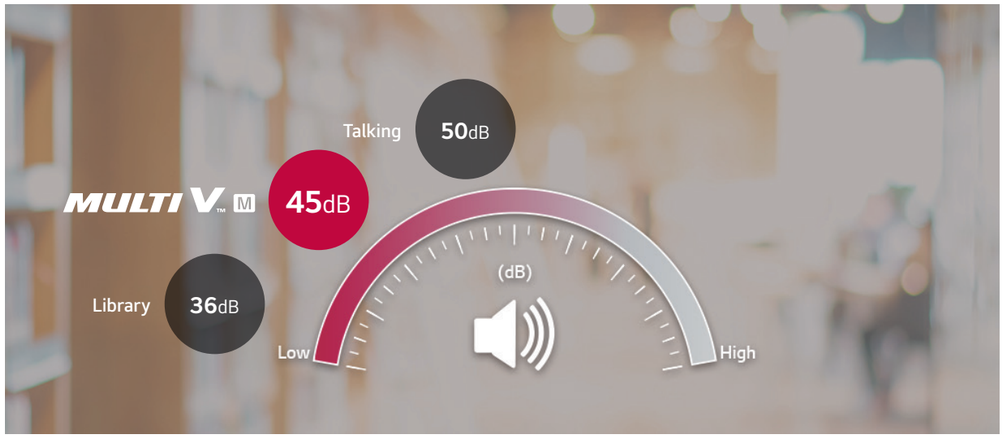
Wide Louver Plus fin technology increases efficiency and heating performance compared to a conventional fin.





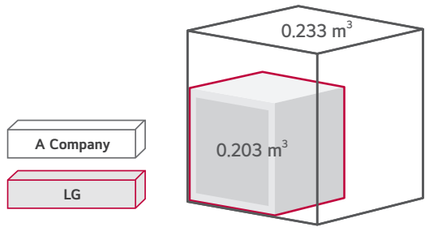
Quiet Operation

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

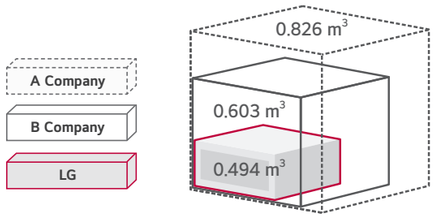


Volume

Compressor Module



Heat Exchanger Module



ESP Control
(External Static Pressure)

up to 30 Pa



Normal Mode

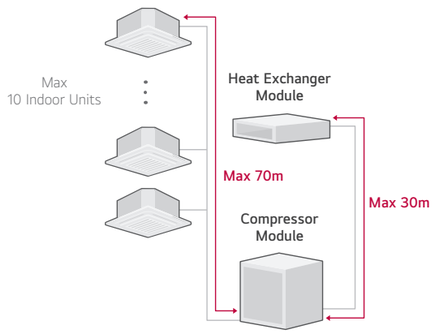
up to 157 Pa (max)



High Static Pressure Mode

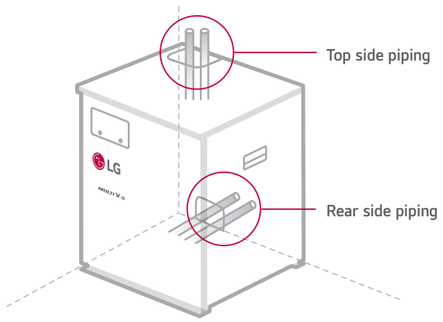
Module Type

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



Flexible Piping Location

Tidy & simple installation with flexible piping location.



Increased Design Freedom

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



Conventional Outdoor Unit



MULTI V™ M

Heat exchanger module can be installed in false ceiling spaces.



Compressor module can be installed anywhere indoors.



Nomenclature

ARU N 050 L M S 0

- Serial number
- Model Type
  S : Set
  C : Compressor Module
  E : Heat Exchanger Module
- Outdoor unit Type
  M : Modular Type
- Electrical Ratings
  L : 3Ø, 380-415V, 50Hz
  G : 1Ø, 220-240V, 50Hz
- Total Cooling Capacity in Horse Power (HP) unit
  EX) 5HP → '050', 8HP → '080'
- Combination of Inverter Type and Cooling Only or Heat Pump
  N: Inverter and H/P, V: Inverter and C/O
- MULTI V System Outdoor Unit using R410A

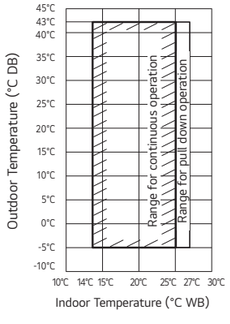
Outdoor Units Function

Category	Functions	Modular
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
	Humidity Sensor	-
	Corrosion Resistance Black Fin	○
	Oil Sensor	-
Useful Function	Dual Sensing	-
	Low Noise Operation	○
	Hgih Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	-
	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	-
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)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP5 (w U60FT)	○
	ACP BACnet	PQNFB17C0
Installation	Refrigerant Charging Kit	-
	Variable Water Flow Valve Control Kit	-
PDI (Power Distribution Indicator)	Standard	-
	Premium	-
Cool / Heat Selector		PRDSBM
Low Ambient Kit		-
IO Module (ODU Dry Contact)		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTIL0
	Mobile LGMV	PLGMVW100

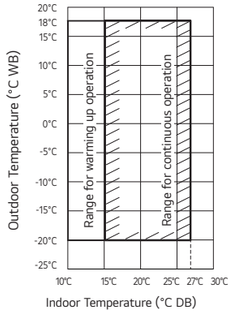
※ ○ : Applied, - : Not Applied

Heat Pump

Cooling

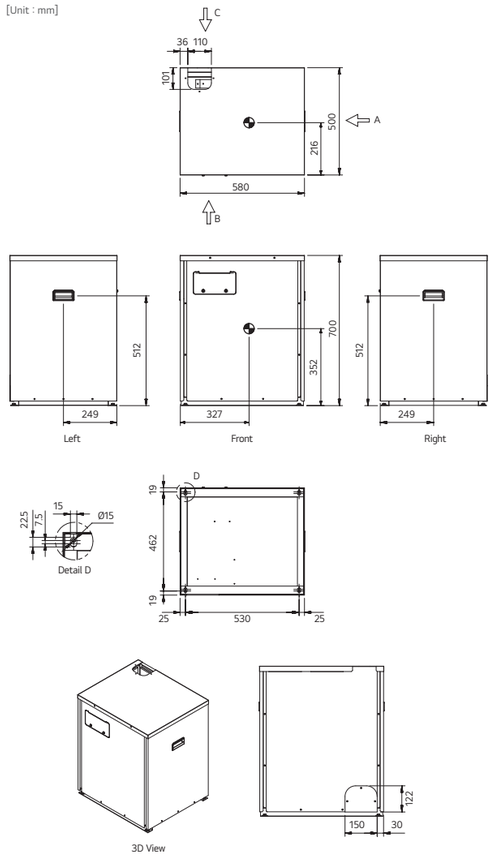


Heating



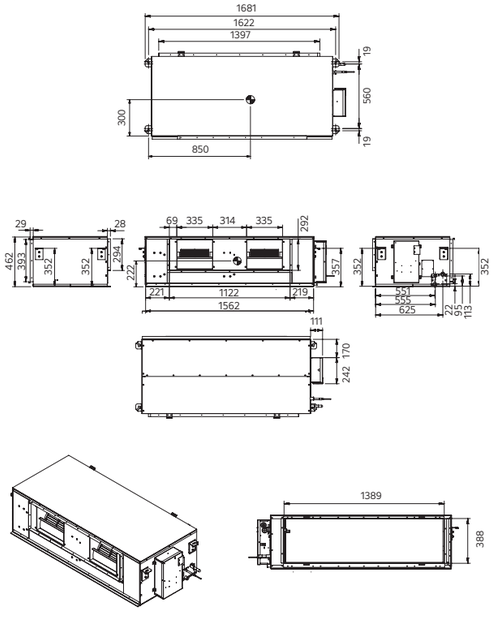
Compressor Module

[Unit : mm]



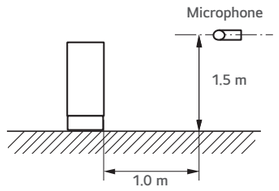
Heat Exchanger Module

[Unit : mm]



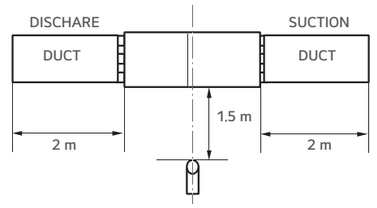
Position of Sound Pressure Level Measuring

Compressor Module



※ Measuring place : Anechoic chamber

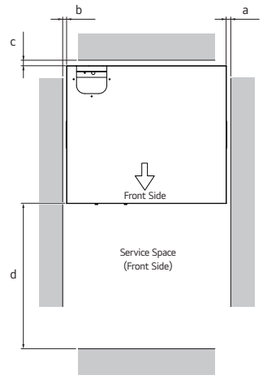
Heat Exchanger Module



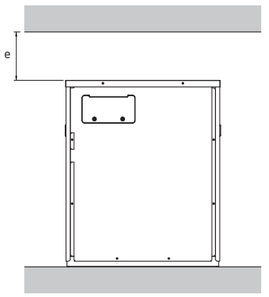
※ Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View



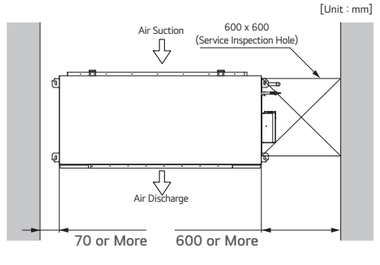
Front View



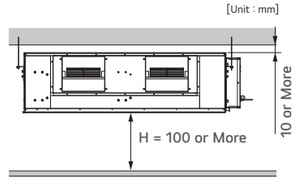
Category	Mark	Description	Installation Space (mm)
Compressor Module	a	Right	10 or More
	b	Left	10 or More
	c	Rear	10 or More
	d	Front	500 or More
	e	Top	200 or More

Installation Space for Compressor Module

Top View



Front View



ARUN050LMC0 / ARUN050GME0





EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

System

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

※ ○ : Applied, - : Not Applied

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

ARUN050LMC0 / ARUN050GME0





EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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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 537 x 825
Weight	Net	kg x No.	69.0	84.0
	Shipping	kg x No.	76.0	95.0
Compressor	Type	-	Hermetic Motor Compressor	-
	Combination x No.	-	(Inverter) x 1	-
	Motor Output	W x No.	3,200	-
	Oil Type	-	FW68L (PVE)	-
	Oil Charge	cc	1,300	-
Heat Exchanger	Type	-	-	Wide Louver Plus
Fan	Type	-	-	Sirocco Fan
	Motor Output x Number	W x No.	-	400 x 2
	Air Flow Rate (Rated)	m^3/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		mm^2 x No. (VCTF-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-CO_2eq	-	4.175	-
	Control	-	-	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	220-240 / 1 / 50

*: Sound Pressure is not a value declared on Eurovent Program.
※ ○ : Applied, - : Not Applied

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

MULTI V™ WATER 5

Highlights

Energy savings

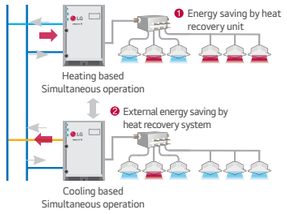
Space savings

Convenience

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

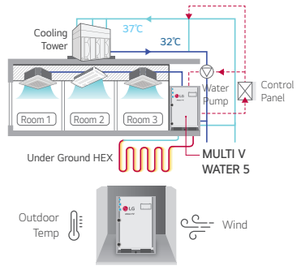
How does it work?

Available in Heat Pump & Heat Recovery Configuration

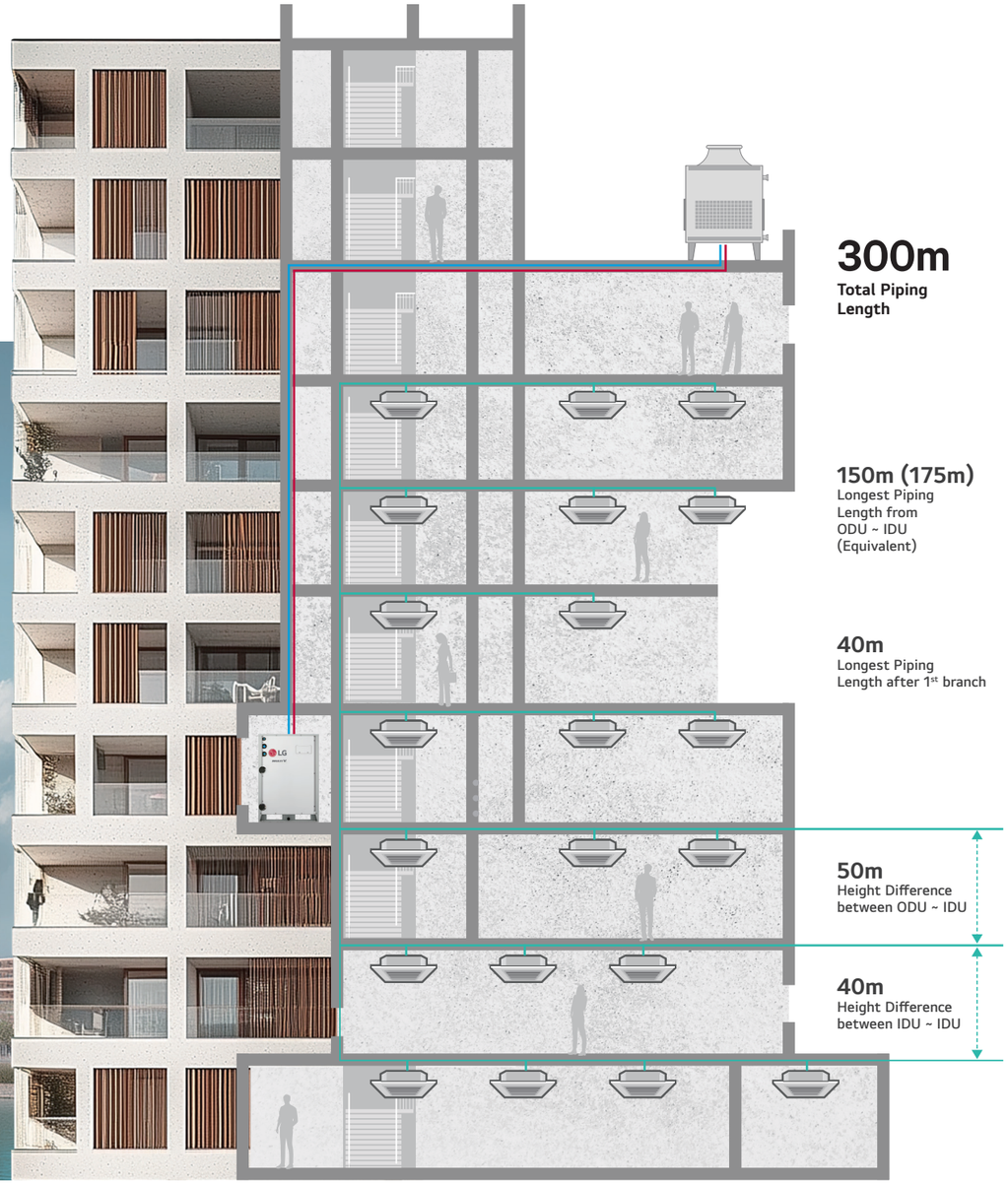


Operation independent of weather conditions

Combination of Cooling, Heating and Hot Water Solution







300m
Total Piping Length

150m (175m)
Longest Piping Length from ODU ~ IDU (Equivalent)

40m
Longest Piping Length after 1st branch

50m
Height Difference between ODU ~ IDU

40m
Height Difference between IDU ~ IDU

High Efficiency System Regardless of External Conditions

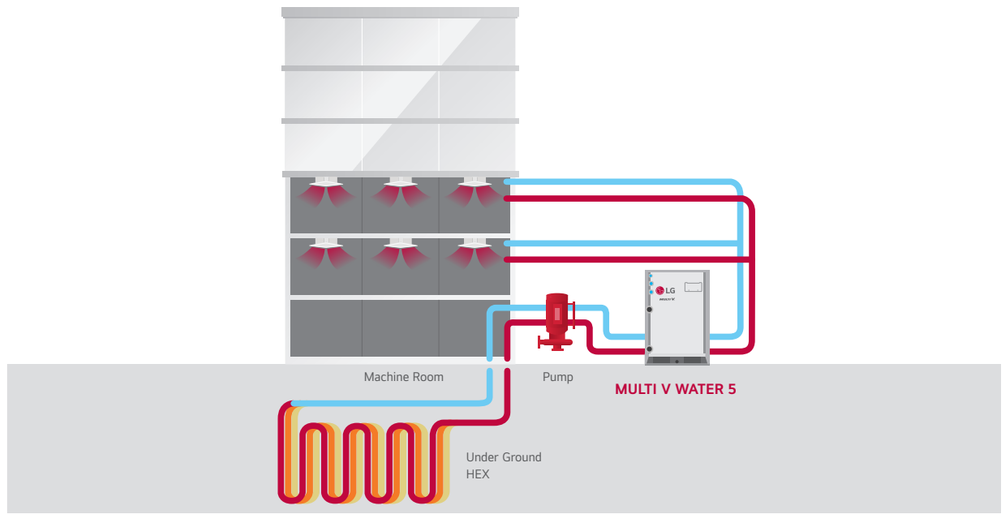
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER 5 is the optimal solution.



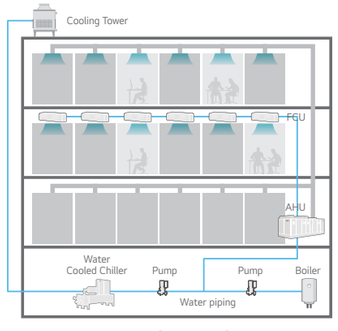
MULTI V WATER 5 System for Geothermal Applications

MULTI V WATER 5 System uses underground heat sources like soil, ground water, lakes, rivers and more as renewable energy for cooling and heating. Water or antifreeze solution is circulated through the closed loop HDPE (High Density Poly-Ethylene) pipes buried beneath the earth's surface.

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

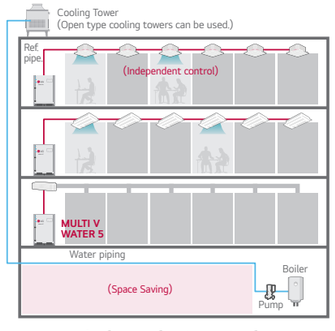


CHILLER - FCU



Central control

MULTI V WATER 5



Independent control

Economical, Highly Efficient System

LG's key technologies are integrated into the inverter compressor

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

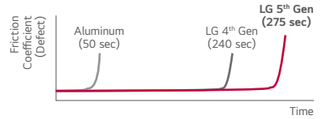


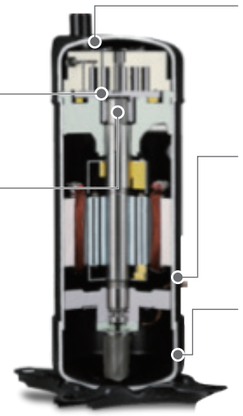
6 By-pass Valve

- Maximize part load efficiency through 6 By-pass Valve
  → High pressure loss reduction in part load operation

Enhanced Bearing Technology

- High lubricity PEEK (Polyether ether keHPe) bearing → Outer bearing
- Compact, less vibration and bearing loading
- Increased bearing performance in oil-less operation





Extended Compressor Speed 20Hz ~ 150Hz

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

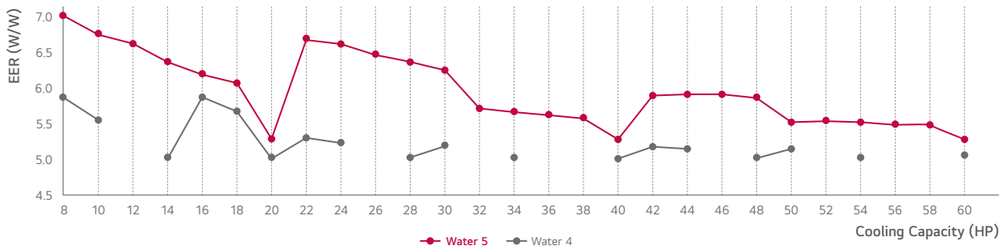
HiPOR™ (High Pressure Oil Return)

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

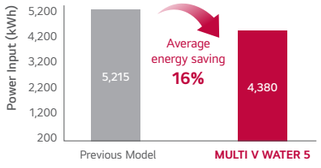
Active Oil Control (Oil Level Sensor)

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

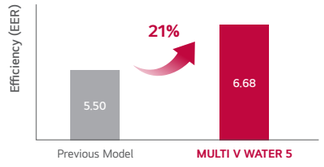
EER Comparison



Economical, Highly Efficient System

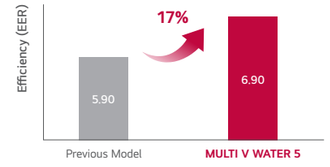


Energy Efficiency Raito (Cooling)



10% HEX Optimization
5% Cycle Composition Improvement
2% Inverter Control
2% Active Oil Control
2% HiPOR™

Coefficient of Perfomance (Heating)



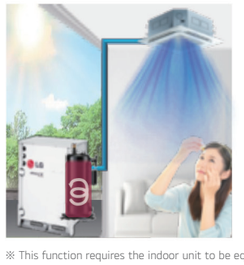
10% HEX Optimization
4% Cycle Composition Improvement
1% Inverter Control
1% Active Oil Control
1% HiPOR™

※ Comparison between 10HP (28kW)

Dual Sensing Control

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

CONVENTIONAL







MULTI V WATER 5



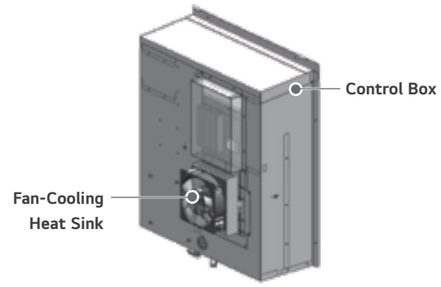


※ This function requires the indoor unit to be equipped with a humidity sensor, the CRC1 remote controller or the Standard III remote controller.

Refrigerant Liquid-cooled Inverter Drive

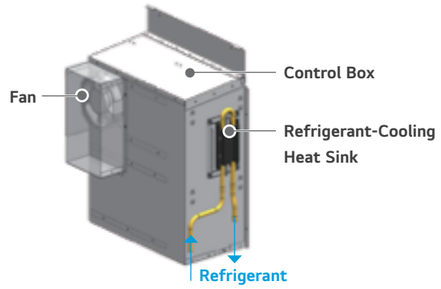
MULTI V WATER 5 can remove heat from inverter PCB through Refrigerant-Cooling Heat Sink

CONVENTIONAL



MULTI V WATER 5

Refrigerant-Cooling Heat Sink
- Removes more heat from inverter PCB.



Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

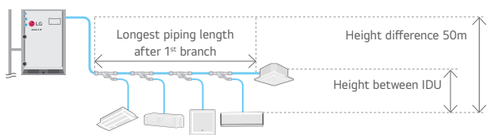
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 60HP (168kW) by combination.

v	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
kW	22.4	28	33.6	39.2	44.8	50.4	56	61.6	67.2	72.8	78.4	84	89.6	95.2	100.8	106.4	112	117.6	123.2	128.8	134.4	140	145.6	151.2	156.8	162.4	168
LG	1 Unit							2 Units										3 Units									

Longest Piping Length

Sufficient pipe length limitation in design and installation for various buildings

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



Total Piping Length	300m (500m)
Actual longest piping length (Equivalent)	175m (225m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	50m
Height difference between IDU ~ IDU	40m

Compact Size

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

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

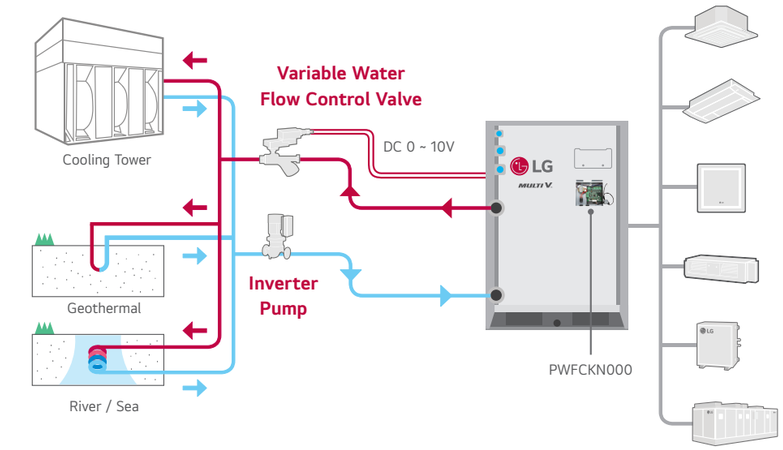


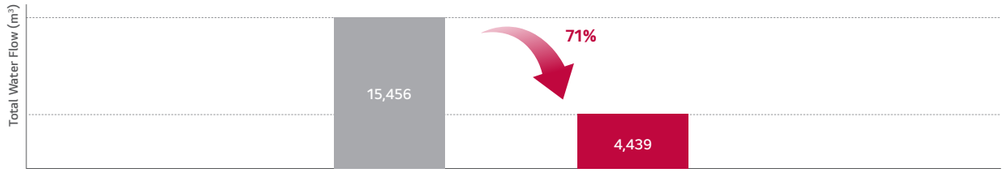
56kW x 2EA
Per each
772 x 547 mm

Variable Water Flow Control
(OPTION)

Supporting green building initiatives

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



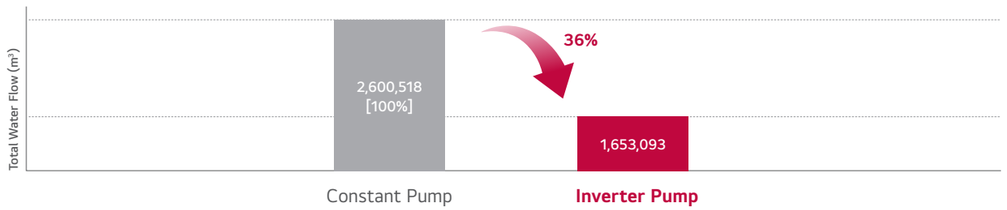


Note
1. Location : Paris, France
2. Office, 68,000m²
3. Operation time : 1,344 hours (Cooling period)

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

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

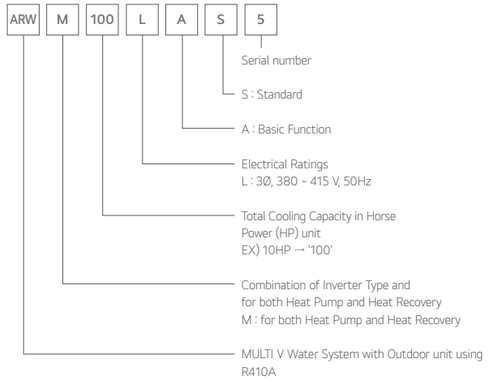
10 years energy cost ($)



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

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

Nomenclature



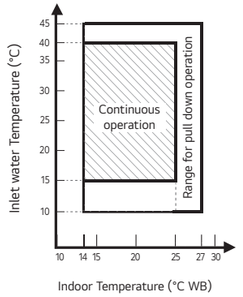
Outdoor Units Function

Category	Functions	MULTI V WATER 5
Key Refrigerant Components	HiPOR™ (High Pressure Oil Return)	○
	Oil Sensor	○
Reliability	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
Central Controller	AC Ez	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP IV	PACP4B000
	ACP 5	PACP5A000
	AC Manager IV	PACM4B000
	AC Manager 5	PACM5A000
Gateway	ACP BACnet	PQNFB17C0
	ACP5 (w U60FT)	○
	Cloud Gateway	PWFMDB200
	Modbus RTU	PMBUSB00A
Intergration Device	IO Module	PVDSMN000
	Variable Water Flow Control Kit	PWFCKN000
	Cool / Heat Selector	PRDSMB
	AHU comm. Kit	PAHCMR000
		PAHCMS000
	AHU Controller Module	PAHCMC000
		PAHCMM000
	AHU Control Kit	PAHCNM000
	EEV Kit	PRLK048A0
		PRLK096A0
		PRLK396A0
		PRLK594A0
	Water comm. Module	-
	PDI Standard	PPWRDB000
	PDI Premium	PQNUD1S40
ETC	DS (Data Saving) Module	PVADTN000

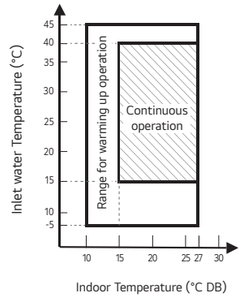
※ ○ : Applied, - : Not Applied

Operation Limits

Cooling

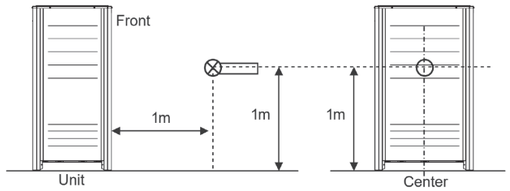


Heating



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

Position of Sound Pressure Level Measuring



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

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

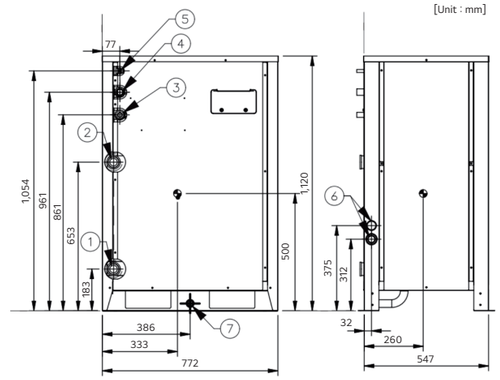
Optional Accessories

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

Dimensions

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

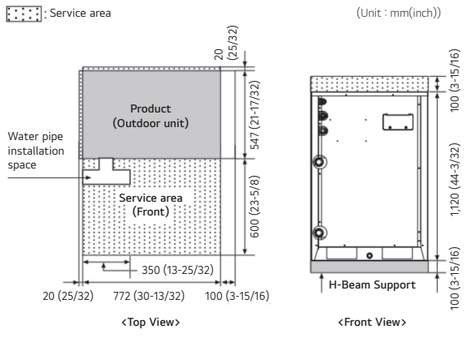
[Unit : mm]



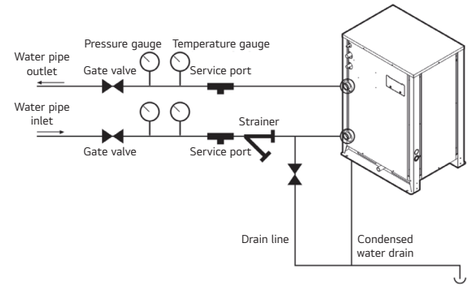
⊕ = Center of Gravity

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

Individual Installation



Water Piping Installation



Precaution of Installation

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

Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application.









Site Information

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

LG Solution

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

ARWM080LAS5 / ARWM100LAS5
ARWM120LAS5



HP			8	10	12
Model Name	Combination Unit	-	ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
	Independent Unit (1)	-	ARWM080LAS5	ARWM100LAS5	ARWM120LAS5
	Independent Unit (2)	-	-	-	-
	Independent Unit (3)	-	-	-	-
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
	Heating (Rated)	kW	25.2	31.5	37.8
Input	Cooling (Rated)	kW	3.25	4.19	5.14
	Heating (Rated)	kW	3.50	4.57	5.56
EER	Rated	-	6.90	6.68	6.54
COP	Rated	-	7.20	6.90	6.80
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45
	Head Loss	kPa	10.6	15.9	22.1
	Rated Water Flow	LPM	77	96	115
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	3,400	3,400	3,400
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.22 (7/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547
Dimensions (W x H x D) - Shipping		mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645
Net Weight		kg	149 x 1	149 x 1	149 x 1
Shipping Weight		kg	157 x 1	157 x 1	157 x 1
Sound Pressure Level	Cooling / Heating	dB(A)	45.0 / 48.0	48.0 / 48.0	48.0 / 51.0
Sound Power Level	Cooling / Heating	dB(A)	57.0 / 60.0	60.0 / 60.0	60.0 / 63.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.5	3.5	3.5
	t-CO_2 eq	-	7.306	7.306	7.306
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			13 (20)	16 (25)	20 (30)

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

ARWM140LAS5 / ARWM160LAS5
ARWM180LAS5



HP			14	16	18
Model Name	Combination Unit	-	ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (1)	-	ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (2)	-	-	-	-
	Independent Unit (3)	-	-	-	-
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	39.2	44.8	50.4
	Heating (Rated)	kW	44.1	50.4	56.7
Input	Cooling (Rated)	kW	6.22	7.32	8.40
	Heating (Rated)	kW	6.78	8.06	8.72
EER	Rated	-	6.30	6.12	6.00
COP	Rated	-	6.50	6.25	6.50
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45
	Head Loss	kPa	29.6	37.7	24.6
	Rated Water Flow	LPM	135	154	173
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	3,400	3,400	3,400
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 (Internal Thread)	PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	772 x 1,120 x 547	772 x 1,120 x 547	772 x 1,120 x 547
Dimensions (W x H x D) - Shipping		mm	820 x 1,245 x 645	820 x 1,245 x 645	820 x 1,245 x 645
Net Weight		kg	149 x 1	149 x 1	158 x 1
Shipping Weight		kg	157 x 1	157 x 1	166 x 1
Sound Pressure Level	Cooling / Heating	dB(A)	52.0 / 53.0	52.0 / 56.0	54.0 / 57.0
Sound Power Level	Cooling / Heating	dB(A)	64.0 / 65.0	64.0 / 68.0	66.0 / 69.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.5	3.5	4.5
	t-CO_2 eq	-	7.306	7.306	9.394
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			23 (35)	26 (40)	29 (45)

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

ARWM200LAS5



ARWM220LAS5
ARWM240LAS5



HP			20	22	24
Model Name	Combination Unit	-	ARWM200LAS5	ARWM220LAS5	ARWM240LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM120LAS5	ARWM120LAS5
	Independent Unit (2)	-	-	ARWM100LAS5	ARWM120LAS5
	Independent Unit (3)	-	-	-	-
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	56.0	61.6	67.2
	Heating (Rated)	kW	63.0	69.3	75.6
Input	Cooling (Rated)	kW	10.69	9.33	10.28
	Heating (Rated)	kW	11.05	10.13	11.12
EER	Rated	-	5.24	6.60	6.54
COP	Rated	-	5.70	6.84	6.80
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45
	Head Loss	kPa	29.9	22.1 + 15.9	22.1 + 22.1
	Rated Water Flow	LPM	192	115 + 96	115 + 115
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	3,400	6,800	6,800
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	772 x 1,120 x 547	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
Dimensions (W x H x D) - Shipping		mm	820 x 1,245 x 645	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Net Weight		kg	158 x 1	149 x 2	149 x 2
Shipping Weight		kg	166 x 1	157 x 2	157 x 2
Sound Pressure Level	Cooling / Heating	dB(A)	55.0 / 56.0	51.0 / 53.0	51.0 / 54.0
Sound Power Level	Cooling / Heating	dB(A)	67.0 / 68.0	64.0 / 66.0	64.0 / 67.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5	3.5 + 3.5	3.5 + 3.5
	t-CO_2 eq	-	9.394	14.613	14.613
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			32 (50)	35 (44)	39 (48)

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

ARWM260LAS5 / ARWM280LAS5
ARWM300LAS5



HP			26	28	30
Model Name	Combination Unit	-	ARWM260LAS5	ARWM280LAS5	ARWM300LAS5
	Independent Unit (1)	-	ARWM140LAS5	ARWM160LAS5	ARWM180LAS5
	Independent Unit (2)	-	ARWM120LAS5	ARWM120LAS5	ARWM120LAS5
	Independent Unit (3)	-	-	-	-
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0
	Heating (Rated)	kW	81.9	88.2	94.5
Input	Cooling (Rated)	kW	11.36	12.46	13.54
	Heating (Rated)	kW	12.34	13.62	14.28
EER	Rated	-	6.41	6.29	6.20
COP	Rated	-	6.64	6.48	6.62
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45
	Head Loss	kPa	29.6 + 22.1	37.7 + 22.1	24.6 + 22.1
	Rated Water Flow	LPM	135 + 115	154 + 115	173 + 115
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	6,800	6,800	6,800
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Net Weight		kg	149 x 2	149 x 2	(158 x 1) + (149 x 1)
Shipping Weight		kg	157 x 2	157 x 2	(166 x 1) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB(A)	53.0 / 55.0	53.0 / 57.0	55.0 / 58.0
Sound Power Level	Cooling / Heating	dB(A)	66.0 / 68.0	66.0 / 70.0	68.0 / 71.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	3.5 + 3.5	3.5 + 3.5	4.5 + 3.5
	t-CO_2 eq	-	14.613	14.613	16.700
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			42 (52)	45 (56)	49 (60)

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

ARWM320LAS5 / ARWM340LAS5
ARWM360LAS5



HP			32	34	36
Model Name	Combination Unit	-	ARWM320LAS5	ARWM340LAS5	ARWM360LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM120LAS5	ARWM140LAS5	ARWM160LAS5
	Independent Unit (3)	-	-	-	-
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	89.6	95.2	100.8
	Heating (Rated)	kW	100.8	107.1	113.4
Input	Cooling (Rated)	kW	15.83	16.91	18.01
	Heating (Rated)	kW	16.61	17.83	19.11
EER	Rated	-	5.66	5.63	5.60
COP	Rated	-	6.07	6.01	5.93
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm^2	45	45	45
	Head Loss	kPa	29.9 + 22.1	29.9 + 29.6	29.9 + 37.7
	Rated Water Flow	LPM	192 + 115	192 + 135	192 + 154
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	6,800	6,800	6,800
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2
Net Weight		kg	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)	(158 x 1) + (149 x 1)
Shipping Weight		kg	(166 x 1) + (157 x 1)	(166 x 1) + (157 x 1)	(166 x 1) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB(A)	56.0 / 57.0	57.0 / 58.0	57.0 / 59.0
Sound Power Level	Cooling / Heating	dB(A)	69.0 / 70.0	70.0 / 71.0	70.0 / 72.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5	4.5 + 3.5	4.5 + 3.5
	t-CO_2 eq	-	16.700	16.700	16.700
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			52 (64)	55 (64)	58 (64)

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

ARWM380LAS5
ARWM400LAS5



ARWM420LAS5



HP			38	40	42
Model Name	Combination Unit	-	ARWM380LAS5	ARWM400LAS5	ARWM420LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM180LAS5	ARWM200LAS5	ARWM140LAS5
	Independent Unit (3)	-	-	-	ARWM080LAS5
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	106.4	112.0	117.6
	Heating (Rated)	kW	119.7	126.0	132.3
Input	Cooling (Rated)	kW	19.09	21.38	20.16
	Heating (Rated)	kW	19.77	22.10	21.33
EER	Rated	-	5.57	5.24	5.83
COP	Rated	-	6.05	5.70	6.20
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	29.9 + 24.6	29.9 + 29.9	29.9 + 29.6 + 10.6
	Rated Water Flow	LPM	192 + 173	192 + 192	192 + 135 + 77
Compressor	Type	-	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.	-	(Inverter) x 2	(Inverter) x 2	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 3
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	6,800	6,800	10,200
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 2	(772 x 1,120 x 547) x 3
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 2	(820 x 1,245 x 645) x 3
Net Weight		kg	158 x 2	158 x 2	(158 x 1) + (149 x 2)
Shipping Weight		kg	166 x 2	166 x 2	(166 x 1) + (157 x 2)
Sound Pressure Level	Cooling / Heating	dB(A)	58.0 / 60.0	58.0 / 59.0	57.0 / 58.0
Sound Power Level	Cooling / Heating	dB(A)	71.0 / 73.0	71.0 / 72.0	71.0 / 72.0
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5	4.5 + 4.5	4.5 + 3.5 + 3.5
	t-CO_2 eq	-	18.788	18.788	24.006
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			61 (64)	64	64

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

ARWM440LAS5 / ARWM460LAS5
ARWM480LAS5



HP			44	46	48
Model Name	Combination Unit	-	ARWM440LAS5	ARWM460LAS5	ARWM480LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM140LAS5	ARWM140LAS5	ARWM140LAS5
	Independent Unit (3)	-	ARWM100LAS5	ARWM120LAS5	ARWM140LAS5
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	123.2	128.8	134.4
	Heating (Rated)	kW	138.6	144.9	151.2
Input	Cooling (Rated)	kW	21.10	22.05	23.13
	Heating (Rated)	kW	22.40	23.39	24.61
EER	Rated	-	5.84	5.84	5.81
COP	Rated	-	6.19	6.19	6.14
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	29.9 + 29.6 + 15.9	29.9 + 29.6 + 22.1	29.9 + 29.6 + 29.6
	Rated Water Flow	LPM	192 + 135 + 96	192 + 135 + 115	192 + 135 + 135
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 3	5,300 x 3	5,300 x 3
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	10,200	10,200	10,200
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)	(158 x 1) + (149 x 2)
Shipping Weight		kg	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)	(166 x 1) + (157 x 2)
Sound Pressure Level	Cooling / Heating	dB(A)	57.0 / 58.0	57.0 / 59.0	58.0 / 59.0
Sound Power Level	Cooling / Heating	dB(A)	71.0 / 72.0	71.0 / 73.0	72.0 / 73.0
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5	4.5 + 3.5 + 3.5
	t-CO_2 eq	-	24.006	24.006	24.006
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			64	64	64

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

ARWM500LAS5 / ARWM520LAS5
ARWM540LAS5



HP			50	52	54
Model Name	Combination Unit	-	ARWM500LAS5	ARWM520LAS5	ARWM540LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)	-	ARWM100LAS5	ARWM120LAS5	ARWM140LAS5
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2
	Heating (Rated)	kW	157.5	164	170.1
Input	Cooling (Rated)	kW	25.57	27	27.60
	Heating (Rated)	kW	26.67	27.66	28.88
EER	Rated	-	5.48	5.49	5.48
COP	Rated	-	5.91	5.92	5.89
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	29.9 + 29.9 + 15.9	29.9 + 29.9 + 22.1	29.9 + 29.9 + 29.6
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 115	192 + 192 + 135
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 3	5,300 x 3	5,300 x 3
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	10,200	10,200	10,200
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)	(158 x 2) + (149 x 1)
Shipping Weight		kg	(166 x 2) + (157 x 1)	(166 x 2) + (157 x 1)	(166 x 2) + (157 x 1)
Sound Pressure Level	Cooling / Heating	dB(A)	59.0 / 59.0	59.0 / 60.0	59.0 / 60.0
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 73.0	73.0 / 74.0	73.0 / 74.0
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5	4.5 + 4.5 + 3.5
	t-CO_2 eq	-	26.094	26.094	26.094
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			64	64	64

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

ARWM560LAS5 / ARWM580LAS5
ARWM600LAS5



HP			56	58	60
Model Name	Combination Unit	-	ARWM560LAS5	ARWM580LAS5	ARWM600LAS5
	Independent Unit (1)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (2)	-	ARWM200LAS5	ARWM200LAS5	ARWM200LAS5
	Independent Unit (3)	-	ARWM160LAS5	ARWM180LAS5	ARWM200LAS5
	Independent Unit (4)	-	-	-	-
Capacity	Cooling (Rated)	kW	156.8	162.4	168.0
	Heating (Rated)	kW	176.4	182.7	189.0
Input	Cooling (Rated)	kW	28.70	29.78	32.07
	Heating (Rated)	kW	30.16	30.82	33.15
EER	Rated	-	5.46	5.45	5.24
COP	Rated	-	5.85	5.93	5.70
Exterior	Color	-	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Heat Exchanger	Type	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm²	45	45	45
	Head Loss	kPa	29.9 + 29.9 + 37.7	29.9 + 29.9 + 24.6	29.9 + 29.9 + 29.9
	Rated Water Flow	LPM	192 + 192 + 154	192 + 192 + 173	192 + 192+ 192
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 3	5,300 x 3	5,300 x 3
	Oil Type	-	FW68L (PVE)	FW68L (PVE)	FW68L (PVE)
	Oil Charge	cc	10,200	10,200	10,200
Refrigerant Connecting Pipes	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Water Connecting Pipes	Inlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Outlet	mm	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	mm	PT 20 (External Thread)	PT 20 (External Thread)	PT 20 (External Thread)
Dimensions (W x H x D) - Net		mm	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3	(772 x 1,120 x 547) x 3
Dimensions (W x H x D) - Shipping		mm	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3	(820 x 1,245 x 645) x 3
Net Weight		kg	(158 x 2) + (149 x 1)	158 x 3	158 x 3
Shipping Weight		kg	(166 x 2) + (157 x 1)	166 x 3	166 x 3
Sound Pressure Level	Cooling / Heating	dB(A)	59.0 / 61.0	60.0 / 61.0	60.0 / 61.0
Sound Power Level	Cooling / Heating	dB(A)	73.0 / 75.0	74.0 / 75.0	74.0 / 75.0
Communication Cable		mm² x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.5 + 4.5 + 3.5	4.5 + 4.5 + 4.5	4.5 + 4.5 + 4.5
	t-CO_2 eq	-	26.094	28.181	28.181
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V / Ø / Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Number of Maximum Connectable Indoor Units			64	64	64

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

INDOOR UNITS

Wall mounted	126
Ceiling mounted cassette	140
Ceiling mounted round cassette	160
Ceiling concealed duct	164
Fresh air intake	177
Ceiling suspended	180
Console & floor standing	184
Floor standing (PAC)	191
Compatibility & feature functions	194



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	○	○	○
Energy Efficiency	Energy Display	○	○	○
Fast Cooling & Heating	Jet Cool	○	○	○
	Auto Swing (Up & Down)	○	○	○
Health	Ionizer	○	-	○ ~7.1kW Only
	Pre Filter	○	○	○
	Auto Cleaning	○	○	○
Comfort	Sleep Mode	○	○	○
	Timer (On / Off)	○	○	○
	Timer (Weekly)	○	○	○
	Two Thermistor Control	○	○	○
	Group Control	○	○	○

※ ○: Applied, - : Not applied

Wi-Fi Control

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

ThinQ

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

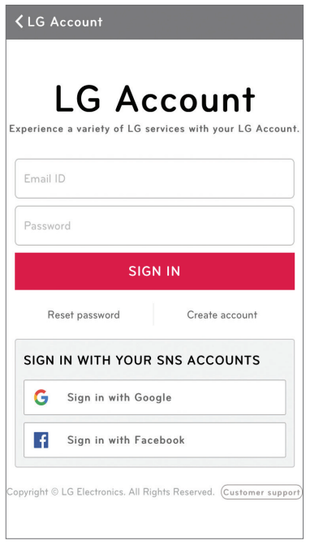
Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Easy Registration and Log-in

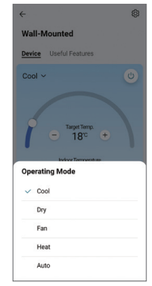
Follow the easy set-up steps that will activate ThinQ's user-friendly features.



Simple Operation for Various Functions



On / Off, Current Temp



Mode, Set Temp



Vane Control

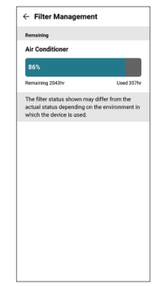
Straight forward Management



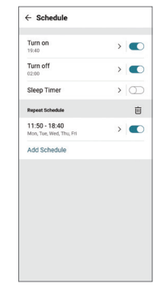
Energy Monitoring



Smart Diagnosis



Filter Management



Reservation

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

Wi-Fi Control

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

ThinQ

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

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



Wi-Fi Connectivity

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

Multiple Devices



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

Multi-Control



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

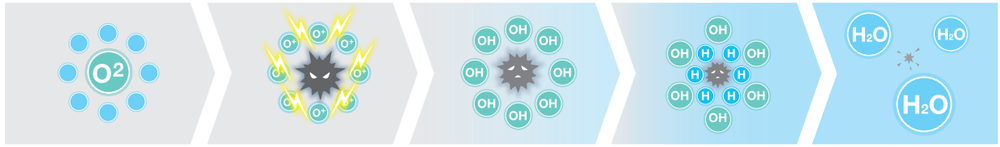
Ionizer^{PLUS}

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

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

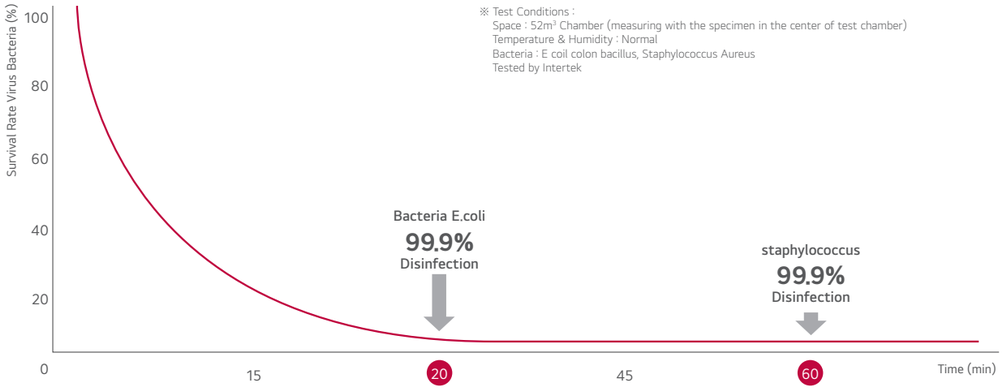
Reduction and Deodorization (Utilizes Over 8 Million Ions)

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



Reduction Performance Evaluations

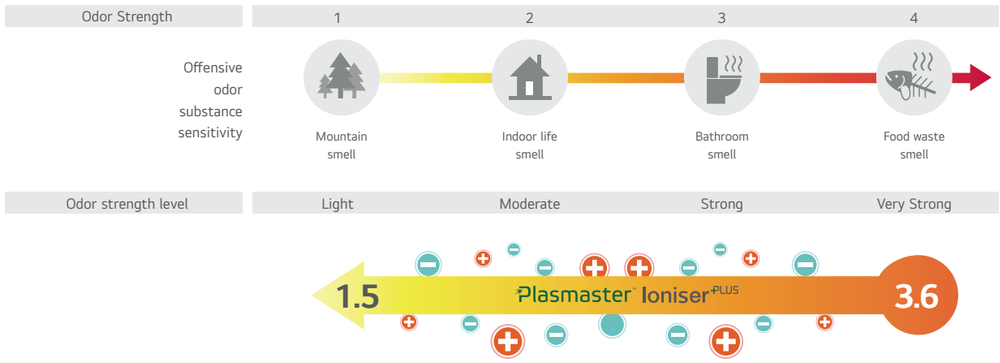
Reduce Bacteria E.coli by over 99.9% in 20 min, and staphylococcus by over 99.9% in 60min.



※ Test Conditions :
Space : 52m³ Chamber (measuring with the specimen in the center of test chamber)
Temperature & Humidity : Normal
Bacteria : E coil colon bacillus, Staphylococcus Aureus
Tested by Intertek

2.1 odor strength decrease in 60 minutes

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



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

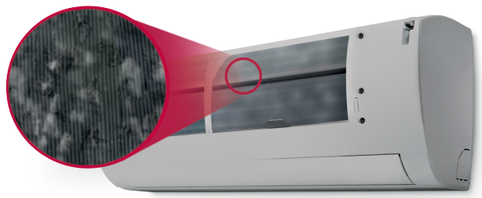
※ Test conditions : Space: 8m³ Chamber
Temperature & Humidify : Normal
Tested by Intertek

Auto Cleaning

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

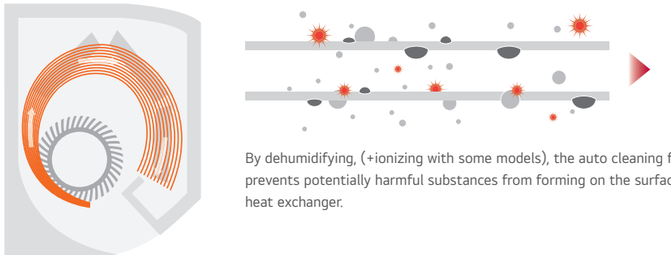
Pain Point

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

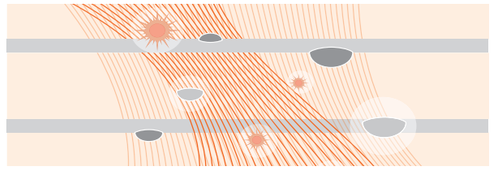


Cleans Filter with Regular Airflow

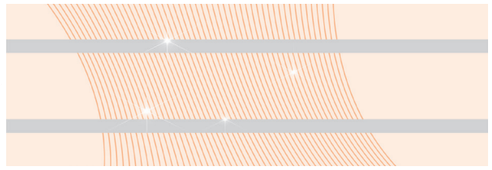
The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger.



