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COMMERCIAL AIR SOLUTIONS

LG AIR SOLUTION



028

OUTDOOR UNITS

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(HEAT PLIMP / HEAT RECOVERY)	



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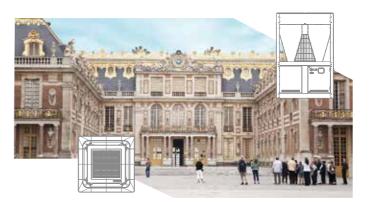




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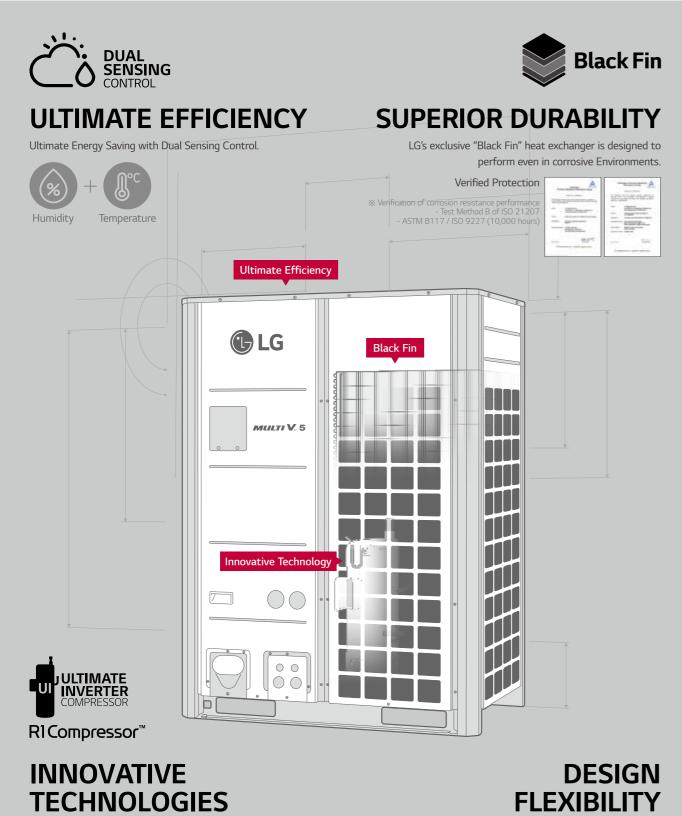
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ACCESSORIES

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HIGHLIGHTS OF MULTI V

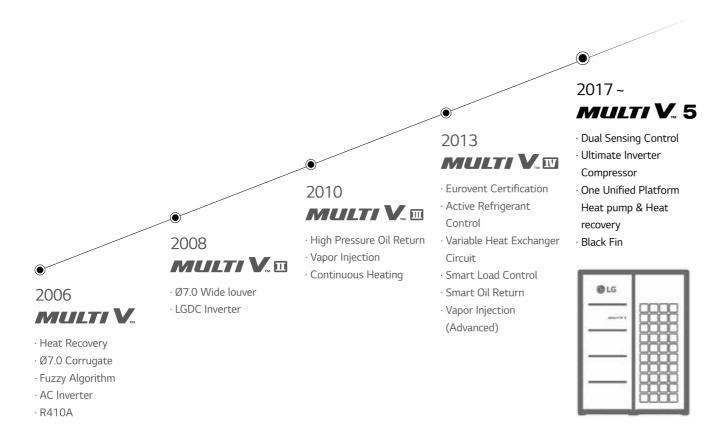


Ultimate Inverter Compressor - MULTI V 5 Revolutionary Scroll R1 Compressor - MULTI V S R32, MULTI V M