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



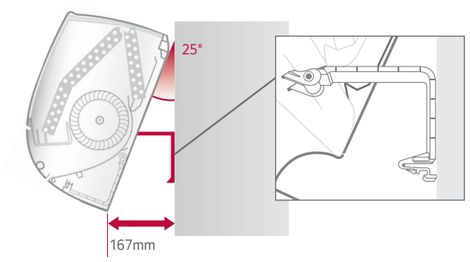
The indoor environment remains odorless with the advanced deodorizing function.



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

Installation Support Clip

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



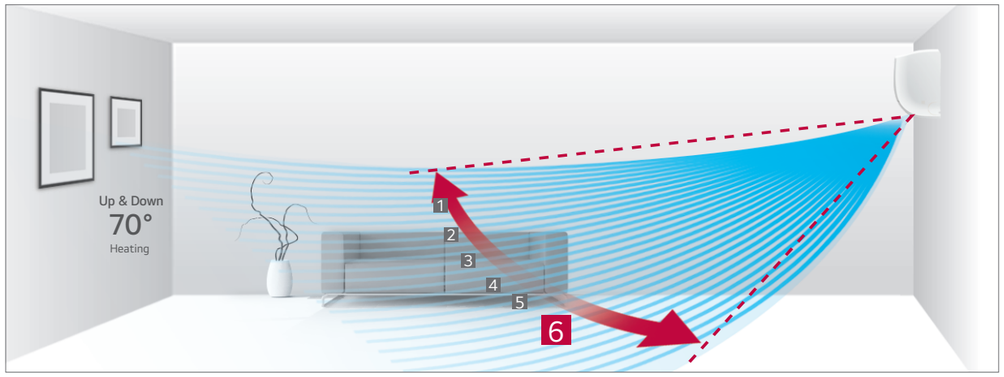
Auto Swing

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

※ Specifications may vary for each model.

6-Step Vane Control Up to 70°

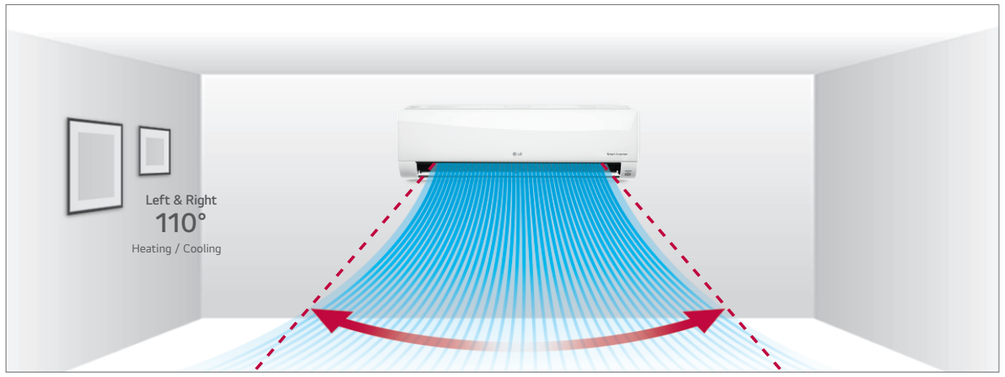
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control Up to 110°

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

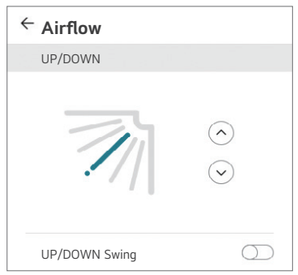


※ Angle can be different from each model and working mode.

Easy and Simple Control

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

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



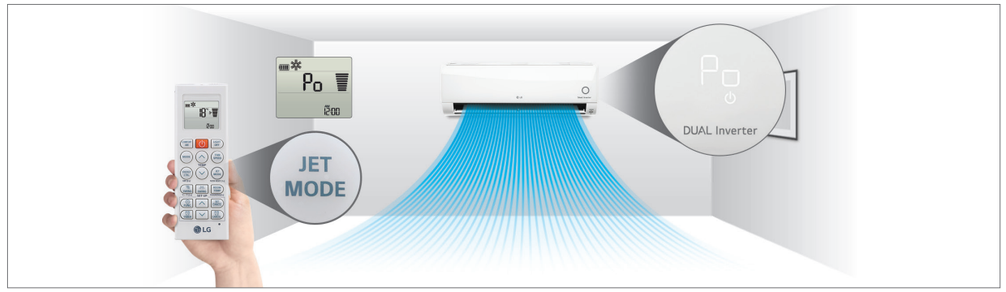
Jet Cool

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

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

One Click "Jet Mode"

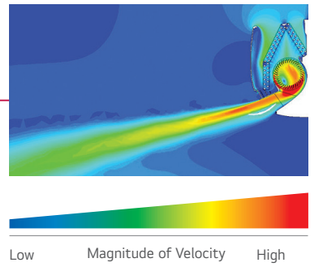
Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



More Powerful Performance

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

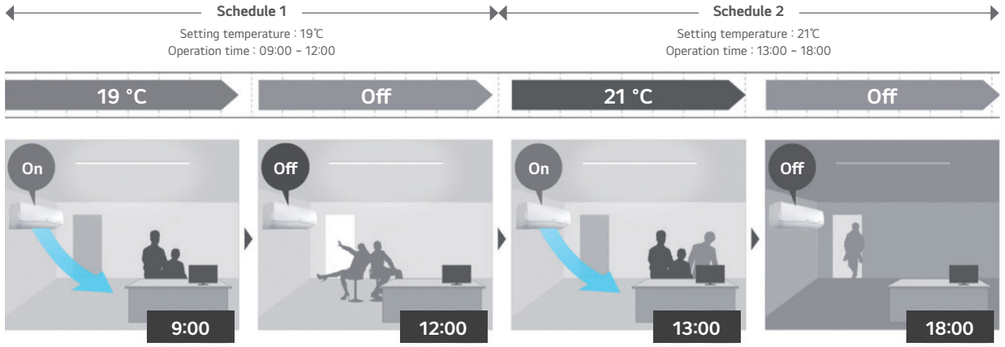




Scheduled Operation

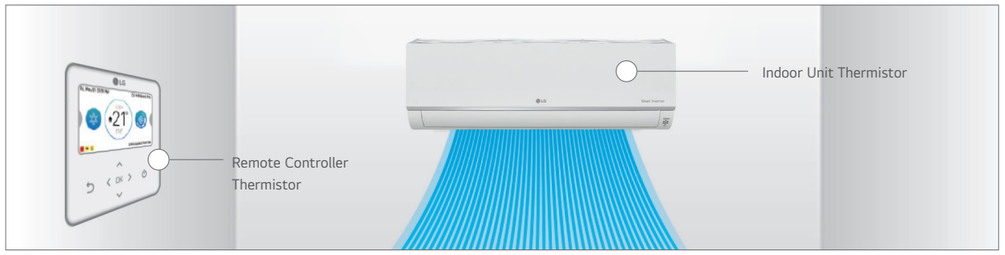
You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user.

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



Two Thermistors Control

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



Group Control

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



ARNU05GSJR4 / ARNU07GSJR4
ARNU09GSJR4 / ARNU12GSJR4
ARNU15GSJR4



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

Note :
1. 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	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	PRGK024A0				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	○				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	○				

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

ARNU18GSKR4 / ARNU24GSKR4



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

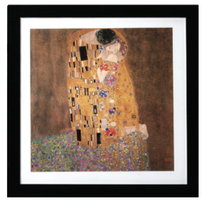
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
   - Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
   - Heating : Indoor temp. 20℃ (68℉) DB / 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	ARNU18GSKR4	ARNU24GSKR4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	○	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	○	

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

ARNU07GSF14 / ARNU09GSF14
ARNU12GSF14



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

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

Accessories

CHASSIS	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leak Detector	PRLDNVS0 (R410A)		
EEV Kit	PRGK024A0		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200[1)]		

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

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



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

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

Accessories

CHASSIS	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	PRGK024A0				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	○				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	○				

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

ARNU18GSK*4 / ARNU24GSK*4



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

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

Accessories

CHASSIS	ARNU18GSK*4	ARNU24GSK*4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	○	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	○	

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

ARNU30GSRA4 / ARNU36GSRA4



MODEL		UNIT	ARNU30GSRA4	ARNU36GSRA4
Cooling Capacity		kW	8.8	10.4
Heating Capacity		kW	9.4	10.8
Power Input (H / M / L)	Nominal	W	47.0 / 42.0 / 36.0	65.0 / 47.0 / 42.0
Exterior Color		-	Magic White	Magic White
RAL Code		-	RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	1,200 x 360 x 265	1,200 x 360 x 265
	Shipping	mm	1,280 x 360 x 455	1,280 x 360 x 455
Fan	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	113 x 1	113 x 1
	Air Flow Rate (H / M / L)	m^3/min	21.0 / 17.0 / 13.0	25.0 / 21.0 / 17.0
	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)	Ø14.5 (9/16)	Ø14.5 (9/16)
Weight	Body	kg	16.6	16.6
Sound Pressure Levels (H / M / L)		dB(A)	46.0 / 42.0 / 38.0	51.0 / 46.0 / 42.0
Sound Power Levels (H / M / L)		dB(A)	60.0 / 55.0 / 50.0	63.0 / 60.0 / 55.0
Power Supply		V / Ø / Hz	220 - 240, 1, 50 - 60	220 - 240, 1, 50 - 60
Transmission Cable		mm^2	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	ARNU30GSRA4	ARNU36GSRA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	○	

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



Features & Benefits

- New DUAL Vane 4 Way cassette allows comfortable air flow
- Full 3D Turbo fan decreases air resistance, providing high air flow and low sound levels.

Key Applications

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

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

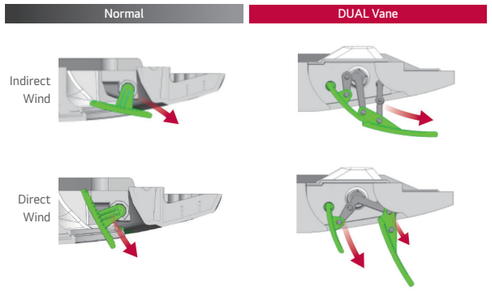
※ ○: Applied, - : Not applied

4 Way Air Flow with New Design

New 4 Way DUAL Vane design promotes comfortable and convenient airflow.



New wind types



6 Airflow mode

- Fast and Quick **Power Mode**
- Fresh and Natural **Up / Down Swing**
- Auto Vane Control **Smart Mode**
- Indirect cooling & Heating **Indirect Wind**
- Suitable for High Ceiling **Direct Wind**
- Provide high concentration **Refresh Mode**

Brighter Color

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

Normal Ivory

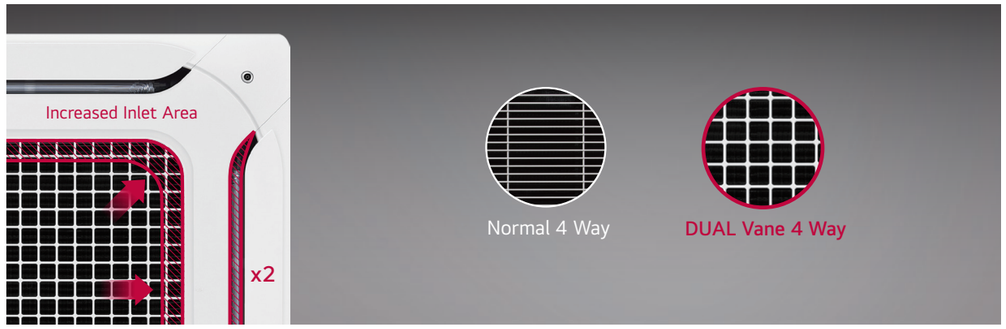


DUAL Vane White



Wide Design

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



Full 3D Turbo Fan

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

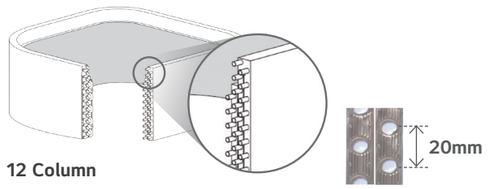
Normal Ivory	DUAL Vane White



High Efficiency Heat Exchanger (HEX)

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

Normal Ø7 HEX	High Efficient Ø5 HEX



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 comfortable 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.



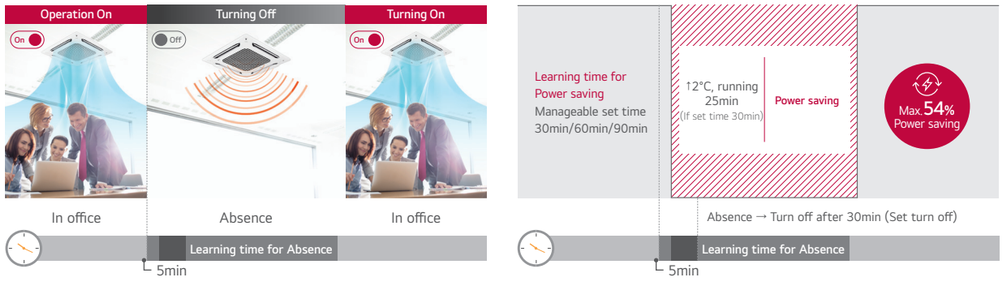
Direct cooling

Provides air flow that blows directly onto user for cooling.



Human Detection for Optimized Efficiency

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



※ Smart DUAL Vane Indoor Unit '19 Line up.
※ Data Based on actual test of LG, single product 2 hours measurement result. (Cooling 26 ℃, 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

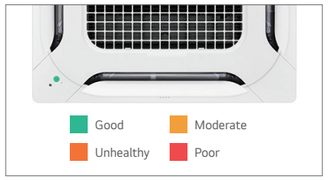
Pre-filter	PM1.0 Filter	Deodorization Filter
Washable	6 months / Washable	6 months / Dry in sunlight

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



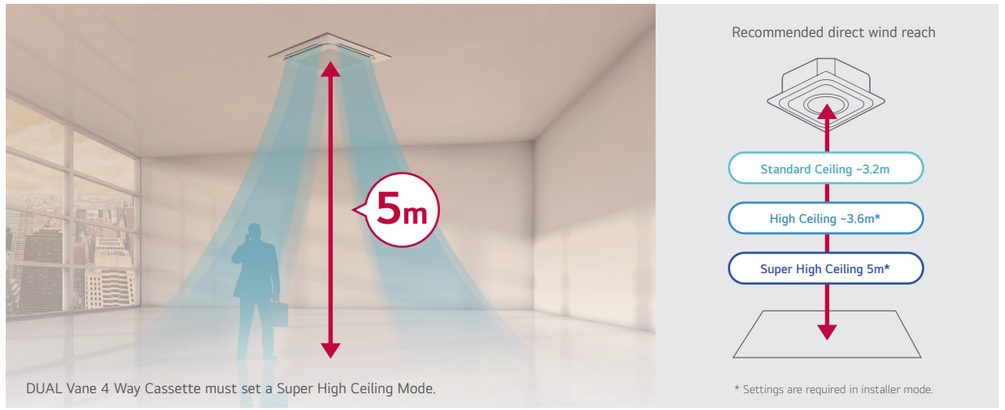
③ Mobile

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



Direct Wind

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



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

* Settings are required in installer mode.

ThinQ Connectivity

Connect to IDU with LG ThinQ regardless time and place



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

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

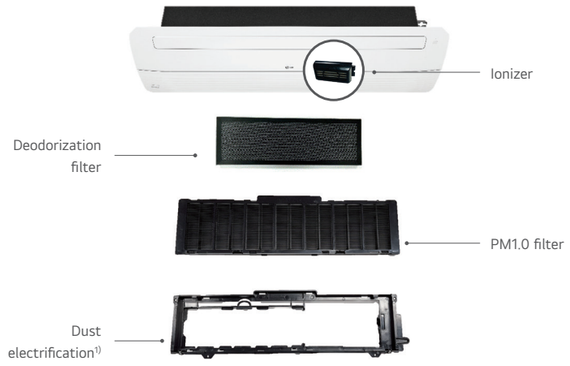
③ Display Power Consumption : Check power consumption of A/C
- Check energy display
- Set target energy consumption level

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

Easy Filter Cleaning for Air Purification

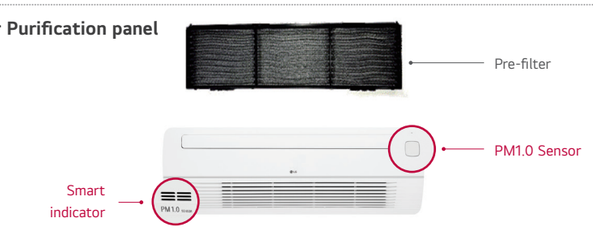
Air Purification Kit filters do NOT need replacement and can be used semi-permanently.
Also, thanks to easy maintenance, users can use air purification conveniently without any worries regarding their filter's cleanliness.

Air Purification kit





Air Purification panel



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

Direct & Indirect Wind

Provides users with direct or indirect air flow preferences.

Comfort indirect wind

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

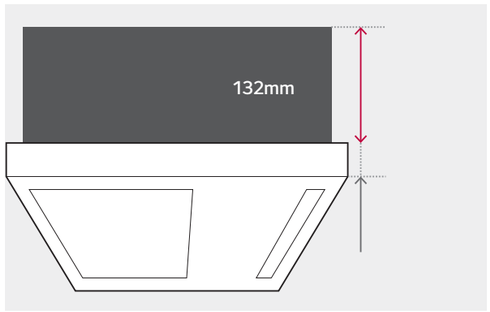


Cooler on a hot day.



Minimized Height (1 Way)

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



Size Comparison

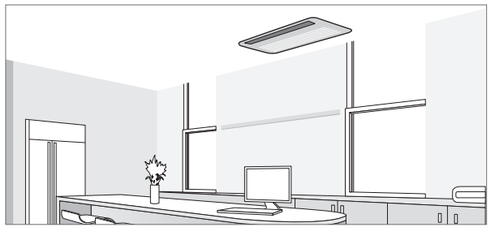
(Unit : mm)

	A Company	B company	LG
1 Way Cassette	215	230	132

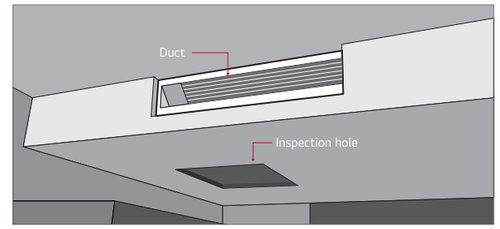
Flexible Installation (1 Way)

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

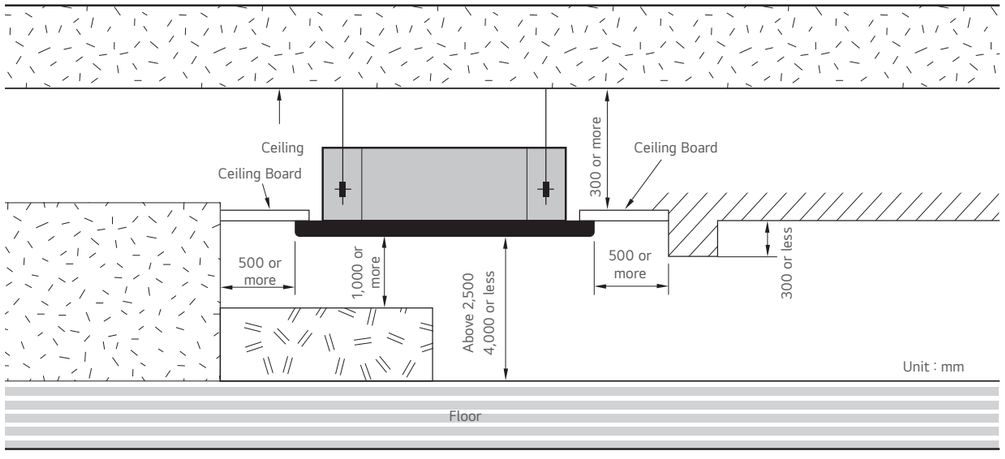
1 Way cassette



Duct



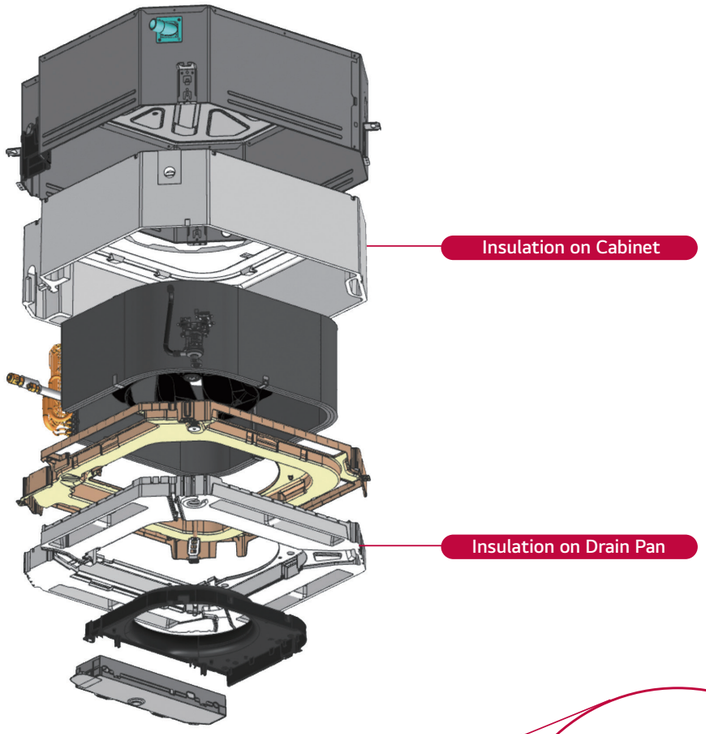
Installation Standard (1 Way)

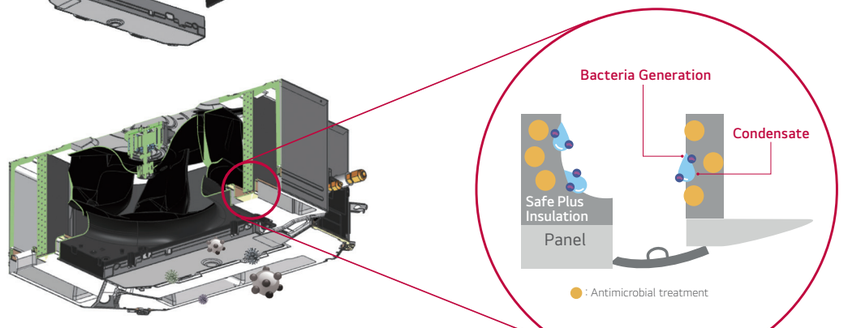


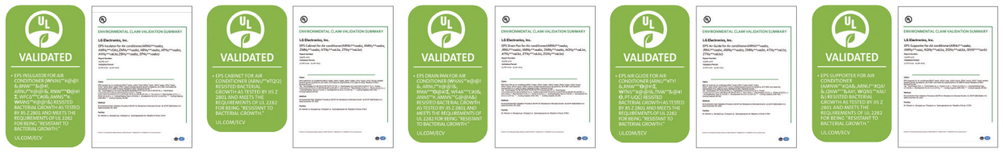
Safe Plus Insulation

Why LG Safe Plus Insulation?

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







EPS Insulator | EPS Cabinet | EPS Drain Pan | EPS Air Guide | EPS Supporter

What's the hygiene inside of your air conditioner?

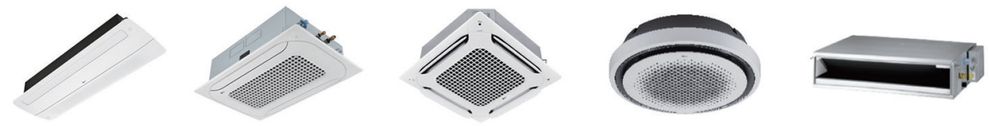


Example of EPS Pollution case.

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

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

EPS for Resistant to Bacterial Growth applied product



ARNU24GTBB4 / ARNU28GTBB4
ARNU30GTBB4



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

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
 - Cooling : Indoor temp. 27℃ (80.6℉) 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	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Drain Pump	○		
Cassette Cover	PTDCA		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	-		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	PAS-NATDR2		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	PTVSAA0		
Floor Temperature Sensor	PTFSMA0		
Air Purification Kit	PTAHMP0 (PT-AFGW0 panel required)		
Elevation Grille	PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)		

ARNU36GTAB4 / ARNU42GTAB4
ARNU48GTAB4



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

Note : 1. Performance tested under EN14511
2. Capacities are based on the following conditions
 - Cooling : Indoor temp. 27℃ (80.6℉) 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	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Drain Pump	○		
Cassette Cover	PTDCA		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	-		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	PAS-NATDR2		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	PTVSAA0		
Floor Temperature Sensor	PTFSMA0		
Air Purification Kit	PTAHMP0 (PT-AFGW0 panel required)		
Elevation Grille	PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)		

High sensible

ARNU05GTAA4 / ARNU07GTAA4 / ARNU09GTAA4
ARNU12GTAA4 / ARNU15GTAA4 / ARNU18GTAA4



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

Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling : Indoor temp. 27℃ (80.6℉) 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	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Drain Pump	○					
Cassette Cover	PTDCA					
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)					
EEV Kit	-					
Multi-tenant Power Module	PINPMB001					
Robot Cleaner	-					
Pre Filter (Washable)	○					
Ion Generator	PAS-NATDR2					
CO_2 Sensor	-					
Ventilation Kit	-					
IR Receiver	-					
Zone Controller	-					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 Point)	○					
Wi-Fi	PWFMDD200					
Human Detection Sensor	PTVSAA0					
Floor Temperature Sensor	PTFSMA0					
Air Purification Kit	PTAHMP0 (PT-AFGW0 panel required)					
Elevation Grille	-					

High sensible

ARNU24GTAA4 / ARNU28GTAA4 / ARNU36GTAA4
ARNU42GTAA4 / ARNU48GTAA4



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

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

Accessories

CHASSIS	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Drain Pump	○				
Cassette Cover	PTDCA				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	-				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	PAS-NATDR2				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 Point)	○				
Wi-Fi	PWFMDD200				
Human Detection Sensor	PTVSAA0				
Floor Temperature Sensor	PTFSMA0				
Air Purification Kit	PTAHMP0 (PT-AFGW0 panel required)				
Elevation Grille	PT-AEGW0.ENCXLEU (Panel), PTVK440.ENCXLEU (Kit)				

ARNU05GTRB4 / ARNU07GTRB4
ARNU09GTRB4 / ARNU12GTRB4



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

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

Accessories

CHASSIS	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit	PRGK024A0 (~4.5kW)			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	PAS-NATDR2			
CO_2 Sensor	-			
Ventilation Kit	PTVK430			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

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

ARNU15GTQB4 / ARNU18GTQB4
ARNU21GTQB4



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

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

Accessories

CHASSIS	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	PRGK024A0 (~4.5kW)		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	PAS-NATDR2		
CO_2 Sensor	-		
Ventilation Kit	PTVK430		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200		

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

ARNU09GTSC4 / ARNU12GTSC4



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

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

Accessories

CHASSIS	ARNU09GTSC4	ARNU12GTSC4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0 (~5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU18GTSC4 / ARNU24GTSC4



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

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

Accessories

CHASSIS	ARNU18GTSC4	ARNU24GTSC4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0 (~5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU07GTUB4 / ARNU09GTUB4
ARNU12GTUB4



MODEL		UNIT	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450
	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538
Fan	Type	-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m^3/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2
	Motor Type	-	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.2	12.2	12.2
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32
Sound Power Levels (H / M / L)		dB(A)	47 / 44 / 41	51 / 49 / 47	52 / 51 / 47
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	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 tested under EN14511
2. Capacities are based on the following conditions
   - Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
   - Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	PRGK024A0		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Air Purification Kit	PTAHTP0		
Wi-Fi	PWFMDD200		

※ ○ : 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)	m^3/min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor Type	-	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	15.3	15.3
Sound Pressure Levels (H / M / L)		dB(A)	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB(A)	55 / 51 / 47	58 / 53 / 49
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
   - Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU18GTTB4	ARNU24GTTB4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Air Purification Kit	PTAHTP0	
Wi-Fi	PWFMDD200	

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



Features & Benefits

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

Key Applications

- Retail
- Office
- Restaurant
- Hotel

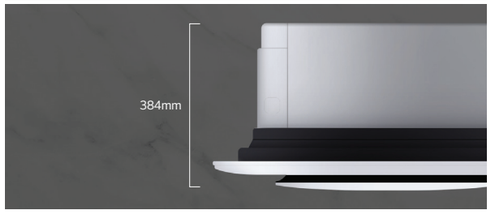
CASSETTE		ROUND
Smart	Wi-Fi	○
Energy Efficiency	Human Detect Sensor	-
Comfort	Drain Pump	○
	Sleep Mode	○
	Timer (On / Off)	○
	Timer (Weekly)	○
	Two Thermistor Control	○
	Group Control	○

※ ○: Applied, - : Not applied

Slim and Compact Design

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

Other Brand



※ Product : 48 kBtu

LG Round Cassette

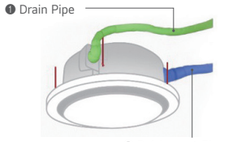


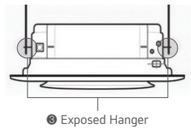
15% less body height helps the ceilings remain high

Minimal Exposure Design

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

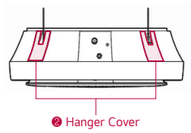
Other Brand





LG Round Cassette



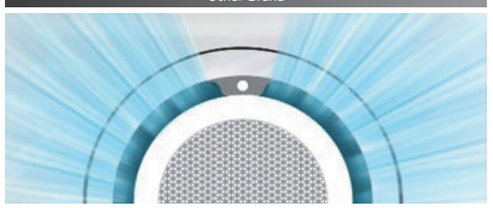


Perfect Round Air Flow

Perfect round flow without blind spots.



Other Brand



3 Way airflow with blind spot.

LG Round Cassette

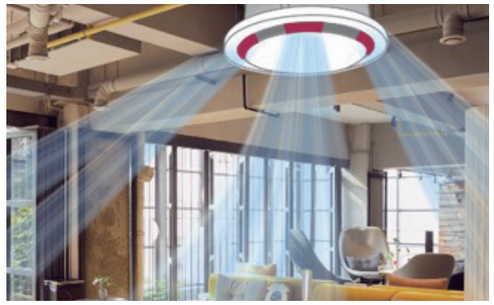


Perfect circular airflow without blind spots.

Visible Air Flow

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

Other Brand



Wind direction control ❶ ❷ ❸

LG Round Cassette



Wind direction control ❶ ❷ ❸ ❹ ❺ ❻

Powerful and Quiet Air Flow

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

Full 3D Fan, Air flow rate 5% ↑

Full 3D Fan, Low noise

※ 48 kBtu, Low flow rate



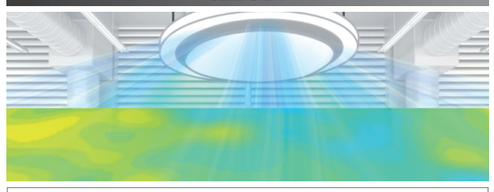
Normal communication Noise level 50 dB(A)

Library Noise level 40 dB(A)

30% Faster in Cooling

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

Other Brand



Set temperature reach time 18 minutes (Height 1.1m)

LG Round Cassette



Set temperature reach time 12 minutes (Height 1.1m)

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

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



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

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

Accessories

CHASSIS	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	-		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 Point)	○		
Wi-Fi	PWFMDD200		
Human Detection Sensor	-		
Floor Temperature Sensor	-		
Air Purification Kit	PTAHYP0		
Elevation Grille	-		

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



Features & Benefits

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

Key Applications

- Office
- Hotel
- Retail
- Residential building

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

※ ○: Applied, - : Not applied

Wi-Fi Control

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

ThinQ

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



Easy Registration and Log-in

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



Simple operation for various functions



On / Off, Current Temp



Mode, Set Temp

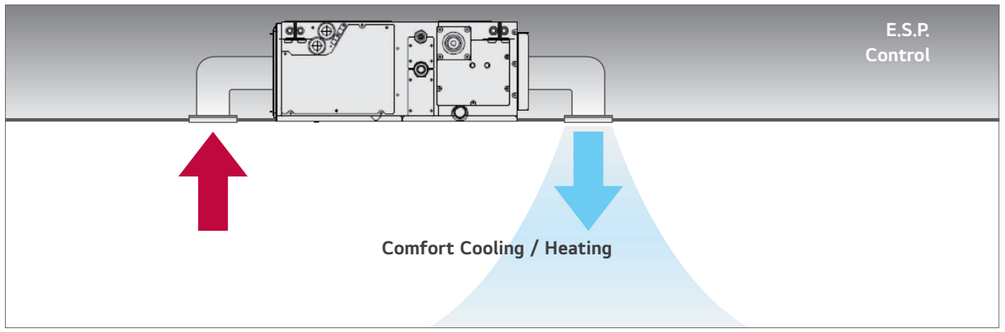


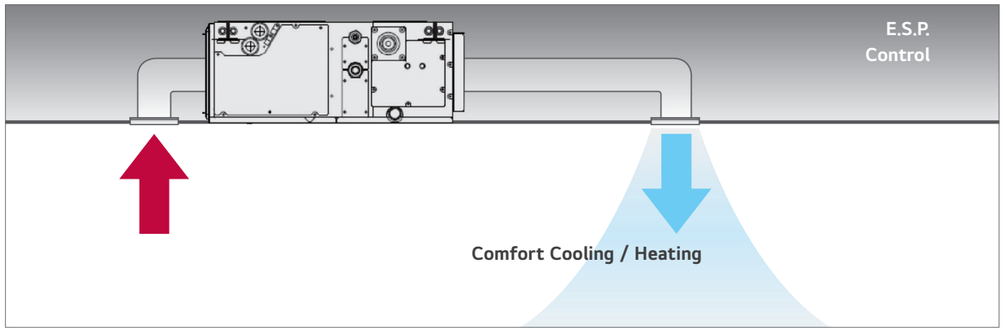
Zone Control

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

External Static Pressure (ESP) Control

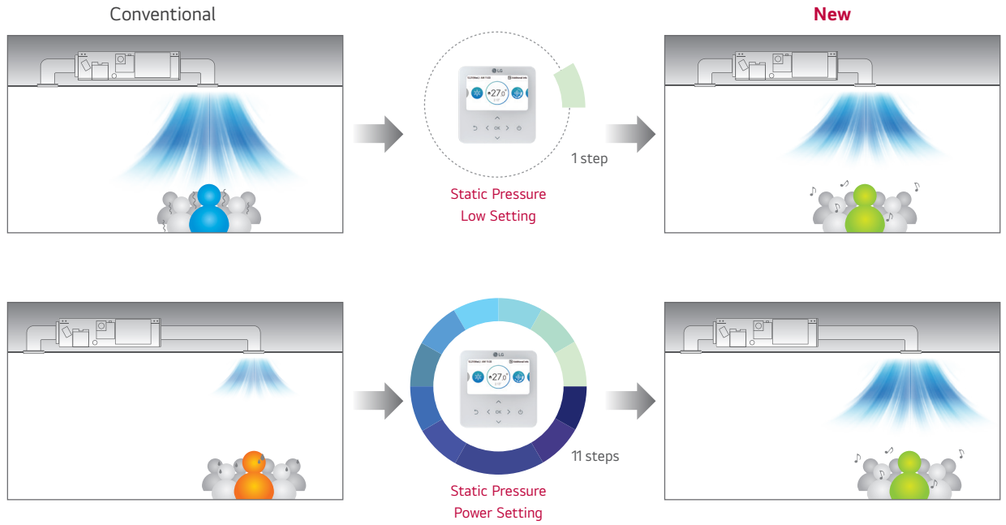
Users have easy access to air volume selection via remote controller using the ESP control function. The BLDC motor can control fan speed and air volume. No additional accessories are necessary to control air flow.





Static Pressure 11-Step Control

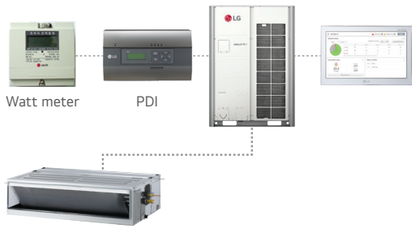
Depending on the installation environment, LG's ceiling concealed duct controls the static pressure with 11 steps to provide maximized comfort to any environment.



Energy Monitoring

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

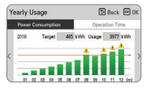
Install Scene




Premium wired remote controller

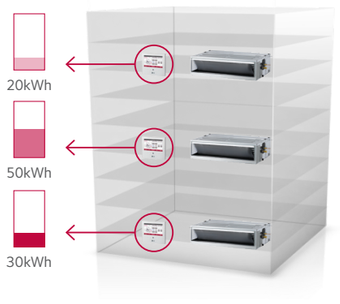

Total accumulated electric energy 595kWh


Standard wired remote controller


Total accumulated electric energy 3,977kWh

Multistory building application



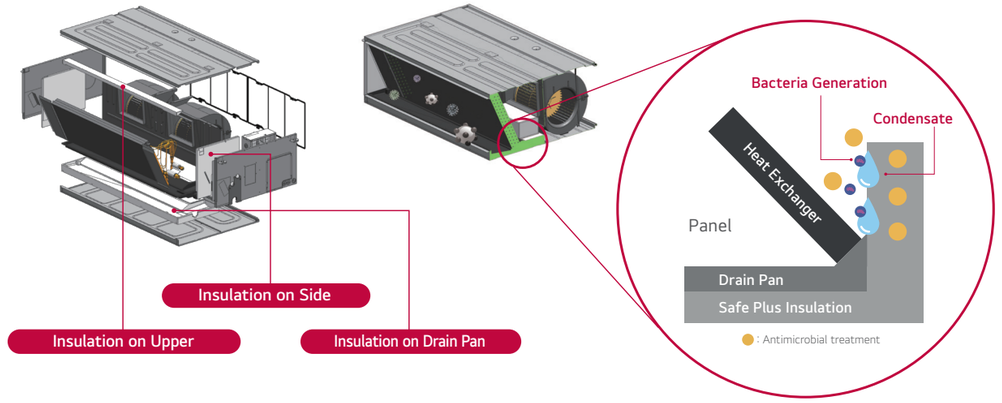


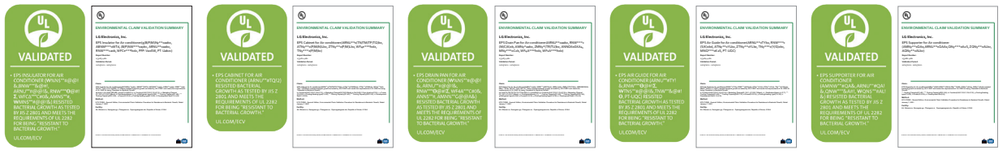
※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

Safe Plus Insulation

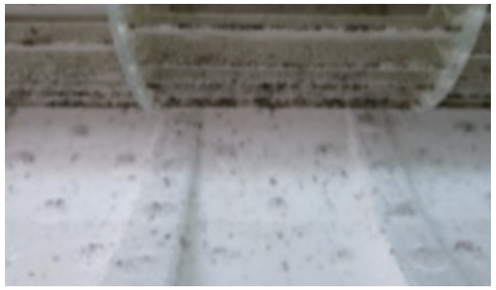
Why LG Safe Plus Insulation?

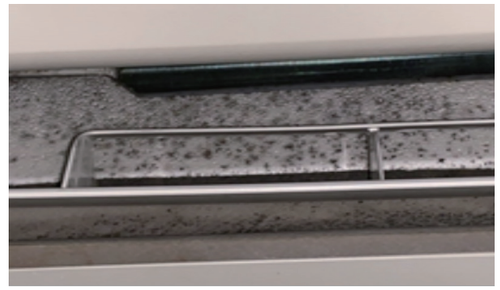
Safe Plus Insulation is an antimicrobial treatment that is applied to LG MULTI V Indoor unit internal insulation components to resist bacterial growth, providing cleaner and fresher airflow to customers.




EPS Insulator
EPS Cabinet
EPS Drain Pan
EPS Air Guide
EPS Supporter

What's the hygiene inside of your air conditioner?





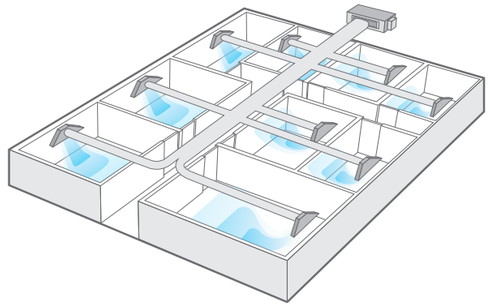
Example of EPS Pollution case.

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

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

Multiple Room Operation

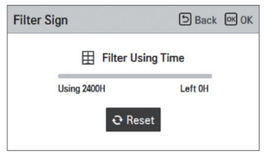
Using a spiral duct (embedded or flexible type) and a stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



Filter Alert

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

Remain Time for Indoor Filter Cleaning + Alarm



Remain time for indoor filter cleaning 2,400hr.



Standard wired remote controller



Remain time for indoor filter cleaning 1,729hr.

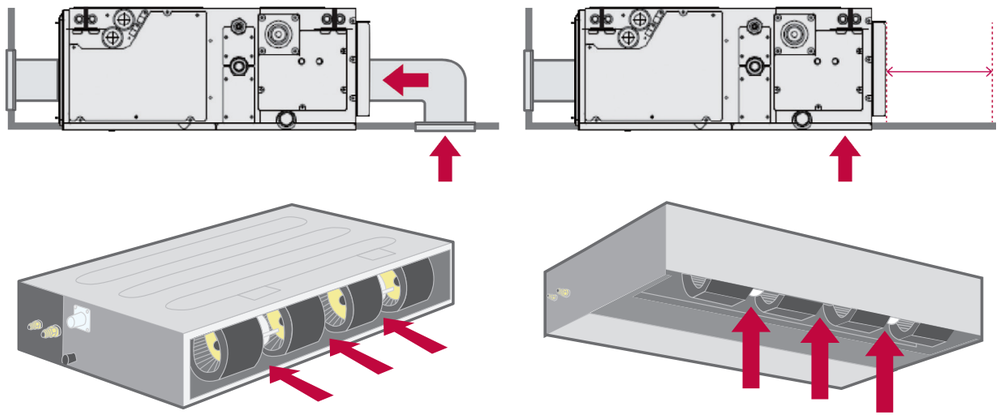


Premium wired remote controller

Flexible Installation
(Low Static Duct Slim Only)

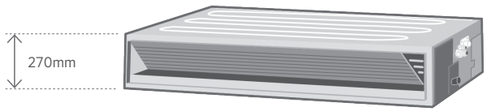
The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.

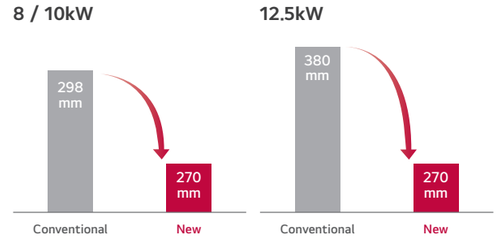
Air intake at the rear or bottom



Minimized Height
(For Mid Static Duct)

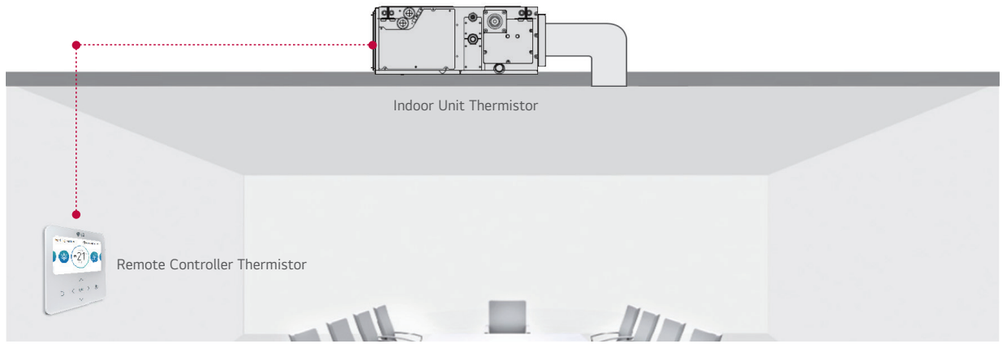
Mid Static Ducts provide the ideal solution for installations in limited spaces.





Two Thermistors Control

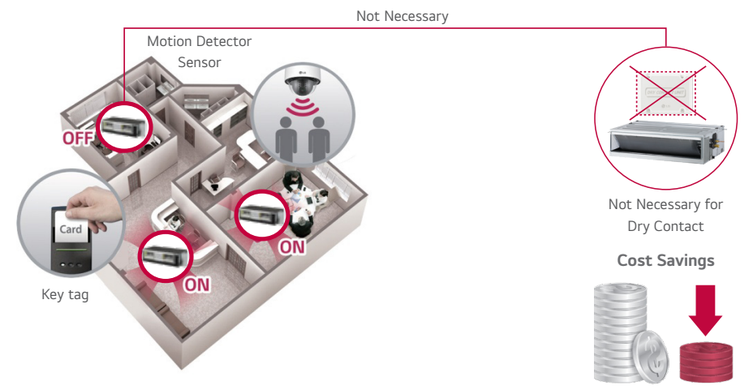
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



1 Point External Input
(On / Off Control)

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

Connection between an indoor unit and external devices directly



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

ARNU07GM1A4 / ARNU09GM1A4
ARNU12GM1A4 / ARNU15GM1A4
ARNU18GM1A4 / ARNU24GM1A4



MODEL		UNIT	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58
Dimensions (W x H x D)	Body	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1	136 x 1
	Air Flow Rate (H / M / L)	m^3/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m^3/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)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	2 (20) ~ 15 (147)	2 (20) ~ 15 (147)	2 (20) ~ 15 (147)	2 (20) ~ 15 (147)	2 (20) ~ 15 (147)	2 (20) ~ 15 (147)
	Motor Type	-	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.0	25.0	25.0	25.0	25.0	25.9
Sound Pressure Levels (H / M / L)		dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0~1.5 x 2C

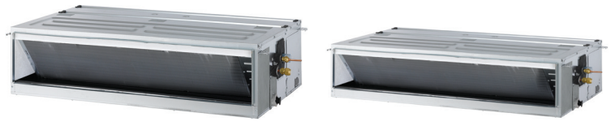
Note :
1. Performance tested under EN14511
2. Capacities are based on the following conditions
   - Cooling : Indoor temp. 27℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
   - Heating : Indoor temp. 20℃ (68℉) DB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

Accessories

CHASSIS	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump	○					
Cassette Cover	-					
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)					
EEV Kit	PRGK024A0 (~5.6kW)					
Multi-tenant Power Module	PINPMB001					
Robot Cleaner	-					
Pre Filter (Washable)	○					
Ion Generator	-					
CO_2 Sensor	-					
Ventilation Kit	-					
IR Receiver	PWLRVN000					
Zone Controller	ABZCA					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	○					
Wi-Fi	PWFMDD200					

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

ARNU28GM2A4 / ARNU36GM2A4
ARNU42GM2A4 / ARNU48GM3A4
ARNU54GM3A4



MODEL		UNIT	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Cooling Capacity		kW	8.2	10.6	12.3	14.1	15.8
Heating Capacity		kW	9.2	11.9	13.8	15.9	18.0
Power Input (H / M / L)	Nominal	W	123 / 81 / 57	184 / 123 / 81	231 / 162 / 111	172 / 105 / 65	260 / 215 / 172
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
	Shipping	mm	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	400 x 1	400 x 1
	Air Flow Rate (H / M / L)	m^3/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m^3/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)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	4 (39) ~ 18 (176)	4 (39) ~ 18 (176)	4 (39) ~ 18 (176)	4 (39) ~ 15 (147)	4 (39) ~ 15 (147)
	Motor Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	36.0	36.0	37.2	42.2	42.2
Sound Pressure Levels (H / M / L)		dB(A)	38 / 36 / 35	40 / 38 / 36	42 / 41 / 39	41 / 38 / 37	42 / 41 / 40
Sound Power Levels (H / M / L)		dB(A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	-				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMDD200				

※ ○ : 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)	m^3/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)	m^3/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	15 (147)	15 (147)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	10 (98) ~ 25 (245)	10 (98) ~ 25 (245)
	Motor Type	-	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	87.0	87.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 41 / 40	47 / 42 / 41
Sound Power Levels (H / M / L)		dB(A)	67 / 62 / 60	68 / 64 / 62
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	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	ARNU76GB8A4	ARNU96GB8A4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	○	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Zone Controller	ABZCA	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU05GL4G4 / ARNU07GL4G4
ARNU09GL4G4 / ARNU12GL5G4



MODEL		UNIT	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Cooling Capacity		kW	1.8	2.2	2.8	3.6
Heating Capacity		kW	2.2	2.5	3.2	4
Power Input (H / M / L)	Nominal	W	15 / 13 / 11	28 / 24 / 21	28 / 24 / 21	43 / 38 / 35
Dimensions (W x H x D)	Body	mm	700 x 190 x 460	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460
	Shipping	mm	925 x 255 x 561	925 x 255 x 561	925 x 255 x 561	1,125 x 255 x 561
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1	19 x 1 + 5 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m^3/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)	m^3/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)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)
	Motor Type	-	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25.4 (1)	Ø25.4 (1)	Ø25.4 (1)	Ø25.4 (1)
Weight	Body	kg	14.6	14.6	14.6	20
Sound Pressure Levels (H / M / L)		dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22	29 / 27 / 25
Sound Power Levels (H / M / L)		dB(A)	32.5 / 31.4 / 29.6	34 / 31.4 / 29.6	36.1 / 32.5 / 29.6	35.1 / 32.7 / 30.7
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit	PRGK024A0 (ARNU**GL4G4 Only)			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	PWLRVN000			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

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

ARNU15GL5G4 / ARNU18GL5G4
ARNU21GL6G4 / ARNU24GL6G4



MODEL		UNIT	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Cooling Capacity		kW	4.5	5.6	6.3	7.1
Heating Capacity		kW	5	6.3	7.1	8
Power Input (H / M / L)	Nominal	W	54 / 45 / 38	57 / 39 / 30	65 / 50 / 42	81 / 59 / 43
Dimensions (W x H x D)	Body	mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460	1,100 x 190 x 460
	Shipping	mm	1,125 x 255 x 561	1,125 x 255 x 561	1,325 x 255 x 561	1,325 x 255 x 561
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1 + 5 x 1	19 x 1 + 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m^3/min	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m^3/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)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)	0 (0) ~ 5 (49)
	Motor Type	-	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25.4 (1)	Ø25.4 (1)	Ø25.4 (1)	Ø25.4 (1)
Weight	Body	kg	20	20	22	22
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 27	35 / 32 / 29	35 / 30 / 29	36 / 33 / 29
Sound Power Levels (H / M / L)		dB(A)	38.4 / 35.1 / 32.7	42.1 / 38.4 / 35.1	42.5 / 38.3 / 36.0	45.0 / 40.7 / 36.0
Power Supply		V / Ø / Hz	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60	220-230-240 / 1 / 50-60
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

CHASSIS	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit	-			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	PWLRVN000			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

※ ○ : 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)	m^3/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m^3/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	4 (39) ~ 18 (177)	4 (39) ~ 18 (177)	4 (39) ~ 18 (177)	4 (39) ~ 18 (177)	4 (39) ~ 20 (196)
	Motor type	-	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight		kg	36	36	36	36	42.2
Sound Pressure Levels (H / M / L)		dB(A)	33 / 33 / 32	33 / 33 / 32	34 / 33 / 32	34 / 33 / 32	38 / 36 / 34
Sound Power Levels (H / M / L)		dB(A)	52 / 52 / 52	52 / 52 / 52	53 / 52 / 52	53 / 52 / 52	52 / 51 / 50
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

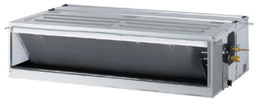
Note :
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit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

Accessories

CHASSIS	ARNU07GM2A4	ARNU09GM2A4	ARNU12GM2A4	ARNU15GM2A4	ARNU18GM3A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	-				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMDD200				

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

ARNU24GM3A4 / ARNU28GM3A4
ARNU36GB8A4 / ARNU42GB8A4
ARNU48GB8A4

MODEL		UNIT	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Cooling Capacity		kW	7.1	8.2	10.6	12.3	14.1
Heating Capacity		kW	8.0	9.2	11.9	13.8	15.9
Power Input (H / M / L)		W	109 / 83 / 60	109 / 83 / 60	420 / 403 / 478	528 / 497 / 465	538 / 505 / 482
Dimensions (W x H x D)	Body	mm	1,250 × 360 × 700	1,250 × 360 × 700	1,562 x 460 x 688	1,562 x 460 x 688	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)	m^3/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	18 (176)	18 (176)	18 (176)
	Air Flow Rate (H / M / L) (Standard Mode)	m^3/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	53.7 / 49.5 / 43.9	55.6 / 50.6 / 45.0	58.0 / 52.3 / 47.3
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	9 (88)	9 (88)	9 (88)
	External Static Pressure (Min ~ Max)	mmAq (Pa)	4 (39) ~ 20 (196)	4 (39) ~ 20 (196)	9 (98) ~ 25 (245)	9 (98) ~ 25 (245)	9 (98) ~ 25 (245)
	Motor type	-	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	-	-	-	-	-
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight		kg	42.2	42.2	87	87	87
Sound Pressure Levels (H / M / L)		dB(A)	39 / 37 / 35	39 / 37 / 35	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power Levels (H / M / L)		dB(A)	53 / 52 / 51	53 / 52 / 51	65 / 64 / 62	66 / 65 / 63	66 / 65 / 64
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

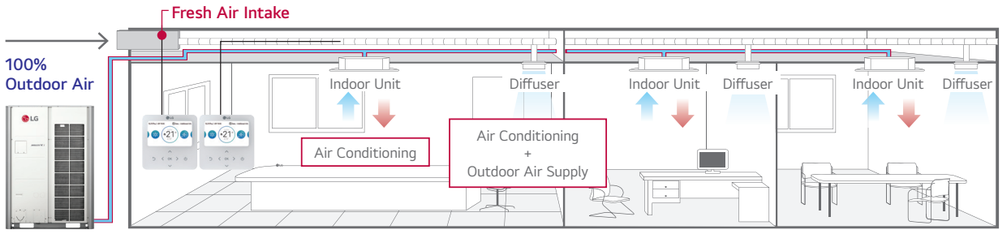
Accessories

CHASSIS	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				
EEV Kit	-				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMDD200				

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

Fresh Outdoor Air Supply

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

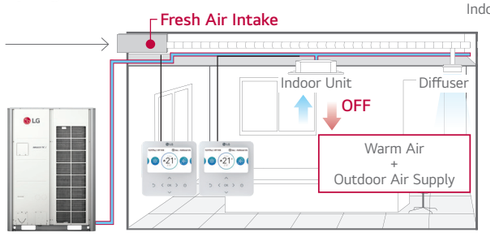


MULTI V *i* Outdoor unit

Economic Operation

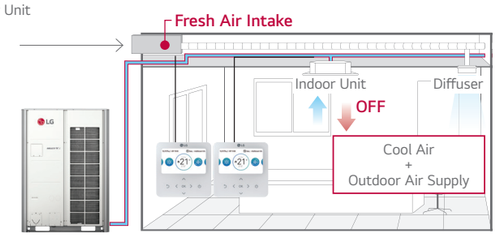
Natural outdoor air is utilized as seasons change for cost efficiency.

Spring Season



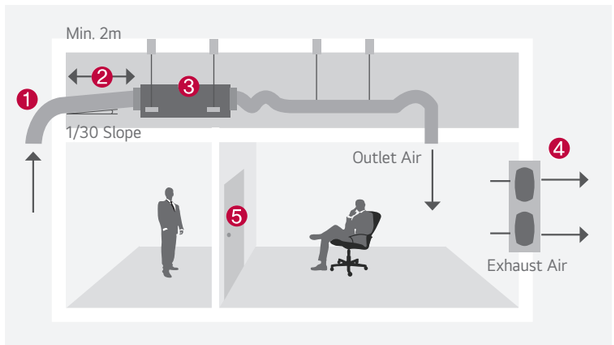
MULTI V *i* Outdoor unit

Autumn Season



MULTI V *i* Outdoor unit

Installation Scene



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

ARNU76GB8Z4 / ARNU96GB8Z4



MODEL		UNIT	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity		kW	22.4	28.0
Heating Capacity		kW	21.4	26.7
Power Input (H / M / L)	Nominal	W	230 / 200 / 200	360 / 230 / 230
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type	-	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 1	375 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m^3/min	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	External Static Pressure	mmAq (Pa)	22 (216)	22 (216)
	Motor Type	-	BLDC	BLDC
Air Filter		-	Long Life Filter	Long Life Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	73.0	73.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43	47 / 45 / 45
Sound Power Levels (H / M / L)		dB(A)	70 / 67 / 67	72 / 70 / 70
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	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

⚠ CAUTION

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

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

Accessories

CHASSIS	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A)	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

NOTE



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

※ ○: Applied, - : Not applied

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

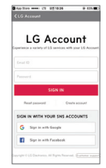
ThinQ

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



Easy Registration and Log-in

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



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

Differentiated Design

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



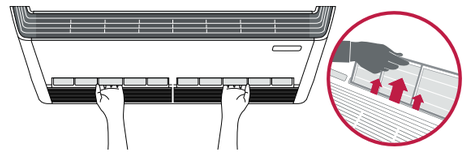
Powerful Cooling & Heating

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



One Touch & 2 Piece Filter

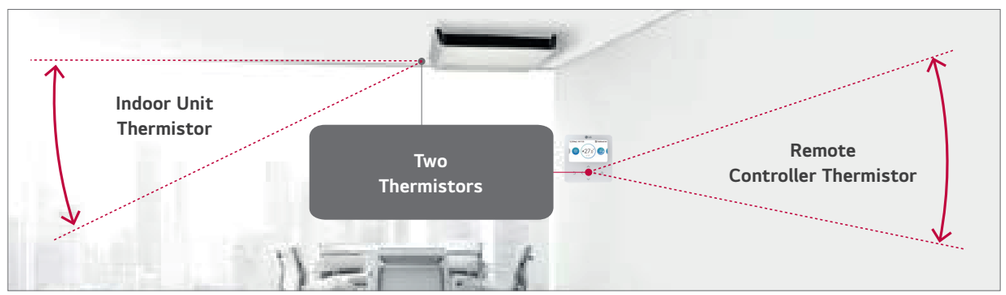
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

Two Thermistors Control

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



ARNU18GV1A4 / ARNU24GV1A4



MODEL		UNIT	ARNU18GV1A4	ARNU24GV1A4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	8.0
Power Input (H / M / L)	Nominal	W	23 / 20 / 17	25 / 21 / 17
Exterior Color		-	Morning Fog	Morning Fog
RAL Code		-	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,200 x 235 x 690	1,200 x 235 x 690
	Shipping	mm	1,315 x 320 x 772	1,315 x 320 x 772
Fan	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1
	Air Flow Rate (H / M / L)	m^3/min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0
	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	29.0	29.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 35 / 33
Sound Power Levels (H / M / L)		dB(A)	61 / 59 / 56	62 / 59 / 56
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2 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℃ (80.6℉) DB / 19℃ (66.2℉) WB, Outdoor temp. 35℃ (95℉) DB / 24℃ (75.2℉) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20℃ (68℉) DB / 15℃ (59℉) WB, Outdoor temp. 7℃ (44.6℉) DB / 6℃ (42.8℉) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU18GV1A4	ARNU24GV1A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU36GV2A4 / ARNU48GV2A4



MODEL		UNIT	ARNU36GV2A4	ARNU48GV2A4
Cooling Capacity		kW	10.6	14.1
Heating Capacity		kW	11.9	15.9
Power Input (H / M / L)	Nominal	W	84 / 77 / 66	91 / 79 / 66
Exterior Color		-	Morning Fog	Morning Fog
RAL Code		-	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,600 x 235 x 690	1,600 x 235 x 690
	Shipping	mm	1,715 x 320 x 772	1,715 x 320 x 772
Fan	Type	-	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	125 x 1	125 x 1
	Air Flow Rate (H / M / L)	m^3/min	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
	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	37.0	37.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 44 / 40.5	47 / 44 / 40.5
Sound Power Levels (H / M / L)		dB(A)	68 / 66 / 64	68 / 67 / 66
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2 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℃ (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	ARNU36GV2A4	ARNU48GV2A4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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



Features & Benefits

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

Key Applications

- Residential building
- Historical building
- Hotel

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

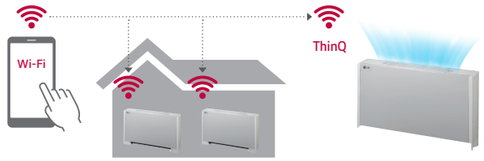
※ ○: Applied, - : Not applied

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

ThinQ

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

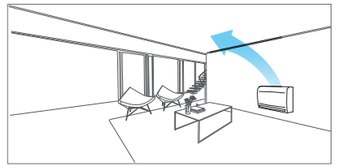


※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

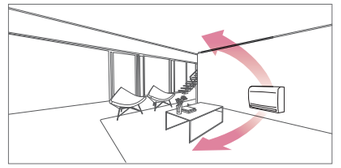
Air Flow Direction Change

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

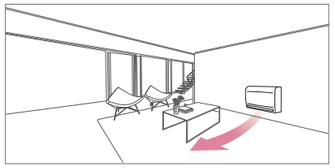
Cooling



Heating (Normal)

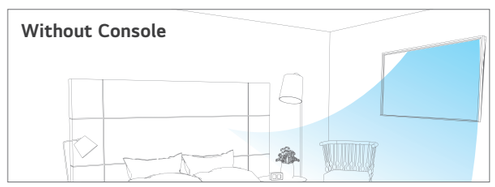


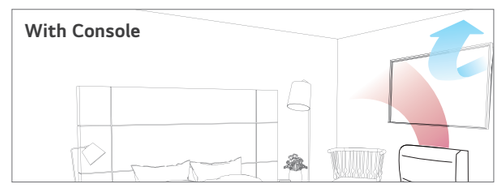
Heating (Option)



Cold Draft Protection

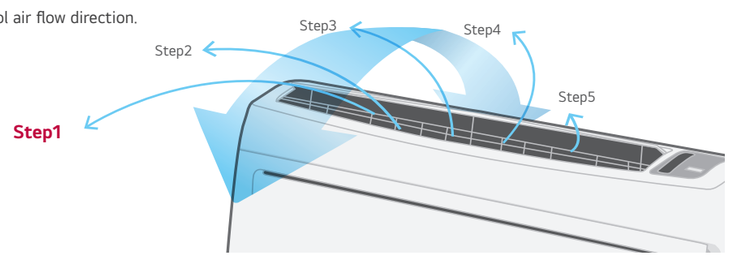
The console protects cold draft from windows to provide comfortable environment.





5-Step Vane Control

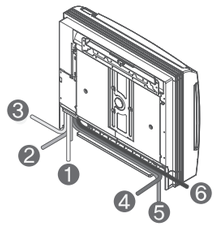
There are 5 different stages to control air flow direction.



6 Way Flexible Piping

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

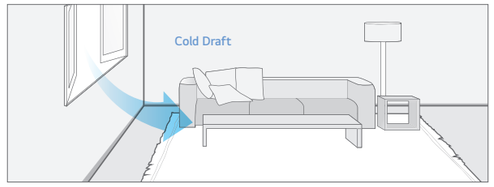




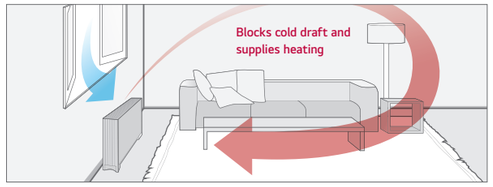
Protect Cold Draft

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

Without Floor Standing

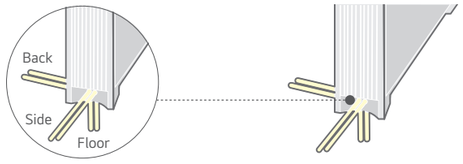


With Floor Standing



3 Way Flexible Piping

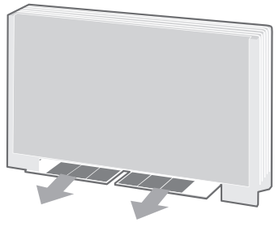
It is possible to install and connect the outdoor unit in 3 different ways. (Side, Back, Floor)



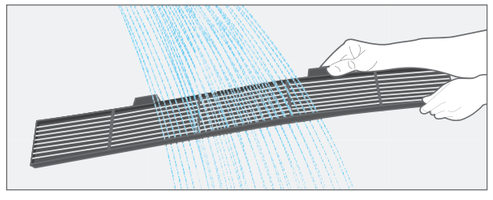
Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.

Sliding Type



Easy Cleaning



ARNU07GQAA4 / ARNU09GQAA4



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

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

Accessories

CHASSIS	ARNU07GQAA4	ARNU09GQAA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	○	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU12GQAA4 / ARNU15GQAA4



MODEL		UNIT	ARNU12GQAA4	ARNU15GQAA4
Cooling Capacity		kW	3.6	4.5
Heating Capacity		kW	4.0	5.0
Power Input (H / M / L)	Nominal	W	18 / 15 / 13	24 / 19 / 17
Exterior Color		-	Morning Fog	Morning Fog
RAL Code		-	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	700 x 600 x 210	700 x 600 x 210
	Shipping	mm	775 x 662 x 284	775 x 662 x 284
Fan	Type	-	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	48 x 1	48 x 1
	Air Flow Rate (H / M / L)	m^3/min	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
	Motor Type	-	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	14.0	14.0
Sound Pressure Levels (H / M / L)		dB(A)	39 / 34 / 28	42 / 37 / 31
Sound Power Levels (H / M / L)		dB(A)	56 / 50 / 44	58 / 53 / 50
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	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	ARNU12GQAA4	ARNU15GQAA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	○	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

ARNU07GCEA4 / ARNU09GCEA4
ARNU12GCEA4 / ARNU15GCEA4
ARNU18GCFA4 / ARNU24GCFA4



※ A : Floor Standing with case

MODEL		UNIT	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Exterior Color		-	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL Code		-	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
	Shipping	mm	1,154 x 705 x 289	1,154 x 705 x 289	1,154 x 705 x 289	1,154 x 705 x 289	1,432 x 705 x 289	1,432 x 705 x 289
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type	-	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	27.0	27.0	27.0	27.0	34.0	34.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	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 Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0				-	
Multi-tenant Power Module	PINPMB001				PINPMB001	
Robot Cleaner	-				-	
Pre Filter (Washable)	○				○	
Ion Generator	-				-	
CO_2 Sensor	-				-	
Ventilation Kit	-				-	
IR Receiver	PWLRVN000				PWLRVN000	
Zone Controller	-				-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	○				○	
Wi-Fi	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	1,333 x 702 x 260	1,333 x 702 x 260
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m^3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type	-	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	21.0	21.0	21.0	21.0	25.0	25.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	59 / 57 / 53	63 / 59 / 57
Power Supply		V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Transmission Cable		mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	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 Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)				PRLDNVS0 (R410A), PLDRNV1S (R32)	
EEV Kit	PRGK024A0				-	
Multi-tenant Power Module	PINPMB001				PINPMB001	
Robot Cleaner	-				-	
Pre Filter (Washable)	○				○	
Ion Generator	-				-	
CO_2 Sensor	-				-	
Ventilation Kit	-				-	
IR Receiver	PWLRVN000				PWLRVN000	
Zone Controller	-				-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	○				○	
Wi-Fi	PWFMDD200				PWFMDD200	

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



Features & Benefits

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

Key Applications

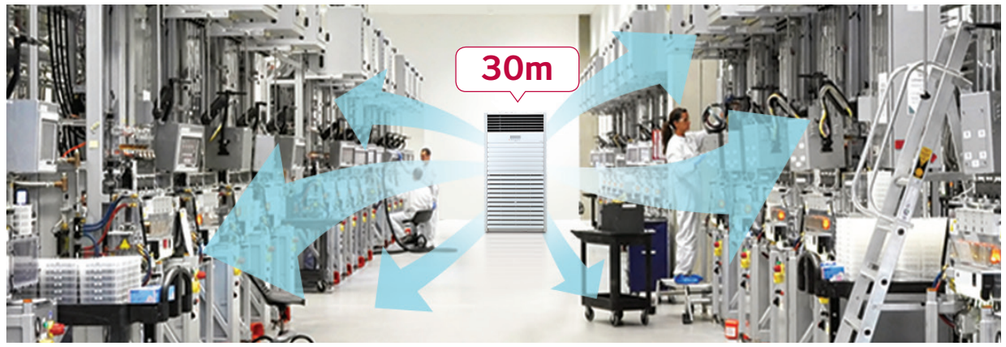
- Factory
- Office
- Retail
- Restaurant
- Shop

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

※ ○: Applied, - : Not applied
* Extra module is necessary for Wi-fi (module: PWFMDD200)

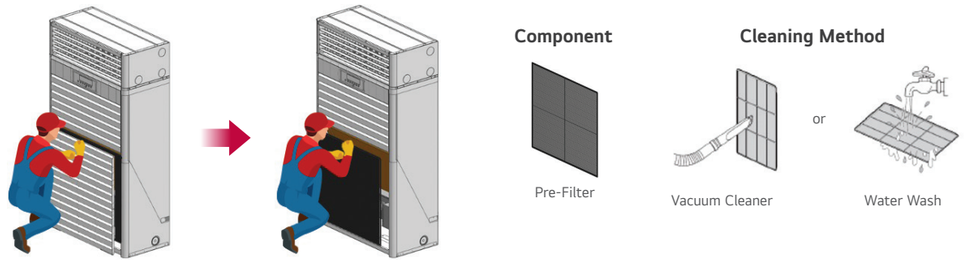
Airflow to Distant Spaces

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



Easy Filter Cleaning

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



Component

Pre-Filter

Cleaning Method

Vacuum Cleaner

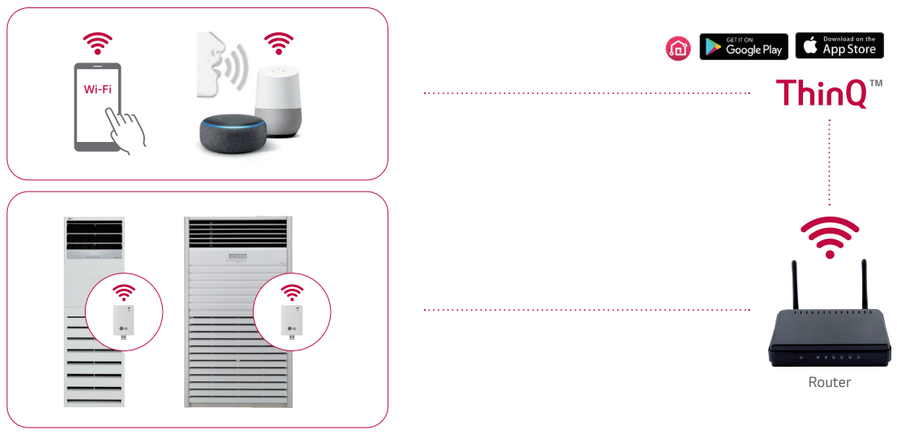
or

Water Wash

※ You may need professional help to clean the filter.

Wi-Fi Control with LG ThinQ

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



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

ARNU48GPTA4 / ARNU96GPFA4





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

NO.	NEW FUNCTION NAME (4TH GENERATION INDOOR)	FUNCTION DESCRIPTION	REQUIRED CONTROLLER		REMARKS
			WIRED REMOTE CONTROLLER	CENTRALIZED CONTROLLER	
1	Energy Monitoring (Accumulated Electric Energy Check)	Monitoring accumulated power consumption by Wired Remote Controller	○	○	* Necessary to install the PDI (Power Distribution Indicator) and central controller * Combined with MULTI V WATER S outdoor unit, this function is not available.
		Monitoring accumulated power consumption by Central Control Device / PDI	-	○	* Necessary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	2 Set Point	1) 2 set point control by Indoor and central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring)	○	○	* Wired remote controller and central controller must be installed * Combined with MULTI V WATER S outdoor unit, this function is not available.
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	1) Synchronization according to occupied / unoccupied by Indoor and Central control 2) Synchronization icon with remote controller (Synchronization Monitoring)	○	○	* Centralized control is able to when you combine only 4th generation indoor units (Use together with 2nd generation and 4th generation indoors, only wired remote controller is able to set this function as existing way) * Wired remote controller or central controller must be installed (Function can be activated using just one control device.) * Combined with MULTI V WATER S outdoor unit, this function is not available.
4	Group Control	Group Control can use Additional function	○	○	* Check more details in PDB (Product Data Book) * Central controller can create and control group.
5	Test Run (Heating)	Test run mode can be operated in cooling mode and heating mode for easy service	○	-	
6	Model Information Monitoring	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	○	-	
7	Indoor Unit Address Checking	Wired remote controller can check indoor unit address information	○	-	
8	Refrigerant Leakage Detection	Function error sign display when refrigerant leakage occurred	○	○	* Central controller has been installed, CH230 error code can be recognized (Old / New Same) * Without Central Controller, it is able to recognize with wired remote controller (CH230) * Combined with MULTI V WATER S outdoor unit, this function is not available. * Accessory PRLDNVS0 must be separately ordered
9	Thermo On / Off Range Setting (Cooling)	User can set cooling thermo on / off range with wired remote controller for prevention overcooling	○	-	* Thermo On / Off temperature setting (3 step)
10	Thermo On / Off Range Setting (Heating)	User can set heating thermo on / off range with wired remote controller for prevention overheating. (4 Step)	○	-	* Thermo On / Off temperature setting (4 step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	○	-	* Only applied in Ceiling Concealed Duct
12	1 Point External Input (On / Off Control)	Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th generation indoors)	○	-	* Simple On/Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit / Console / FAU / Floor Standing (with case / without case) : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.	○	○	* The alarm activates on the central controller, but the remaining time is not displayed.
14	Auto Restart Function Disable / Enable	After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off	○	-	
15	Indoor Humidity Display	Monitoring indoor humidity Wired Remote Controller	○	○	* Available only with MULTI V *i*
16	Comfort Cooling Setting	set the outdoor unit comfort cooling operation value	○	○	* Available only with MULTI V *i*
17	Smart Load Control Setting	Change the outdoor unit's Smart Load Control stage value.	○	○	* Available only with MULTI V *i*
18	ODU Refrigerant Noise Reduction Setting	set the outdoor unit's refrigerant noise reduction function	○	○	* Available only with MULTI V *i*
19	Low Noise Mode Time Setting	set the start and end time of the outdoor unit's low noise mode operation	○	○	* Available only with MULTI V *i*

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

WIRED REMOTE CONTROLLER							CENTRALIZED CONTROLLER				
					SIMPLE						
NEW DELUXE (PREMTMB01*) (PREMTA211) (PREMTA210)	PREMIUM (PREMTA000) (PREMTA000A) (PREMTA000B)	STANDARD III (PREMTB101) (PREMTB11)	STANDARD II (PREMTBB01) (PREMTB001)	NEW STANDARD (PREMTB200)	SIMPLE FOR HOTEL (PQRCHCA0Q / QW)	SIMPLE (PQRCVCL0Q / QW)	AC EZ (PQCSZ250S0)	AC EZ TOUCH (PACEZA000)	AC SMART 5 (PACS5A000)	ACP 5 (PACP5A000)	AC MANAGER 5 (PACM5A000)
○	○	○	○	○	-	-	-	○	○	○	○
-	-	-	-	○	-	-	-	○	○	○	○
○	○	○	-	TBD	-	-	-	○	○	○	○
○	○	○	-	TBD	-	-	-	○	○	○	○
○	○	○	○	○	-	-	-	-	○	○	○
○	○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	○	-	-	-	-	○	○	-
○	○	○	○	○	-	-	-	-	-	-	-
○ (4 step)	○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	○ (3 step)	○ (3 step)	-	-	-	-	-
○	○	○	○	○	○	○	-	-	-	-	-
○	○	○	○	○	-	-	-	-	-	-	-
○	○	○	○	○	-	-	○	○	○	○	○
○	○	○	○	○	-	-	-	-	-	-	-
○	○	○	-	○	-	-	-	-	○	○	-
○	○	○	-	○	-	-	-	-	○	○	-
○	○	○	-	○	-	-	-	-	○	○	-
○	○	○	-	○	-	-	-	-	○	○	-
○	○	○	-	○	-	-	-	○	○	○	-

* 2H Launching
※ ○ : Applied, - : Not applied

MULTI V

Product \ Controller			Deluxe	Premium	Standard III		Standard II		Standard
			NEW						NEW
			PREMTMB01* PREMTA211 PREMTA210	PREMTA000 PREMTA000A PREMTA000B	PREMTBB11	PREMTB101	PREMTBB01	PREMTB001	PREMTB200
Ceiling Mounted Cassette	4 Way	ARNU-A4 ARNU-B4	○	○	○		○		○
	2 Way / 1 Way	ARNU-B4 ARNU-C4	○	○	○		○		○
	Round CST	ARNU-A4	○	○	○		○		○
Ceiling Concealed Duct	High Sensible	ARNU-A4	○	○	○		○		○
	High / Mid Statics	ARNU-A4	○	○	○		○		○
	Low Statics	ARNU-G4	○	○	○		○		○
FAU (Fresh Air intake)		ARNU-Z4	○	○	○		○		○
Ceiling Suspended		ARNU-A4	○	○	○		○		○
Console		ARNU-A4	○	○	○		○		○
Floor Standing		ARNU-A4 ARNU-U4	○	○	○		○		○
Floor Standing (PAC)		ARNU-A4	○	○	○		○		○
Wall Mounted		ARNU-A4	○	○	○		○		○
		ARNU-R4	○	○	○		○		○
		ARNU-A4 ARNU-C4 ARNU-N4	○	○	○		○		○
HYDRO KIT 1)		ARNH-A4	-	-	-		-		-
Ventilation		Energy Recovery Ventilator	○	○	○		○		○
		Energy Recovery Ventilator with DX coil	○	○	○		○		○
AHU Communication Kit			○	○	○		○		○

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

* 2H Launching
※ ○ : Compatible, △ : Need wired remote controller / IR receiver, - : Not compatible
1) It has a separate remote controller

Controller Name		Wired Remote Controller							Wireless Remote Controller
		Deluxe	Premium	Standard III	Standard II	Standard	Simple	Simple (Hotel)	
Model Name		NEW 				NEW 			
		PREMTMB01* PREMTA211 PREMTA210	PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001 PREMTBB01	PREMTB200	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P)
Basic	On / Off	○	○	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○	○	○
	Mode Change	○	○	○	○	○	○	-	○
	Auto Swing	○	○	○	○	○	○	○	○
	Vane Control (Louver Angle)	○	○	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	○	○	-
	Electric Failure Compensation	○	○	○	○	○	○	○	-
	Indoor Temperature Display	○	○	○	○	○	○	○	○
	ALL Button Lock (Child Lock)	○	○	○	○	○	○	○	-
Advanced	Schedule / Timer	Pre-set Schedule Mode [2] / Weekly~Yearly	Weekly - Yearly	Weekly - Yearly	Weekly	Weekly	-	-	Sleep / On / Off
	Additional Mode Setting [1]	○	○	○	○	-	-	-	-
	Time Display	○	○	○	○	○	-	-	○
	Humid. Display	○	○	○	-	○	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Advanced Lock	-	Advanced Lock	-	-	-
	Filter Sign	○	○	○	○	○	-	-	-
	Energy Management [3]	○	○	○	○	○	-	-	-
	Dual Set Point	○	○	○	-	-	-	-	-
	Human Detection	○	-	○	-	-	-	-	-
	Temp, Humidity Compensation	○	○	○	-	○	-	-	-
	Wi-Fi AP Mode Setting	○	○	○	○	-	○	○	○
ETC	Operation Status LED	-	○	○	○	-	○	○	-
	Wireless Remote Controller Receiver	-	○ [4]	-	○ [4]	○ [4]	○ [4]	○ [4]	-
	Display	4.3 inch Color	5 inch Color	4.3 inch Color	4.3 inch mono	4.3 inch Color	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	110 x 110 x 15	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	80 x 120 x 17	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26
	Black Control for Screen Saver	○	○	○	-	○	-	-	-

* 2H Launching
※ ○: Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Only for Residential GUI (Based on the housing usage patterns in the United States, please assess whether it is applicable for your usage conditions before using it.)
3) Centralized control (PACEZA000 / PACS5A000 / PACP5A000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
4) For ceiling type duct
Note :
1. Indoor unit should have functions requested by the controller
2. If you need more detail, please refer to the manual of product. (http://partner.lge.com: Home> Doc.Library> Manual)

Product			ETRS[1]	R32 Refrigerant Leak Detector		
				Leak	Malfunction	Lifetime
Wall Mounted	Standard / Artcool Mirror		●	○	○	○
	Artcool Gallery		-	-	-	-
Ceiling Mounted Cassette	4 Way (Mini)		●	○	○	○
	4 Way (DUAL Vane)		●	○	○	○
	Round		●	○	○	○
	2 Way		●	○	○	○
	1 Way		●	-	-	-
Ceiling Concealed Duct	High Static		●	●	●	●
	Mid Static		●	●	●	●
	Low Static (Slim)		●	○	○	○
Fresh Air Intake Unit			●	-	-	-
Ceiling Suspended Unit			●	○	○	○
Console			-	○	○	○
Floor Standing Unit	with Case		-	○	○	○
	without Case		-	○	○	○
Commercial PAC			-	○	○	○
Hydro Kit (Floor Standing)	Medium Temperature		-	○	○	○
	High Temperature		-	○	○	○
Hydro Kit (Wall Mounted)	Medium Temperature		-	○	○	○
Hydro Kit (IWT)	Medium Temperature		-	○	○	○

1) ETRS : Enhanced Tightness Refrigerating System
※ The applied date for each indoor unit is subject to vary.
※ ● : Embedded / ○ : Field Installation

HOT WATER SOLUTION

Hydro kit 202

HYDRO KIT

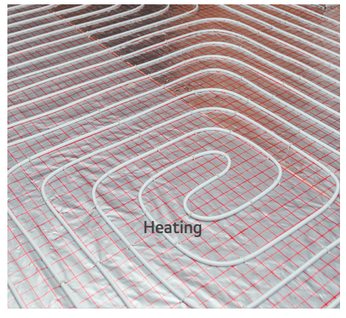
Features & Benefits

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

Key Applications

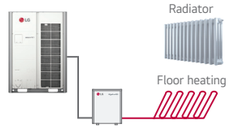
- Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiators. Or where cold water is needed, such as a fan coil unit and chilled beam.





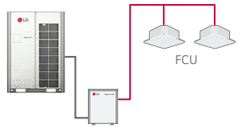


Radiant Heating / Cooling



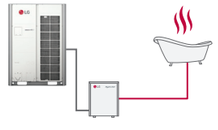
Hot Water+ Underfloor Heating

Fan Coil Unit Heating / Cooling



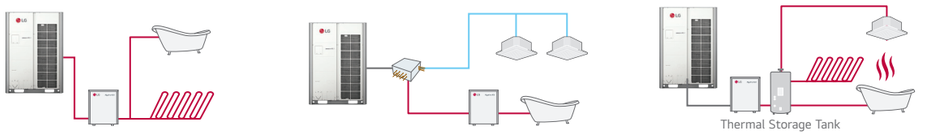
HR Unit (Cooling & Hot Water)

Hot Water / Cold Water



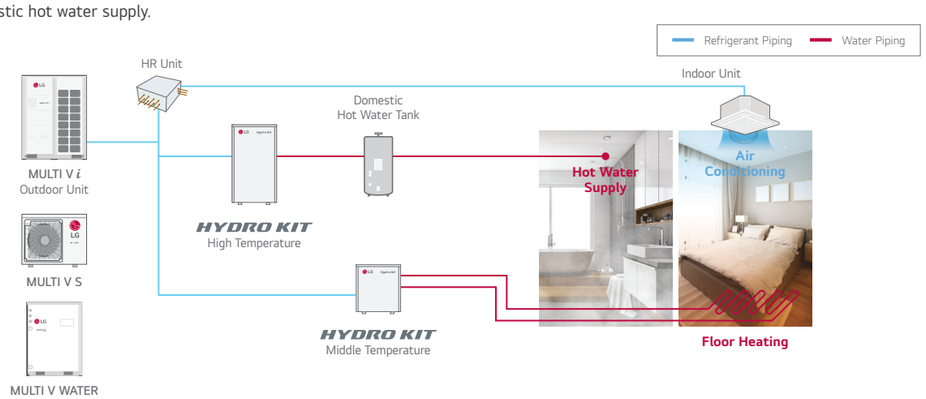
Thermal Storage System

Combination



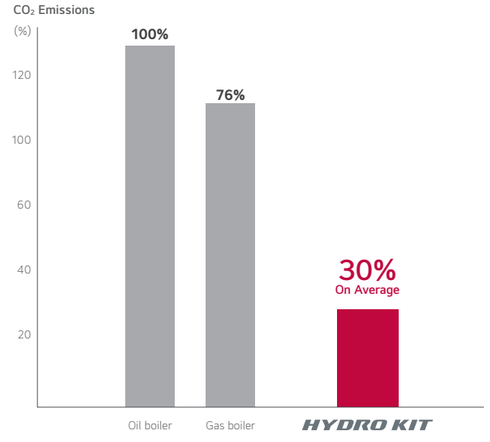
Total Solution

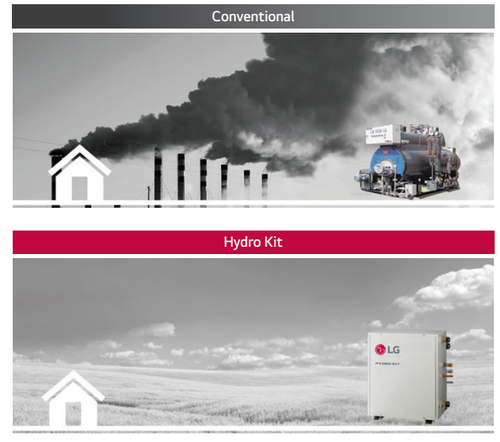
A total solution is provided with a heat pump, air conditioning (cooling by refrigerant and cold water / heating by refrigerant hot water) and domestic hot water supply.



Eco-conscious Solution

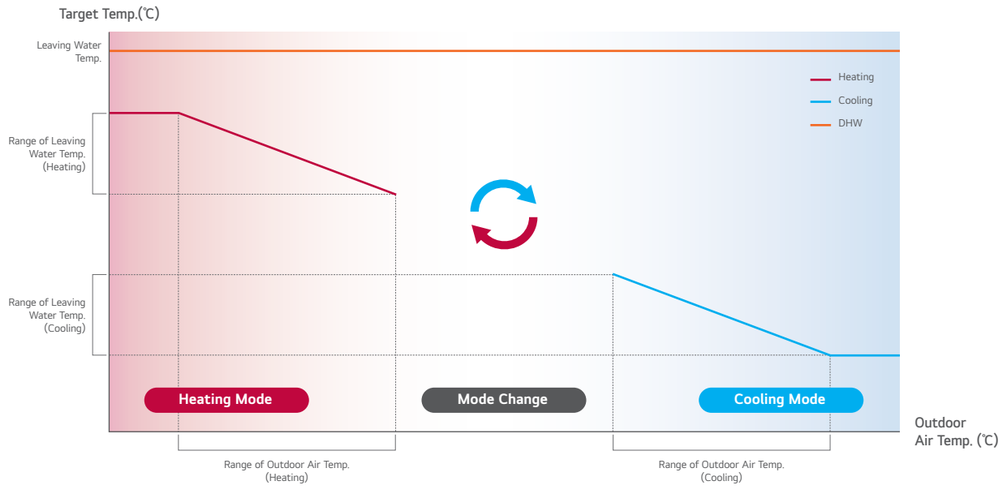
Green energy solution through the reduction of CO_2 emmisions.





Seasonal Auto Mode

With Seasonal Auto Mode, the target temperature and operation mode will be changed automatically depending on the outdoor temperature. This function is not only convenient, but also saves energy.

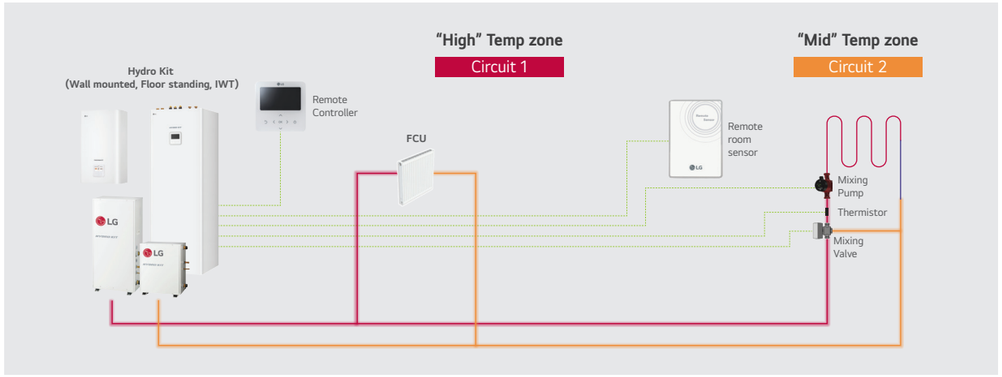


※ This function does not apply to DHW.
※ User should set the range of the outdoor temperature and the target temperature.
※ The target leaving water temperature can also be set as the target indoor air temperature.
※ High Temperature Hydro Kit does not allow to change mode and only automatically change the target temperature within the heating mode.

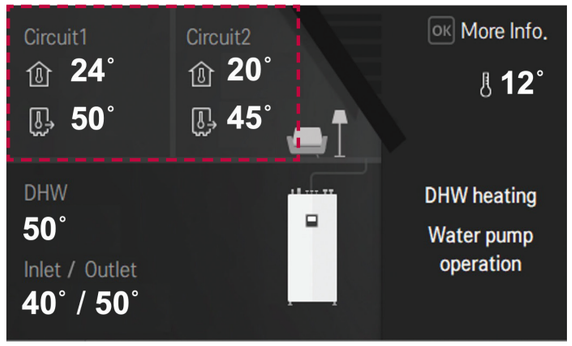
2nd Circuit

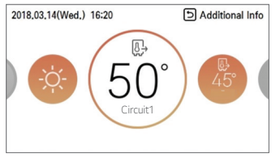
Hydro Kit can provide a solution to control two different set temperatures for two circuits. Just one Hydro Kit can meet the different needs of each room.

2nd Heating Circuit Diagram

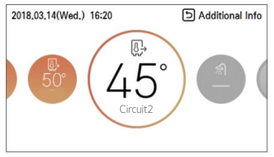


Remote Controller UI





Set Temperature of Circuit 1

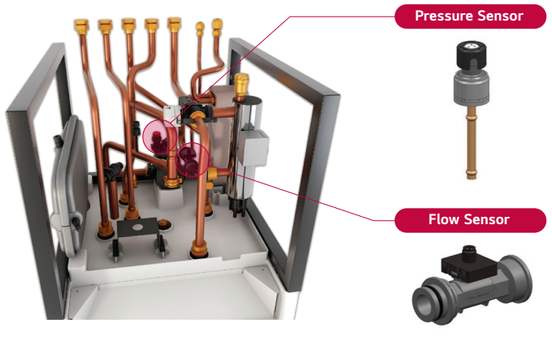


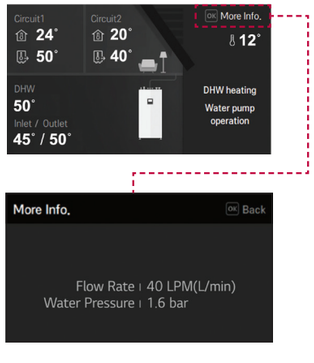
Set Temperature of Circuit 2

※ The images above are to help customers understand, and may differ from the actual ones.
※ When applying the two circuit system, circuit 1 is for the high temp. zone and circuit 2 is for the low temp. zone.

Water Circuit Monitoring

Not only water circuit temperature but also flow rate and pressure can be monitored via remote controller. This information is not only useful for the installer during installation, but also helps to periodically clean the strainer during maintenance.



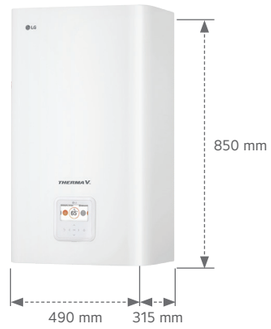


※ The above images are for customer understanding.

Space Saving

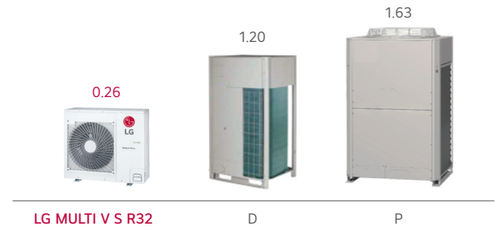
Wall mounted hydro kit with MULTI V S outdoor is suitable for residential applications with its compact size and design.





Compatible with compact R32 MULTI V S

Product Volume (m³)



Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

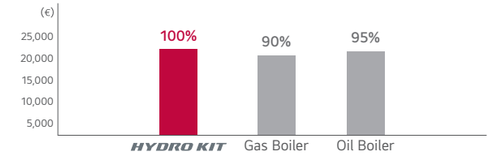
1st Proposal MULTI V i HYDRO KIT

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

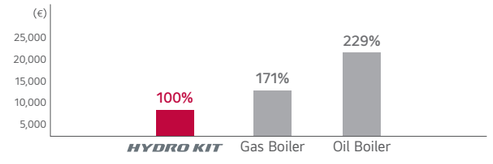
Analysis Conditions

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

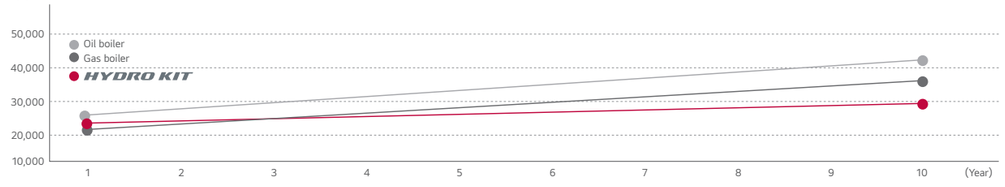
Initial Costs



Annual Operating Costs



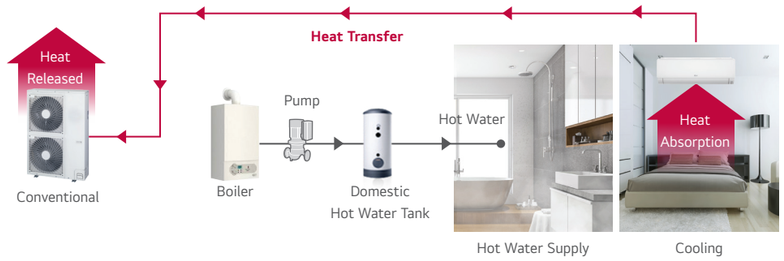
LCC



Energy Savings through Heat Recovery

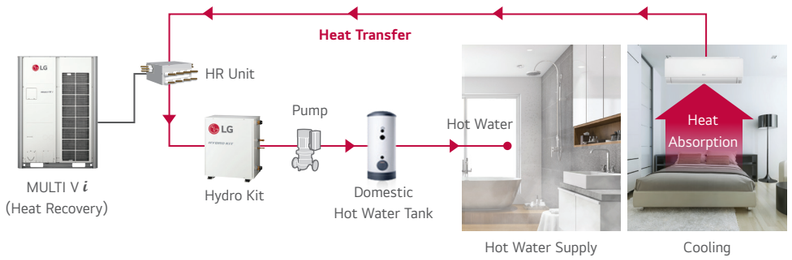
Conventional

Absorbed heat is released to outdoor air.



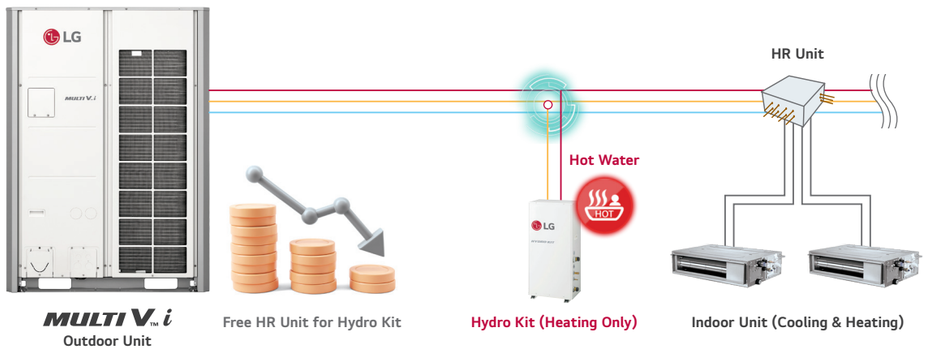
HYDRO KIT

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



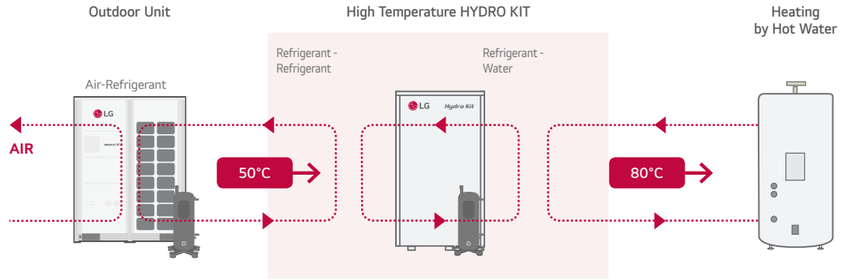
Free HR Unit for Hydro Kit

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

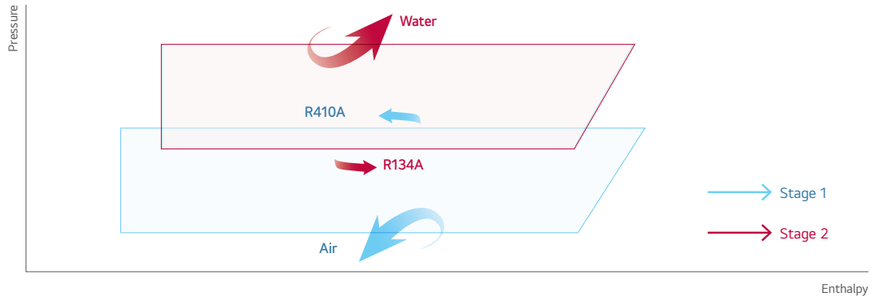


※ The Free HR Unit function will be available in 1H,'25 by applying MULTI V ***i***. However, the schedule for this function may change.
※ When applying the Hydro Kit for heating only, the Hydro Kit can be connected to the outdoor unit without the HR Unit.
※ There are some restrictions on the installation of the Free HR Unit, such as the combination ratio and the height difference between the outdoor unit and the Hydro Kit. Therefore, you must check the restrictions in advance by contacting the LG sales engineer who is responsible for your country.

High Temperature HYDRO KIT Cycle Diagram

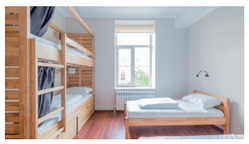


High Temperature Technology



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

ARNH18GK1B4 / ARNH24GK1B4
ARNH30GK1B4



MODEL				UNIT	ARNH18GK1B4	ARNH24GK1B4	ARNH30GK1B4
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 9016	RAL 9016	RAL 9016
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	563 x 1,082 x 375	563 x 1,082 x 375	563 x 1,082 x 375
Weight	Net			kg	38.8	38.8	38.8
	Shipping			kg	43.7	43.7	43.7
Heat Exchanger	Refrigerant to Water	Type		-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity		EA	1	1	1
		Number of Plate		EA	52	52	52
		Water Volume		ℓ	0.7	0.7	0.7
		Rated Water Flow		ℓ/min	15.8	20.1	25.9
Head Loss				m	0.49	0.76	1.19
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			-	BLDC	BLDC	BLDC
	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			-	30 mesh	30 mesh	30 mesh
	Material			-	Stainless Steel	Stainless Steel	Stainless Steel
Relief Valve	Pressure Limit	Upper Limit		bar	3.0	3.0	3.0



MODEL				UNIT	ARNH18GK1B4	ARNH24GK1B4	ARNH30GK1B4
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)			mm^2 x cores	4.0 x 3C	4.0 x 3C	4.0 x 3C
Flow Sensor	Type			-	Vortex	Vortex	Vortex
	Model			-	SIKA VVX20	SIKA VVX20	SIKA VVX20
	Measuring Range	Min. ~ Max.		ℓ/min	5 ~ 80	5 ~ 80	5 ~ 80
	Flow (Trigger Point)	Min.		ℓ/min	7.0	7.0	7.0
Temperature Control				-	Microprocessor, Thermostat for Cooling and Heating	Microprocessor, Thermostat for Cooling and Heating	Microprocessor, Thermostat for Cooling and Heating
Water Tank Temperature Sensor	Type (Sensor Holder)			-	Male PT 1/2 inch	Male PT 1/2 inch	Male PT 1/2 inch
	Length			m	12	12	12
Sound Absorbing Thermal Insulation Material				-	Foamed Polystrene	Foamed Polystrene	Foamed Polystrene
Safety Device				-	Fuse	Fuse	Fuse
Piping Connections	Water Side		Inlet	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
			Outlet	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
	Refrigerant Side		Liquid	mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
			Gas	mm(inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Power Cable Supply Cable (H07RN-F)				mm^2 x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Communication Cable (VCTF-SB)				mm^2 x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Power Cable Supply Cable (H07RN-F)				mm^2 x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Refrigerant	Refrigerant to Water		Type	-	R410A / R32	R410A / R32	R410A / R32
			Additional Refrigerant Charge	kg (lbs)	0.52 / 0.43	0.52 / 0.43	0.52 / 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

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes.
   And "Electric characteristics" chapter should be considered for electrical work and design.
   Especially the power cable and circuit breaker should be selected in accordance with that.
3. Performances are based on the following conditions :
   - Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
   - Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
   - Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. This product contains Fluorinated greenhouse gases.
5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.

ARNH18GK5A4 / ARNH24GK5A4
ARNH30GK5A4



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



MODEL		UNIT	ARNH18GK5A4	ARNH24GK5A4	ARNH30GK5A4
Electric Backup Heater	Type	-	Sheath	Sheath	Sheath
	Power Supply	V / Ø / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
	Number of Heating Coil	EA	2	2	2
	Capacity Comnination	kW	3	3	3
	Power Supply Cable (H07RN-F)	mm^2 x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Heat Exchanger (Refrigerant to Water)	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
	Quantity	EA	1	1	1
	Number of Plate	Sheet	52	52	52
Refrigerant Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Sound Power Level	Heating (Rated)	dB (A)	42	42	42
Dimensions	Net (W x H x D)	mm	600 x 1,750 x 660	600 x 1,750 x 660	600 x 1,750 x 660
	Shipping (W x H x D)	mm	660 x 2,009 x 750	660 x 2,009 x 750	660 x 2,009 x 750
Weight	Net	kg	118	118	118
	Shipping	kg	137	137	137
Connecting Cable	Power Supply Cable (H07RN-F)	mm^2 x cores	1.5 x 3C	1.5 x 3C	1.5 x 3C
	Communication Cable (VCTF-SB)	mm^2 x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes.
   And "Electric characteristics" chapter should be considered for electrical work and design.
   Especially the power cable and circuit breaker should be selected in accordance with that.
3. Performances are based on the following conditions :
   - Cooling : Inlet/Outlet Water Temp. 23°C/18°C, Outdoor Air Temp. 35°CDB / 24°CWB
   - Heating : Inlet/Outlet Water Temp. 30°C/35°C, Outdoor Air Temp. 7°CDB / 6°CWB
   - Interconnected Pipe Length is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
4. This product contains Fluorinated greenhouse gases.
5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.

ARNH04GK2B4 / ARNH10GK2B4
ARNH16GK2B4



MODEL			UNIT	ARNH04GK2B4	ARNH10GK2B4	ARNH16GK2B4
Capacity (Rated)		Cooling	kW	12.3	28.0	46.4
			kcal/h	10,580	24,100	39,900
			Btu/h	42,000	95,900	158,300
		Heating	kW	13.8	31.5	52.0
			kcal/h	11,870	27,100	44,700
			Btu/h	47,000	107,500	177,400
Input (Rated)		Cooling	kW	0.01	0.01	0.01
		Heating	kW	0.01	0.01	0.01
Casing		Material	-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate
		Color (RAL code)	-	RAL 7030	RAL 7030	RAL 7030
Dimensions	Net	Body (W x H x D)	mm	520 x 631 x 330	520 x 631 x 330	520 x 631 x 330
			inch	20-15/32 x 24-27/32 x 13	20-15/32 x 24-27/32 x 13	20-15/32 x 24-27/32 x 13
Weight	Net	Body	kg (lbs)	30.5 (67.2)	35.5 (78.3)	47 (103.6)
Heat Exchanger	Refrigerant to Water	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1	1
		Number of Plate	EA	26	48	96
		Rated Water Flow	l / min	39.6	92.0	150.0
		Head Loss	kPa	41.0	69.0	54.8
Flow Sensor		Type	-	Vortex	Vortex	Vortex
		Model	-	SIKA VVX20	SIKA VVX25	SIKA VVX25
		Mesasuring Range (Min. ~ Max.)	l / min	5 ~ 80	7 ~ 150	7 ~ 150
		Flow (Trigger Point, Min.)	l / min	7.0	15.0	15.0
Temperature Control			-	Microprocessor, Thermostat for Cooling and Heating		
Water Tank		Type (Sensor Holder)	inch	Male PT 1/2	Male PT 1/2	Male PT 1/2
Temperature Sensor		Length	m	12	12	12
Sound Absorbing Thermal Insulation Material			-	Foamed Polystrene	Foamed Polystrene	Foamed Polystrene
Safety Device				Fuse	Fuse	Fuse
Piping Connections	Water Side	Inlet	inch	Male PT 1	Male PT 1	Male PT 1 1/4
		Outlet	inch	Male PT 1	Male PT 1	Male PT 1 1/4
	Refrigerant Side	Liquid	mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
		Gas	mm(inch)	Ø15.88 (5/8)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Drain Piping Connection				Male PT 1	Male PT 1	Male PT 1
Sound Pressure Level		Cooling	dB(A)	26	26	30
		Heating	dB(A)	26	26	30
Transmission Cable			mm^2	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~1 .5 x 2C
Refrigerant	Refrigerant to Water	Refrigerant name	-	R410A / R32	R410A / R32	R410A / R32
		Additional Refrigerant Charge Amount	kg (lbs)	0.8 (1.76) / 0.66 (1.46)	1.60 (3.53) / 1.32 (2.91)	2.4 (5.29) / 2.9 (6.39)
		GWP (Global Warming Potential)	-	2,087.5	2,087.5	2,087.5
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			V / Ø / Hz	220-230-240 / 1 / 50/60	220-230-240, 1, 50/60	220-230-240 / 1 / 50/60
Running Current		Cooling / Heating	A	0.13 - 0.13 - 0.13	0.13 - 0.13 - 0.13	0.13 - 0.13 - 0.13

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 Water S cannot be connected to Hydro Kit.
5. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.
6. Due to our policy of innovation some specifications may be changed without notification.

Accessories

CHASSIS	ARNH04GK2B4	ARNH10GK2B4	ARNH16GK2B4
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)		
EEV Kit	-		
Multi-tenant Power Module	○		
Robot Cleaner	-		
Pre Filter (Washable)	-		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320		
External Input (1 point)	○		
Wi-Fi	PWFMDD200		

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

ARNH04GK3B4 / ARNH08GK3B4
ARNH04LK3B4 / ARNH08LK3B4



MODEL			UNIT	ARNH04GK3B4	ARNH08GK3B4	ARNH04LK3B4	ARNH08LK3B4
Capacity (Rated)		Heating	kW	13.8	25.2	13.8	25.2
			kcal/h	11,870	21,700	11,870	21,700
			Btu/h	47,000	86,000	47,000	86,000
Input (Rated)		Heating	kW	2.30	5.00	2.30	5.00
Casing		Material	-	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate	Painted Steel Plate
		Color (RAL code)	-	RAL 7030	RAL 7030	RAL 7030	RAL 7030
Dimensions	Net	Body (W x H x D)	mm	520 x 1,074 x 330	520 x 1,074 x 330	520 x1,074 x 330	520 x1,074 x 330
			inch	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13	20-15/32 x 42-9/32 x 13
Weight	Net	Body	kg (lbs)	86.0 (189.6)	90.0 (198.4)	84.0 (185.2)	90.0 (198.4)
Heat Exchanger	Refrigerant to Refrigerant	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1	1	1
		Number of Plate	EA	50	60	50	60
	Refrigerant to Water	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	EA	1	1	1	1
		Number of Plate	EA	76	48	76	48
		Rated Water Flow	l / min	19.8	36	19.8	36
		Head Loss	kPa	5	20	5	20
Flow Sensor		Type	-	Vortex	Vortex	Vortex	Vortex
		Model	-	SIKA VVX20	SIKA VVX20	SIKA VVX20	SIKA VVX20
		Mesasuring Range (Min. ~ Max.)	l / min	5 ~ 80	5 ~ 80	5 ~ 80	5 ~ 80
		Flow (Trigger Point, Min.)	l / min	7.0	7.0	7.0	7.0
Compressor		Type	-	Twin Rotary Inverter	Twin Rotary Inverter	Twin Rotary Inverter	Twin Rotary Inverter
		Piston Displacement	cm^3/rev	52.5	52.5	52.5	52.5
		Number of Revolution	rev/min	3,600	3,600	3,600	3,600
		Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1	4,000 x 1
		Starting Method	-	Direct On Line	Direct On Line	Direct On Line	Direct On Line
		Oil Type	-	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
		Oil Charge	cc	1,300	1,300	1,300	1,300
Temperature Control			-	Microprocessor, Thermostat for Heating			
Water Tank		Type(Sensor Holder)	inch	Male PT 1/2	Male PT 1/2	Male PT 1/2	Male PT 1/2
Temperature Sensor		Length	m	12	12	12	12
Sound Absorbing Thermal Insulation Material			-	Foamed Polystrene			
Safety Device				Fuse, High Pressure Switch			
Piping Connections	Water Side	Inlet	inch	Male PT1	Male PT 1	Male PT1	Male PT 1
		Outlet	inch	Male PT1	Male PT 1	Male PT1	Male PT 1
	Refrigerant Side	Liquid	mm(inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
		Gas	mm(inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø15.88 (5/8)	Ø9.05 (3/4)
Drain Piping Connection				Male PT 1	Male PT 1	Male PT1	Male PT 1
Sound Pressure Level		Heating	dB(A)	44	46	44	46
Transmission Cable			mm^2	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 to Refrigerant	Refrigerant name	-	R410A / R32	R410A / R32	R410A / R32	R410A / R32
		Additional Refrigerant Charge Amount	-	0.8 (1.8) / 0.66 (1.5)	1.0 (2.2) / 0.83 (1.8)	0.8 (1.8) / 0.66 (1.5)	1.0 (2.2) / 0.83 (1.8)
		Control	-	Electronic Expansion Valve			
	Refrigerant to Water	Refrigerant name	-	R134A	R134A	R134A	R134A
		Refrigerant Pre-charge Amount	kg (lbs)	2.3 (5.1)	3.0 (6.6)	2.3 (5.1)	3.0 (6.6)
		GWP (Global Warming Potential)	-	3.29	4.29	3.29	4.29
		Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			V / Ø / Hz	220-230-240, 1, 50/60	220-230-240 / 1 / 50/60	380-400-415 / 3 / 50/60	380-400-415 / 3 / 50/60
Running Current		Cooling / Heating	A	10.56 - 10.10 - 9.68	23.00 - 22.00 - 21.08	6.05 - 5.75 - 5.54	13.16 - 12.50 - 12.05

1) Nominal : Performance tested under EN14511
Note :
1. Capacities are based on the following conditions :
   - Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)
2. Piping Length : Interconnected Pipe Length = 7.5m
3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.
4. MULTI V Water S cannot be connected to Hydro Kit.
5. Due to our policy of innovation some specifications may be changed without notification.

Accessories

CHASSIS	ARNH04GK3B4	ARNH08GK3B4	ARNH04LK3B4	ARNH08LK3B4
Drain Pump	-			
Cassette Cover	-			
Refrigerant Leak Detector	PRLDNVS0 (R410A), PLDRNV1S (R32)			
EEV Kit	-			
Multi-tenant Power Module	○			
Robot Cleaner	-			
Pre Filter (Washable)	-			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

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

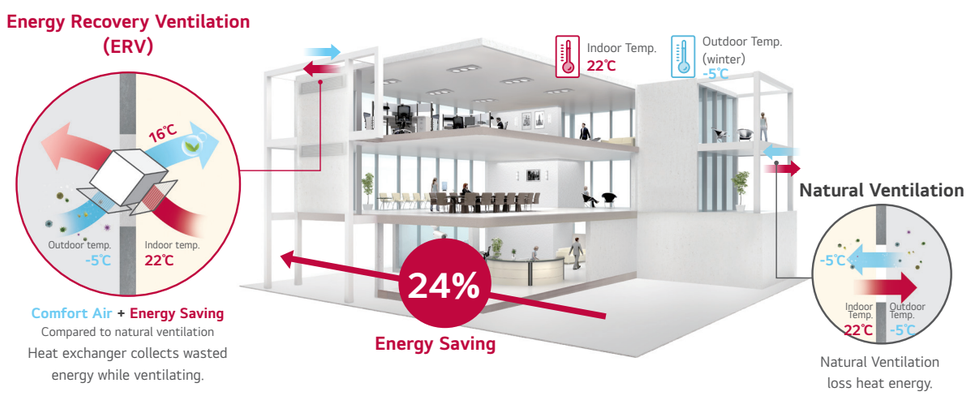


VENTILATION SOLUTIONS

ERV 216
ERV with DX coil 225
Residential ERV 227

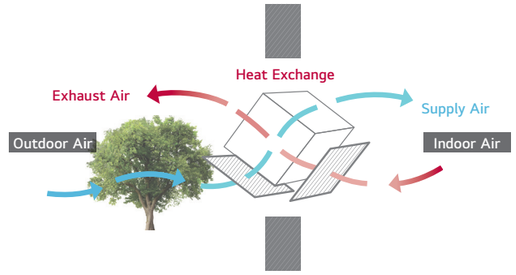


Necessity of ERV



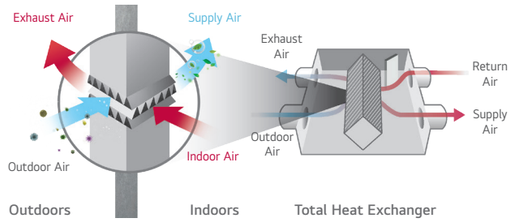
High Efficiency Heat Exchanger

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



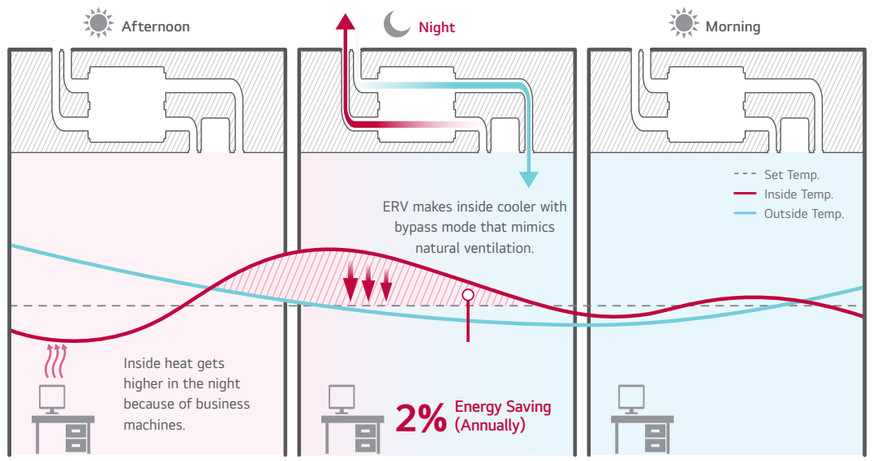
Cross Flow System

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



Night Time Free Cooling

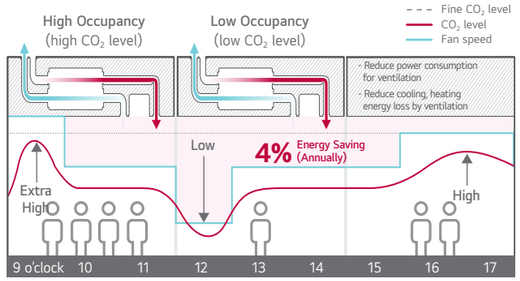
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



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

CO_2 Auto Operation

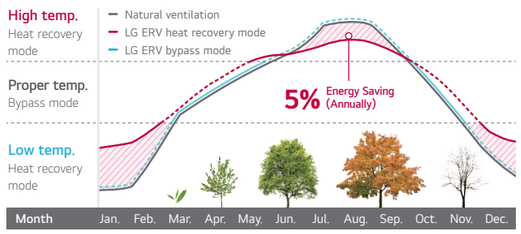
LG ERV reduces energy loss with auto fan speed control following CO_2 level.

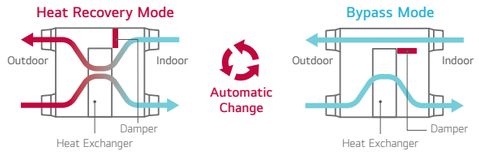


※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions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

Seasonal Auto Operation

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

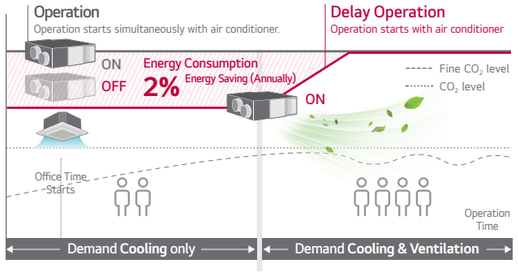




※ This function is operated with 'Auto' mode by wired remote control.
※ Energy saving ratio can be differed by weather condition.
※ Test Condition: - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

Delay Operation

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



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

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 a new wired remote controller.



Main Display

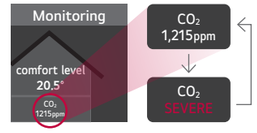
If the CO_2 level is above 900ppm in the room, the red mark appears.



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

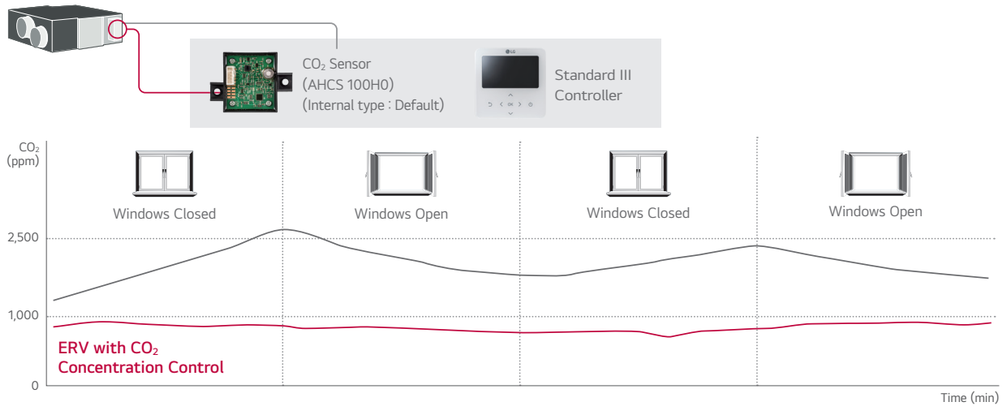
Further Information

CO_2 level and room condition are displayed continuously.



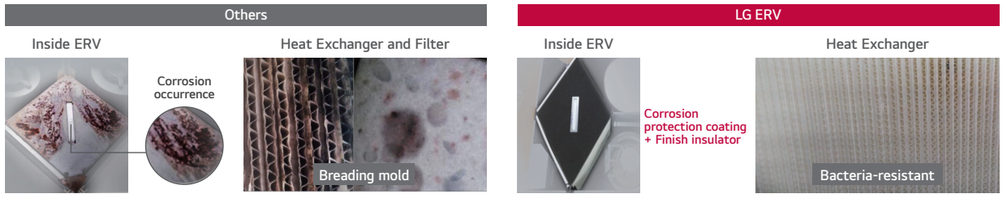
CO_2 Concentration Control

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.



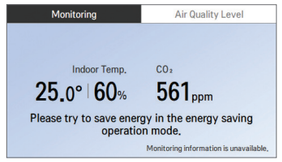
Easy Control

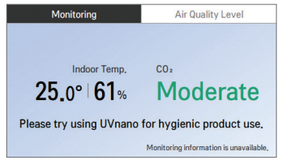
The wired remote controller is easy to use.



Easy

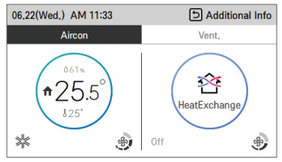
- Navigation buttons, easy to use.
- Simple installation setting





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

Combine Several Units

16 units group control is available with 1 remote controller.



Good looking interior



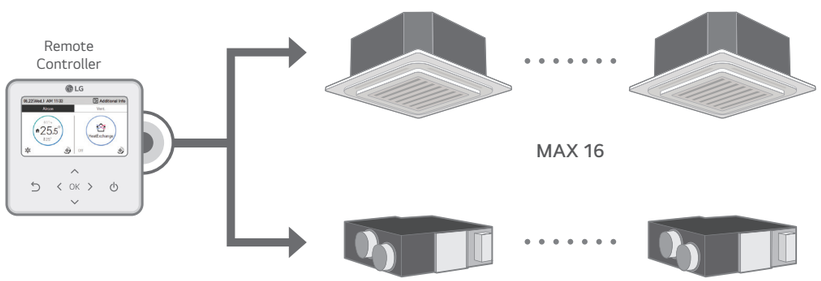
Conventional | New

Controller & installation cost saving



Interlocking with Air Conditioning System

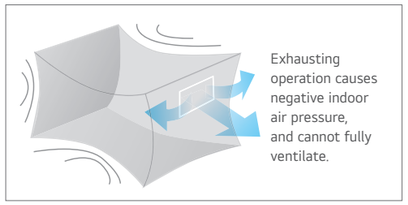
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with 1 remote controller.



Fast Ventilation Mode

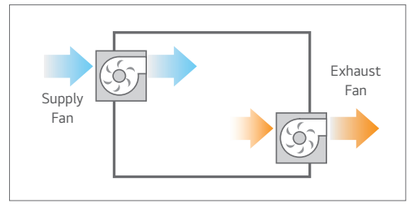
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



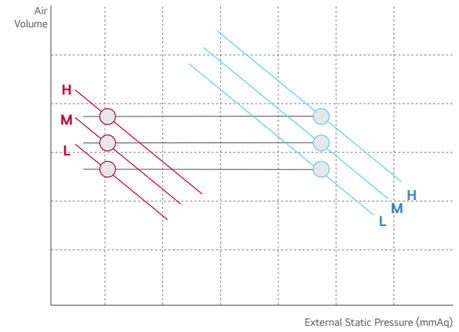
Exhausting and Supplying Simultaneously

Fast Ventilation Mode



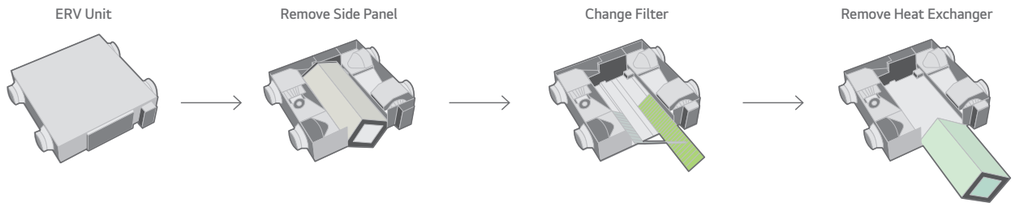
External Static Pressure Control

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	988 x 273 x 1,014		
Weight	Body		kg	44		
Power Supply			V / Ø / Hz	220-240 / 1 / 50		
Normal Air flow			m^3/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 / 78 / 52	150 / 125 / 60	247 / 230 / 95
	Air Flow	SH / H / L	m^3/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	79 / 79 / 82	78 / 78 / 81
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	75 / 75 / 80	75 / 75 / 78
		Cooling (SH / H / L)	%	66 / 66 / 68	71 / 71 / 75	68 / 68 / 75
	Energy Label	A+ to G Scale	-	A	B	B
	Sound Pressure Level	SH / H / L	dB(A)	29 / 28/ 24	35 / 32 / 26	37 / 36 / 28
	Sound Power Level	SH / H / L	dB(A)	50	53 / 50 / 42	57 / 56 / 46
Bypass Mode	Operating Step		-	Super-high / High / Low		
	Current	SH / H / L	A	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50	1.65 / 1.56 / 0.80
	Power Input	SH / H / L	W	97 / 78 / 52	150 / 125 / 60	247 / 230 / 95
	Air Flow	SH / H / L	m^3/h	250 / 250 / 150	350 / 350 / 210	500 / 500 / 320
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	150 / 100 / 50	150 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	29 / 29/ 25	35 / 33 / 26	37 / 37 / 28
Duct Work		Qty	EA	4		
		Size (Ø)	mm	Ø200		
Supply Air Fan		Qty	EA	1		
		Type	-	Direct-Drive Sirocco		
Exhaust Air Fan		Qty	EA	1		
		Type	-	Direct-Drive Sirocco		
Filters		Qty	EA	2		
		Type	-	Cleanable Fibrous Fleeces		
		Size (W x H x D)	mm	855 x 10 x 160	855 x 10 x 166	

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

Accessories

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

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

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



MODEL			UNIT	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5
Dimensions (W x H x D)	Body		mm	1,101 x 405 x 1,230		1,353 x 815 x 1,230	
Weight	Body		kg	63		130	
Power Supply			V / Ø / Hz	220-240 / 1 / 50		220-240 / 1 / 50	
Normal Air flow			m^3/h	800	1,000	1,500	2,000
ERV Mode	Operating Step		-	Super-high / High / Low		Super-high / High / Low	
	Current	SH / H / L	A	2.13 / 1.75 / 1.00	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	328 / 266 / 144	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	m^3/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	%	81 / 81 / 83	79 / 79 / 80.9	81 / 81 / 83	79 / 79 / 80.9
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	73 / 73 / 76	71 / 71/ 73	73 / 73 / 76	71 / 71/ 73
		Cooling (SH / H / L)	%	66 / 66 / 70	64 / 64 / 67	66 / 66 / 70	64 / 64 / 67
	Sound Pressure Level	SH / H / L	dB(A)	40 / 36 / 32	40 / 37 / 33	43 / 39 / 35	43 / 40 / 36
	Sound Power Level	SH / H / L	dB(A)	56 / 53 / 47	59 / 56 / 52	59 / 56 / 50	62 / 59 / 55
Bypass Mode	Operating Step		-	Super-high / High / Low		Super-high / High / Low	
	Current	SH / H / L	A	2.13 / 1.75 / 1.00	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
	Power Input	SH / H / L	W	328 / 266 / 144	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	m^3/h	800 / 800 / 660	1,000 / 1,000 / 800	1,500 / 1,500 / 1,200	2,000 / 2,000 / 1,600
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	41 / 37 / 33	41 / 38 / 34	44 / 40 / 36	44/ 41 / 37
Duct Work		Qty	EA	4		4 + 2	
		Size (Ø)	mm	Ø250		Ø250 + Ø350	
Supply Air Fan		Qty	EA	1		2	
		Type	-	Direct-Drive Sirocco		Direct-Drive Sirocco	
Exhaust Air Fan		Qty	EA	1		2	
		Type	-	Direct-Drive Sirocco		Direct-Drive Sirocco	
Filters		Qty	EA	2		4	
		Type	-	Cleanable Fibrous Fleeces		Cleanable Fibrous Fleeces	
		Size (W x H x D)	mm	1,148 x 6 x 245		1,148 x 6 x 245	

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

Accessories

CHASSIS	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5
Drain Pump		-		
Cassette Cover		-		
Refrigerant Leak Detector		-		
EEV Kit		-		
Multi-tenant Power Module		-		
Robot Cleaner		-		
Pre Filter (Washable)		-		
Ion Generator		-		
CO_2 Sensor		○ (embedded)		
Ventilation Kit		-		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)		
External Input (1 point)		-		
Wi-Fi		-		

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

ZE050GUCCA0 / ZE080GUCDA0
ZE100GUCDA0



※ 2Q Launching

- Ventilation with sensible and latent heat recovery
- Air flow coverage from 500 to 1,000 m^3/h
- Compact size from 273 mm height
- Various filters can be used to improve indoor air quality (IAQ)
  - Filters grades : ePM10 50% (M5), ePM1 70% (F7), ePM1 80% (F9)
  - A second filter can be installed on the supply air side
- Built-in CO_2 concentration sensor
  - CO_2 Auto Operation based on CO_2 level
- Wi-Fi connection (optional)
- Hygienic material with Safe plus insulation
- Group control available up to 16 units with one wired controller

MODEL			UNIT	ZE050GUCCA0	ZE080GUCDA0	ZE100GUCDA0
Dimensions (W x H x D)	Body		mm	1,014 × 273 × 988	1,062 x 365 x 1,240	
Weight	Body		kg	41.7	54.4	54.4
Power Supply			V / Ø / Hz		220-240 / 1 / 50-60	
Normal Airflow Rate			m^3/h	500	800	1,000
ERV Mode	Operating Step		-		High / Mid / Low	
	Current	SH / H / L	A	1.7 / 1.2 / 0.8	2.2 / 1.4 / 0.8	3.0 / 1.9 / 1.0
	Power Input	SH / H / L	W	250 / 160 / 105	330 / 200 / 100	475 / 280 / 140
	Airflow Rate	SH / H / L	m^3/h	500 / 400 / 300	800 / 640 / 480	1,000 / 800 / 600
	External Static Pressure	SH / H / L	Pa	150 / 96 / 54	160 / 102 / 57	160 / 102 / 57
	Temperature Exchange Efficiency	SH / H / L	%	78	75	73
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	75 / 75 / 78	73 / 76 / 79	72 / 73 / 74
		Cooling (SH / H / L)	%	68 / 68 / 75	68 / 70 / 73	63 / 67 / 71
	Sound Pressure Level	SH / H / L	dB(A)	39 / 34 / 29	39 / 34 / 28	40 / 36 / 29
	Sound Power Level	SH / H / L	dB(A)	TBD	TBD	TBD
Bypass Mode			-		○	
Duct Work		Qty	EA		4	
		Size (Ø)	mm	200	250	250
Supply Air Fan		Qty	EA		1	
		Type	-		Direct-Drive Sirocco	
Exhaust Air Fan		Qty	EA		1	
		Type	-		Direct-Drive Sirocco	
Filters		Default	Grade (Qty)		OA: F7 RA: M5	
		Option	Grade		OA: M5, F7, F9 SA: M5, F7, F9	

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

Accessories

CHASSIS	ZE050GUCCA0	ZE080GUCDA0	ZE100GUCDA0
Filter		M5, F7, F9	
CO_2 Sensor		Embedded	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	
Wi-Fi		PWFMDD200	

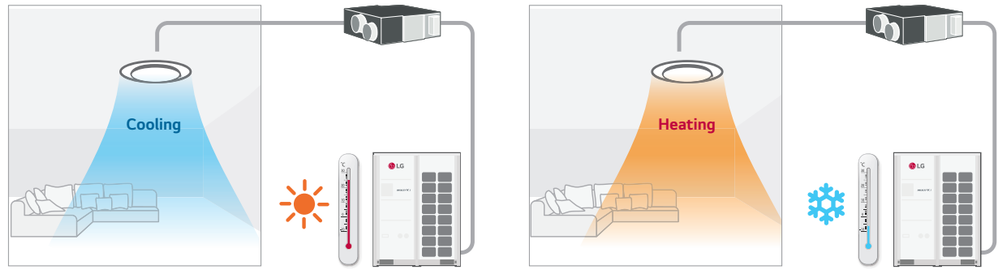
※ ○ : Applied, - : Not applied
Option : Refer to model name in table

LG Filters

MODEL (CMH)	500	800, 1,000
M5	AFT050AEM50	AFT100AEM50
F7	AFT050AEF70	AFT100AEF70
F9 (Lanching date will be updated)	AFT050AEF90	AFT100AEF90

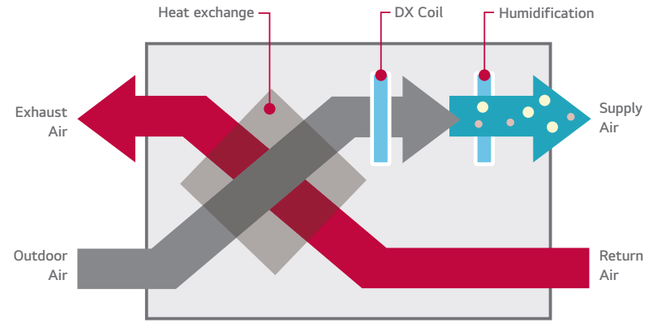
Providing Cool & Warm Fresh Air

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



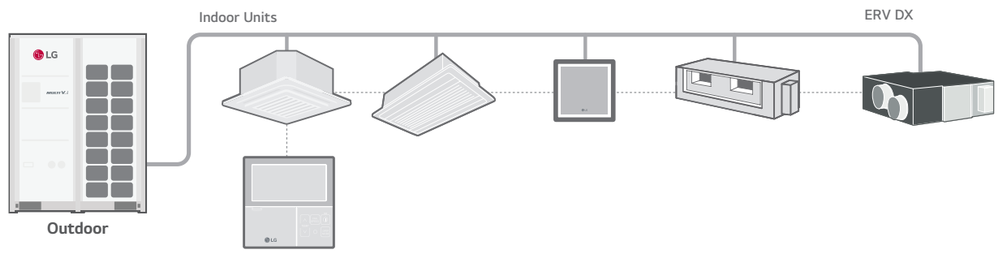
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



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



MODEL		UNIT	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air Conditioning Load	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72	6.73	9.80	11.72
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78
Enthalpy Exchange Efficiency	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66
Operation Range	Outdoor air Temperature	°C	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80	150 / 100 / 70
Humidifier	System	-	Natural Evaporating Type			-		
	Amount	kg/h	2.70	4.00	5.40	-		
	Pressure Feed Water	Mpa	0.02 ~ 0.49			-		
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant		-	R410A					
Power Supply		V / Ø / Hz	220-240 / 1 / 50-60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat Exchange System		-	Air to Air Cross Flow Total Heat (Sensible + Latent heat) Exchange			Air to Air Cross Flow Total Heat (Sensible + Latent heat) Exchange		
Heat Exchange Element		-	Specially Processed Non-flammable Paper			Specially Processed Non-flammable Paper		
Air Filter		-	Multidirectional Fibrous Fleeces			Multidirectional Fibrous Fleeces		
Dimensions	W x H x D	mm	1,667 x 365 x 1,140			1,667 x 365 x 1,140		
Net Weight		kg	105			98		
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 at an anechoic chamber.
6. The specifications, designs and information here are subject to change without notice.

Accessories

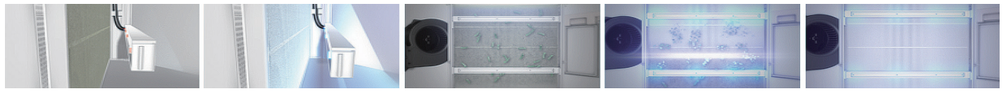
CHASSIS	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump	-					
Cassette Cover	-					
EEV Kit	-					
Multi-tenant Power Module	-					
Robot Cleaner	-					
Pre Filter (Washable)	-					
Ion Generator	-					
CO_2 Sensor	AHCS100H0					
Ventilation Kit	-					
IR Receiver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

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

Clean Air Supply

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



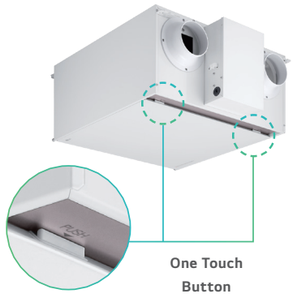


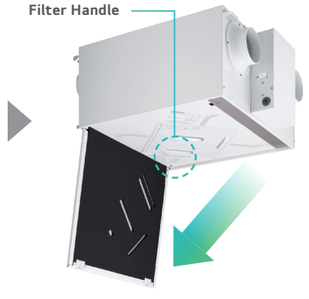
UVnano Technology Applied

It Prevents 99.99 % of Bacteria and Viruses from Growing

Easy Filter Maintenance

Via the one-touch button, the user can open the access door at the bottom of the unit, pull down the heat exchanger to change the filters. It is easy and simple without the need for any additional tools.





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



Hold the filter handle and pull it out down.

Smart Control

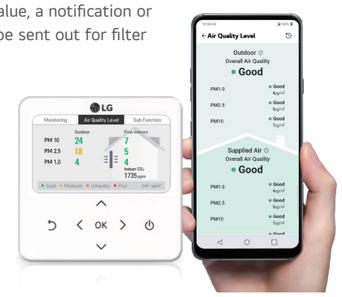
① Dual Laser Fine Dust Sensor

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



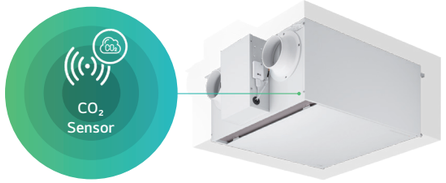
When the measured dust concentration in the air supplied to the room is higher than the pre-set value, a notification or text message will be sent out for filter replacement.

* Wi-Fi Modem is Optional.



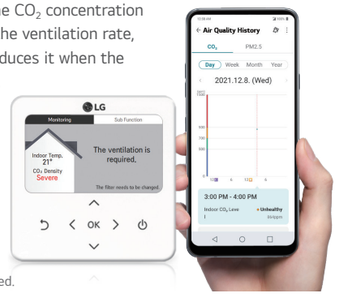
② CO_2 Monitoring

The embedded CO_2 sensor monitors the carbon dioxide concentration in the room in real time and automatically controls the ventilation rate.



The system monitors the CO_2 concentration in the room and adjusts the ventilation rate accordingly. When the CO_2 concentration is high, it increases the ventilation rate, and automatically reduces it when the concentration is low.

* Wi-Fi Modem is Optional.



* CO_2 Sensor is Embedded.

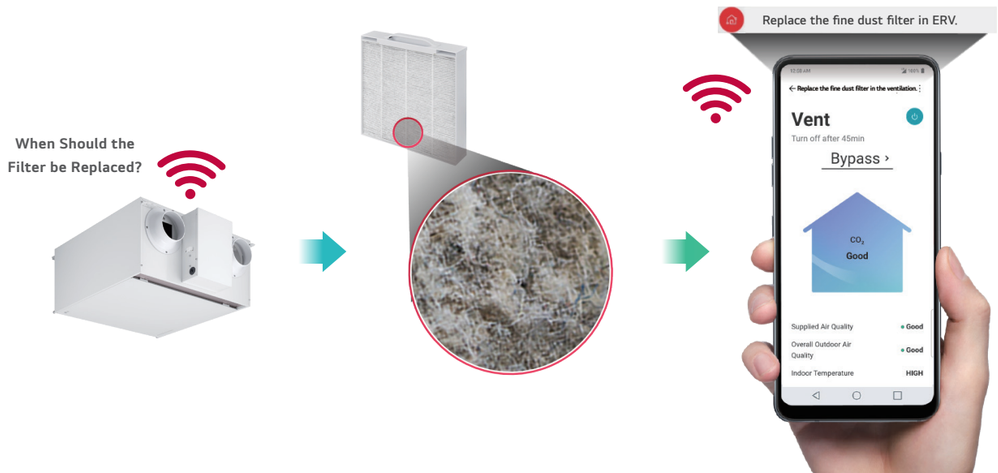
③ Control ERV Anytime, Anywhere

Wired Remote Control	Mobile	Third-Party Compatibility
		
- Indoor CO_2 concentration - Dust concentration in the supply air - Dust concentration in outdoor air	Check and control the Indoor air condtioner anytime, anywhere	With the dry contact connected, Modbus protocol is available.

* To use 3rd party wall pad, please contact Sales Engineer.

④ Filter Maintenance Alarm

The filter replacement notification and text message are sent when the fine dust concentration is higher than the pre-set point.



LZ-H015GBA6 / LZ-H020GBA6



MODEL			UNIT	LZ-H015GBA6	LZ-H020GBA6
Dimensions (W x H x D)	Body		mm	640 x 320 x 640	640 x 320 x 640
Weight	Body		kg	23	23
Power Supply			V / Ø / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
ERV Mode	Operating Step		-	SH / H / L	SH / H / L
	Current	SH / H / L	A	0.43 / 0.38 / 0.23	0.59 / 0.51 / 0.26
	Power Input	SH / H / L	W	56 / 49 / 26	79 / 71 / 30
	Air Flow	SH / H / L	CMH	150 / 150 / 80	200 / 200 / 100
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	100 / 70 / 50
	Temperature Exchange Efficiency	Heating (SH / H / L) (ErP)	%	85	82
		Heating (SH / H / L) (JIS)	%	80 / 80 / 84	78 / 78 / 82
		Cooling (SH / H / L) (JIS)	%	74 / 74 / 83	70 / 70/ 81
	Enthalpy Exchange Efficiency	Heating (SH / H / L) (JIS)	%	79 / 79 / 83	75 / 75 / 81
		Cooling (SH / H / L) (JIS)	%	74 / 74 / 80	68 / 68 / 76
	Energy Label	A+ to G Scale	-	A	A
	Sound Power Level	SH / H / L	dB(A)	53 / 51 / 45	55 / 53 / 46
	Sound Pressure Level	SH / H / L	dB(A)	28 / 26 / 21	30 / 28 / 22
Bypass Mode	Current	SH / H / L	A	0.45 / 0.40 / 0.26	0.60 / 0.52 / 0.29
	Power Input	SH / H / L	W	63 / 53 / 31	84 / 73 / 35
	Air Flow	SH / H / L	CMH	150 / 150 / 80	200 / 200 / 100
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	100 / 70 / 50
Operation Range	Outdoor Air Temperature / Relative Humidity		℃ / %	-10 ~ 40 / 20 ~ 80	-10 ~ 40 / 20 ~ 80
Duct Work	Qty		EA	4	4
	Size (Ø)		mm	125	125
Fan Motor	Supply Air Fan		RPM	1,850 / 1,710 / 1,300	2,050 / 1,910 / 1,400
	Exhaust Air Fan		RPM	1,750 / 1,600 / 1,250	1,910 / 1,770 / 1,320
	Max.		RPM	2,100	2,100
	Min.		RPM	1,000	1,000
Filters	Grade[1]		-	F8	F8
	Size (W x H x D)		mm	278 x 276 x 50	278 x 276 x 50

Note :
1. Temperature and Enthalpy Exchange Efficiency are based on the following conditions. Temperature Exchange Efficiency is tested at heating conditions.
   - Cooling : Indoor Ambient Temp. 26.5°CDB / 64.5%RH, Outdoor Ambient Temp. 34.5°CDB / 75%RH
   - Heating : Indoor Ambient Temp. 20.5°CDB / 59.5%RH, Outdoor Ambient Temp. 5°CDB / 65%RH
2. The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber.
3. The specifications, designs and information here are subject to change without notice.

LZ-H015GBA6 / LZ-H020GBA6



Accessories

CHASSIS	LZ-H015GBA6	LZ-H020GBA6
CO_2 Sensor	Embedded	
UVnano	Embedded	
Pre Filter (Washable)	Embedded	
Dual Laser Fine Dust Sensor	Embedded	
Remote Controller (PREMTB101 / PREMTBB11)	○	
Wi-Fi Modem (PWFMDD200)	○	

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

Functions

MODEL		LZ-H015GBA6	LZ-H020GBA6
Air Purification	UVnano	○	○
	Pre-Filter	○	○
	Fine Filter (ePM1 95%)	○	○
Reliability	Self Diagnosis	○	○
Convenience	Auto Restart	○	○
	Child Lock	○	○
	Forced Operation	○	○
	Group Control	○	○
	Turn On / Off Reservation	○	○
	Schedule	○	○
	Night Time Free Cooling	○	○
	Delayed Operation	○	○
	Airflow Amount Customized Operation	○	○
	Seasonal Customized Operation	○	○
	Seasonal Auto Operation	○	○
Installation	E.S.P. Control	○	○
ETC	Central Control (LGAP)	○	○
	Filter Alarm	○	○
	CO_2 Sensor	○	○
	Wi-Fi	Accessory	Accessory

Note
1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.

NOTE

AHU SOLUTION

LG AHU Solution

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


AHU comm.kit


AHU


Inverter scroll chiller


MULTI V (VRF)

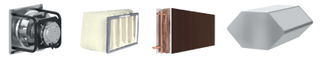
Energy Savings

- High efficiency inverter system
- Smart refrigerent control


EEV kit

Optimized Application

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


EC motor Bag filter DX coil Counter flow heat exchanger

Model Selection Tool

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

Visualized Controller

- Smart wired remote controller
- Central and BMS control


Remote controller (RS3) AC smart 5 Mobile

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

High Reliability

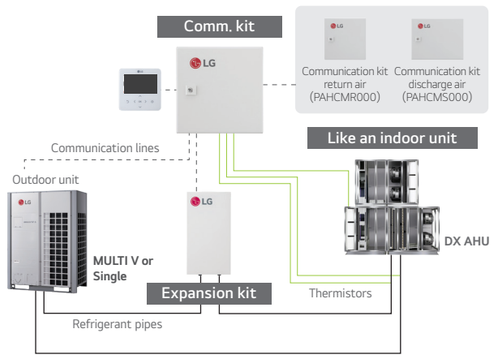
- High efficiency inverter compressor
- Corrosion resistant black fin
- System check using mobile

MULTI V inverter compressor

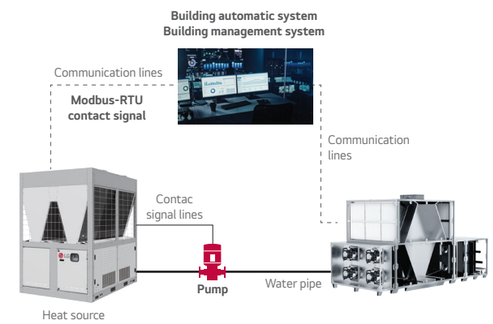
MULTI V corrosion resistant H/X (Black fin)

Application scene

DX AHU Type

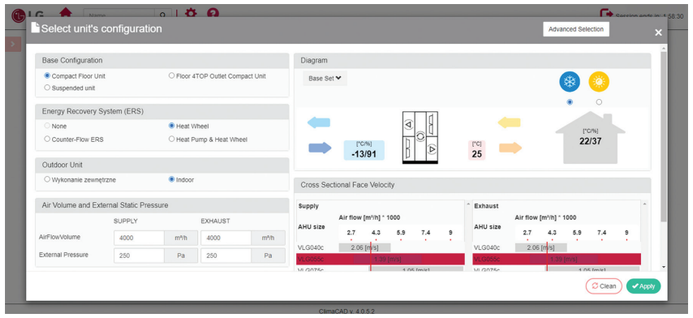


Water AHU Type



LG selection tool

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



※ LG selection tool link : www.lgahuselection.com

Components

EC Motor

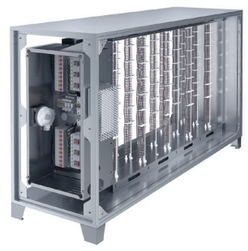


- Available Energy classes: IE4.
- Rated voltage: EC motors of nominal capacity exceeding 0,75 kW - 3 x 400 V AC.
- Rated voltage: EC motors of nominal capacity equal or less 0,75 kW - 1 x 230 V AC.
- Motor widing insulation class: F.
- Protection degree: IP54.
- Maximum working ambient temperature: 55°C.

Rotary Heat Wheel



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



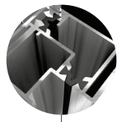
- Max permissible ambient temperature around heating elements: 65°C.
- The heater is available in a version built in the air handling unit and in a duct heater version (without thermal insulation).

Highlight of LG AHU Solution

Modular Type



- Improved longitudinal rigidity of the structure



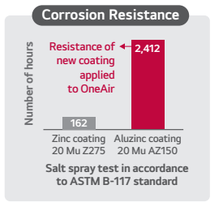
- Aluminum structural post with additional sealing blade and thermal break



- Steel skin coated with Aluzinc AZ 150

Structure and tightness





Direct drive plug fan set



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

DX coil



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

Rotary heat wheel



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

Panel filter



- ISO Coarse 75% (G4)

Bag filter

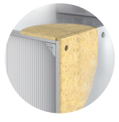


- ISO ePM$_{10}$ 50% (M5) / ePM$_{2.5}$ 65% (F7) / ePM$_{1}$ 70% (F9*)

* F9 is available as secondary filter

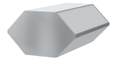
Compact Type (Floor mounted)

Casing



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

Counter flow heat exchanger

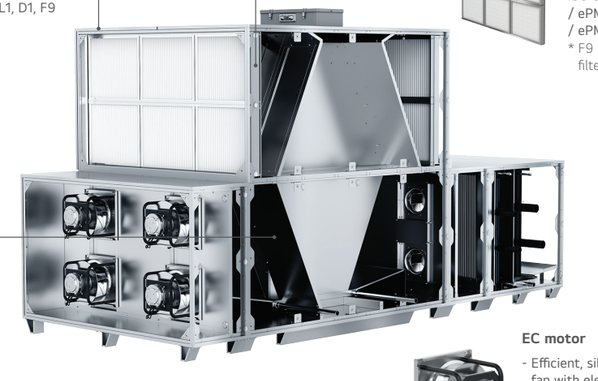


- Highly efficient counter flow hex recovery with by-pass
- Recovery efficiency reaching 90%

Rotary heat wheel



- Up to 86% of energy recovery



Mini-pleat or bag filters

- Air filters with extended high efficiency filtration surface
- ISO ePM$_{10}$ 50%(M5) / ePM$_{2.5}$ 65% (F7) / ePM$_{1}$ 70% (F9*)

* F9 is available as secondary filter

EC motor

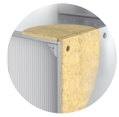


- Efficient, silent and low vibration fan with electronically commutated motor in a IE4 class.

up to **93%** drive efficiency

Compact Type (Ceiling Suspended)

Casing



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

Mini-pleat filters

- Air filters with extended high efficiency filtration surface
- ISO ePM$_{10}$ 50% (M5) / ePM$_{2.5}$ 65% (F7) / ePM$_{1}$ 70% (F9*)

* F9 is available as secondary filter

Control



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

EC motor



- Efficient, silent and low vibration fan with electronically commutated motor in a IE4 class.

up to **93%** drive efficiency



Recuperator by-pass



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

Counter flow heat exchanger



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

Modular type



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

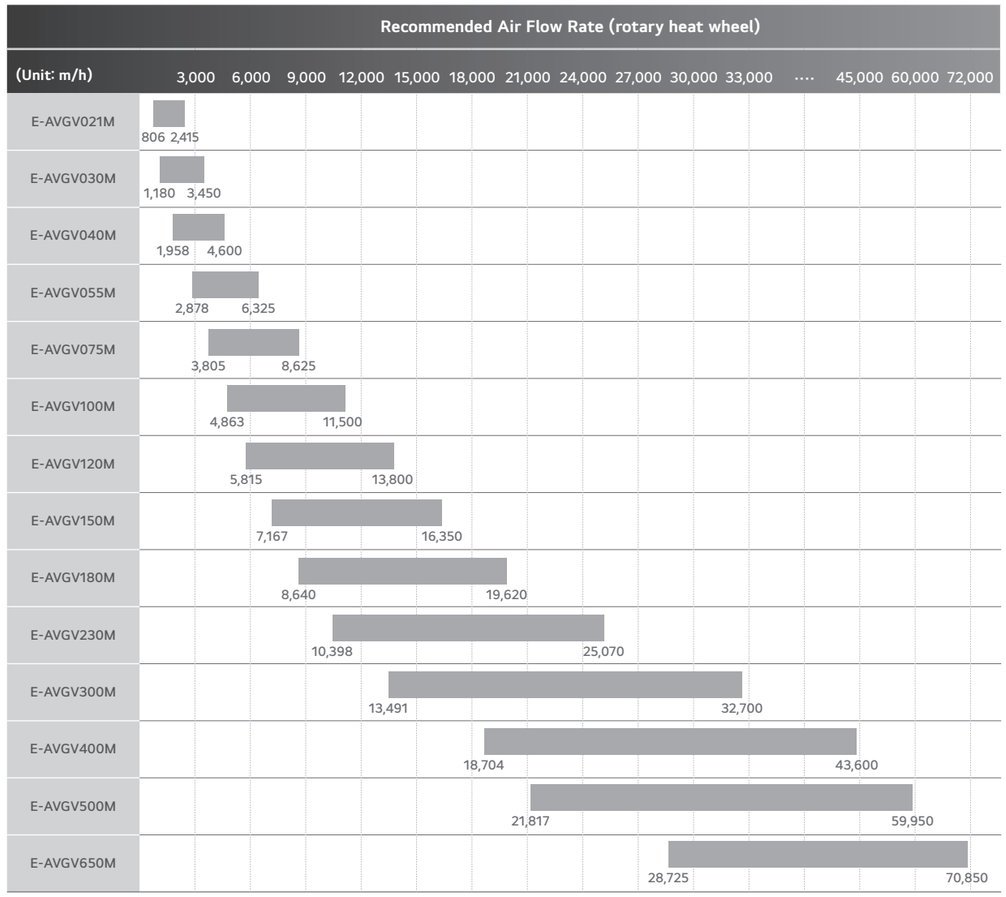
Key Features

Airflow
from **800** m^3/h
to **70,850** m^3/h

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

14 sizes

- **Durable and tight structure**
- **Reliable components**
- **Highly efficient rotary and hex counter flow heat exchanger**
- **User safety**



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

Compact type (Floor mounted)



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

Key Features

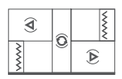
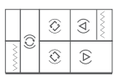
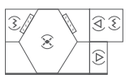
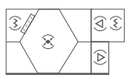
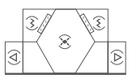
Up to **90%**
of energy recovery efficiency

- **Energy saving and silent fans with ec motors**
- **Plug & play product**
- **Highly efficient rotary and hex counter flow heat exchanger**

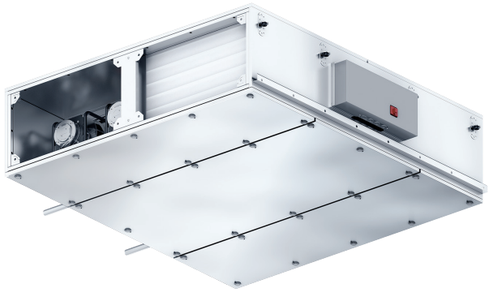
Base unit overall data

Unit Size	Nominal Airflow (m^3/h)	Airflow Range (m^3/h)	Height (mm)	Width (mm)	Duct Connection Heigth (mm)	Duct Connection Width (mm)
E-AVGV021C	2,100	840 - 2,310	991	967	345	860
E-AVGV030C	3,000	900 - 3,300	1,255	967	480	860
E-AVGV040C	4,000	1,200 - 4,400	1,255	1,174	480	1,065
E-AVGV055C	5,500	1,650 - 6,050	1,525	1,345	615	1,235
E-AVGV075C	7,500	2,250 - 8,250	1,765	1,486	735	1,380
E-AVGV100C	10,000	3,000 - 11,000	1,965	1,666	835	1,560
E-AVGV120C	12,000	3,600 - 13,200	2,039	1,897	870	1,790
E-AVGV150C	15,000	4,500 - 16,500	2,241	2,091	970	1,985

Base unit lengths

Unit Size (mm)						
E-AVGV021C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVGV030C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVGV040C	1,240	1,080	1,080	2,230	2,230	2,500
E-AVGV055C	1,240	1,080	1,080	2,290	2,290	2,560
E-AVGV075C	1,240	1,080	1,080	2,530	2,530	2,800
E-AVGV100C	1,300	1,300	1,080	2,570	2,570	2,800
E-AVGV120C	1,300	1,300	1,080	2,670	2,670	2,900
E-AVGV150C	1,300	1,300	1,080	2,730	2,730	2,940

Compact type (Ceiling suspended)



Key Features

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

- **Energy saving and silent fans with ec motors**
- **Plug & play product**
- **Integrated multifunctional controls**
- **Mineral wool insulation**
- **Highly efficient hex counter flow heat recovery**

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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

Base unit overall data

Unit Size	Nominal Airflow (m^3/h)	Airflow Range (m^3/h)	Height (mm)	Width (mm)	Duct Connection Heigth (mm)	Duct Connection Width (mm)
E-AVGV010S	1,000	300 - 1,100	400	1,150	318	515
E-AVGV015S	1,500	450 - 1,650	400	1,550	318	715
E-AVGV020S	2,000	600 - 2,200	490	1,610	408	743
E-AVGV030S	3,000	900 - 3,300	490	2,160	408	1,018

Section length

Unit Size (mm)	
E-AVGV010S	1,500
E-AVGV015S	1,500
E-AVGV020S	1,828
E-AVGV030S	1,828

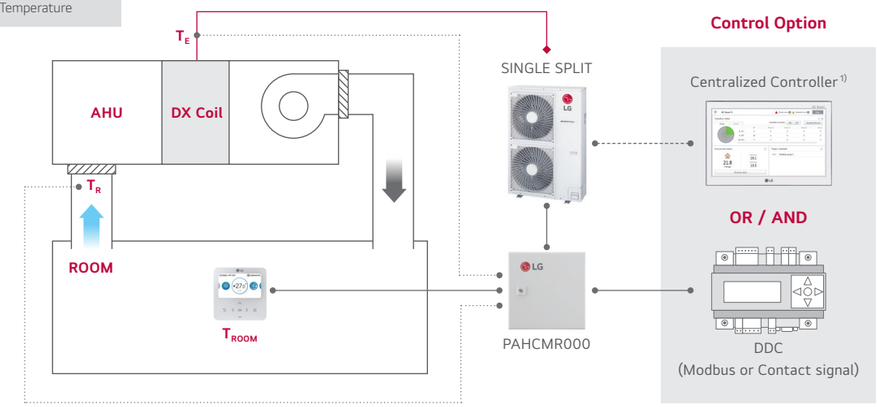
Air Handling Applications

Economically feasible solution for paired application with air handling units.

Return / Room Air Temperature Control

- Temp Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe

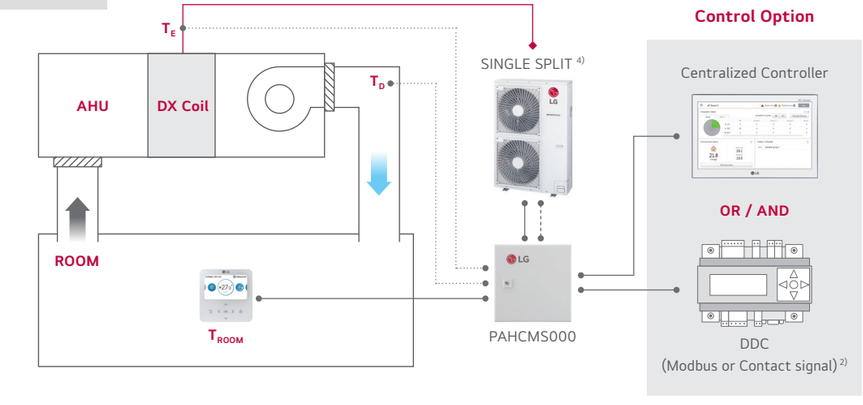
T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



Discharge Air Temperature Control

- Temp Sensors
- Comm. Line
- Central Comm. Line to ODU
- Ref. Pipe

T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_D = Discharge Air Temperature
T_{ROOM} = Room Air Temperature



1) PI485 (PMNFP14A1) is required for using centralized controller.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
3) For more detail, please refer to the PDB of AHU Communication Kit.
4) PI485 (PMNFP14A1) is required for using PAHCMS000.

Communication Kit



PAHCMR000 / PAHCMS000

Specification

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

Function List for Communication Kit

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

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

Combination Table

		R32				R410A	
Model Name		UUA1 UL0	UUB1 U20	UUC1 U40	UUD1 U30 UUD3 U30	UU70W U34	UU85W U74
Capacity Index Range	kBtu/h	9 ~18	18 ~ 30	24 ~ 36	36 ~ 60	70	85
	kW	2.5 ~ 5.0	5.0 ~ 8.0	6.8 ~ 10.0	10.0 ~ 14.6	20.0	25.0
PAHCMR000		X	O	O	O	O	O
PAHCMS000		X	O	O	O	O	O

NOTE



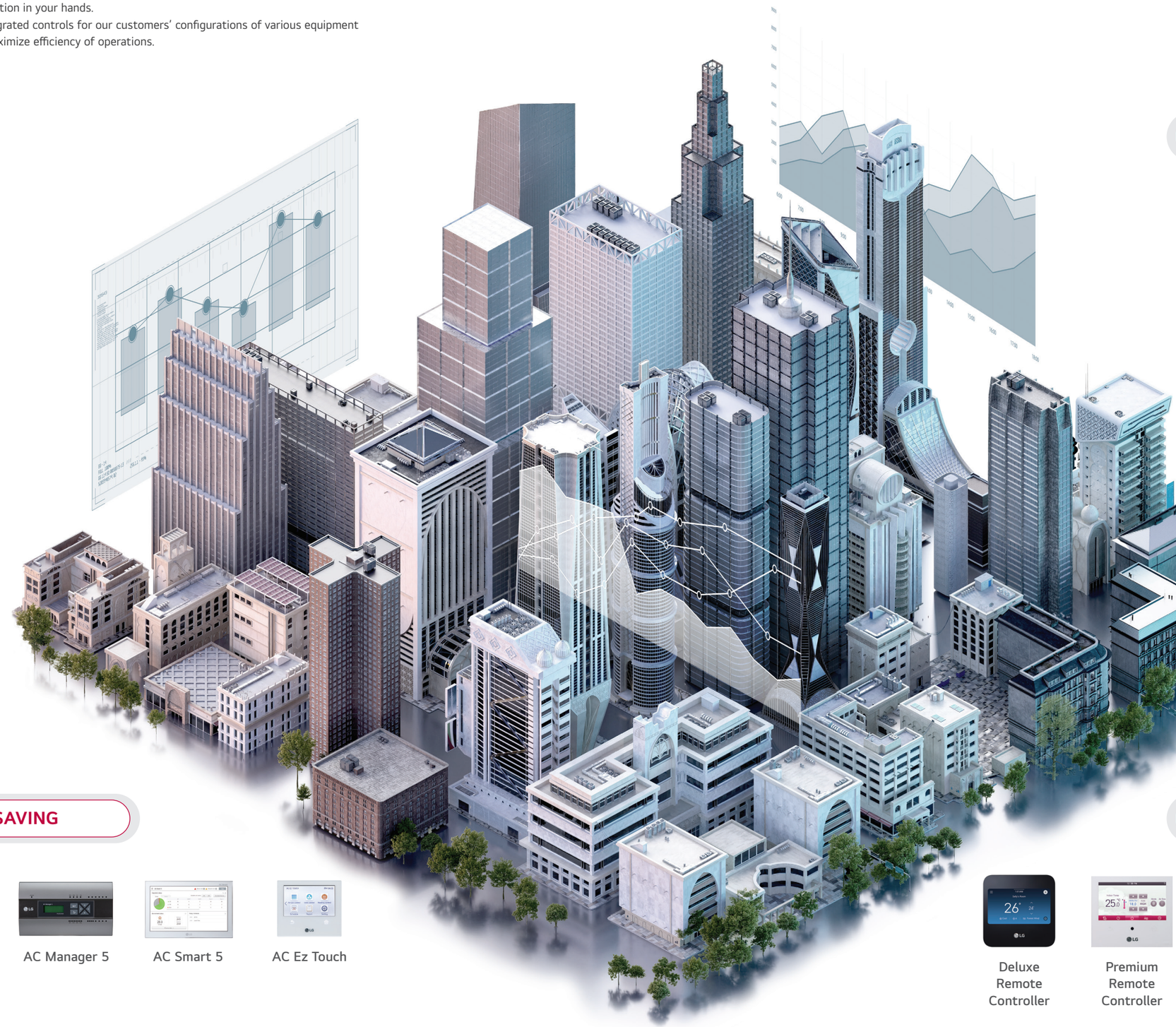
CONTROL SOLUTIONS

Individual control	**250**
Centralized control	**272**
Integration device	**298**

The Perfect Choice for Innovative Building Management

LG BECON HVAC SOLUTION

Innovative building management solution in your hands.
Our optimized solutions provide integrated controls for our customers' configurations of various equipment in buildings. Intuitive interface to maximize efficiency of operations.



EASY EXPANDABILITY



Modbus Gateway



ACU IO Module



ACP 5



ACS IO Module



Dry Contact

ENERGY SAVING



PDI

AC Manager 5

AC Smart 5

AC Ez Touch

SMART MANAGEMENT

Deluxe Remote Controller

Premium Remote Controller



Standard III Remote Controller



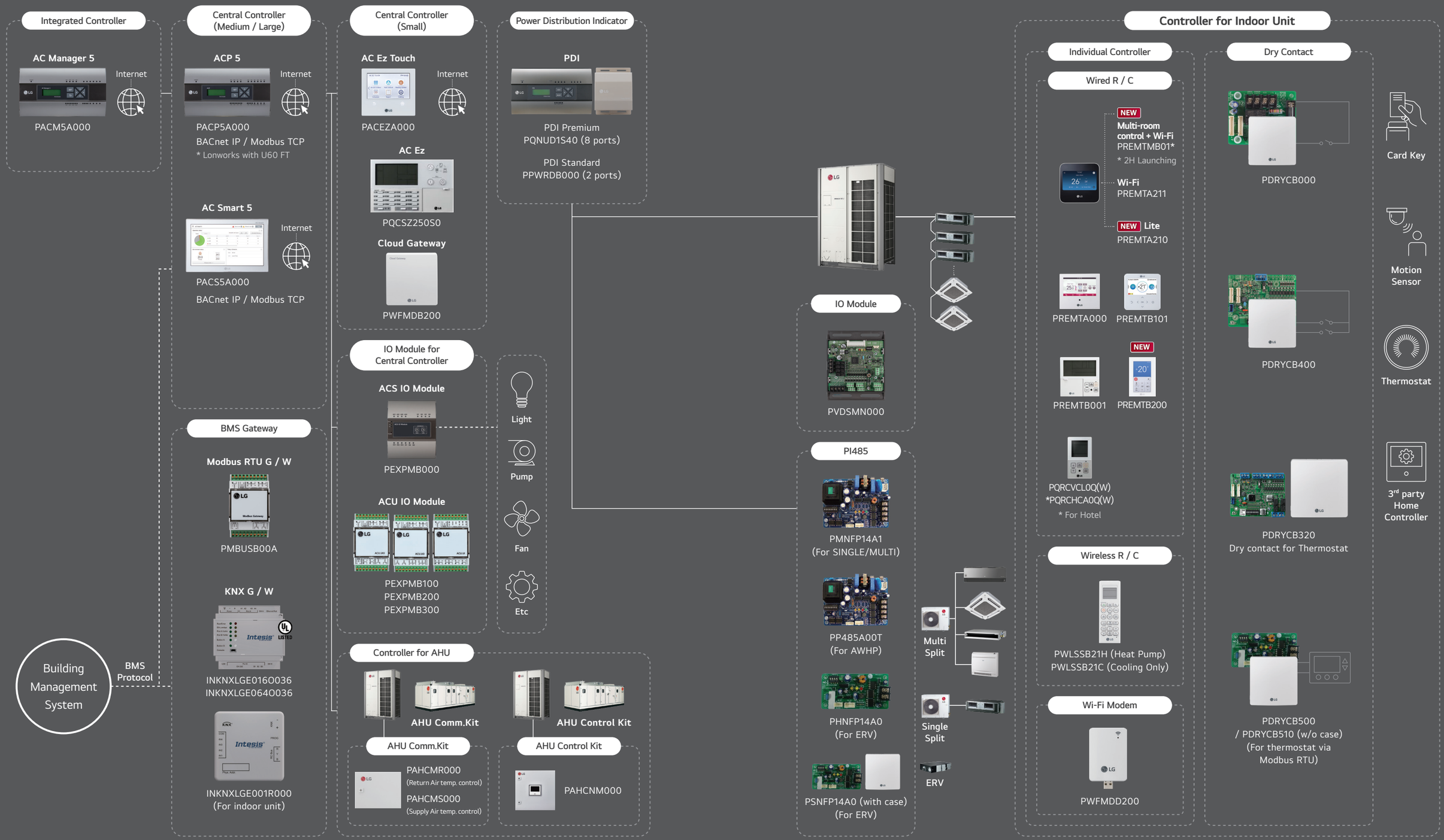
Standard Remote Controller



Wi-Fi Modem (with ThinQ)

CONTROL SYSTEM ARCHITECTURE

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




10:1AM
Sally's Room
26°
24
Cool
A
Forest Wind
LG

Feature Functions

Controller Name		Deluxe			Premium	Wired Remote Controller					Wireless Remote Controller
		Multi-room control + Wi-Fi	Wi-Fi	Lite		Standard III	Standard II	Standard	Simple	Simple (Hotel)	
Model Name		NEW 		NEW 				NEW 			
		PREMTMB01*	PREMTA211	PREMTA210	PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001 PREMTBB01	PREMTB200	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P)
Basic	On / Off	○	○	○	○	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○	○	○	○	○
	Mode Change	○	○	○	○	○	○	○	○	-	○
	Auto Swing	○	○	○	○	○	○	○	○	○	○
	Vane Control (Louver Angle)	○	○	○	○	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	○	○	○	○	-
	Electric Failure Compensation	○	○	○	○	○	○	○	○	○	-
	Indoor Temperature Display	○	○	○	○	○	○	○	○	○	○
	ALL Button Lock (Child Lock)	○	○	○	○	○	○	○	○	○	-
Advanced	Schedule / Timer	Pre-set Schedule Mode [2] / Weekly - Yearly	Pre-set Schedule Mode [2] / Weekly - Yearly	Pre-set Schedule Mode [2] / Weekly - Yearly	Weekly - Yearly	Weekly - Yearly	Weekly	Weekly	-	-	Sleep / On / Off
	Additional Mode Setting [1]	○	○	○	○	○	○	-	-	-	-
	Time Display	○	○	○	○	○	○	○	-	-	○
	Humid. Display	○	○	○	○	○	-	○	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Advanced Lock	Advanced Lock	Advanced Lock	-	Advanced Lock	-	-	-
	Filter Sign	○	○	○	○	○	○	○	-	-	-
	Energy Management [3]	○	○	○	○	○	○	○	-	-	-
	Dual Set Point	○	○	○	○	○	-	-	-	-	-
	Human Detection	○	○	○	-	○	-	-	-	-	-
	Temp, Humidity Compensation	○	○	○	○	○	-	○	-	-	-
	Multi Room Control [1]	○	-	-	-	-	-	-	-	-	-
	Bulit in Wi-Fi	○	○	-	-	-	-	-	-	-	-
	Wi-Fi AP Mode Setting	○	○	○	○	○	○	○	○	○	○
ETC	Operation Status LED	-	-	-	○	○	○	-	○	○	-
	Wireless Remote Controller Receiver	-	-	-	○ [4]	-	○ [4]	○ [4]	○ [4]	○ [4]	-
	Display	4.3 inch Color	4.3 inch Color	4.3 inch Color	5 inch Color	4.3 inch Color	4.3 inch mono	4.3 inch color	2.6 inch mono	2.6 inch mono	2 inch mono
	Size (W x H x D, mm)	110 x 110 x 17	110 x 110 x 17	110 x 110 x 17	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	80 x 120 x 17	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26
	Black Control for Screen Saver	○	○	○	○	○	-	○	-	-	-

* 2H Launching
※ ○: Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Only for Residential GUI (Based on the housing usage patterns in the United States, please assess whether it is applicable for your usage conditions before using it.)
3) Centralized control (PACEZA000 / PACS5A000 / PACP5A000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
4) For ceiling type duct
Note :
1. Indoor unit should have functions requested by the controller
2. If you need more detail, please refer to the manual of product. (http://partner.lge.com: Home> Doc.Library> Manual)

Deluxe Wired Remote Controller

PREMTMB01* (Black) – Multi room control
PREMTA211 (Black) – Wi-Fi
PREMTA210 (Black) – Lite

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





Features & Benefits

- Full-Touch & Slim Design
- Multi Application (Residential or Commercial)
- Built-in Wi-Fi *
  - Remote Control (with ThinQ Compatibility)
  - FOTA **
- Multi Room Control ***
- Easy Installation
  - Installation Wizard (Date & Time, Language, Temperature Unit)
- Energy related functions, Air Quality Monitoring
- Whole Week Scheduling with Mode Setting
  (Home / Away / Sleep / Awake) for Residential
- Humidity / Proximity Sensor
- AI Smart Care

* This function is available for PREMTMB01*, PREMTA211.
** FOTA (Firmware Over The Air) is a wireless method of updating device firmware, allowing updates without manual intervention or physical connections.
*** This function is available for PREMTMB01*.

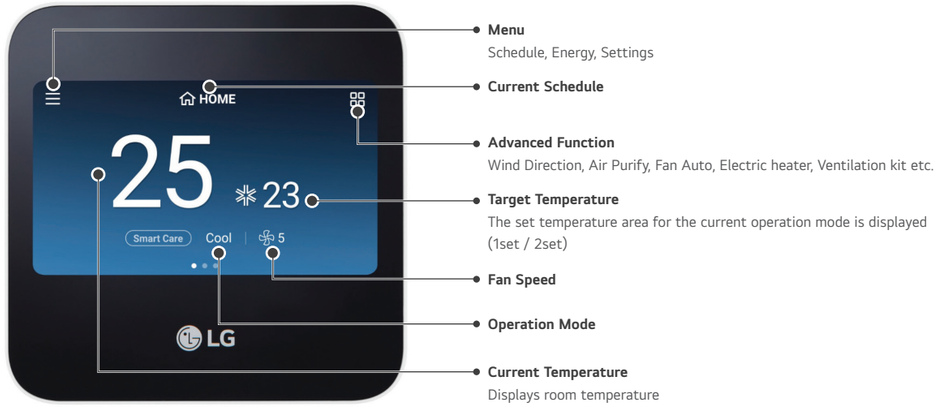
MODEL NAME	PREMTA211
Max. Number of Units	16 (Group Control)
Applicable Unit Types	Air conditioner, ERV, ERV DX, Residential ERV
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto / Emergency Heater / Air Purify / Power Heat / Power Cool / Stop
Additional Mode Setting [1]	Electric Heater / Energy Saving / Fan Auto / Comfort Cooling / Cooling By Ventilation / Air Purify / Robot Cleaning/Humidifi-cation / Mosquito Away / Zone Control / Fast / eSave / Wind Direction
Auto Swing	○
Vane Control (Louver Direction)	○
E.S.P (External Static Pressure) [2]	○
Reservation	Simple / Sleep / On & Off Timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set Temperature Range
Filter Sign	○ (Remain time + Alarm)
Energy Management [3]	AI Energy Control [1] / Check Energy Usage, Operation Time / Target Setting
Operation Status LED	-
Air Purify Control [4]	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	110 x 110 x 17
Black Light for Screen Saver	○
Home Leave	2 Set Point Control

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

Adding Value to the Indoor Space

Full Touch & Easy Access

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



Residential

User Interface

- Friendly GUI

Simple Timer



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

Quick On / Off Button

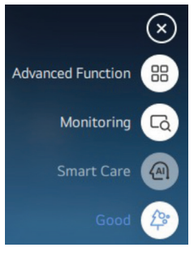


On



Off

Floating Button



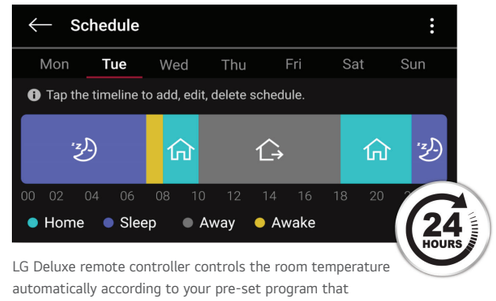
Advanced Function :
Energy Saving, Air Purify, Fan Auto, Humidification, Electric Heater, Ventilation Kit, Comfort Cooling etc..

Monitoring : Smart Care

Smart Care : Enable, Disable

Air Purify : Air Quality Leve l(PM1.0, PM2.5, PM10)

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



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

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

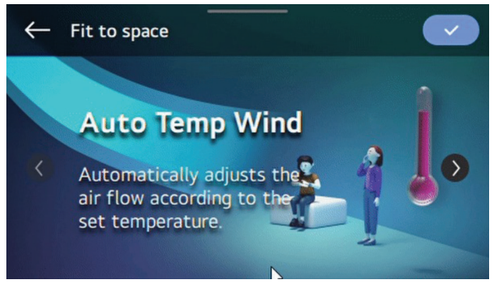
Deluxe Wired Remote Controller

Adding Value to the Indoor Space

User Interface

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

Intuitive Airflow Visualization



Vent Mode Visualization

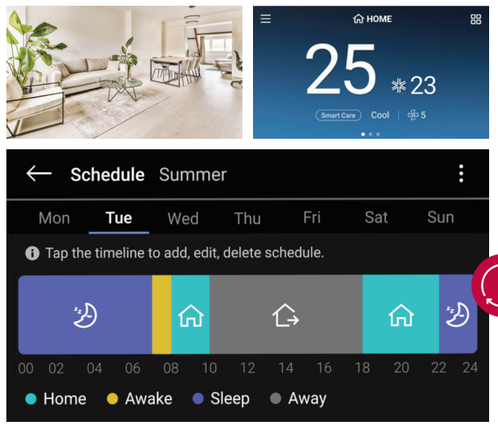


With animations applied, the customer intuitively understands the settings.

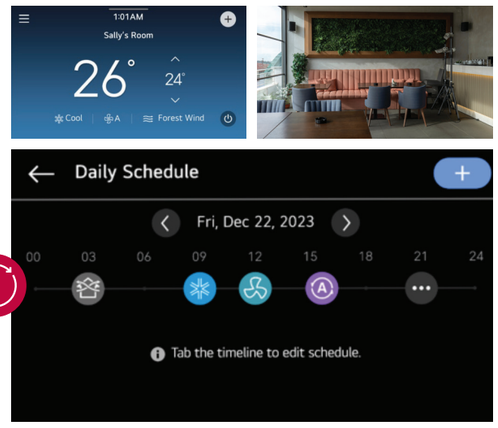
Multi Applications

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

Residential



Commercial



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

Experience Ultra-convenience

Remote Control

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



Easy to Install

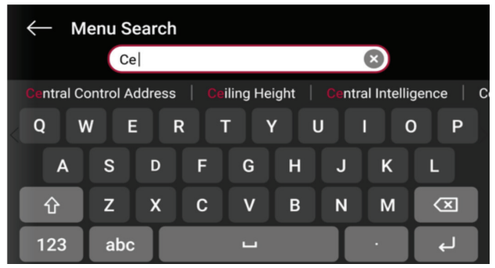
• Starting from the installation wizard, the GUI is intuitive and easy to understand.
• Saves time

Installation Wizard (Welcome Function)



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

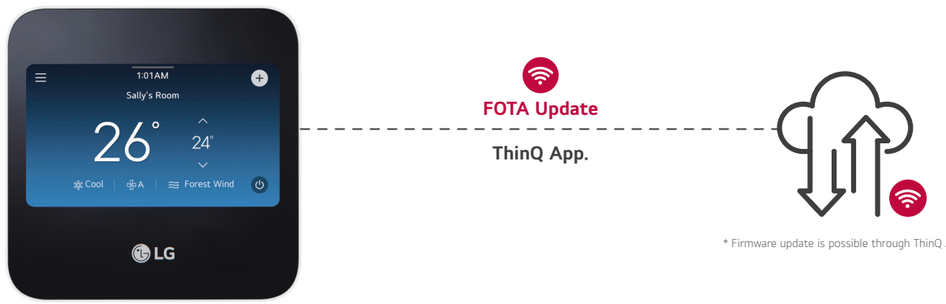
Function Search Tool



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

FOTA* (Firmware Over The Air)

• Enables you to quickly and conveniently initiate software updates.



* Firmware update is possible through ThinQ App.

Deluxe Wired Remote Controller

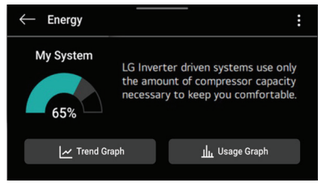
Smart Energy Saving

Energy Management

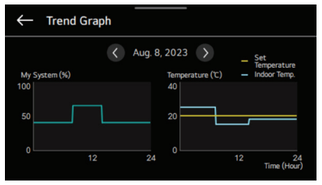
- Provides the energy usage trend of the entire system for a certain period of time.
- Energy usage function provides comparison of the entire system operating time and power consumption to previous data on a weekly, monthly and yearly basis.
- LG Inverter driven systems use only the amount of compressor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

Energy Usage Check

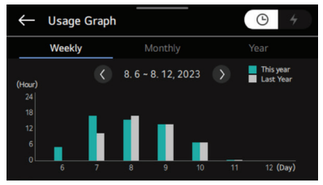
Total Energy



Energy Trend



Graph



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

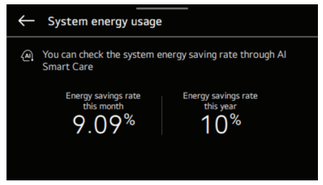
AI Smart Care Control

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

AI Energy management

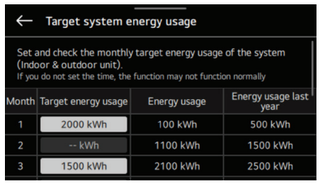
Experience AI Smart Care with Deluxe.

AI Energy Usage Check



Energy Saving Rate (%)

Check the system energy saving rate through AI Smart Care.



Energy Consumption Target

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



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

Standard III Wired Remote Controller

PREMTB101 (White) / PREMTBB11 (Black)

4.3 inch color screen with modern design.





New Modern Design

Comfort & Reliability (Air Purify)

Schedule

Convenience

Energy Management

Interlocking

MODEL NAME	PREMTB101 / PREMTBB11
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting [1]	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) [2]	○
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set Temperature Range
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage [3] / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Air Purify Control [4]	○
Air Quality Level [4]	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Human Detection	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black Light for Screen Saver	○
Home Leave	2 set points control

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

Standard III Wired Remote Controller

Design

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

Comfort & Air Purification

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

Energy Contents

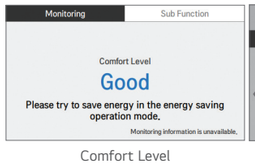
- Power consumption monitoring
- Operation time monitoring
- Temperature setback
- Time limit control

Advanced Functions

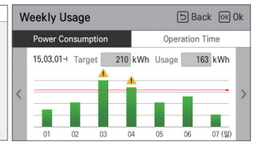
- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost noise setting
- ODU capacity control
- Schedule functions



Touch Button



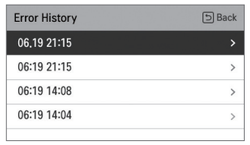
Comfort Level



Energy Contents



Cool Heat Dry Fan Auto



Error History

Duty Rotation

Operates more than 2 sets of indoor units alternatively at every rotation interval time.

Without Duty Rotation



Air Conditioners Overwork

- Reduces air conditioner's life time
- Reduces compressor's life expectancy
- The service cost may increase due to air conditioner's overwork

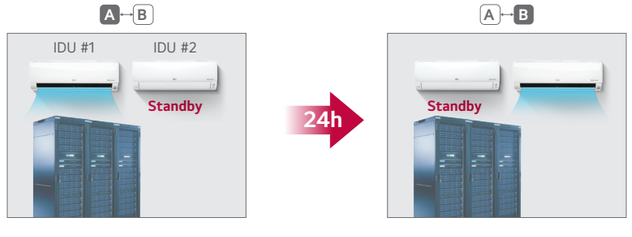
With Duty Rotation



Stable & Safe Operation

- Stable operation since indoor units take turns
- Smaller breakdown chances and keeps server room in operation
- Increase air conditioner's life expectancy
- Rotation interval can be set from 1h to 999h freely.

Operation Scenario



A B : Duty Rotation is working properly

When the number of the indoor units : 2

If the interval time is set to 24h (default),

① While IDU #1 operates during interval time, and IDU #2 is on standby.
② IDU #2 operates next 24 hours, and IDU #1 goes into standby.

Failure Back-up Operation

If an error occurs during operation and the system stops, the standby unit starts operation automatically.

Without Failure Back-up



Server can be Shut Down

- Server room overheats and server can be shut down.
- Probability for increase service cost
- Needs manual monitoring and operation for failure

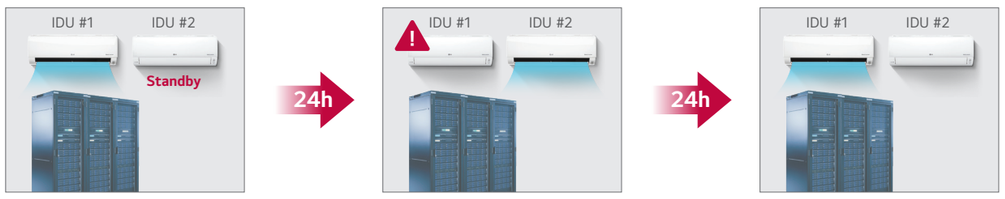
With Failure Back-up



Stable & Safe Operation

- Stable operation because the operation error can be covered by failure back-up operation
- Keeps server operation and decreases risk
- Protects server from overheating
- Less manual work

Operation Scenario



When the number of the indoor units : 2

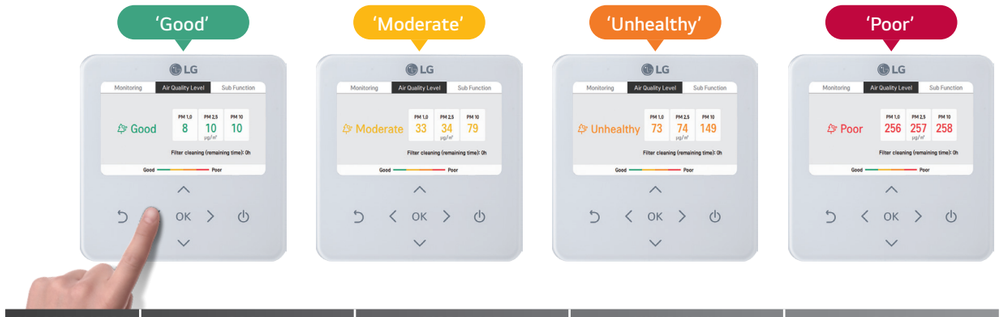
① When duty rotation is enabled, IDU #1 is in operation and IDU #2 is on standby.
② If an error occurs on IDU #1, standby unit starts operation.
③ After the error is cleared, IDU #2 goes back to standby.

Standard III Wired Remote Controller

Air Quality Level Display

Easy check for indoor air quality

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



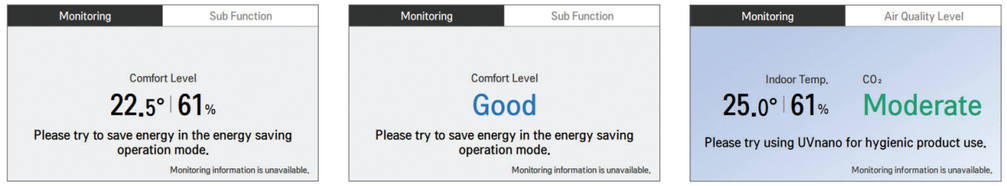
CLASSIFICATION	GOOD	MODERATE	UNHEALTHY	POOR
* PM10 (㎍ / m³)	0 ~ 54	55 ~ 154	155 ~ 254	255 ~
* PM2.5 (㎍ / m³)	0 ~ 12	13 ~ 35	36 ~ 55	56 ~
* PM1.0 (㎍ / m³)	0 ~ 12	13 ~ 35	36 ~ 55	56 ~

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 is PM10. And under 2.5 micrometers, it's PM2.5.

Environment Display

Displaying environment information for the more user comfort

Temperature / Humidity / Comfort level / CO_2 concentration



Dual Set Point

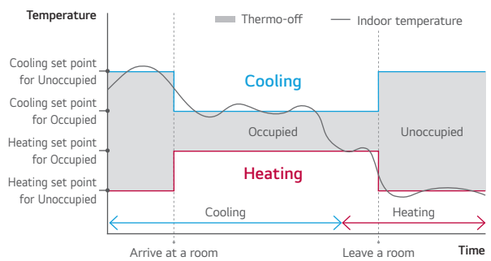
Auto changeover for convenience

- 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.

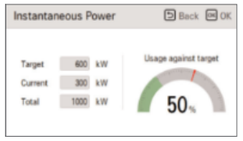


Energy Savings

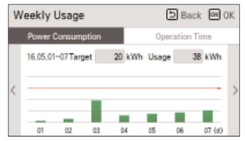
Energy Management

- 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.

※ PDI (PQNUD1S40 / PPWRDB000) is required.



Instantaneous Power Check



Energy Usage Target Setting

Time Limit Control

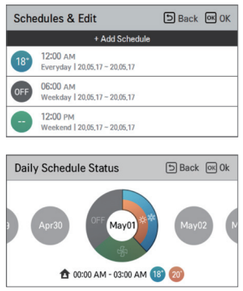
- Monitoring the unit's continuous running time.
Prevents wasted energy by turning the unit off automatically.



Schedule Function

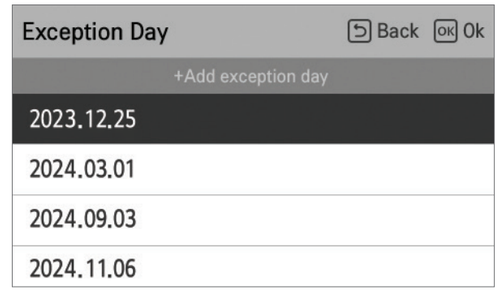
Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

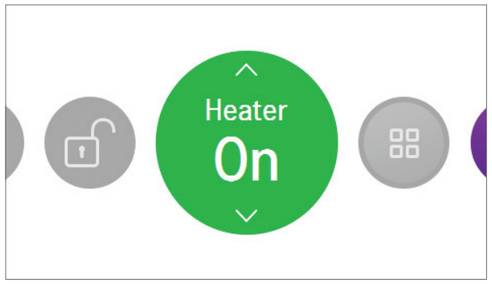
Possible to set up exception days on regular schedule.



External Device On / Off

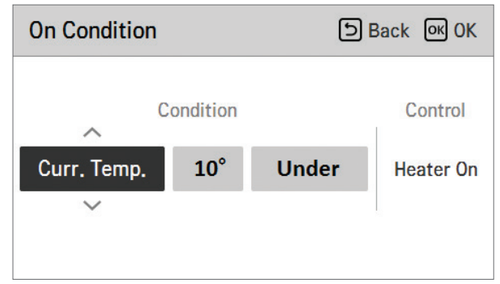
External Equipment Control

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



Customized Interlocking Control

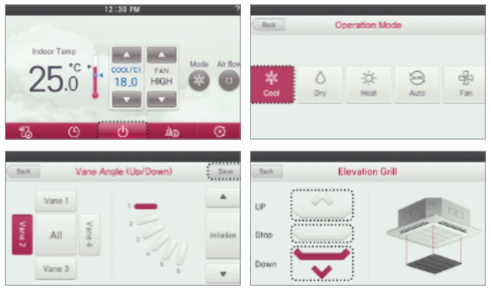
Users can create automatic control patterns, such as setting the system to adjust the temperature when it falls below or rises above a certain threshold.



Premium Wired Remote Controller



Full Touch Screen



PREMTA000 [1] / PREMTA000A [2] / PREMTA000B [3]

5-inch full touch screen with a premium design.



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

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

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

Easy Energy Management

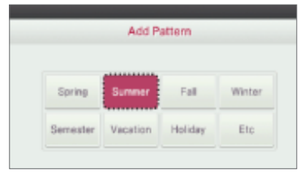
- Check the operation hour or electricity usage
- Comparison of usage by year
- Set the target usage and time

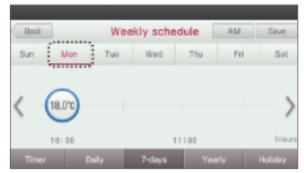




Easy Scheduling

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

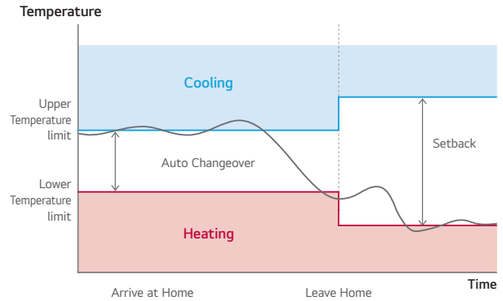




Dual Set Point

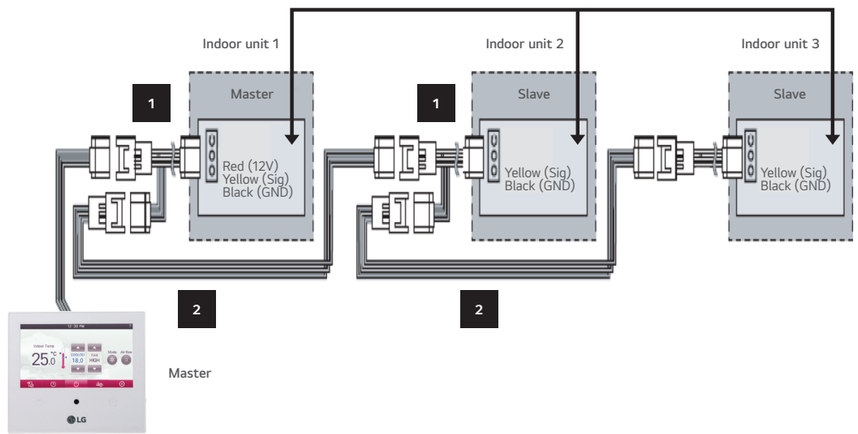
- Auto changeover switches the operation mode automatically
- Setback (Leave Home) Changing status by occupied / unoccupied

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



Group Control

- Max. 16 Indoor units by one remote controller



Standard II Wired Remote Controller

PREMTB001 / PREMTBB01

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



Features & Benefits

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

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

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

Standard Wired Remote Controller

PREMTB200

Modular design for diverse spaces and conditions, featuring various functions with an intuitive and convenient UI.

NEW

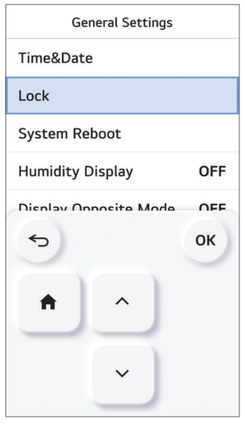


Features & Benefits

- Advanced Lock
  (On / Off Lock, Mode Lock, Temperature Range Lock)
- Advanced Energy Management
  (Schedule Setting, Simple Timer, Instantaneous Power Monitoring)
- Enhanced Functions
  (Password Setting, Temperature & Humidity Sensor)

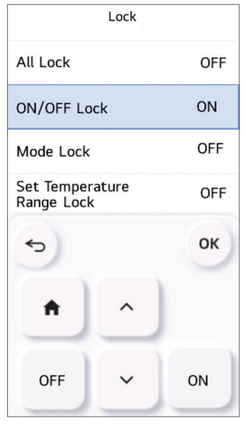
MODEL NAME	PREMTB200
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Auto Swing	○
Vane Control (Louver Direction)	○
E.S.P (External Static Pressure)	○
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ 1)
Size (W x H x D, mm)	80 x 120 x 17
Black Light for Screen Saver	○
Advanced Lock	On / Off Lock, Mode Lock, Temperature Range Lock

※ ○ : Applied, - : Not Applied
1) TBD

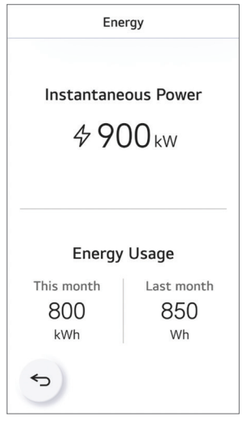


Lock

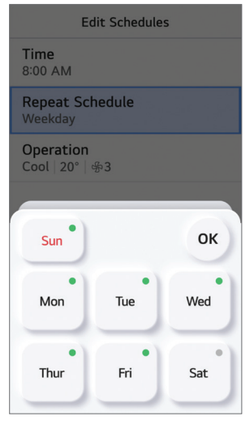
All Lock, On / Off Lock, Mode Lock, Temperature Range Lock



Instantaneous Power Monitoring



Schedule Setting



Simple Wired Remote Controller

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

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



Features & Benefits

• Small remote control with minimal functionality.

MODEL NAME	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	○	○
Fan Speed Control	○	○
Temperature Setting	○	○
Mode	Cool / Heat / Dry / Fan / Auto	-
Auto Swing	○	○
Vane Control (Louver Direction)	○	○
E.S.P (External Static Pressure)	○	○
Electric Failure Compensation	○	○
Child Lock	○	○
Indoor Temperature Display	○	○
Wireless Remote Controller Receiver	○ 1)	○ 1)
Size (W x H x D, mm)	64 x 120 x 15	64 x 120 x 15
Black Light	○	○

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

Wireless Remote Controller

PWLSSB21H (Heat Pump), PWLSSB21C (Cooling Only)

Handy and portable wireless type.



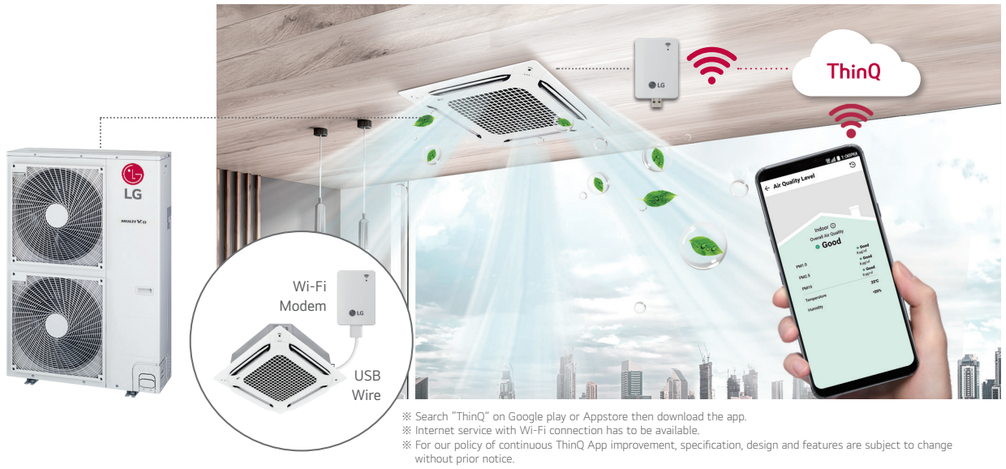
Features & Benefits

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

MODEL NAME	PWLSSB21H (H/P), PWLSSB21C (C/O)
On / Off	○
Fan Speed Control	○ 1)
Temperature Setting	○
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting	Air Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	○
Vane Control (Louver Direction)	○
Reservation	Sleep / On / Off
Time Display	○
Indoor Temperature Display	○
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51 x 153 x 26

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

Wi-Fi Modem



※ 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, such as Android or iOS smartphones.



Features & Benefits

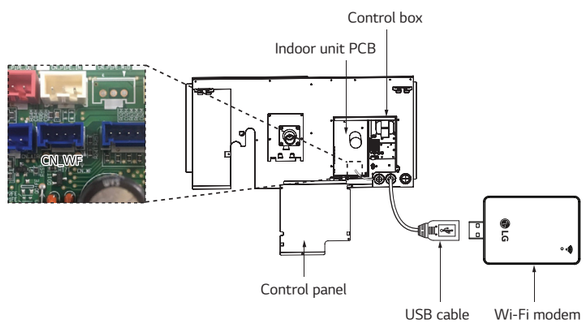
- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch the unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (ThinQ) is available.
- Simple operation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

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

MODEL NAME	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	2.4 GHz
Wireless Standards	IEEE 802.11b / g / n
Mobile Application	LG ThinQ (Android 7.0 or higher, iPhone iOS 14.0 or higher)
Optional Extension Cable	PWYREW000 (10 m extension)

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

Installation Scene



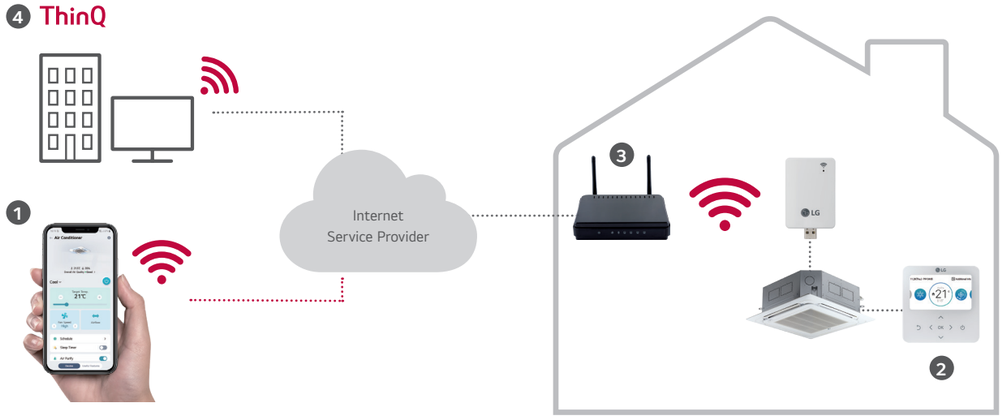
※ The Wi-Fi communication distance and reliability may be vary due to the type of Wi-Fi router and the installation environment, Please refer to the manual.

ThinQ Connectivity

Connection (Pairing) Order

❶ Make an 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 password.
❹ Product registration progress is completed.

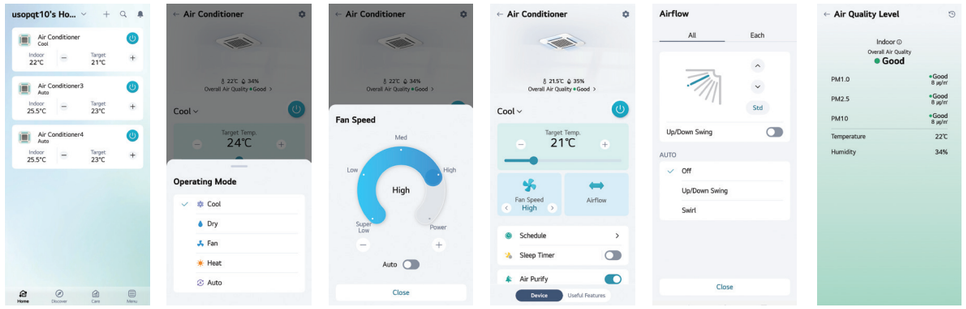
* 5GHz networks may not be supported.



ThinQ Mobile App

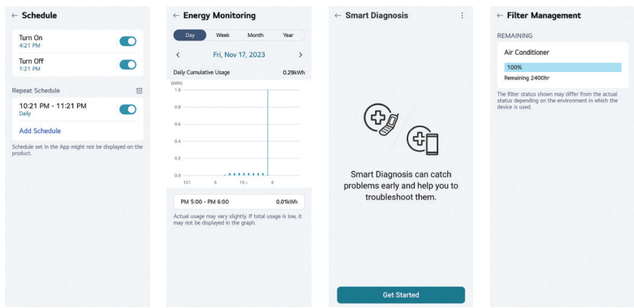
Simple operation for various functions

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.

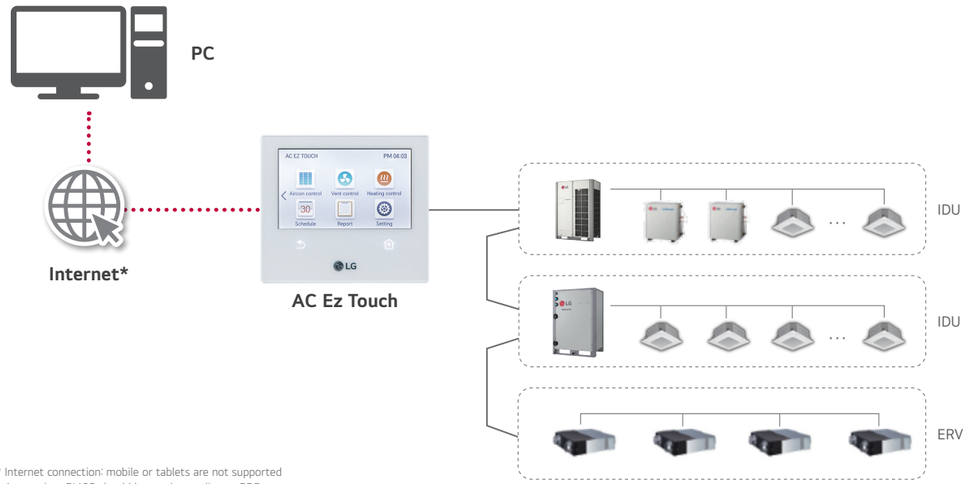


Feature Functions

Controller Name			AC Ez	AC Ez Touch	AC Smart 5 [6]	ACP 5 [6]		AC Manager 5 [7]	Cloud Gateway
Model Name									
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	Using Lonworks	PACM5A000	PWFMDB200
Product	DO		-	-	2	4	-	-	-
	DI		-	1	2	10	-	-	-
	Max. Connectable No.	IDUs	32	64	128	256	64	8,192	16
		ERV	32	64	128	256	64	8,192	16
		A / C + ERV	32	64	128	256	64	8,192	16
		AHU	-	-	16	16	16 [5]	16 x 32	-
		Chiller	-	-	5	10	-	10 x 32	-
		Commercial Air Purifier [1]	-	-	64	128	-	128 x 32	-
Compatibility	Air Conditioner		○ [3]	○	○	○	○	○	○
	Ventilation (ERV / ERV DX)		○ [4]	○	○	○	○	○	○
	Heating		-	○	○	○	○	○	○ [8]
	AHU		-	-	○	○	○	○	-
	Chiller		-	-	○ [5]	○ [5]	-	○	-
	Commercial Air Purifier [1]		-	-	○ [5]	○ [5]	-	○	-
	ACS IO		-	-	○	○	○ [5]	○	-
Additional Function	Add Drawing		-	-	○ [5]	○ [5]	○ [5]	○	-
	Group Management		-	○	○ [5]	○ [5]	○ [5]	○	-
	Auto Changer Over		-	○	○ [5]	○ [5]	○ [5]	○	-
	Set Back		-	○	○ [5]	○ [5]	○ [5]	○	-
	Dual Setpoint		-	○	○	○	○ [5]	○	-
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter	-
	Indoor Unit Lock		○ [2]	○	○	○	○ [5]	-	-
	Cycle Monitoring		-	-	○	○	○ [5]	○	○
	Air Purify		-	○ [5]	○ [5]	○ [5]	-	○	-
Auto Control	Peak Control	Energy & Priority Control	-	○	○	○	○ [5]	○	-
		Outdoor Unit Capacity Control	-	-	○ [5]	○ [5]	○ [5]	○	-
	Time Limit Control		-	-	○ [5]	○ [5]	○ [5]	○	-
	Interlocking		-	-	○ [5]	○ [5]	○ [5]	○	-
Energy Navigation			-	-	○ [5]	○ [5]	-	○	-
Energy Report	Power		-	○	○	○	○ [5]	○	○ [8]
	Gas		-	-	○	○	○ [5]	○	-
	Run Time		-	-	○ [5]	○ [5]	○ [5]	○	-
	Save to PC / USB (Excel)		-	-	PC / USB [5]	PC	PC	PC	-
Trend Reporting			-	-	○ [5]	○ [5]	-	○	-
History	Report (Control / Error)		-	Error	○ [5]	○ [5]	○ [5]	○	○
	Send Email		-	-	○ [5]	○ [5]	○ [5]	○	-
	Save to PC / USB (Excel)		-	-	PC / USB	PC	○ [5]	PC	-
Etc	Summer Time		-	○	○ [5]	○ [5]	○ [5]	○	-
	Outdoor Unit Oil-Return Operation		-	-	○ [5]	○ [5]	○ [5]	-	-
	User Authority		-	Password	○ [5]	○ [5]	○ [5]	○	-
	PC Access		-	○	○ [5]	○ [5]	○ [5]	○	-

※ ○ : Applied, - : Not Applied
1) The Commercial Air purifier must additionally install PI485 (PHNFP14A0).
2) Hard Lock
3) Except for some feature (Individual lock, Limit temp., etc.)
4) Except for some feature (User mode, additional function, etc.)
5) This function is not applied for BMS points.
6) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.
7) ACP 5 or AC Smart 5 is required.
8) Only for THERMA V

AC Ez Touch



* Internet connection: mobile or tablets are not supported
* Appropriate PI485 should be used according to PDB.

PACEZA000

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

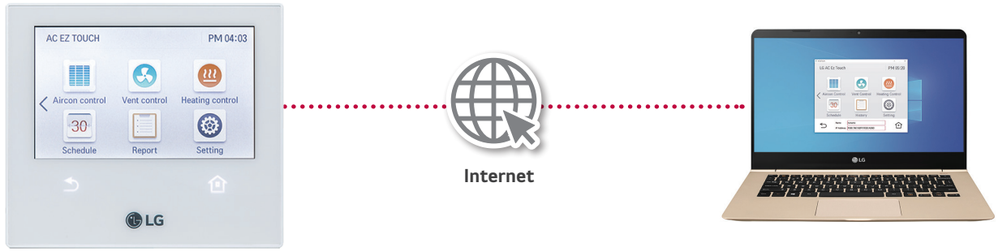


MODEL NAME	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	Temperature / Mode / Fan Speed / All
Error Check	○
Slave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

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

PC Access

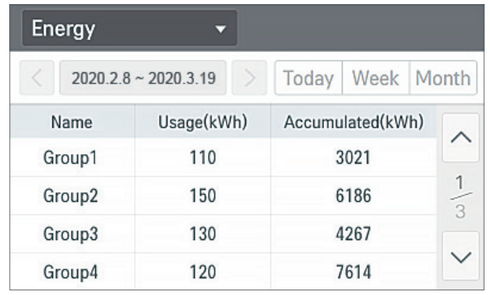
Users can control each space efficiently through PC access.



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

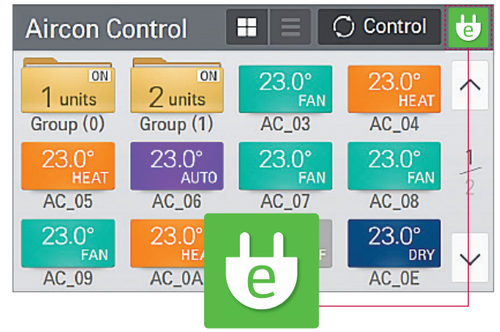
Energy Statistics (with PDI)

Operational numbers (Time, Power consumption) are provided to help make intelligent system operation decisions.

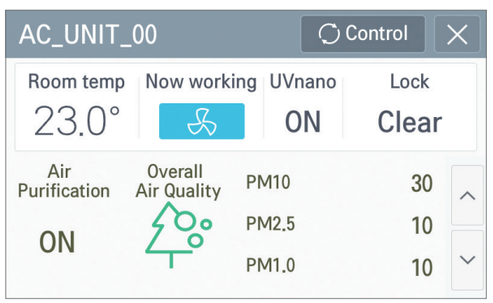


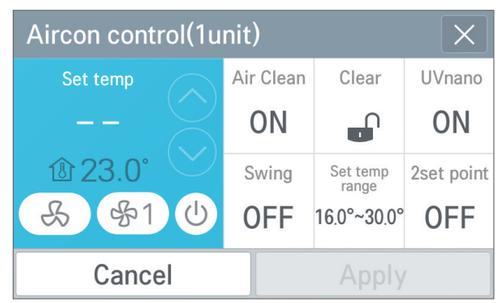
Energy Mode

When using the energy mode function, the system can forcefully switch from cooling mode to fan mode or from heating mode to off mode. (Only when operating an indoor unit)



Air Purify Control & Monitoring

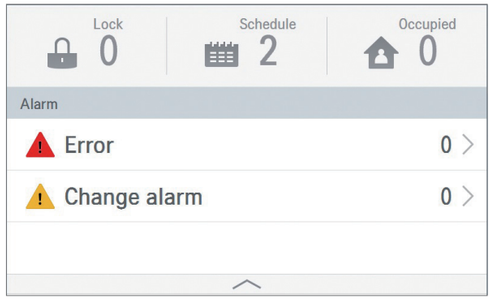




AC Ez Touch

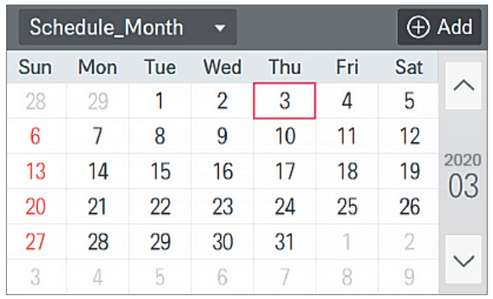
Alarm Indicator

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



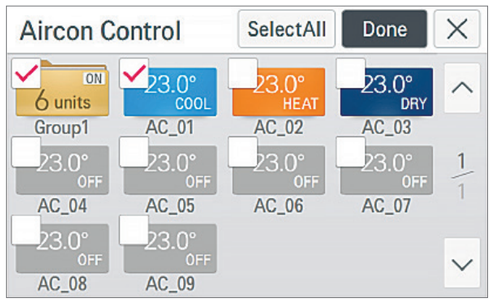
Schedule

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

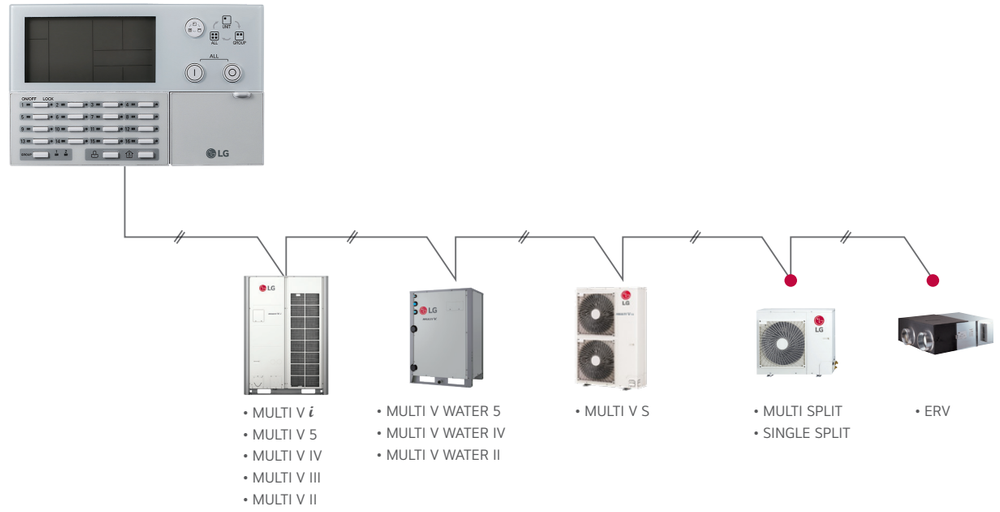


Group / Individual Control

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



AC Ez



● Appropriate PI485 should be used according to PDB.

PQCSZ250S0

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



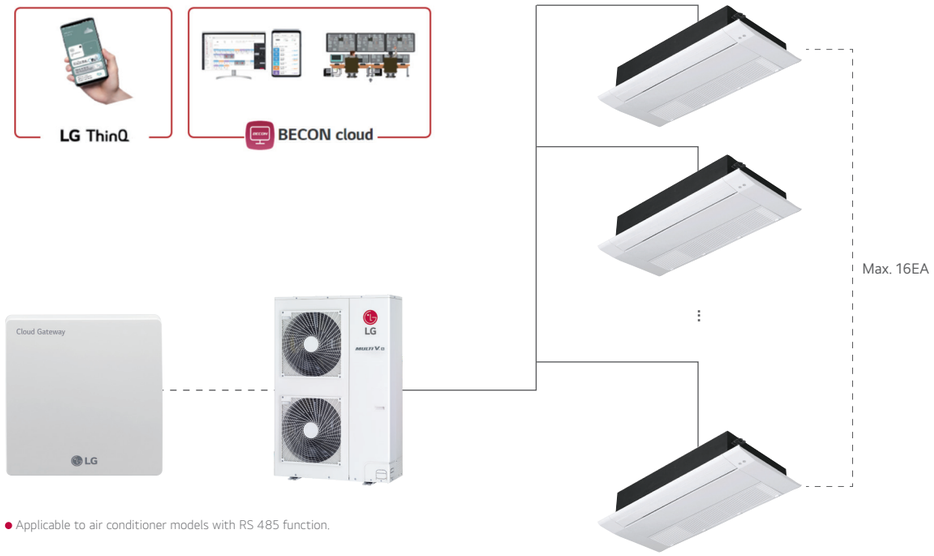
Features & Benefits

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

MODEL NAME	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	DC12V, 1A
Maximum Number of Units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	All
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly

※ ○ : Applied, - : Not Applied

Cloud Gateway



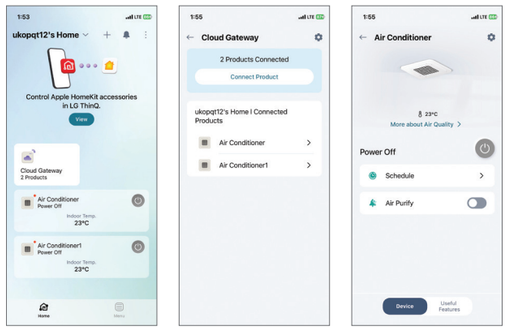
● Applicable to air conditioner models with RS 485 function.

PWFMDB200

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

Cloud Gateway



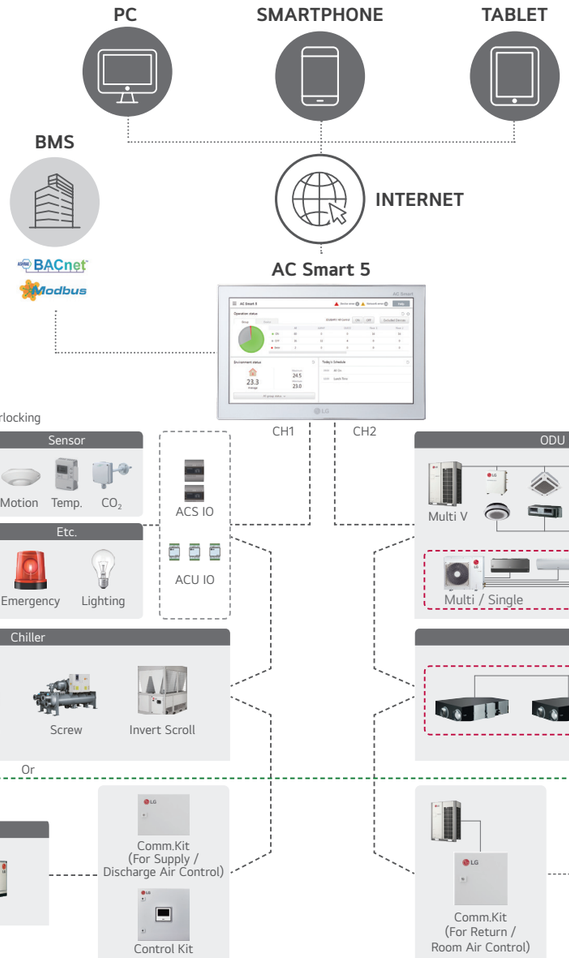


MODEL NAME	PWFMDB200
Size (W x H x D, mm)	120 x 120 x 29
Interfaceable Products	System Air Conditioner
Maximum Number of Units	16
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android 7.0 or higher, iPhone iOS 14.0 or higher)

Function		ThinQ	BECON Cloud [1]
Max. number of unit		16	
Remote Control	Operation Start / Stop	○	○
	Operation Mode	○	○
	Target Temperature	○	○
	Fan Speed	○	○
	Swing	○	○
	Air Purify	○	○
Interlocking Product	MULTI V	○ [2]	○
	GHP	○	○
	MULTI	○	○
	Single	○	○
	ERV	X	○
	Heating	○ [3]	○ [3]
Etc	Schedule	○	△ [4]
	Electricity Monitoring	X	○ [3]
	History	X	○
Maintenance	Smart Diagnosis	○	X
	Cycle Monitoring	X	○

1) Depending on the region, BECON Cloud may not be available. Please contact to BECON Cloud administrator for checking availability. (BECONcloud-biz@lge.com)
2) Hydrokits are excluded
3) Only for THERMA V
4) It will be released until 1Q in 2025.



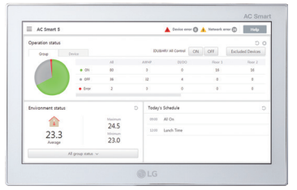


According to CH1 setting, normal ODU can be connected to CH1.
(Flexible wiring design with 2 ports)
Appropriate PI485 should be used according to PDB (Product Data Book).
For details, refer to the product PDB or manual.

AC Smart 5

PACS5A000

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



Max. 128 IDU control

Schedule

Map view
(Visual navigation)

Energy monitoring

Air Purify

Multi level grouping

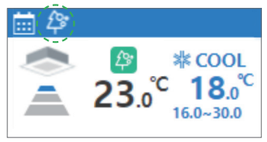
MODEL NAME	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	Temperature / Mode / Fan Speed / All
Advanced Function Setting and Display [1]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level Display / CO_2 Level Display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception Day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 2 / DO 2
BMS Integration [2]	BACnet IP / Modbus TCP
IPv6 Support	○

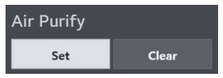
※ ○ : Applied, - : Not Applied
1) It is only available in some products.
2) For the detail point list, please refer to the installation manual.

AC Smart 5

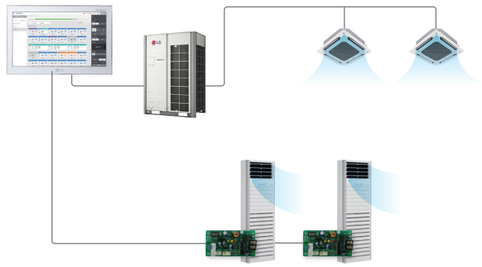
A Total Air Purification Solution

Air Purify Control

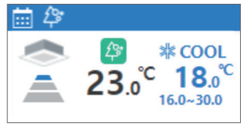




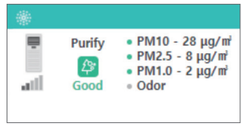
- Easy setting of Air Purify function (Set / Clear)



Air Quality Level Monitoring



System Air Conditioner



Commercial Air Purifier

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

Advanced Network Accessibility

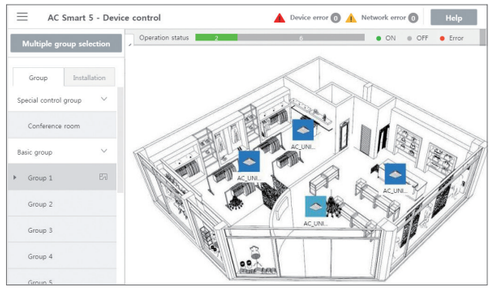
AC Smart 5 reflects the state of the art of network technology trend. IPv6 (Internet Protocol version 6), which is the most recent version of the Internet Protocol, provides accessibility to the IPv6 compatible network environment. In addition, HTML5 allows you to easily control LG HVAC systems on a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



HTML5 web design

Visualized Control

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



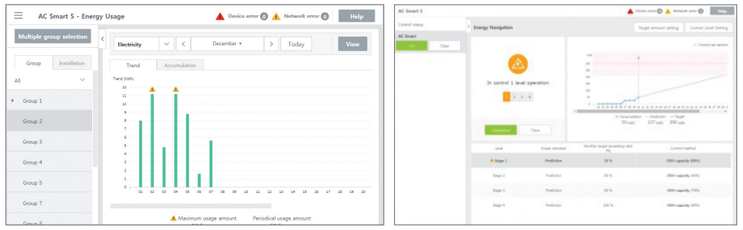
Multi Level Group Composition

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



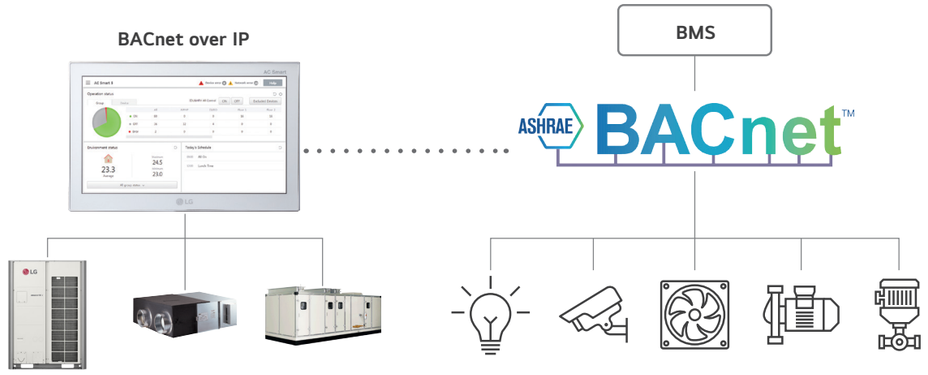
Energy Management

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



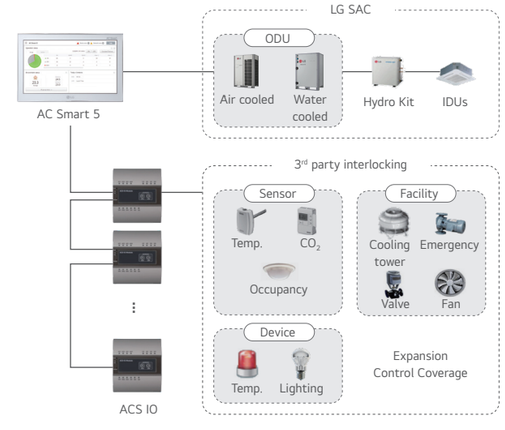
Building Management System (BMS) Integration

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

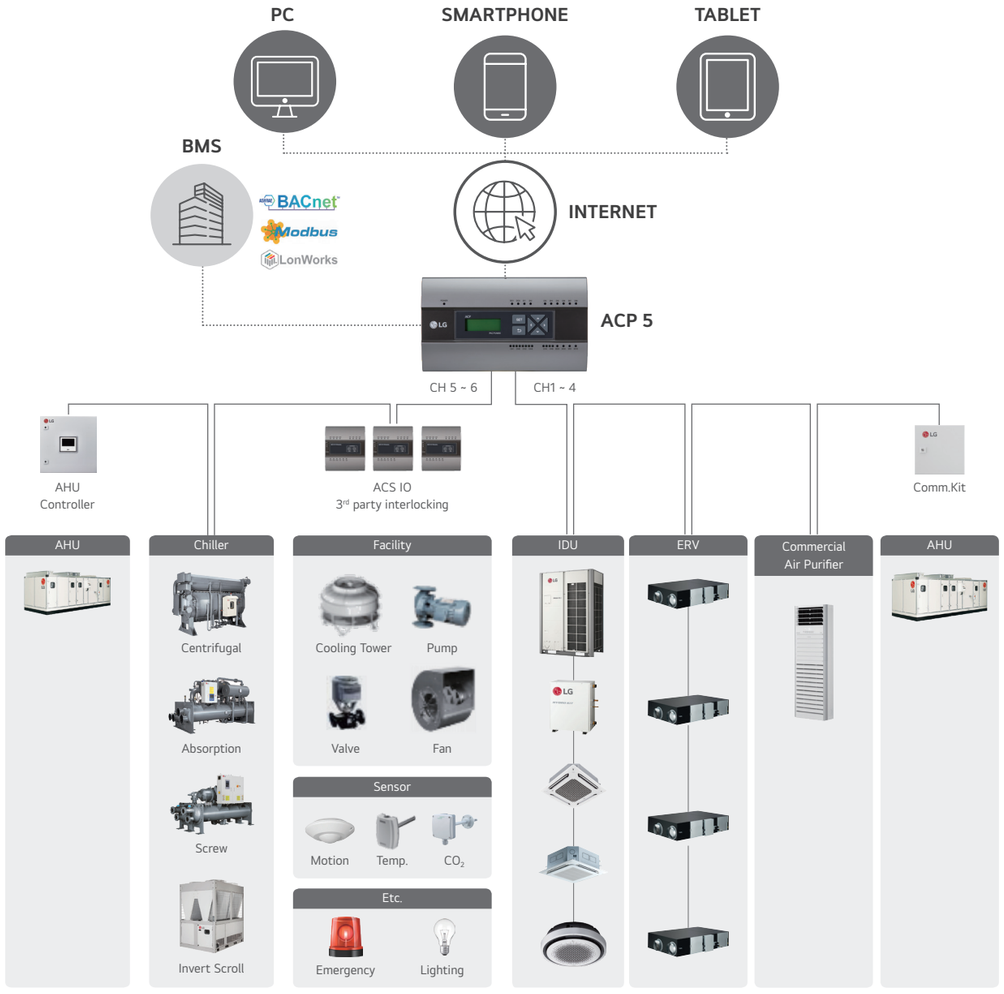


Interlocking with 3rd Party Equipment

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



ACP 5



PACP5A000

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



MODEL NAME	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V / AHU Kit / LG Chiller / Commercial Air Purifier
Maximum Number of Units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display [1]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level Display / CO_2 Level Display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Air Purify Control	○
Air Quality Level	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 10 / DO 4
BMS Integration [2]	BACnet IP / Modbus TCP
IPv6 Support	○

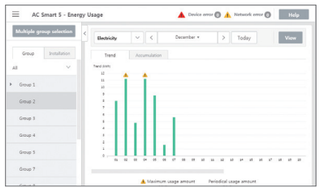
※ ○ : Applied, - : Not Applied
1) It is only available in some products.
2) For the detail point list, please refer to the installation manual.

Advanced Network Accessibility

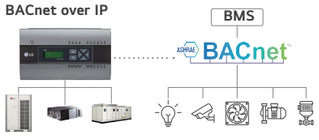


* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

Energy Navigation



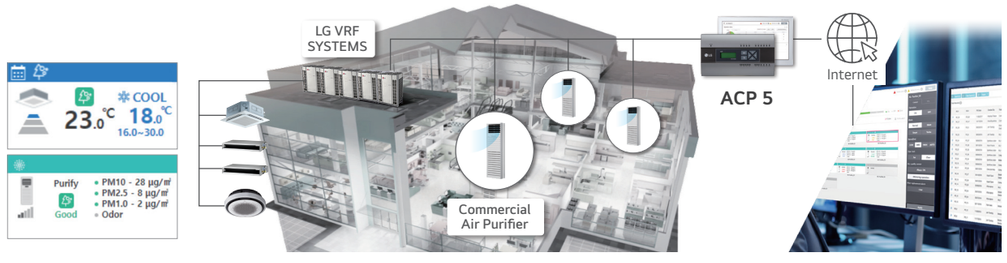
BACnet IP & Modbus TCP



Air Purify Control / Monitoring

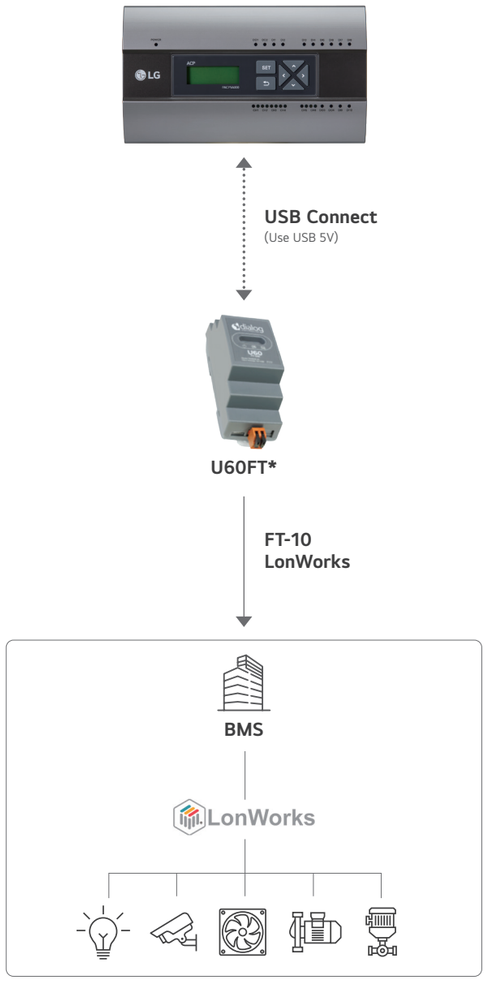
Integrated Management

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



For LonWorks

For LonWorks protocol, only ACP 5 provides an interface for BMS integration. Additionally, a U60FT module is required between ACP 5 and the BMS system to establish the system interface between the LonWorks FT-10 BMS and LG HVAC unit.

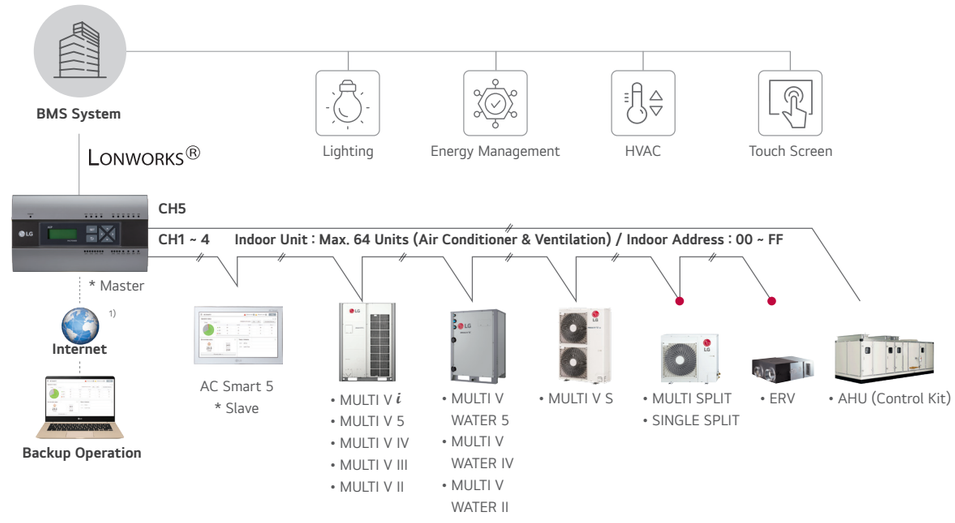


UNIT TYPE	BACNET IP	MODBUS TCP	LONWORKS
IDU	○	○	○
ERV, DX ERV	○	○	○
ODU	Monitoring Only	-	-
Heating	○	○	○
AHU	○	○	-
Scroll Air Inv Gen2	○	-	-
EXP I/O	○	-	-
Air Purifier	○	-	-

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

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

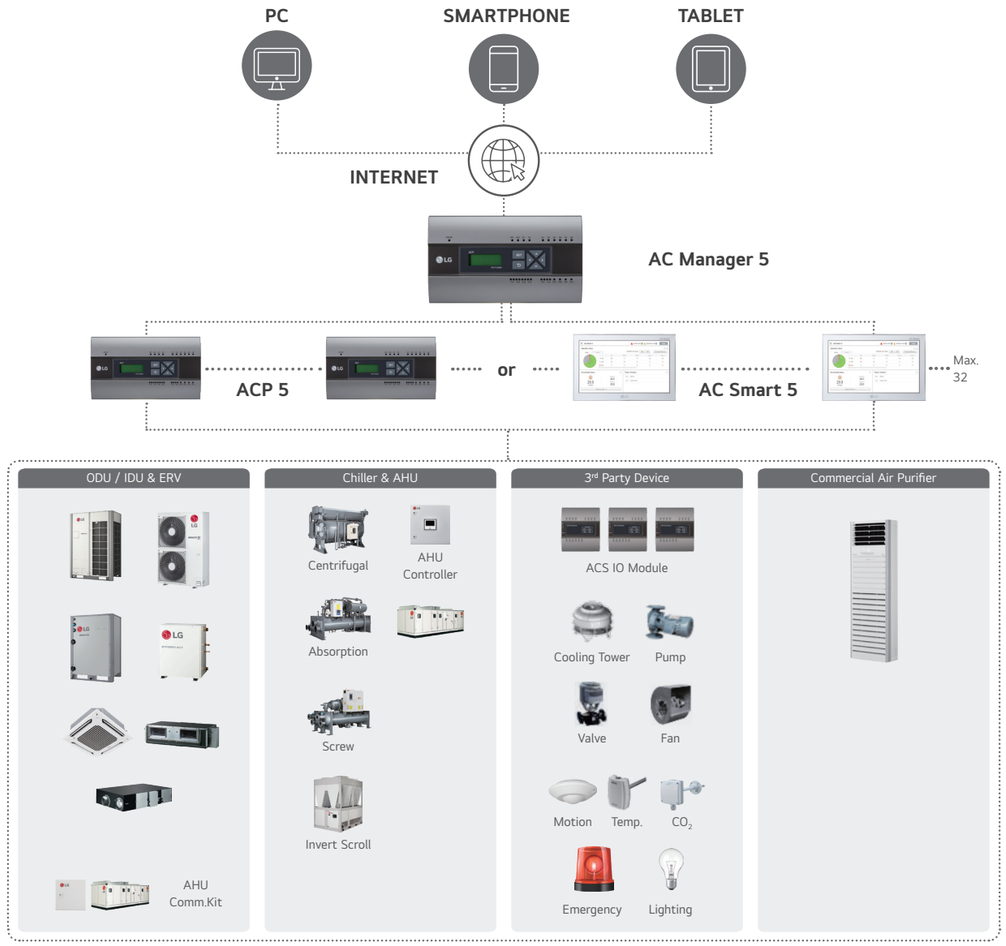
※ ○ : Applied, - : Not Applied



1) Assignment of public IP address is required to access central controller through internet.

● Appropriate PI485 should be used according to PDB (Product Data Book).

AC Manager 5





PACM5A000

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



reddot award
User Interface Design

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

※ ○ : Applied, - : Not Applied
Note : AC Manager 5 required for ACP 5 or AC Smart 5

Up to 8,192 Connections for Indoor Units

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

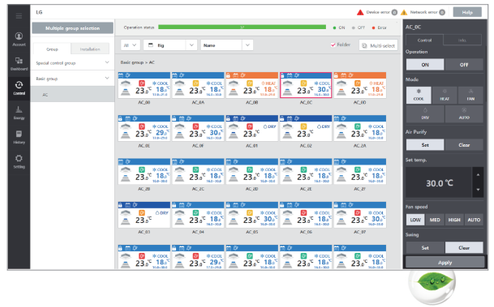


AC Manager 5

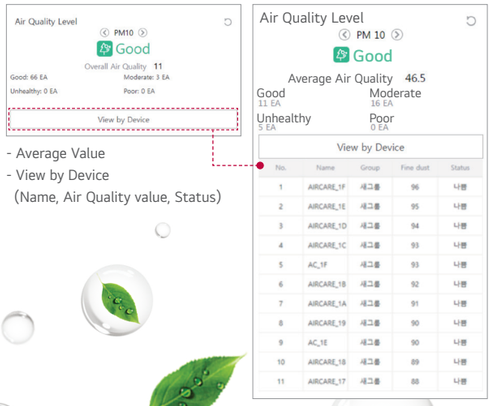
Smart Air Purify Solution

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

Air Quality Multi Status View

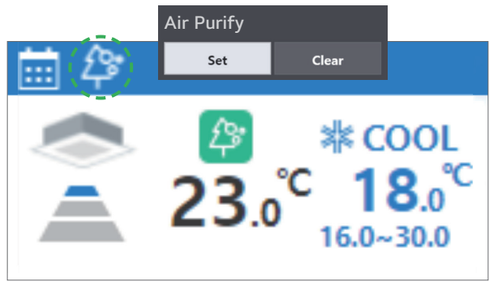


Air Quality Summary Widget



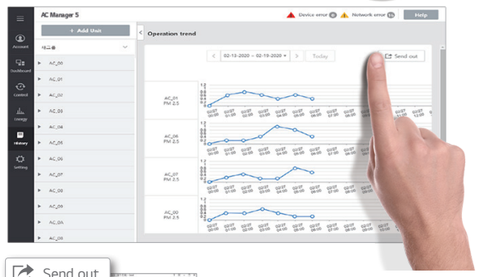
- Average Value
- View by Device
  (Name, Air Quality value, Status)

Air Purify Control



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

View Air Quality Trends



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

Advanced Network Accessibility & User Friendly GUI

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



reddot award
User Interface Design

Energy Navigation & Energy Usage Graph

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



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

Peak Control

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

Operation Ratio (IDUs) Control



Indoor unit Priority Control

gradually stop depending on importance of room.

Lobby < Office < VIP room

ODU Capacity Control

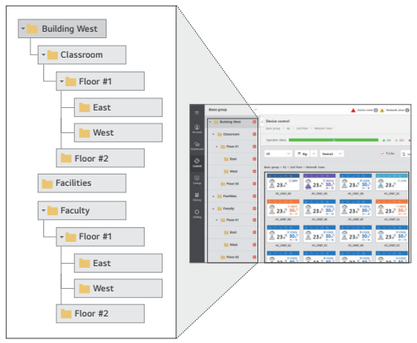
9 Step Operation Rate (%)
[0, 40, 45, 50, 60, 70, 80, 90, 100]



Compressor Hz Control

Multi Level Group Composition

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



MODBUS RTU Gateway

PMBUSB00A

Providing MODBUS RTU connection between LG Air conditioners and BMS.



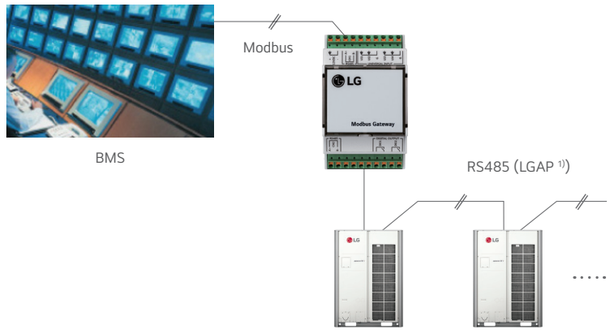
Features & Benefits

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

Installation Scene

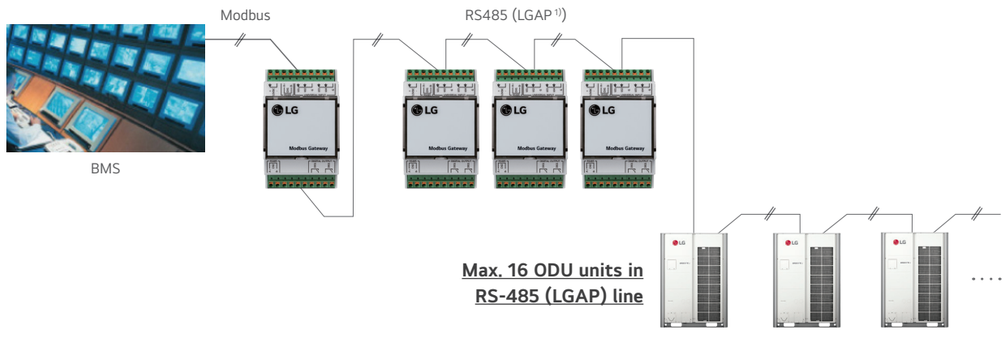
Single Module

Max. 16 indoor units with a single module



Multiple Module

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



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

Modbus Gateway Memory Map

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

Coil Register (0 x 01)

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

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

Discrete Register (0 x 02)

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

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

Holding Register (0 x 03)

NO.	DATA BIT			FUNCTION	REGISTER
	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		
1	Operate Mode	Operate Mode	Operate Mode	• 0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4 : Heating Hydro Kit (Middle Temp. DHW) / AWHP • 0 : Cooling, 3 : Auto, 4 : Heating Hydro Kit (High Temp. DHW)	Register = N X 20 + ① (N = Indoor Unit Central Address)
2	Fan Speed	Fan Speed	Target Temp. DHW 2)	1 : Low, 2 : Mid, 3 : High, 4 : Auto	
3	Target Temp.	Target Temp. 1)	Target Temp. 2)	16.0 ~ 30.0 [°C] x 10	
4	Target Temp. Limit (Upper)	Target Temp. Limit 1) (Upper)	Reserved	16.0 ~ 30.0 [°C] x 10	
5	Target Temp. Limit (Lower)	Target Temp. Limit 1) (Lower)	Reserved	16.0 ~ 30.0 [°C] x 10	
6	Reserved	Vent. Operate Mode	Reserved	0 : HEX, 1 : Auto, 2 : Normal	

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

Input Register (0 x 04)

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

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

KNX Gateway

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

INKNXLGE016O0036 (Indoor Unit ~16) / INKNXLGE064O0036 (Indoor Unit ~64)

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



Key Features

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

Key Benefits

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

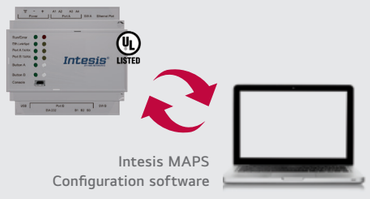
Key Messages

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

MODEL NAME	MAX. CONNECTION INDOOR UNITS
INKNXLGE016O0036	16
INKNXLGE064O0036	64

Intesis MAPS is Configuration Software for Intesis KNX Gateway Series

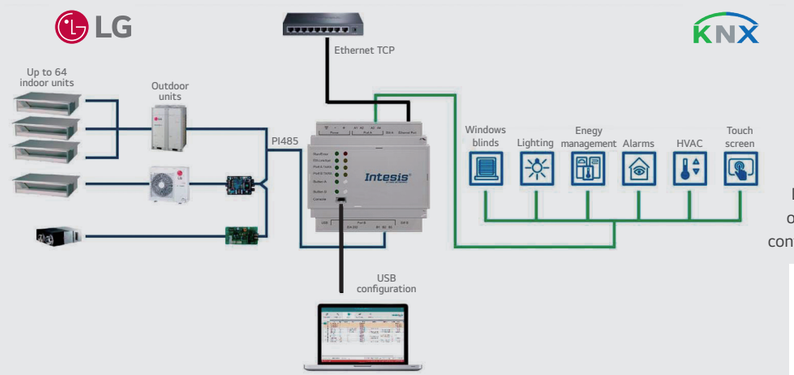
Easy to use tool for the configuration of Intesis gateway, in a fast and effective way.
It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.



Intesis MAPS
Configuration software

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

Installation Scene



Integration of LG VRF systems into KNX control systems

Direct download
of INTESIS MAPS
configuration software

INKNXLGE001R000 (For Indoor Unit)

LG-KNX gateway allows fully bi-directional communication between LG VRF systems and KNX installations.

One gateway, one AC unit : This is the solution of **ONE-TO-ONE** integration. All required KNX DPT objects are fully compatible with all KNX thermostats in the market. The gateway is wired directly to an indoor unit. This allows not only the control of the main AC functions such as operating mode, fan speed, temperature setpoint, but also the monitoring of errors and alarms.



Key Features

- KNX certified.
- Configured by ETS standard configuration tool.
- KNX database available on ETS5 / 6
- Reduced dimensions allowing a quick installation inside the Air Conditioner unit.
- All the required DPT objects are 100% compatible with all KNX termostats in the market.
- Energy efficiency functions, such as “timeout”, “open window” or “occupancy”.
- Smooth integration of KNX thermostats allowing the control of the AC unit by the thermostat’s own temperature sensor (Virtual Temperature)
- Simultaneous control of the AC unit by LG remote controller and KNX.

Key Benefits

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

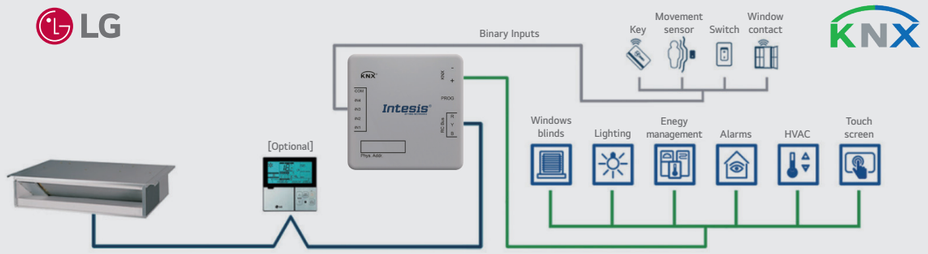
Key Messages

- Total control and monitoring of the AC unit from KNX, including AC unit’s internal variables, running hours counter (for filter maintenance control) and error indication (CH Error Codes).
- Fully integrated solution on Engineering Tool Software ETS5 / 6 by database product

KNX LG Solution Concept

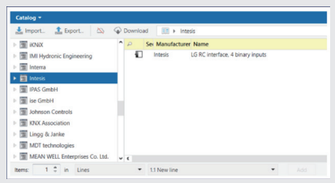


Installation Scene & LG Topology

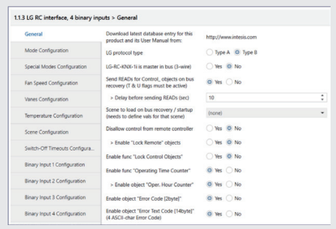


KNX Product

Database available directly on ETS5/6
under INTESIS manufacturer



Configuration by ETS Data Base



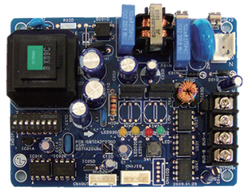
Web landing page
of the product

PI485

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

PMNFP14A1

Easy to manage up to 64 indoor units.

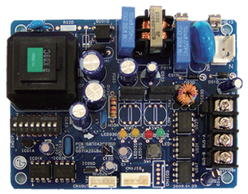


• Power : Single phase AC 220V 50 / 60Hz

• 1 for Each Outdoor Unit

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

PP485A00T



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

• 1 for Each Indoor Unit

- THERMA V

PHNFP14A0



• Power : Connected with the Indoor Units

• 1 for Each Indoor Unit

- ERV

PSNFP14A0 (with case)





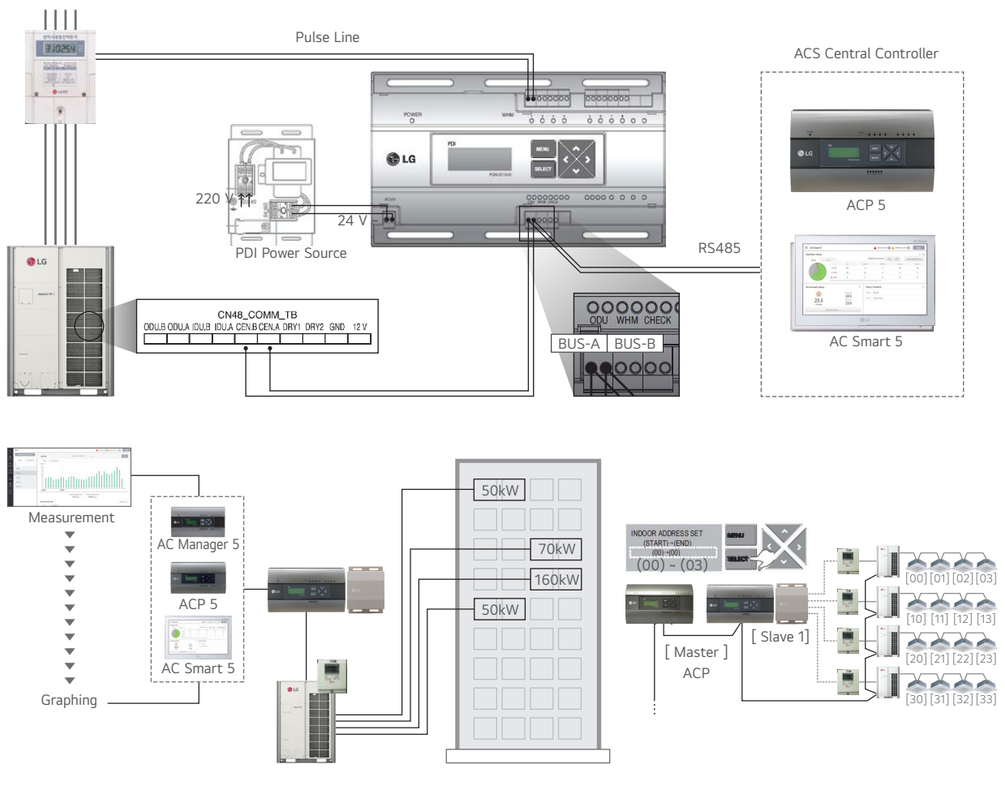
• Power : Connected with the Indoor Units

• 1 for Each Indoor Unit

- ERV







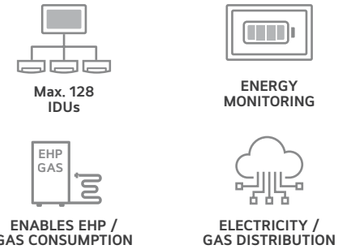
Note :
1. Power cable and type could be different from this scene depending on the Outdoor unit's specification.
2. Measured power consumption could be different between PDI and Watt meter.
3. Applicable Central Controller : ACP 5, ACP LonWorks, AC Smart 5, AC Ez Touch
   (Combination : we recommend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

PDI (Power Distribution Indicator)

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

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





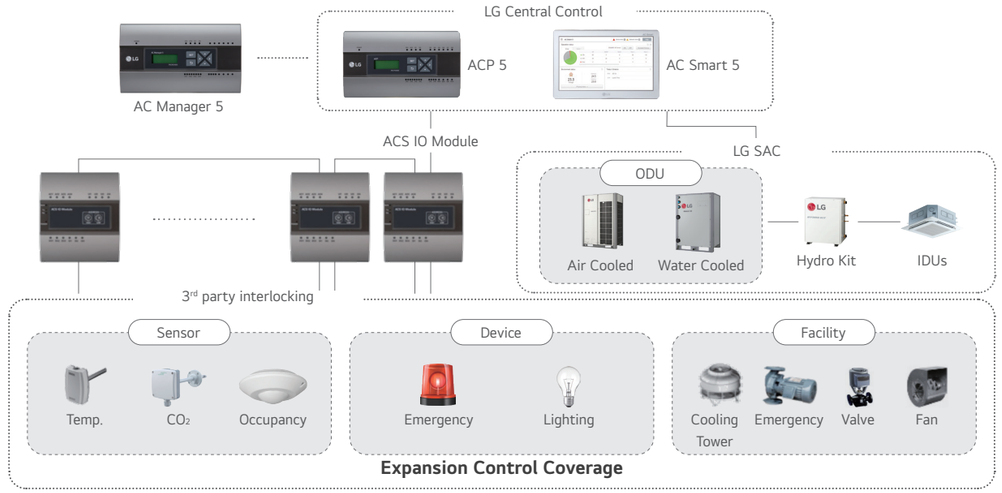
Features & Benefits

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

MODEL NAME	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 155 x 65	
Interfaceable Products	Air conditioner, ERV DX, Hydro kit, THERMA 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

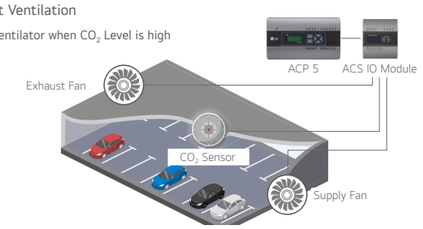


※ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output

Case. 1

Parking Lot Ventilation

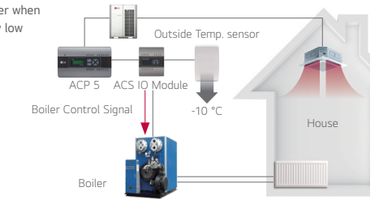
Turning on ventilator when CO_2 Level is high



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		PACS5A000, PACP5A000
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
	PT 1000	803Ω	1,573Ω
	Ni 1000	871.7Ω	1,675.2Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

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

ACU IO Module

PEXPMB300, PEXPMB200, PEXPMB100

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



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)

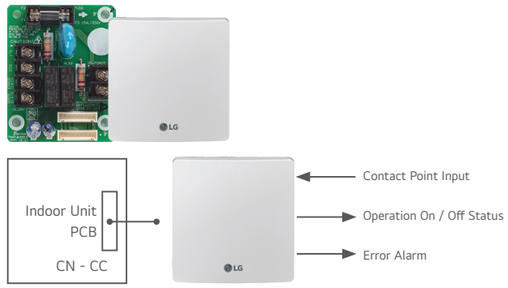
MODULE NAME	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PACS5A000, PACP5A000		
Communication RS-485	1 ch	1 ch	1 ch
Digital Input	-	-	3 ports
Digital Output	2 ports	6 ports	-
Universal Input 1)	4 ports	-	6 ports
Analog Output	2 ports	4 ports	

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

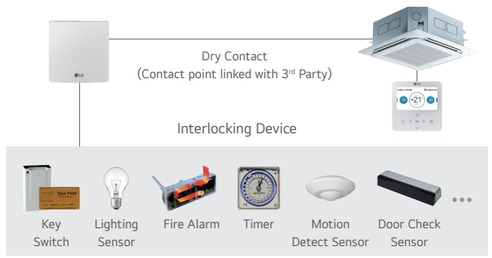
※ ○ : Applied, - : Not Applied
1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

DRY CONTACT

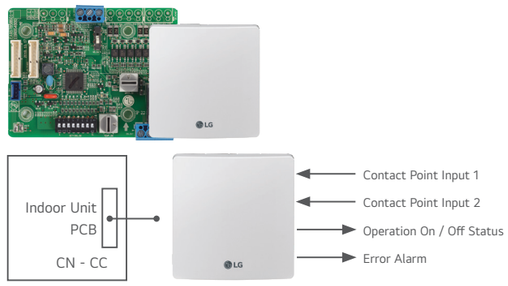
PDRYCB000



Simple Dry Contact (1 input)



PDRYCB400



Dry Contact for 2 Input



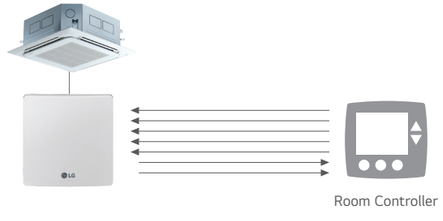
Refrigerant Leakage Detection Alarm



PDRYCB320

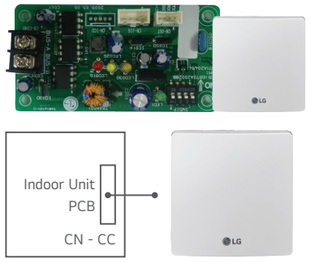


Dry Contact for Thermostat

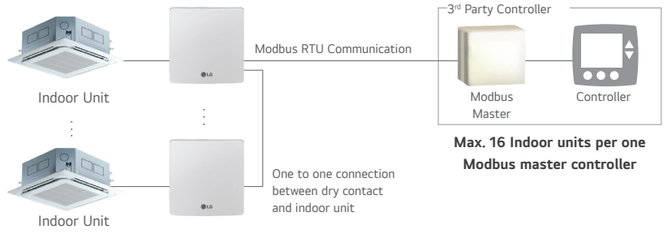


※ Please contact our regional office to have full compatible room controller list.

PDRYCB500 / PDRYCB510*



Dry Contact for Modbus



Max. 16 Indoor units per one Modbus master controller

※ Please contact our regional office to check the compatibility with 3rd party room controller.
*No case for PDRYCB510

Specification

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

MODEL NAME			PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500 / PDRYCB510*
						
Case			○	○	○	○
Input Port			1	2	8	-
Universal Input Port			-	-	1	-
Comm. Protocol			-	-	-	Modbus RTU
Power			AC 220V	Connect to Indoor Unit PCB (CN_CC) : DC 12V		
Control	IDU	On / Off	○	○	○	○
		Operation Mode	-	○	○	○
		Set Temp.	-	(Select & Fix)	(Select & Fix)	○
		Fan Speed	-	-	○	○
		Thermo-Off	-	(Select & Fix)	○	-
		Energy Saving	-	(Select & Fix)	-	-
		Lock / Unlock	-	(Select & Fix)	-	-
	Heating	On / Off	○	-	○	-
		DHW On / Off	-	-	○	-
		Thermo-Off	-	-	○	-
		Operation Mode	-	-	○	-
		Silent Mode	-	-	○	-
		Emergency Mode	-	-	○	-
	ERV	On / Off	○	-	-	○
		Operation Mode	-	-	-	○
		Aircon Mode	-	-	-	○
		Additional Mode	-	-	-	○
		Fan Speed	-	-	-	○
Output		Operation Status	○	○	○	○
		Error	○	○	○	○
		Room Temp.	-	-	-	○

※ ○ : Applied, - : Not Applied
*No case for PDRYCB510

Note :
1. Compatibility of PDRYCB320
- Can use with all types of aircon indoor units after 2010.
(Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can use with new single package AK-W model after 2020. 1Q
(The previous version Single package is not compatible)
- Heating : 3 series AWHP split and Monobloc models 4 generation Hydro Kit

2. Compatibility of PDRYCB400
- Can use with all types of air conditioner indoor units after 2010.
(Cassette, Ducted, Convertible, Applied PAC, Wall mounted, Console)
- Can use with new single package AK-W model after 2020. 1Q
(The previous version Single package is not compatible)
- Can not use with AWHP, Hydro Kit models.
3. (Select & Fix) : This function is preset by rotary switch.

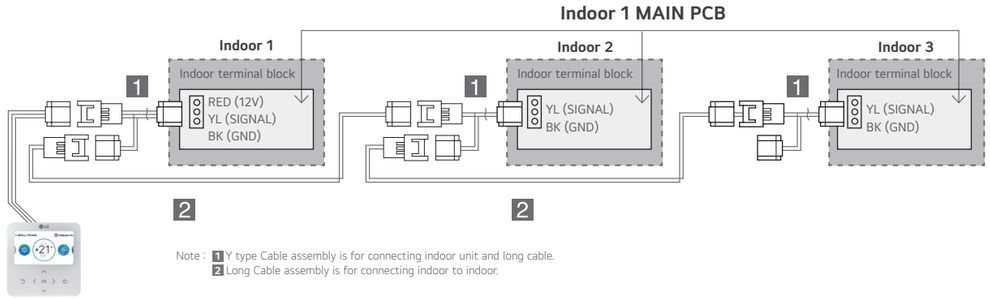
Group Control Wire

PZCWRCG3



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

Installation Scene



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 a room's temperature.



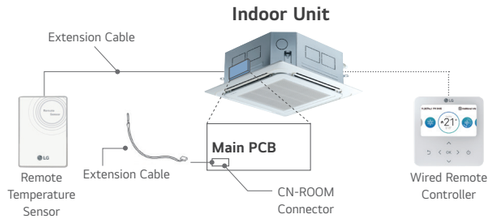
Features & Benefits

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

Installation Scene

1. Wire to the control box in the indoor unit by removing the existing thermistor and connect the extension cable its place.

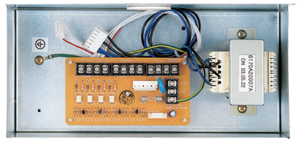
2. Cut the extension cable to the appropriate length and connect the screw terminal of the remote sensor.



Zone Controller

ABZCA

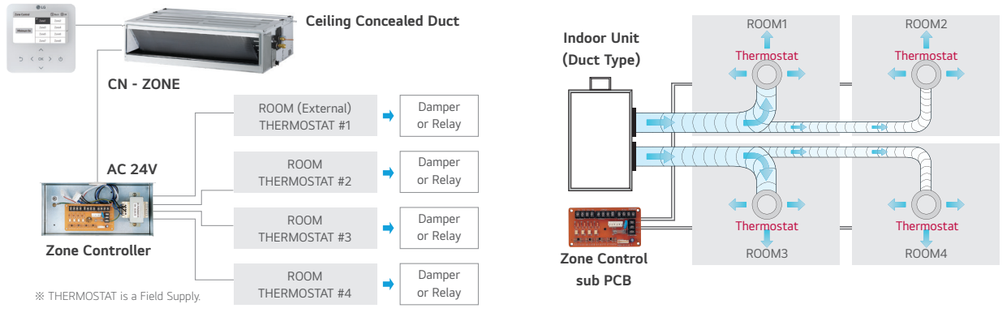
Controls air conditioning in up to 4 zones by external thermostat.



Features & Benefits

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

Installation Scene



IO Module

PVDSMN000

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



Features & Benefits

Function

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

Description

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

Models Applied

- MULTI V IV, 5, *i*
- MULTI V WATER 5
- MULTI V S

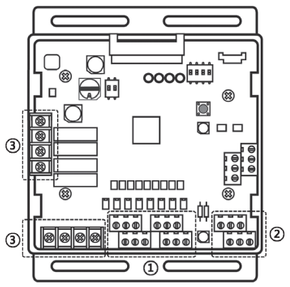
Note : IO Module is not compatible for MULTI V III and MULTI V S R32.

Part Description

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

2) Analog Input Part (AI : DC 0 ~ 10V)
- Demand control by analog input (10 Step)

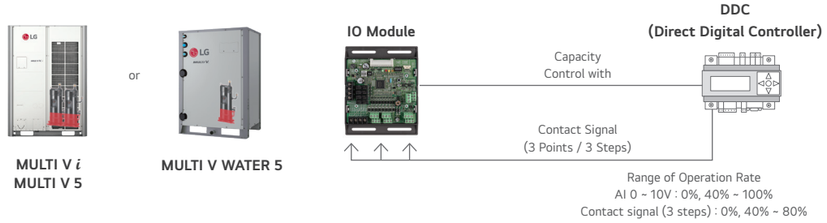
3) Digital Output Part (DO : AC 250V, Max. 1A)
- Error status relay output
- Operation status relay output
- Valve control



IO Module

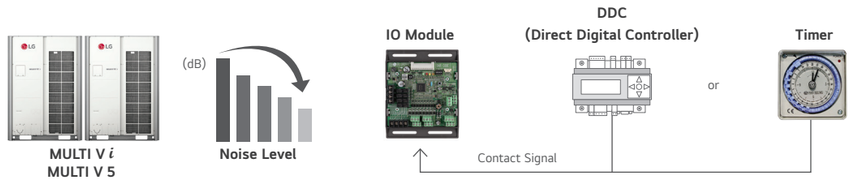
ODU Capacity Control

Provides variable settings for ODU Capacity Control according to input method to reduce the power consumption.
IO Module supports 2 types of input signal : Analog Inputs (0 ~ 10V, 10 steps) and contact signals (3 steps)



Low Noise Operation

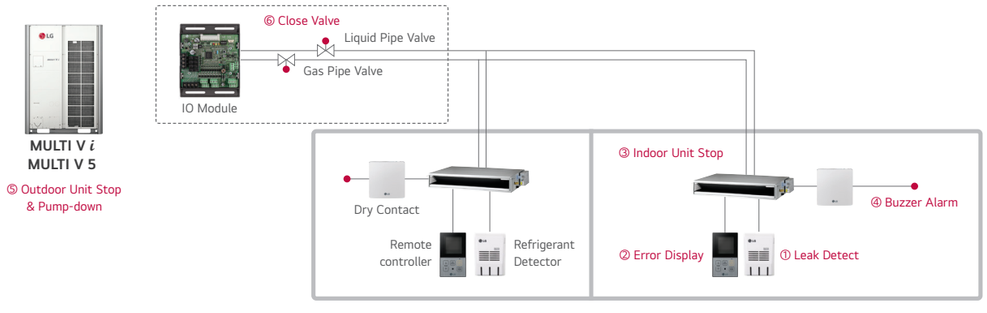
To reduce noise level, control outdoor unit's fan speed by dry contact input.



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

Refrigerant Leakage Detection with Pump-down

For safety, IO module closes refrigerant valve during Pump-down operation.

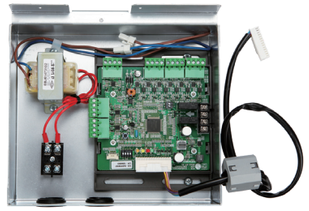


※ If the concentration of the refrigerant in the air exceeds 6,000 ppm more than 5 seconds, the function will be activated. (Refer to operation sequence which written in red, 1~6)

Variable Water Flow Control Kit

PWFCKN000 (MULTI V WATER 5)

Accessory for controlling the water flow.



Features

Function

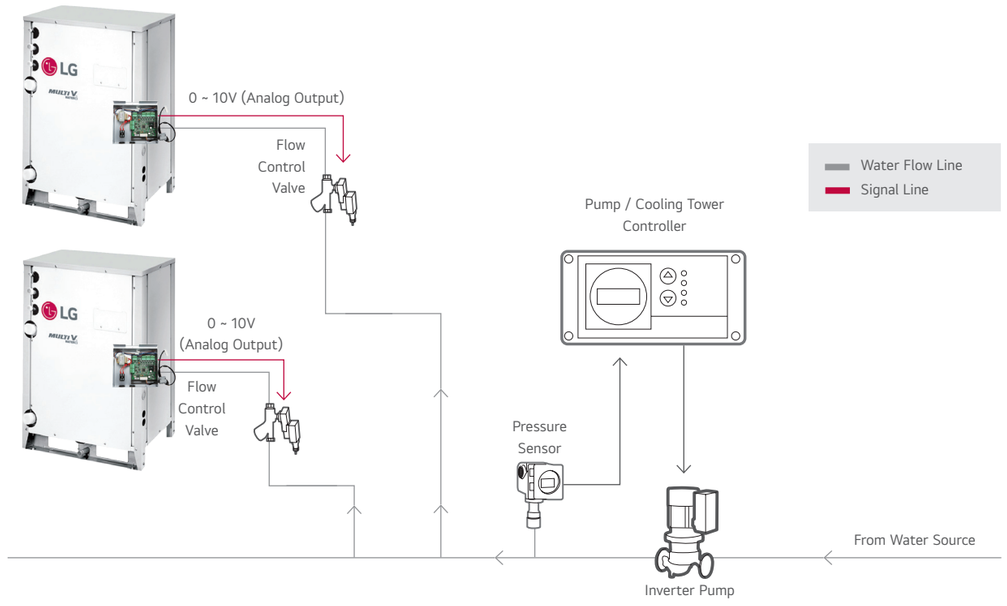
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A)

Description

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input / output, Digital output)
  : Using Dry contact and variable water flow control function simultaneously.

Installation Scene

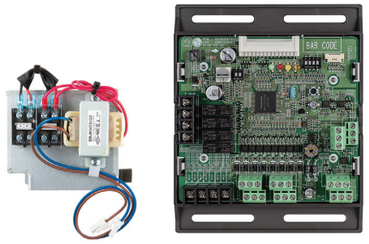
- Flow Control Valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
- Flow Meter : Measures mass flow rate of a fluid traveling through a tube.
  (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.)
-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



Low Ambient Kit

PRVC2

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



Features

Function

- -25 °C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V)
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (AC 250V, Max. 1A)
- Output error status (AC 250V, Max. 1A)

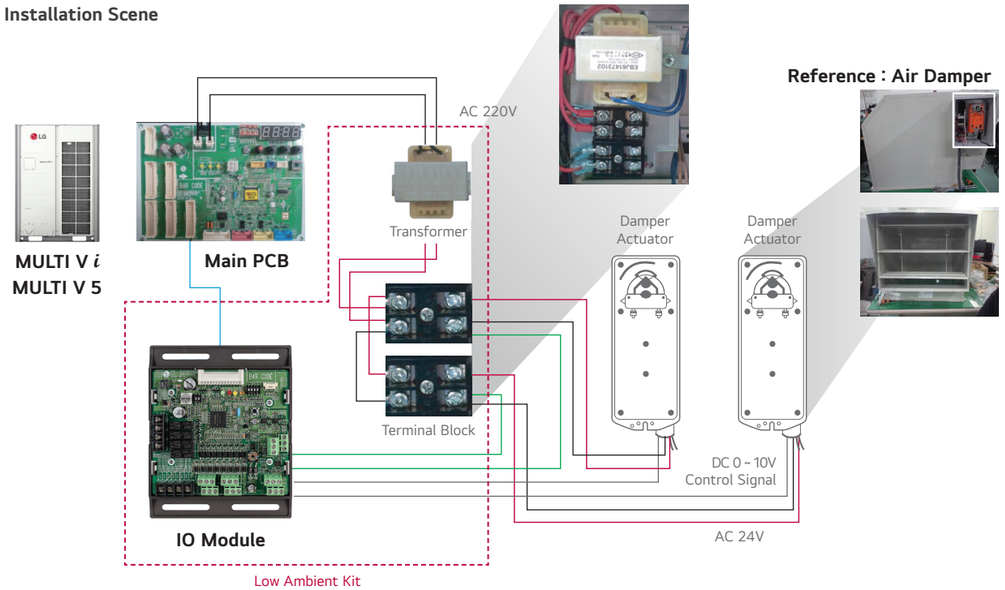
Description

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

Models Applied

- MULTI V *i*
- MULTI V 5

Installation Scene



Note
1. Damper Actuator can accept only AC 24V power input.
2. Do not input DC power. Otherwise it will cause a serious damage.
3. The IO Module can control maximum three actuators.
4. Case of one valve, the slave signal connector must not use.
5. The power (AC 24V) and signal (DC 0 ~ 10V) line is recommended by AWG22 (1/32 in, (0.644 mm), 0.016 Ω / ft (0.053 Ω / m)).

Cool / Heat Selector

PRDSBM

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



Features

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

Models Applied

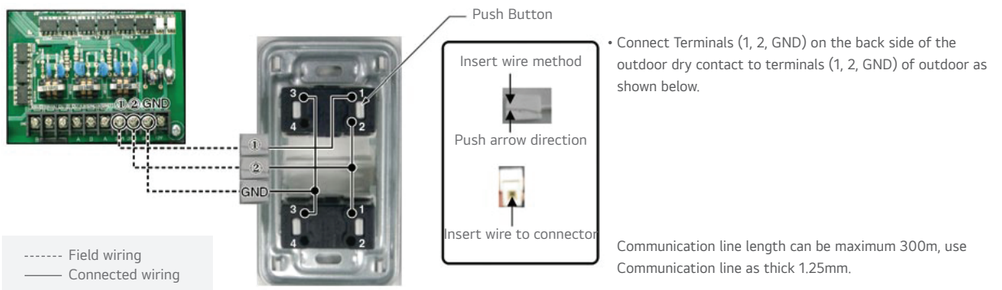
- MULTI V *i*
- MULTI V 5
- MULTI V IV
- MULTI V WATER S
- MULTI V WATER II
- MULTI V S
- MUL TI V PLUS II, MULTI V PLUS
- MULTI V WATER IV
- MULTI V WATER 5

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



Installation Scene

<Outdoor Main PCB >



- 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

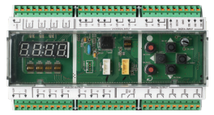


PRLK396A0

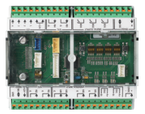


PRLK594A0

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

Expansion Application Kit

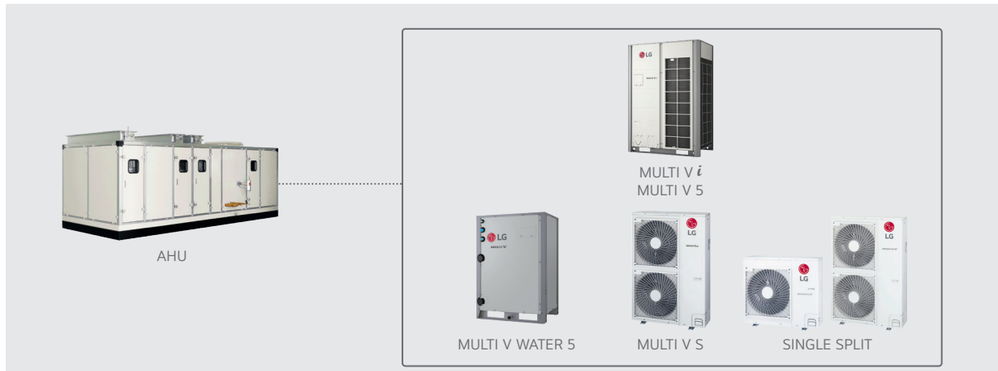
TYPE	MODEL	DIMENSIONS (MM)			PIPE DIAMETER (MM)	CAPACITY INDEX RANGE
		W	H	D	LIQUID	
EEV Kit	PRLK048A0	217	404	83	12.7	3.6 ~ 28 kW
	PRLK096A0	217	404	83	12.7	28.1 ~ 56 kW
	PRLK396A0	349.5	345.5	180	19.05	56.1 ~ 112 kW
	PRLK594A0	409.5	345.5	180	19.05	112.1 ~ 168 kW

Communication Kit

High Energy Efficiency

LG's DX AHU solutions' superior performance provides a highly efficient heat source system.
- High energy efficiency inverter system
- Large range of expansion application Kit : Max. 168 kW EEV Kit [1)]
- Connected to various heat sources : MULTI V, MULTI V WATER, MULTI V S, SINGLE SPLIT

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

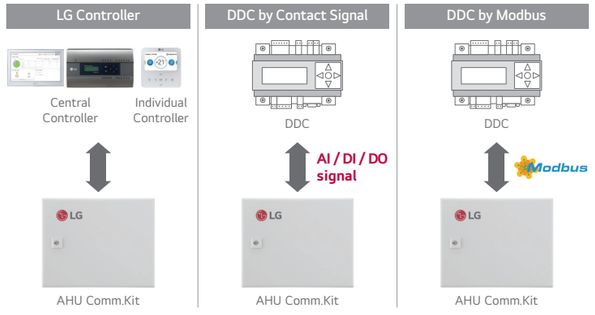


Diverse Options for Control

AHU communication kit can be connected to various control systems such as LG individual / central controller and DDC.[1)]
It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

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

1) DDC : Direct Digital Controller



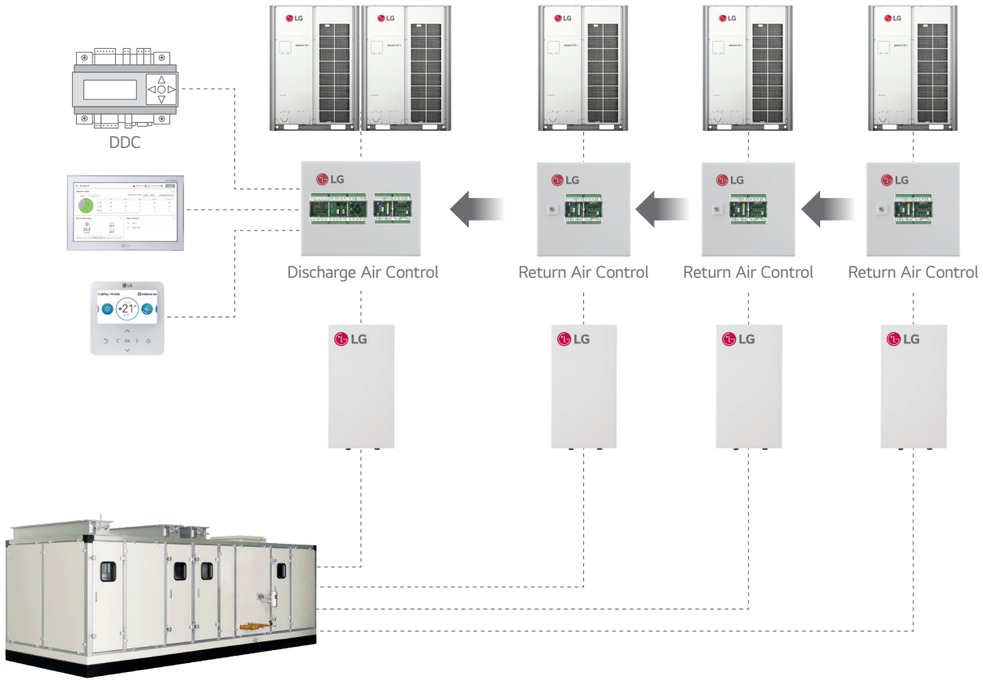
AHU Kit

Communication Kit

Expandable System Design

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

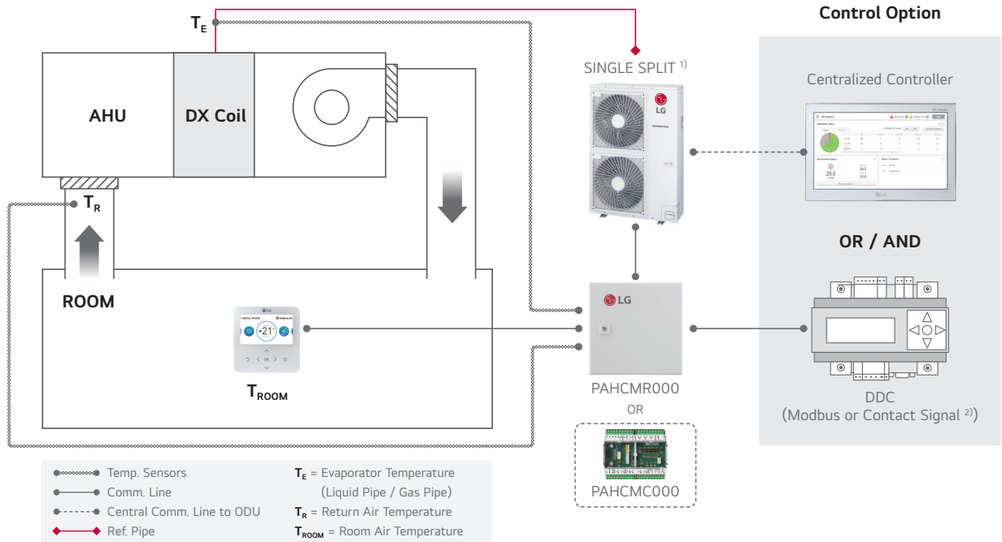
• Multiple module combination for large capacity AHU



Communication Kit & Controller Module

Single Split Application

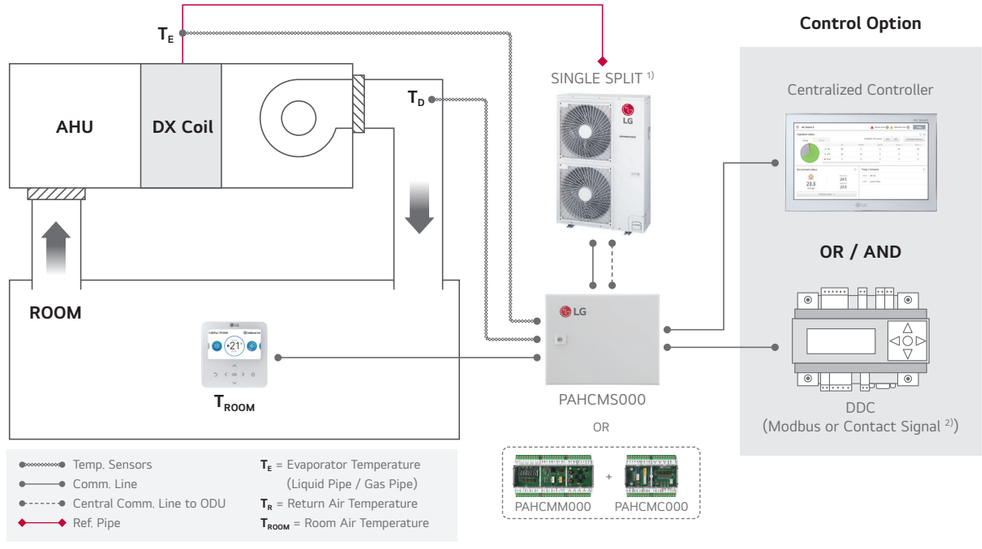
Single Split + Return / Room Air Temperature Control



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

Single Split Application

Single Split + Discharge Air Temperature Control



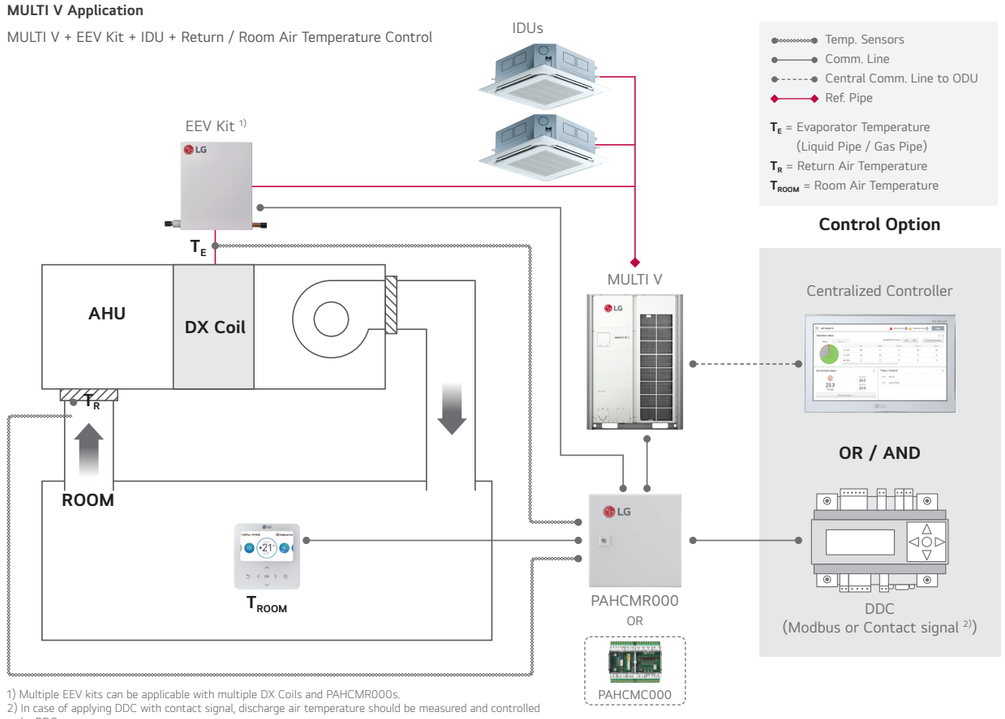
1) PI485 (PMNFP14A1) is required for using PAHCMS000.
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.
Note : For more detail, please refer to the PDB.

AHU Kit

Communication Kit & Controller Module

MULTI V Application

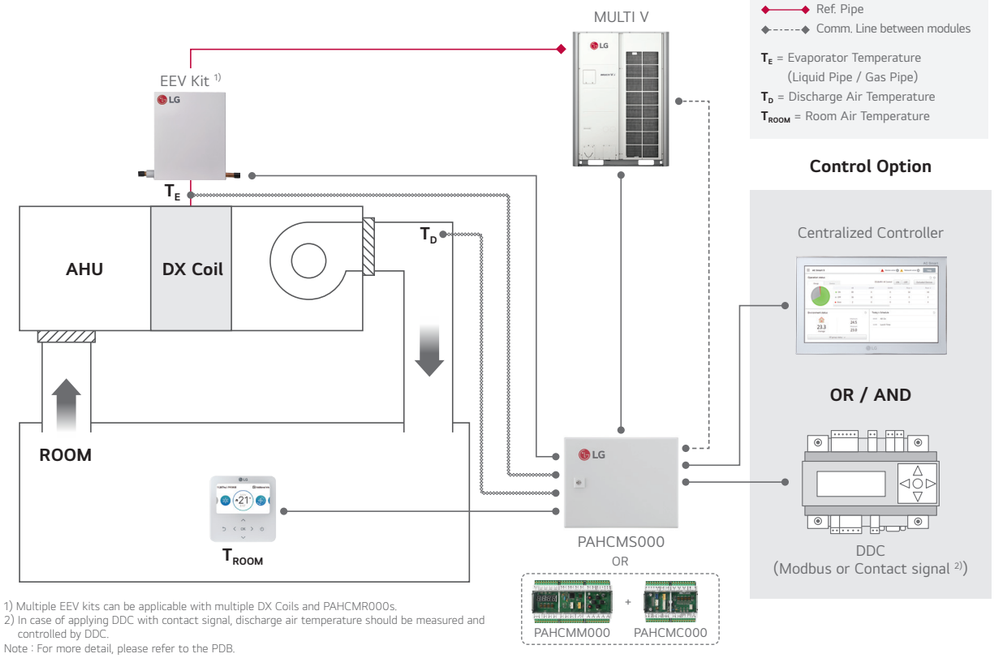
MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control



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

MULTI V Application

MULTI V + EEV Kit + Discharge Air Temperature Control



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

Communication Kit Function

Communication with DDC via Contact Signal

	FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	TYPE	NOTE
Control 1)	Operation On / Off	On / Off	On / Off	Digital Input (Non Voltage)	-
	Operation Mode	Cooling / Heating	Cooling / Heating	Digital Input (Non Voltage)	Available operation mode can vary depending on the settings of Communication Kit
	Return (Room) Air Temperature 2)	16 ~ 30 °C	-	Analog Input (DC 0 ~ 10 V / 20mA)	-
	Discharge Air Temperature 2)	-	-	-	Discharge air temperature should be controller directly by DDC using 'ODU Capacity Control
	Fan Speed 3)	-	High / Middle / Low	Digital Input (Non Voltage)	-
	Forced Thermal	On / Off	-	Digital Input (Non Voltage)	-
	ODU Capacity	-	10 ~ 100%	Analog Input (DC 0 ~ 10 V / 20mA)	-
	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 range of temp. is differ depending on the type of the controller.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
Note : For more detail information, please refer to the product data book.

Communication with DDC via Modbus protocol

	FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	NOTE
Control 1)	Operation On / Off	On / Off	On / Off	-
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	-
	Return (Room) Air Temperature	16 ~ 30 °C	-	-
	Discharge Air Temperature 2)	-	○	Dip SW1-2 Discharge Temp. Control Type should be set 'On' Standard II : 16 ~ 30 °C Standard III 4) : 12 ~ 50 °C
	Fan Speed 3)	High / Middle / Low	-	-
	Forced Thermal On / Off	-	-	-
	ODU Capacity Control 2)	-	10 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'On'
	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 2.10.5a.
Note : For the Modbus memory map and more detail information, please refer to the product data book.

AHU Kit

Communication Kit Function

With LG Control System (Individual & Centralized Controller)

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

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

Compatibility with LG HVAC Controllers

CONTROLLER	INDIVIDUAL CONTROLLER				CENTRALIZED CONTROLLER					PDI
	DELUXE	PREMIUM	STANDARD III	STANDARD II	AC EZ	AC EZ TOUCH	AC SMART 5	ACP 5	AC MANAGER 5 [1]	PREMIUM STANDARD
	NEW 									
Model No.	PREMTMB01* PREMTA211 PREMTA210	PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PACM5A000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○	○
PAHCMS000	-	-	○	○	-	-	○	○	○	-

* 2H Launching
※ ○ : Applied, - : Not Applied
1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
Note : 1. Dry contact for indoor unit (PDRYCB000 / 400 / 300 / 500) is not applied.
2. For more details, please refer to the product data book.

Outdoor Unit Compatibility

For Small Size Application (~ 15kW) - Single Split

TYPE	MODEL	UUA1 (2.5 ~ 5.0 KW) [1]	UUB1 (5.0 ~ 8.0 KW) [1]	UUC1 (7.1 ~ 10.0 KW) [1]	UUD1 / UUD3 (10.0 ~ 15.0 KW) [1]
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	-	○	○	○
	PAHCMS000 (PAHCMM000 + PAHCMC000)	-	○	○	○
Control Kit	PAHCNM000	-	-	-	-

1) When connecting to Single Split outdoor unit, please check the compatibility to the regional sales office.

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

TYPE	MODEL	MULTI V					MULTI V WATER		
		i	5	IV	III	S	5	IV	II
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	○	○	○	○	○	○	○	○
	PAHCMS000 (PAHCMM000 + PAHCMC000)	○	○	○	○	○	○	○	○
Control Kit	PAHCNM000	○	○	○	○	○	○	○	○

EEV Kit Compatibility

EEV KIT MODEL	CAPACITY INDEX (KW)		AHU APPLICATION KITS (MAXIMUM CONNECTABLE EEV KITS)			CONNECTION BY ODU SYSTEM		
	MIN.	MAX.	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	PAHCNM000	MULTI V		SINGLE SPLIT
						HEAT PUMP	HEAT RECOVERY	
PRLK048A0	3.6	28	○ (1)	○ (1)	○ (6)	○	○	-
PRLK096A0	28.1	56	○ (1)	○ (1)	○ (6)	○	○ (Max. 33.7 kW)	-
PRLK396A0	56.1	112	○ (1)	○ (1)	○ (6)	○	-	-
PRLK594A0	112.1	168	-	○ (1)	○ (3)	○	-	-

※ 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 N·m - Operation time : 150 s - Rotation Angle : 90˚	Outdoor air damper, Exhaust air damper, Mixed damper
Filter Differential Pressure Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range: 0 ~ 1,000 Pa	Filter
	- Switch type : Relay open / close	
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

Temperature Sensor
- Return Air, Supply Air (Essential)
- Mixed Air

Temp. & Humidity Sensor
- Return Air / Supply Air / Outdoor Air

Damper Actuator
- Exhaust Air / Outdoor Air / Mixed Air

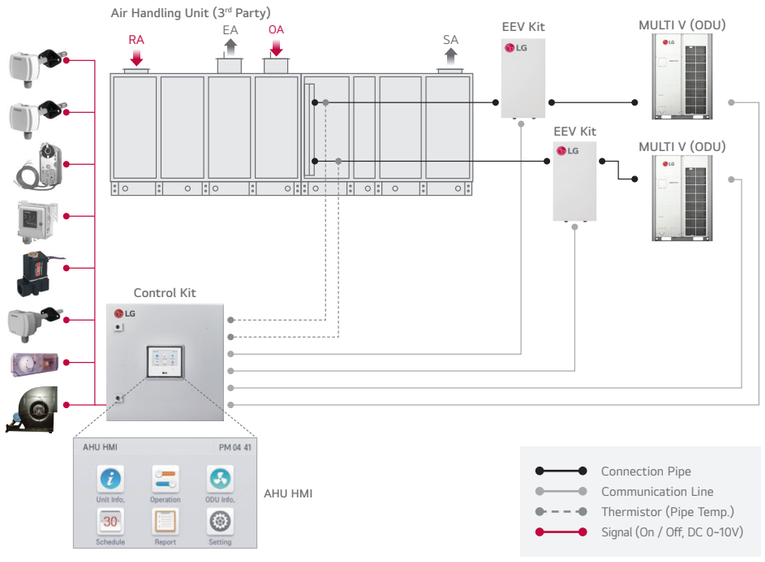
Differential Pressure Switch

Valve for Humidifier

CO_2 Sensor

Smoke Detector

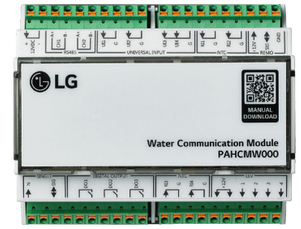
Fan
- Supply / Return



Water Communication Module

PAHCMW000

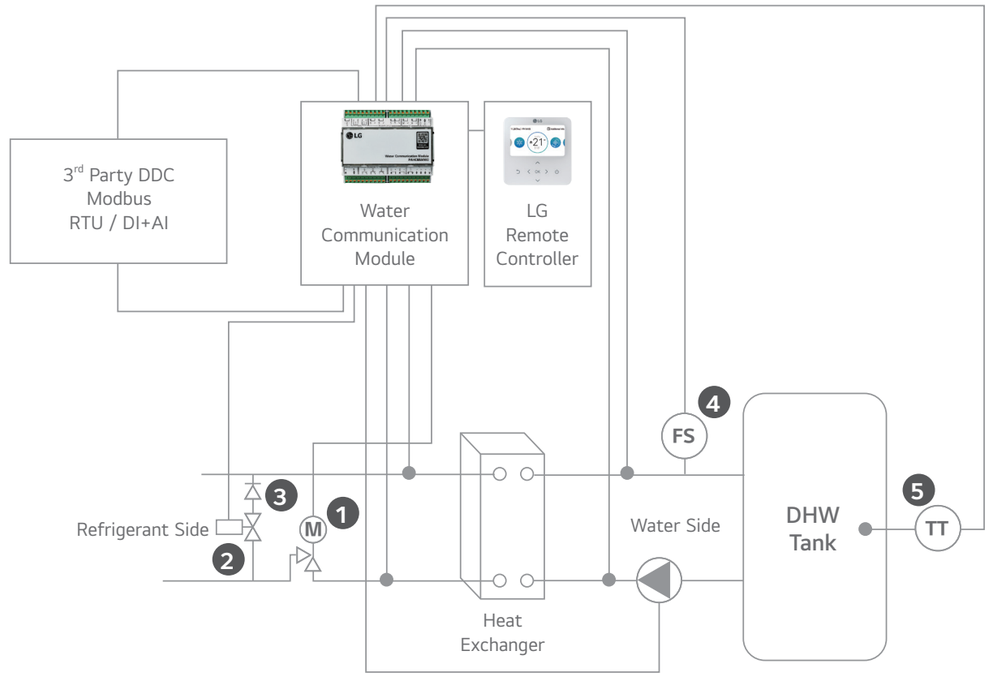
This module is intended to connect 3rd party plate heat exchangers to LG outdoor units with the ability to control water temperature from a 3rd party DDC or LG remote controller.



Overview

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

1. EEV
2. Solenoid Valve (NC)
3. Non-Return Valve
4. FS : Flow Switch
5. TT : DHW Temperature Transmitter



Note
1. 3rd party solenoid, non-return valve, heat exchanger, flow switch and DHW temperature transmitter (Optional) must be purchased separately. (Field supplied items)
2. LG remote controller is not supported when water communication module is controlled by contact (Digital / Analog input) signal.

Water Communication Module

Features & Benefits

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

Interlocking with 3rd Party Equipment

CONTENTS	CONNECTION PORT		FUNCTION
RS485	CH1 (A+ / B-)	Module Comm. Port	Communication Port Modbus
	CH2 (A+ / B-)	IDU Comm. Port	Communication with MULTI V Outdoor
UNIVERSAL INPUT (Cooling / Heating Setting)	UI1	Flow Switch	Flow Switch Input by 3rd Party
	UI2	0 ~ 10V Set Temp.	Target Temp. Setting
	UI3	Cooling Thermostat Signal	Thermostat Cooling Signal
	UI4	Heating Thermostat Signal	Thermostat Heating Signal
UNIVERSAL INPUT (DHW Only)	UI1	Flow Switch	Flow Switch Input by 3rd Party
	UI2	0-10V Set Temp.	Target Temp. Setting
	UI3	DHW Temperature Transmitter 0 ~ 10V	Measured Water Temp. Input by 3rd Party 0 ~ 10 V Sensor
	UI4	DHW Thermostat Signal	DHW Heating Signal
NTC	RI1	Water Inlet Sensor	PHEX Water Inlet Sensor
	RI2	Water Outlet Sensor	PHEX Water Outlet Sensor
REMO	+12V / SIG / GND	LG Remote Controller	-
SINGLE	Reserved	-	-
DIGITAL OUTPUT	DO1	Defrost / Mode	Output for Defrost Signal and / or Cool Mode
	DO2	Pump	Output Signal for Pump On / Off
	DO3	Bypass	Output signal for PHEX Bypass Valve
NTC	RI3	Thermistor Pipe In	PHEX Ref. Inlet Pipe Sensor
	RI4	Thermistor Pipe Out	PHEX Ref. Outlet Pipe Sensor
EEV	+12V / 1 / 2 / 3 / 4	Expansion Valve	EEV Control

Compatibility & Accessory

EEV (LG MODEL)

MODEL	CAPACITY (KW)		PAHCMW000
	MIN.	MAX.	
PAEEVC000	3.6	28	HP / HR
PRLK048A0	3.6	28	HP / HR
PRLK096A0	28.1	56	HP
PRLK396A0	56	112	HP

Note :
Water communication module can accept plate heat exchangers from 3, 6 to 112 kW for combination with MULTI V outdoor units.

LG Controllers

CONTROLLER	INDIVIDUAL CONTROLLER	CENTRALIZED CONTROLLER		DRY CONTACT
	HEATING STANDARD III	AC EZ TOUCH	AC SMART 5	
	PREMTW101	PACEZA000	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	HP / HR	0.95	3/8" / 9.52mm
		PRLK048A0			
28	56	PRLK096A0	HP	1.9	1/2" / 12.7mm
56	112	PRLK396A0	HP	2.85	3/4" / 19.05mm

Flow switch

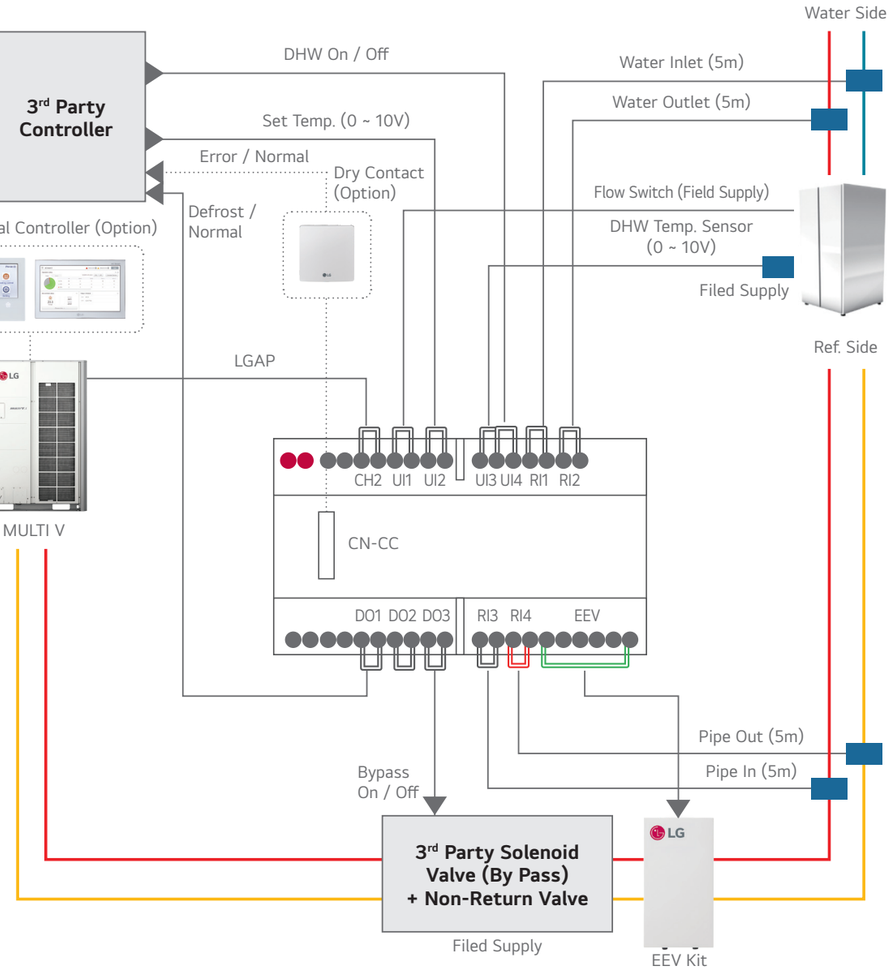
• The nominal flow and cut of flow can be calculated using the values below.

CONTROLLER	NOMINAL FLOW	FLOW SWITCH CUT OFF
L / min*kW	3.29	1.23

* Example : ODU nominal Cooling Capacity 28 kW, 28 x 3.29 = 92.12 L / min. nominal flow, 28 x 1.23 = 34.44 L / min. flow switch cut off

Installation Scene with Contact Connection

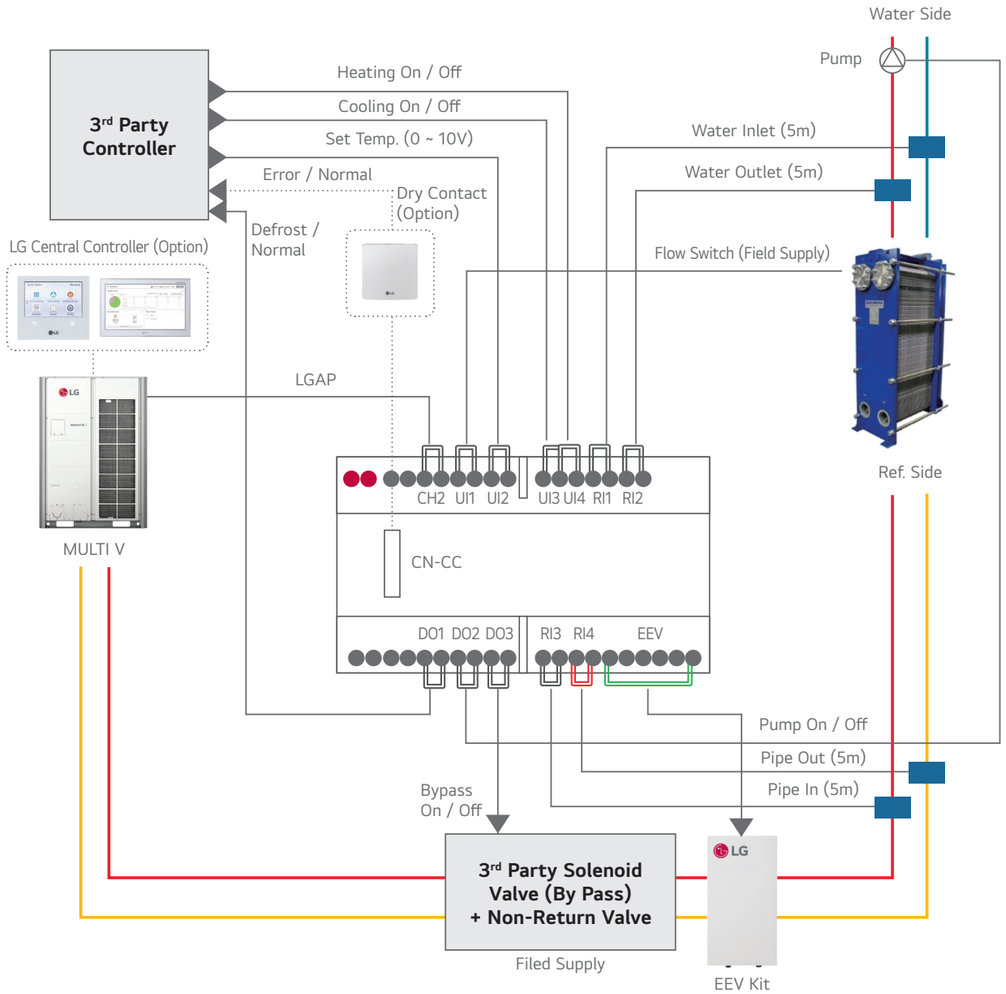
Contact Signal + DHW Only Setting



Water Communication Module

Installation Scene with Contact Connection

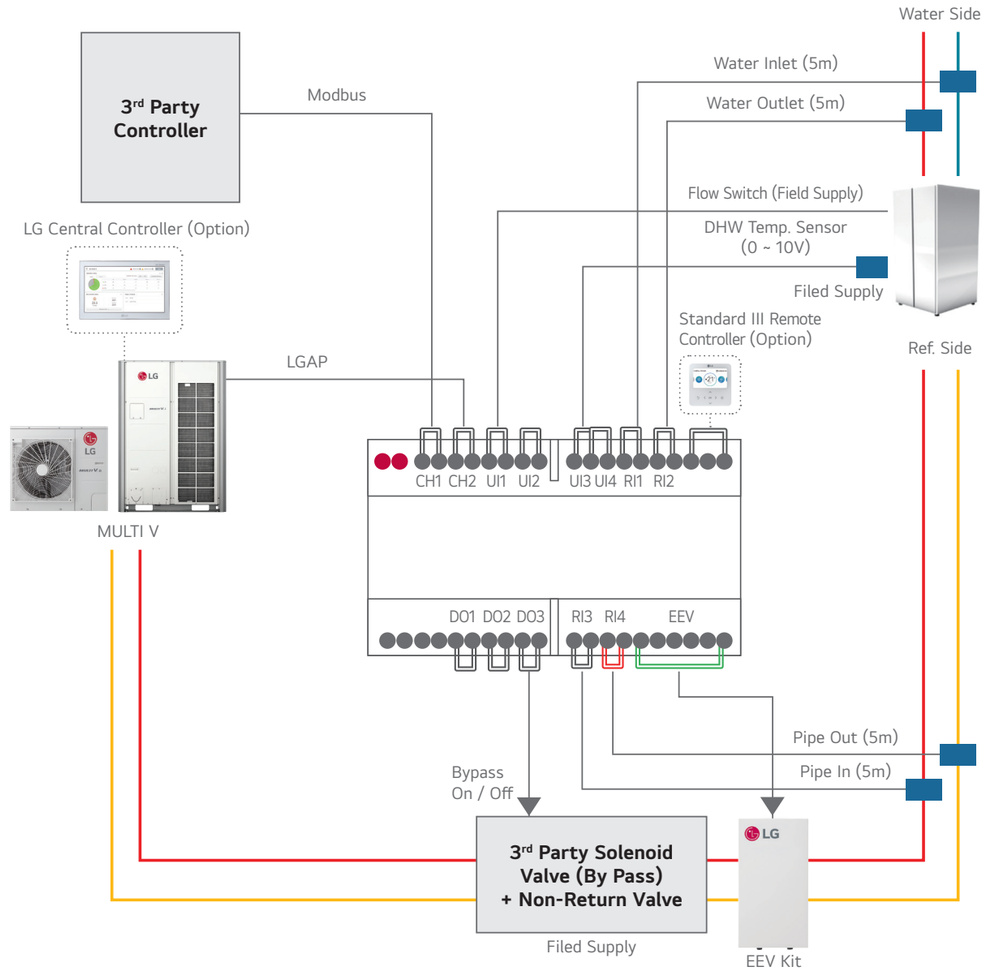
Contact signal + Heating / Cooling Setting



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

Installation Scene with Modbus / LG Control (Optional) Connection

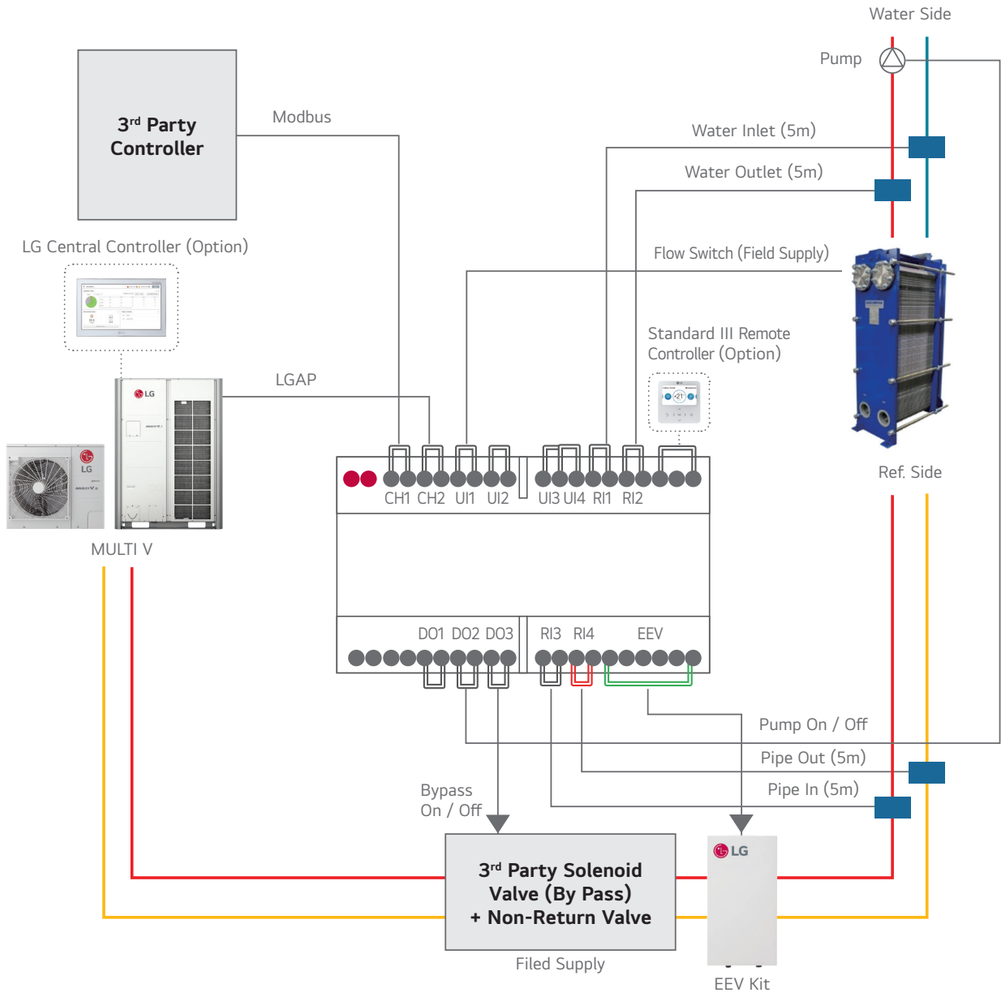
Modbus + DHW Only Setting



Water Communication Module

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + Heating / Cooling Setting





Hotel Control Solution



Guest Room

Air conditioner automatically switches off when guests depart

Integrated control of air conditioner with the hotel room controller

Air conditioner can be controlled with existing hotel thermostat

Prioritizes guest safety with refrigerant leak detection

Reception

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

Public Areas

Centralized management of the public areas

Design Proposal

GUEST ROOM

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 / PDRYCB510

(w/o case)

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





PLDRNV1S

R32 Refrigerant leak detector

- 5,000ppm



PRLDNVS0

Refrigerant leak detector

- 6,000ppm



PREMTB101

Wired remote controller

- 4.3 inch color LCD
- Touch button

LOBBY

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





PACS5A000

AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)



PACP5A000

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

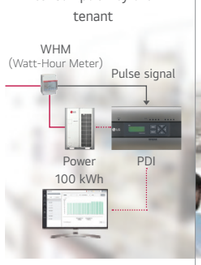
Integrated management of AHU applied to large spaces

Chiller and VRF integrated control

Design Proposal

RETAIL

Proportionally distribute and manage power consumption by the tenant





PPWRDB000

PDI Standard (2 ports)

- Max. 128 IDU

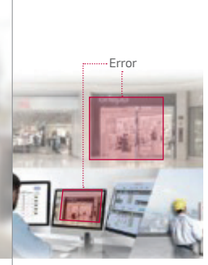


PQNUD1S40

PDI Premium (8 ports)

- Max. 128 IDU

Fast problem detection and alarms





PACS5A000

AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)



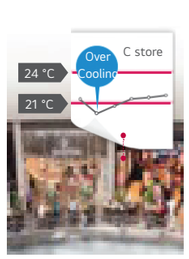
PACP5A000

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 Comm.Kit

- Return air



PAHCMS000

AHU Comm.Kit

- Discharge air

Chiller and VRF integrated control





PACP5A000

ACP 5



PACS5A000

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

Proper airflow management for patients



PTVSMA0
Human detection sensor



PREMTB101
Wired remote controller

- 4.3 inch color LCD
- Touch button

Monitor the comfort level for each hospital ward



PACS5A000
AC Smart 5

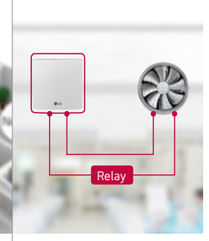
- BMS Integration (BACnet IP, Modbus TCP)



PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

External device interlock control



PDRYCB400
2 contact point

Input

- Operation On / Off

Output

- Operation On / Off status
- Error alarm

SERVICE ZONE

Energy savings based on flexible scheduling



PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)



PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)

LOBBY

Centralized management of AHU for large space



PAHCMR000
AHU Comm.Kit

- Return air



PAHCMS000
AHU Comm.Kit

- Discharge air

Academic Institution Control Solution



Classroom

Automatically save energy in the absence of students

Central controls prevent students from arbitrary control

Lecture Hall

Schedule management according to academic plan

Maintenance Office

Integrated management of distributed buildings

Centralized management with multiple interfaces

Design Proposal

CLASS ROOM

Automatically save energy in the absence of students



PTVSMA0
Human detection sensor



PREMTB101
Wired remote controller

- 4.3 inch color LCD
- Touch button

Central controls prevent students from arbitrary control



LECTURE HALL

Schedule management according to academic plan

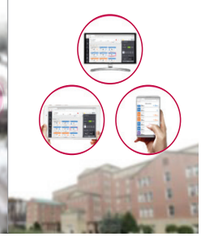


MAINTENANCE OFFICE

Integrated management of distributed buildings



Centralized management with multiple interfaces





PACS5A000
AC Smart 5

- BMS Integration (BACnet IP, Modbus TCP)



PACP5A000
ACP 5

- BMS Integration (BACnet IP, Modbus TCP)



PACM5A000
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

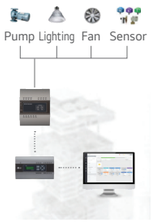
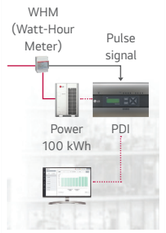
Server Room

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
					
PACS5A000 AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PACP5A000** ACP 5	**PEXPMB000** ACS IO Module	**PPWRDB000** PDI Standard (2 ports) • Max. 128 IDU	**PACS5A000** AC Smart 5 • BMS Integration (BACnet IP, Modbus TCP)	**PTVSMA0** Human detection sensor
					
PACP5A000 ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PMBUSB00A** Modbus RTU gateway	**PEXPM300** **PEXPM200** **PEXPM100** ACU IO Module	**PQNUD1S40** PDI Premium (8 ports) • Max. 128 IDU	**PACP5A000** ACP 5 • BMS Integration (BACnet IP, Modbus TCP)	**PREMTB101** Wired remote controller • 4.3 inch color LCD • Touch button

Residential Control Solution



Home

Anytime, anywhere air conditioner control and access

Integrated systems for smart connectivity throughout

Bedroom

Use a familiar residential thermostat

Simple interlocking control by remote control

Apartment / Residence

Stable system operation

Design Proposal

HOME		BED ROOM		APARTMENT
Control your home air conditioner anytime, anywhere	Build a Smart house	Use a familiar residential thermostat	Simple interlocking control by remote control	Stable system operation when indoor unit power is lost
				
PWFMDD200 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	**PREMTB101** Wired remote controller • 4.3 inch color LCD • Touch button	**PINPMB001** Multi-tenant Power Module • EEV full close function

ACCESSORIES

Mechanical accessories 336
Piping accessories 348

Cassette Panel

The independent vane operation ensures comfortable air flow.



PT-QAGW0



PT-USC



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



PT-UAHW0, PT-TAHW0

Model Name & Applied Products

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

2 Way Cassette
PT-USC

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

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

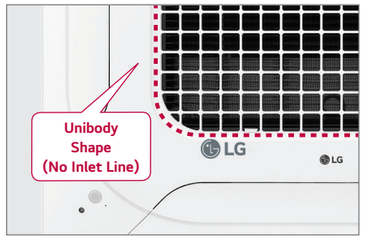
Key Features

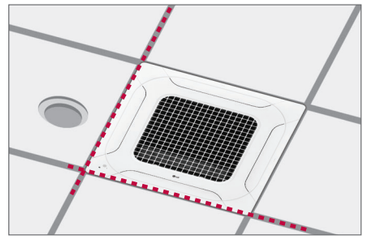
• Independent vane operation uses separate motors, making it possible to control all 1, 2, and 4 vanes independently.
• The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

Compact and Stylish Design

• Mini 4 Way cassette panel adapted unibody shape and matching with the ceiling.
• Panel size fits the ceiling tile.





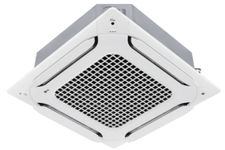


Specification

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

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

Dual Vane Cassette Panel



Model Name

PT-AAGW0
PT-AFGW0

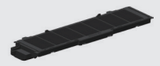
Key Features

Model	Function				
	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Human Detection Sensor
PT-AAGW0 PT-AFGW0	O	Optional	Optional	X	Optional
	O	Optional	Optional	Optional (Dust Sensor, Tact Switch)	Optional

Specification

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

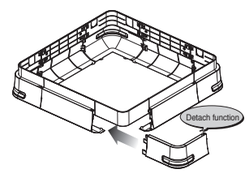
Air Purification Kit

Model	Type	Image	Model Name	Dielectric Dust Collecting Filter	Photocatalytic Deodorizing Filter	HVPS	Ionizer
Air Purification Kit	4 Way		PTAHMP0	 O	O	O	O
	1 Way		PTAHTP0	 O	O	O	O
	Round		PTAHYP0	 O	O	O	X

Cassette Cover

Cover in case of exposed cassette installation.





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
PTDCA	PT-AAGW0 / PT-AFGW0	TP-B	6.1	9.5	1,157	266	1,157
		TM-A	6.1	9.5	1,157	308	1,157

Model Name

PTDCA

Applied Products

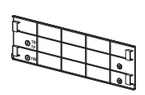
4 Way Cassette (for chassis TP-B, TM-A)

Included Parts

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



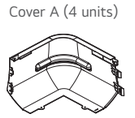
Cover A (4 units)



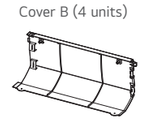
Cover B (4 units)



Screw (28 units)



Cover C (4 units)



Cover D (4 units)



Installation Manual

4 Way CST Elevation Grille Panel with Air Purification Kit

Easy-to-clean automatic elevating grille panel, The function of automatic lifting panel and Air purification are implemented in one panel, providing customers with comfortable air as well as maintenance convenience.

Conventional



LG Elevation Grille Panel





Features

1. Floor Obstacle Sensing
2. Left and Right Horizontal Sensing
3. Setting the Stop Position
4. Checking the Grille Closure

Specification

Category		Unit	Catalog Spec
Major	Minor		
Model Name	-	-	PTVK440 ENCXLEU
Panel Type	-	-	Air Purifying & Elevation Grille Kit
Panel Dimension	Net (W x H x D)	mm	842 x 55 x 842
	Shipping (W x H x D)	mm	902 x 150 x 917
Panel Weight	Net	kg	5.6
	Shipping	kg	9.2
Panel Accessory	Elevation Grille Kit	-	O

Category		Unit	Catalog Spec
Major	Minor		
Model Name	-	-	PT-AEGW0 ENCXLEU
Panel Type	-	-	Front Panel
Panel Exterior	Glossy / Matt	-	Matt
	Color	-	White
	RAL (Classic)	-	RAL 9003
	Grille Type (Grille / Grid)	-	Grid
Panel Dimension	Net (W x H x D)	mm	950 x 35 x 950
	Shipping (W x H x D)	mm	1,006 x 117 x 1,006
Panel Weight	Net	kg	10.5
	Shipping	kg	12.4
Panel Function	PM1.0 Sensor	-	O
Panel Accessory	Air Purification Kit	-	O
	Elevation Grille Kit	-	PTVK440
	Floor Detection Sensor	-	O
	Human Detection Sensor	-	PTVSAA0

* This product will be available in 2H '24 (This function application schedule may be changed without notification).

R410A Refrigerant Leak Detector

R410A refrigerant leak detector ensures room safety.



Model Name

PRLDNVS0

Applied Products

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

Key Features

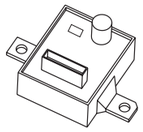
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- Alarm is "on" when refrigerant leaks out more than 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is "off ".
- When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

Specification

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

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

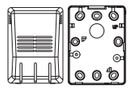
Included Parts



Sensor



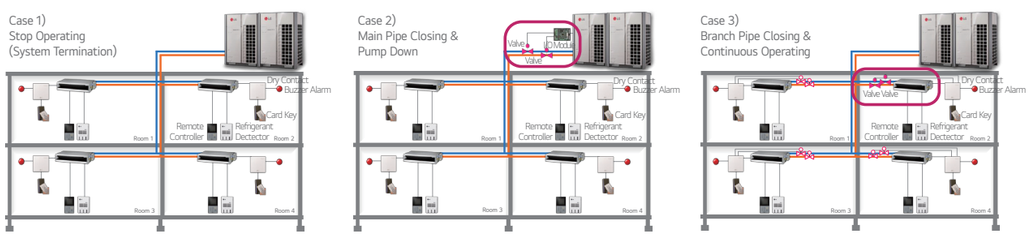
Connecting Cable



Sensor Protective Cover

Key Application

Refrigerant leak detector has three application methods.



Accessory Specification (To realize the case 2 application)



I/O Module
PVDSMN000



PRLDNVS0
(Refrigerant leak detector)



[Optional / Field Supply]
Automatic
Ball Valve[1)]



PDRYCB400
(Dry contact)



[Optional / Field Supply]
Buzzer Alarm
for Central Control Room
(Direct connection ~
DC 30V, ~ 1A)



[Field Supply]
Buzzer Alarm for Room



Central Control Devices

※ Necessary accessory

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

R32 Refrigerant Leak Detector

R32 refrigerant leak detector should be needed to ensure occupant's safety by IEC 60335-2-40 because of R32's low-flammability.

NEW



Model Name

PLDRNV1S

Applied Products

MULTI V *i* R32
MULTI V S R32 (ZRU***)

Key Features

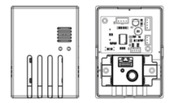
- The green LED turns on in normal mode. If the detector is abnormal such as "Leakage", "Malfunction" and "Lifetime", the red LED blink and buzzer sounds simultaneously with error display on indoor units, wired remote controller or central controller.
- "Leakage" alarm is "on" with "CH230" error display when refrigerant leaks out more than 5,000ppm for 5 seconds. "Leakage" alarm is "off" only when the system reset.
- "Malfunction" alarm is "on" with "CH228" error display when the detector determines failure.
- "Lifetime" Alarm is "on" with "CH229" error display when the used time exceeds 365days.
- When the alarm of the refrigerant leak detector is switched on, the occupants should be away from the site and supervisor must ventilate the room until the alarm is disabled.
- The detector has to be installed inside the room and it should be installed 0.3~0.5m above the floor.

Specification

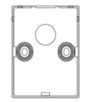
Parts		Specification
Sensor	Size (W x H x D, mm)	53.8 x 30 x 22
	Weight (g)	12
	Power Supply Voltage (V)	5.0 DC ± 5%
	Average Power Consumption (mA)	40 (Max. 80)
	Certificate	RoHS2, JRA 4068:2016R, IEC60335-2-40 Ed6.0
	Detectable Refrigerant	R32
	Alarming	Leakage (5,000ppm) / Malfunction / Lifetime
	Operation Temperature (°C)	-25 ~ 60
PCB Assembly	Buzzer Noise Level (dB(A))	85
	LED	Green (Normal) / Red (Alarming)
Connecting Cable	Length (m)	10
Sensor Protective Case	Plate Dimension (Front / Back) (W x H x D, mm)	66 x 89 x 46 / 66 x 89 x 16

※ Error can be displayed on some indoor units such as Wall-mounted, Ceiling Mounted Cassette etc.
※ Sound level can vary depending on the installation condition.

Included Parts



Sensor Assembly



Case

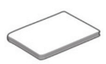


Screws

Screws



Connecting Cable

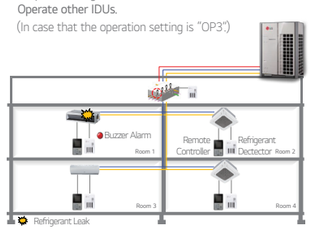


Installation Manual

Key Application

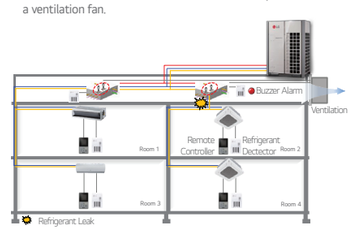
Refrigerant leakage detector has application methods. (LG system complies with IEC 60335-2-40)

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



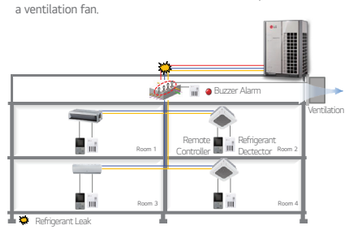
Enhanced Tightness Refrigerating System
+ Safety Devices (Shut-off Valve + Alarm)

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



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

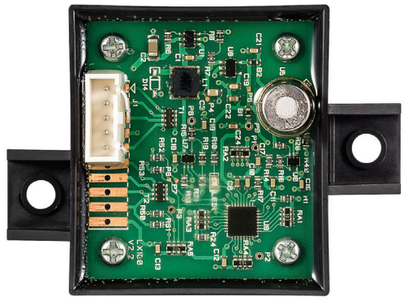
- Close all shut-off valves inside the HR unit and operate a ventilation fan.



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

CO_2 Sensor

CO_2 sensor in ventilation system.



Model Name
AHCS100H0

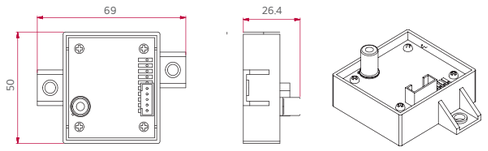
Applied Products
LZ-H025GBA4
LZ-H035GBA5 / LZ-H050GBA5
LZ-H080GBA5 / LZ-H100GBA5
LZ-H150GBA5 / LZ-H200GBA5

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

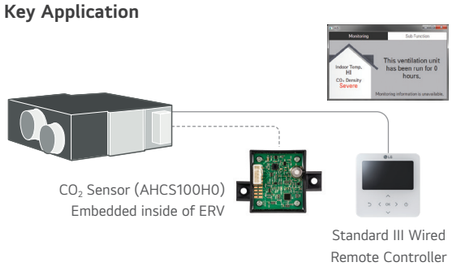
Key Features
Specification
- Applied Model : ERV (Embeded), ERV DX (Option)
- Supply Voltage : DV12V ± 5%
- Output : 0.6 ~ 4.4V (Linear output, 240 ~ 1,760 ppm CO_2)
- Accuracy : ± 10% (2 days after installation)

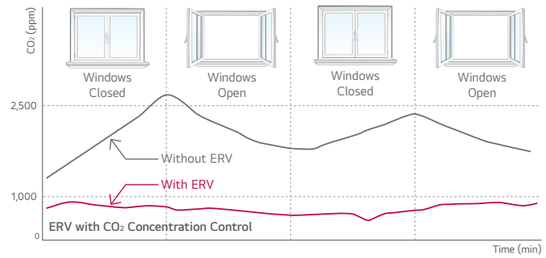
Description
- The product is especially designed to detect CO_2.
- This model requires Standard III Wired Remote Controller for display.

Dimensions (Unit : mm)



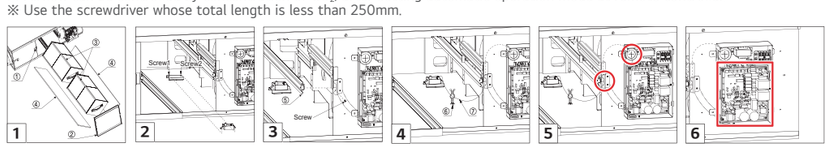
Key Application





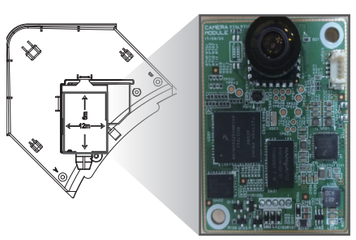
How to Install
1. Remove a screw on the service cover. Pull the service cover fixing bracket (①), then remove the service cover (②). Remove two elements (③) and two air filters (④).
2. Install the sensor with two screws.
3. Remove a screw, then remove the right side of element rail (⑤).
4. Press the 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-AAGW0
(For Dual Vane Cassette Panel)
PT-AFGW0
(For Dual Vane Cassette Panel)

Key Features
- Human Detection Control provides two functions. 'Saving Operation' for energy savings and 'Wind Direction Operation' for comfort.
- Detection Range : ~ height 4.2m
- Installation Height 2.7m → Detection area 12m x 6m
- Installation Height 3.2m → Detection area 15m x 8m
- Installation Height 4.2m → Detection area 18m x 9m

EEV KIT (for Indoor Unit)

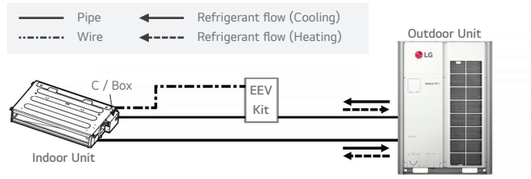
MULTI V EEV KIT is specially designed to reduce noise and ensure a comfortable environment.

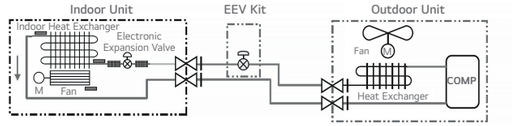


Model Name
PRGK024A0

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

Key Application





Applied Products

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

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

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


Luxury Hotel

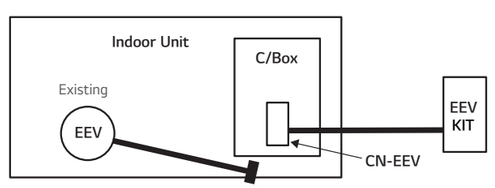

Villa


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 ducts and floor standing units which the customer wants to control by wireless remote controller.



Model Name

PWLRVN000

Applied Products

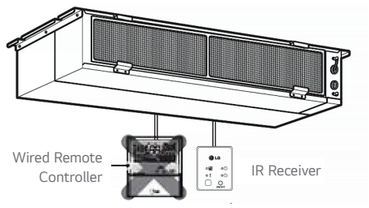
MULTI V Indoors (Ceiling Concealed Duct, Floor Standing Units)

Key Features

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

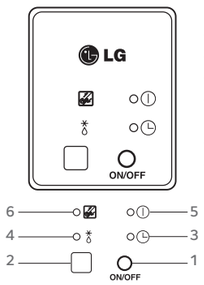
Key Application

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





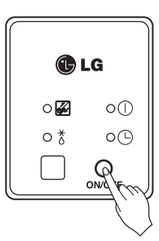
Wireless Remote Controller (Standard)



Signal Receiver

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 controler.
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.

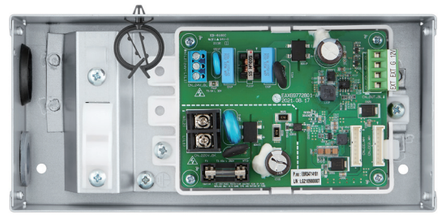


Test Run Mode

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 remains stable when indoor unit power is lost.



Model Name

PINPMB001

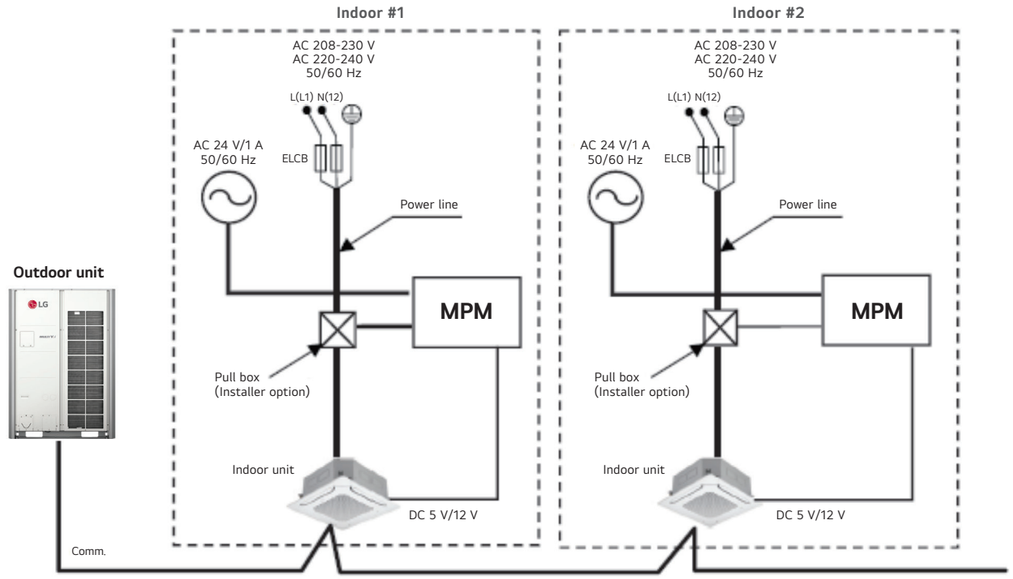
Applied Products

MULTI V Indoor Units

Key Features

- Multi-tenant site IDUs are powered separately, some of IDU power is gone by each tenant. In this case, system operation is not stable without Multi-tenant Power Module.
- This module power each EEV for stabilizing system operation.

Installation Scene



※ When Multi-tenant Power Module is adopted, CN-EXT must used for it. Instead of being used CN-EXT, PDRYCB000 (220Vac input) / PDRYCB100 (24Vac Input) Module are being used for Single contact.

Auxiliary Heater Relay Kit

Providing an efficient way to add auxiliary heat.



Model Name
PRARS1

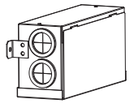
Applied Products
Wall Mounted, Art Cool Mirror, Art Cool Gallery

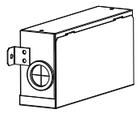
Model Name
PRARH1

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

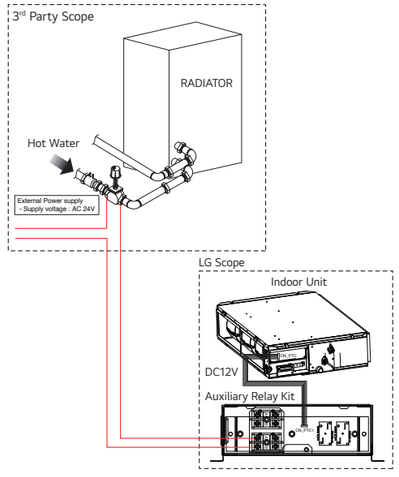
Key Features
- Provides two stages of auxiliary heat for indoor unit.
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

Included Parts

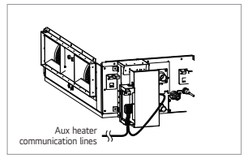
Model	PRARH1			
Item	Auxliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1
Figure				

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

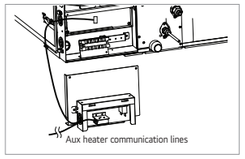
Key Application



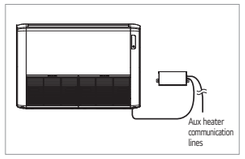
How to Install



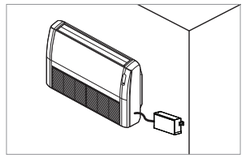
High Static Ducted

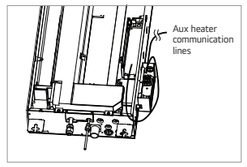


Low Static Ducted

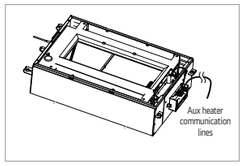


Ceiling Suspended

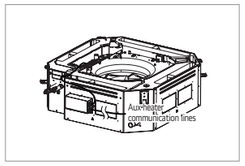

Wall Mounted



1 Way Cassette



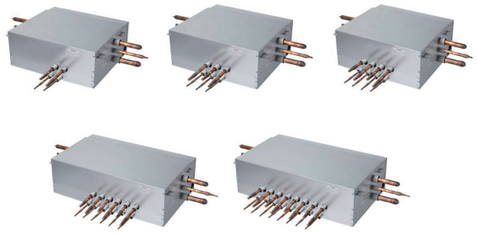
2 Way Cassette

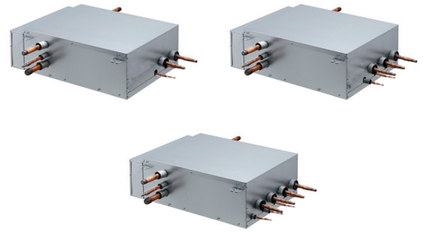


4 Way Cassette

NOTE

Heat Recovery Unit





Applied Products

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

Model Name (R410A)

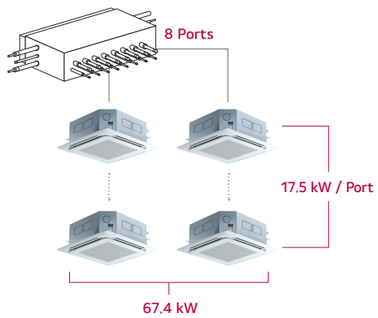
PRHR023 (2 Branch Unit)
PRHR033 (3 Branch Unit)
PRHR043 (4 Branch Unit)
PRHR063 (6 Branch Unit)
PRHR083 (8 Branch Unit)

Key Features

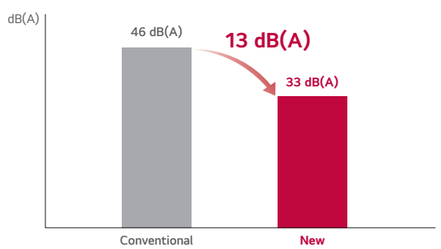
- Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection.
- Subcooling cycle in the HR unit ensures maximum system efficiency.

Connection Capacity

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



Reduce Noise



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

Applied Products

MULTI V *i*

Model Name (R32)

PRHRZ020 (2 Branch Unit)
PRHRZ030 (3 Branch Unit)
PRHRZ040 (4 Branch Unit)

Key Features

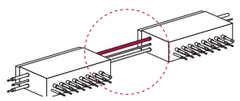
- When a refrigerant leak is detected, a ventilation fan is operated by the HR Unit control.
- There is a shut-off valve inside the HR Unit, allowing for quick and easy installation.
- The remaining indoor units can be operate, thanks to close only the leaked shut-off valve.
- There is no limitation on a minimum room area due to safety devices. (Ventilation Fan, Shut-off Valves, Alarm) (* Excluding cases where it is installed on the lowest basement floor.)
- Max. 32 indoor units can be connected. (Max. 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.

Flexible Connection

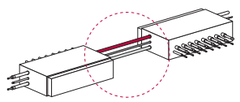
Series connection can be installed without pipes crossing.

New





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



Included Parts

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

Specification (R410A)

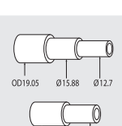
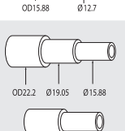
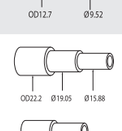
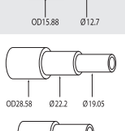
Model			Unit	PRHR023	PRHR033	PRHR043	PRHR063	PRHR083
Number of Branch			EA	2	3	4	6	8
Maximum Connectable Capacity of Indoor Units (Per branch / unit)			kW	17.5 / 35	17.5 / 52.5	17.5 / 67.4	17.5 / 67.4	17.5 / 67.4
Maximum Number of Connectable Indoor Units Per Branch			EA	8	8	8	8	8
Nominal Input	Cooling		kW	0.040	0.040	0.040	0.076	0.076
	Heating		kW	0.038	0.038	0.038	0.072	0.072
Net. Weight			kg	18.5	20.3	22.0	28.3	31.8
Dimensions (W x H x D)			mm	786 x 218 x 657	786 x 218 x 657	786 x 218 x 657	1,113 x 218 x 657	1,113 x 218 x 657
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)
		Gas	mm (inch)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60

Specification (R32)

Model			Unit	PRHRZ020	PRHRZ030	PRHRZ040
Number of Branch			EA	2	3	4
Maximum Connectable Capacity of Indoor Units (Per branch / unit)			kW	17.5 / 35	17.5 / 52.5	17.5 / 67.4
Maximum Number of Connectable Indoor Units Per Branch			EA	8	8	8
Nominal Input	Cooling		kW	0.0492	0.0492	0.0492
	Heating		kW	0.0466	0.0466	0.0466
Net. Weight			kg	20.6	23.3	26.0
Dimensions (W x H x D)			mm	787 x 234 x 844	787 x 234 x 844	787 x 234 x 844
Piping Connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)	9.52 (3/8) - 6.35 (1/4)
		Gas	mm (inch)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)	15.88 (5/8) - 12.7 (1/2)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
		Low Pressure	mm (inch)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60

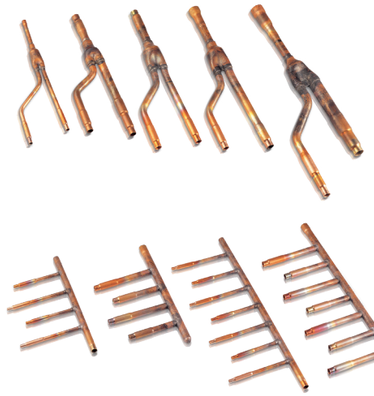
Reducers for Indoor Unit and HR Unit

(Unit : mm)

Model		Liquid	High Pressure	Low Pressure
Indoor unit reducer				
HR unit reducer	PRHR023 / PRHRZ020			
	PRHR033 / PRHRZ030 PRHR043 / PRHRZ040 PRHR063 PRHR083			

Y Branch and Header Branch

For refrigerant distribution of indoor units.



Model Name

Refer to specifications

Applied Products

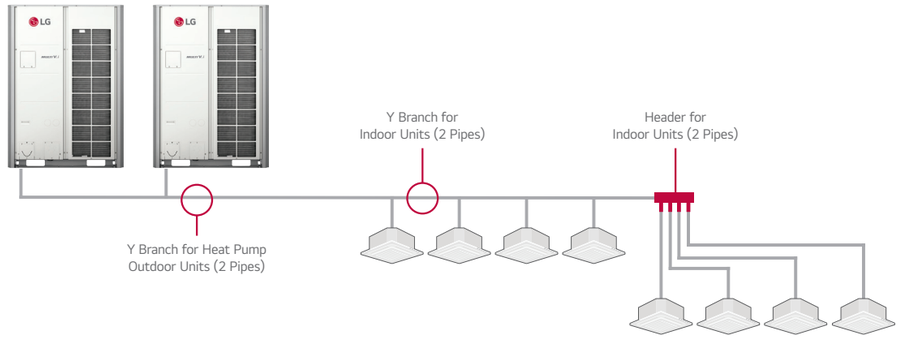
MULTI V *i*
MULTI V 5
MULTI V IV
MULTI V III, MULTI V PLUS II, MULTI V PLUS
MULTI V S
MULTI V WATER 5
MULTI V WATER IV
MULTI V WATER II
MULTI V WATER S

Key Features

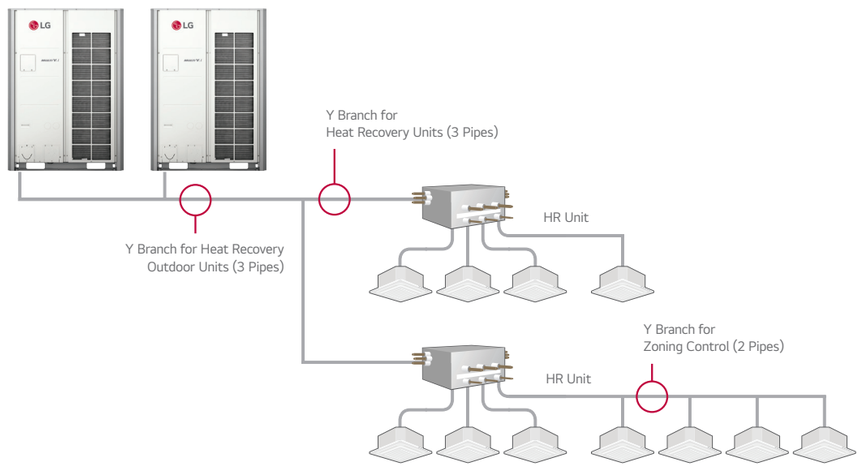
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Key Application

Heat Pump System



Heat Recovery System

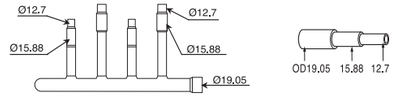
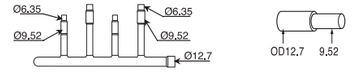
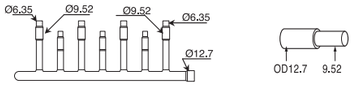
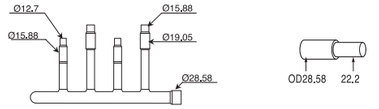
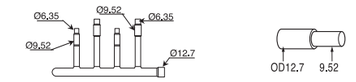
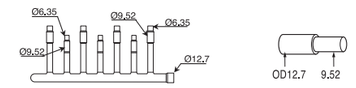
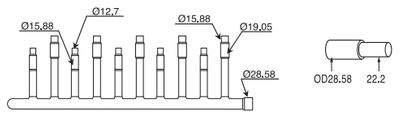
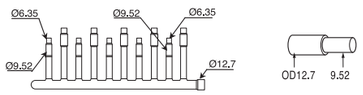
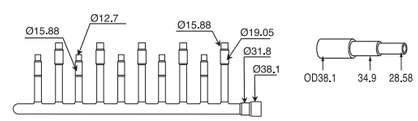
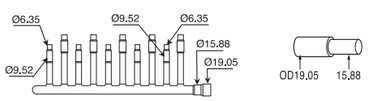


Specification

Header Branch

R410A

(Unit : mm)

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

Piping Accessories

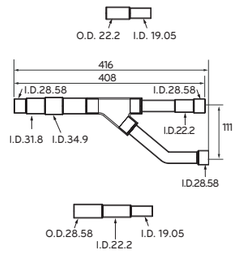
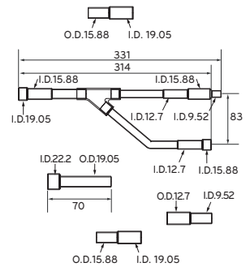
Y Branch pipe for the connection of outdoor units.

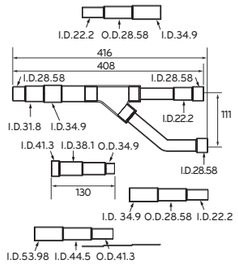
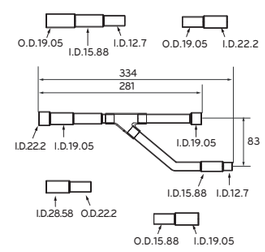
Specification

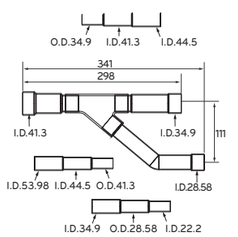
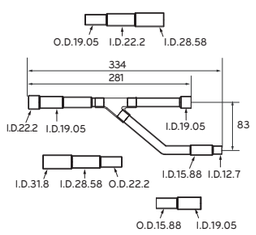
Heat Pump

R410A MULTI V ***i***, MULTI V 5, MULTI V IV, MULTI V III, MULTI V WATER 5, MULTI V WATER IV, MULTI V WATER II

(Unit : mm)

2 Outdoor Units		
Model	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN21		

3 Outdoor Units		
Model	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN31		

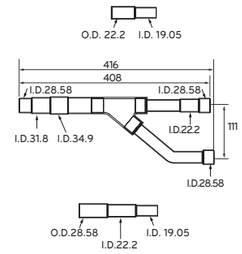
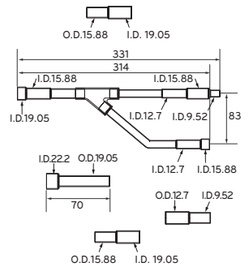
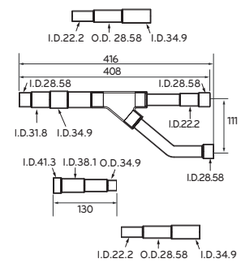
4 Outdoor Units		
Model	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN41		

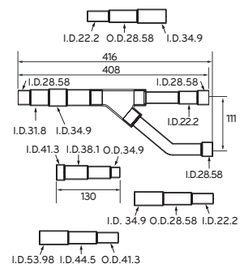
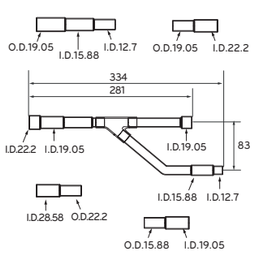
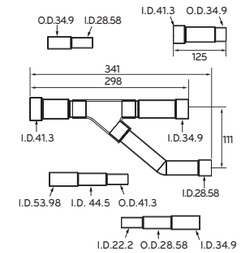
Specification

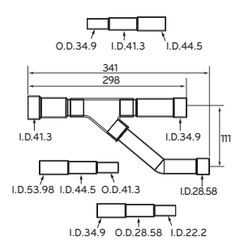
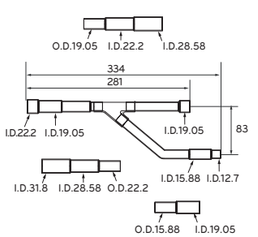
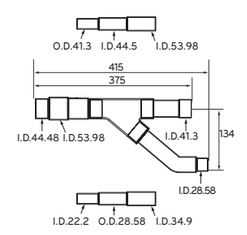
Heat Recovery

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

(Unit : mm)

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

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

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

Piping Accessories

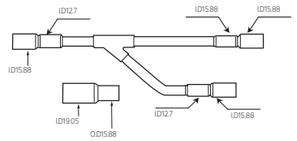
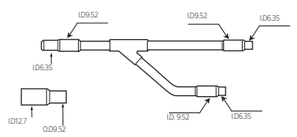
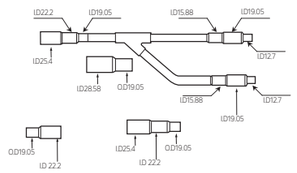
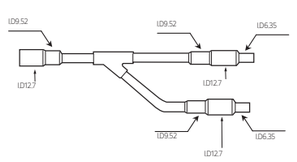
Y Branch pipe for the connection of outdoor units.

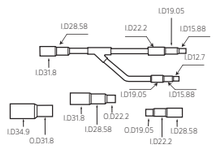
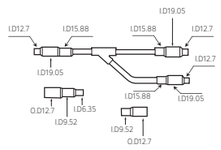
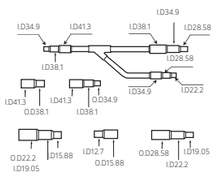
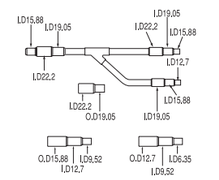
Specification

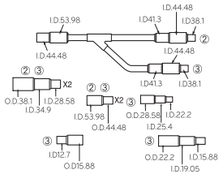
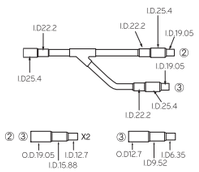
Heat Pump, Heat Recovery Zone Control

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

(Unit : mm)

Model	Gas Pipe	Liquid Pipe
ARBLN01621		
ARBLN03321		

Model	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		

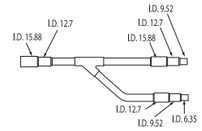
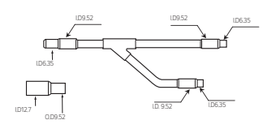
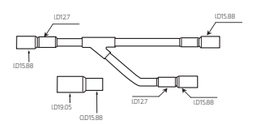
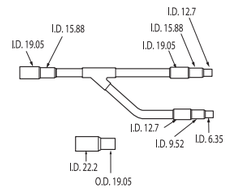
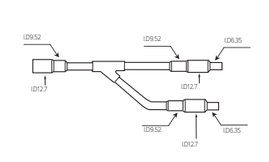
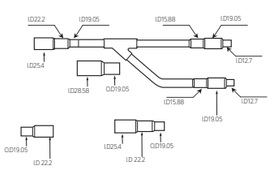
Model	Gas Pipe	Liquid Pipe
ARBLN23220		

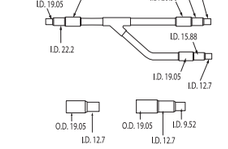
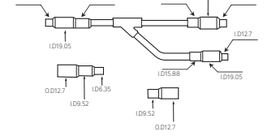
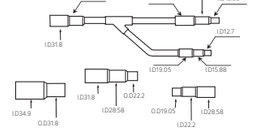
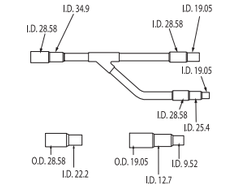
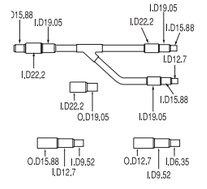
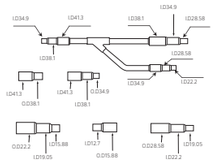
Specification

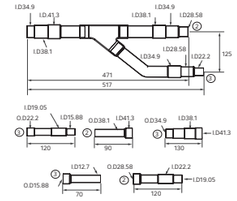
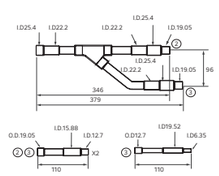
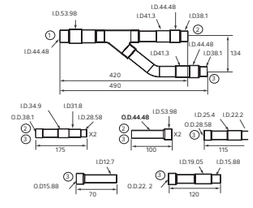
Heat Recovery

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

(Unit : mm)

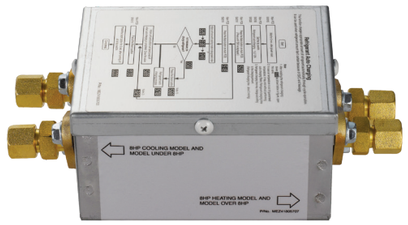
Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB01621			
ARBLB03321			

Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
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

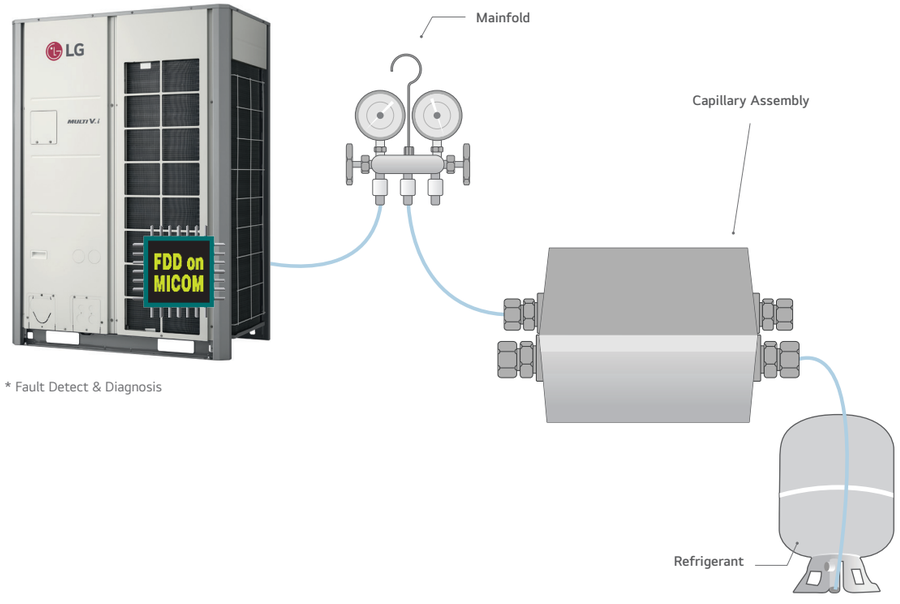
Applied Products

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

How to Use

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

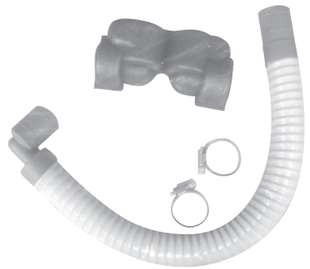
Key Application



* Fault Detect & Diagnosis

Drain Hose

Easy drain installation.



Model Name

PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

Applied Products

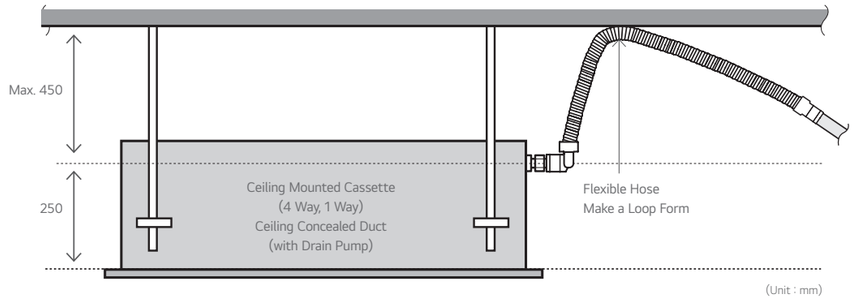
MULTI V Indoor units

Key Features

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

Key Application

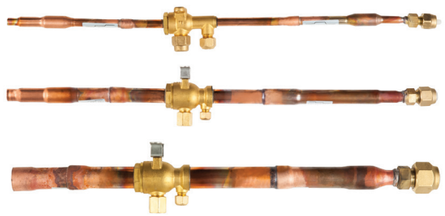
- Ceiling Mounted Cassette and Ceiling Concealed Duct. (Refer to PDB for applicable model)



Specification

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

Stopper Valves



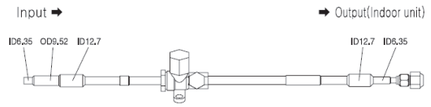
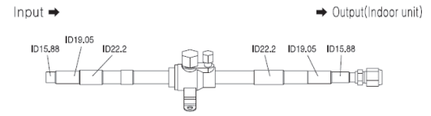
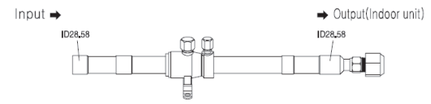
Model Name

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

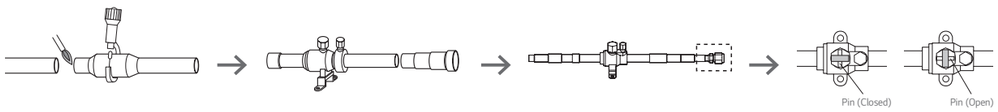
Key Features

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

Specification

Model	Specification
PRVT120	
PRVT780	
PRVT980	

How to Install

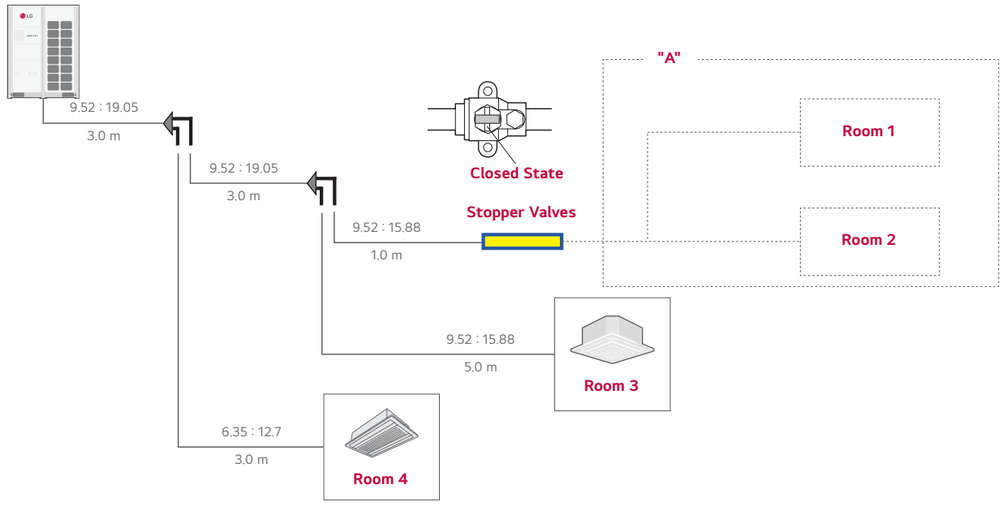


1. Cut the inlet side of the connector, and weld the pipe
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing an additional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

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

Application

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



- Refrigerant or oil may accumulate, if the pipe between the branch and stopper valves is long. Recommended distance within 1.0 m.

- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.