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



MULTI V BRAND HISTORY



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

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

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

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

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

INFRASTRUCTURE IN EUROPE



LG Air Conditioning Academy

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



European Air Conditioning Distribution Center

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

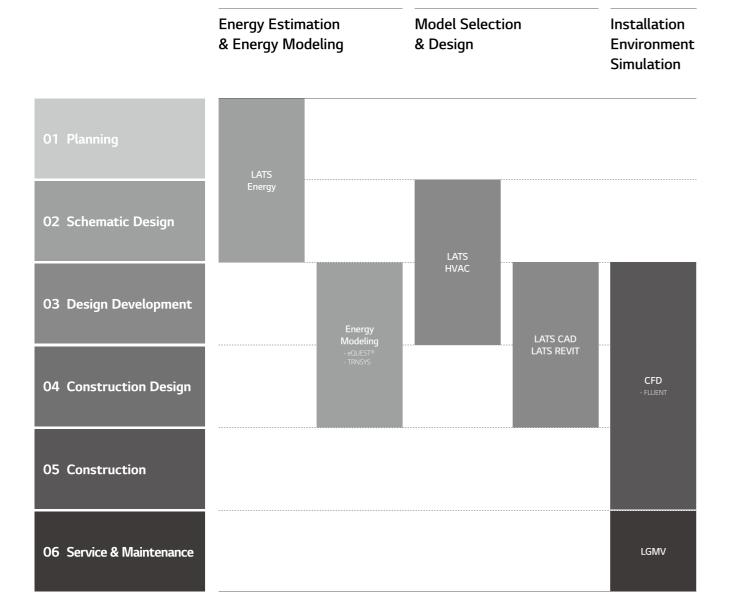


WHY LG MULTI V 008 I 009

ENGINEERING TOOLS & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes through many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution possible. Given the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout their lifecycle.

Dedicated to provide the best HVAC engineering support, LG Electronics Air Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers with a solution that allows for faster, easier and more accurate model selection, draft energy estimations and more.



01 Draft Energy Estimation

LATS Energy

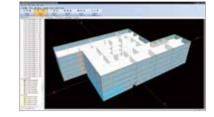
LATS Energy is a program developed by LG to estimate energy consumption and analyze the life cycle cost of LG commercial air conditioning systems during a project's early stages.



02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

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



03 Model Selection

LATS HVAC

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



04 Design

LATS CAD

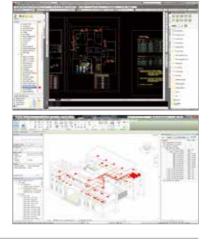
LATS CAD enables faster and more accurate 2D design of LG commercial air conditioning systems. It also enables modules for quotation and installation review that minimize inherent problems during installation and commissioning.

** AutoCAD program is required.**

LATS REVIT

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

* AutoCAD Revit program is required.



05 Environment Simulation

CFD Analysis

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



06 Service & Maintenance

IGN

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.



WHY LG MULTI V

^{*} LATS : LG Air-conditioner Technical Solution

BENEFITS OF LG MULTI V

Benefits for

Building Owners



Efficient Management & Cost Reduction

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



Reliability at Every Stage

- Ultimate Inverter Compressor developed and manufactured in Korea
- Corrosion resistant Black Fin for harsh conditions operation
- Smart Oil management (Auto Oil Balancing and Active Oil return) decreases compressor damage



Customized Comfort and Solution

- Compatible option between Heat pump and Heat recovery system is possible



Benefits for

Developers & Construction Companies



Green Solutions

- Optimized for LEED/BREEAM certification
- Renewable energy solution provided through geothermal application



Maximizing Space Utilization

- Large capacity in compact size enhances space utilization



Smart Building Solutions

- Seamless integration with current Building Management Systems
- Wi-Fi control available for anytime, anywhere access (via the 'ThinQ' mobile app)
- Energy management and control according to usage and planning is possible with LG's centralized control solution



Benefits for

Consultants



Versatile Solutions

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



Professional Design Support

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



Optimized Convenience with HVAC Design

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



Benefits for

End-users



Cost Saving Operation

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



Comfort Cooling & Heating

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



Convenient Functions

- Low-noise operation provides a pleasant environment





WHY LG MULTI V

APPLICATION SOLUTIONS

Office

Supporting efficiency with flexibility

High Rise Office Building



Small to Medium sized Office Building



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

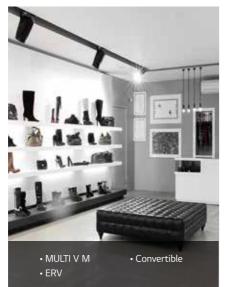
Commercial

Maximizing business, minimizing cost

Shopping Mall



Retail



Quick Service Restaurant (QSR)



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

Residential

Creating a comfortable home

Condominium & Apartments



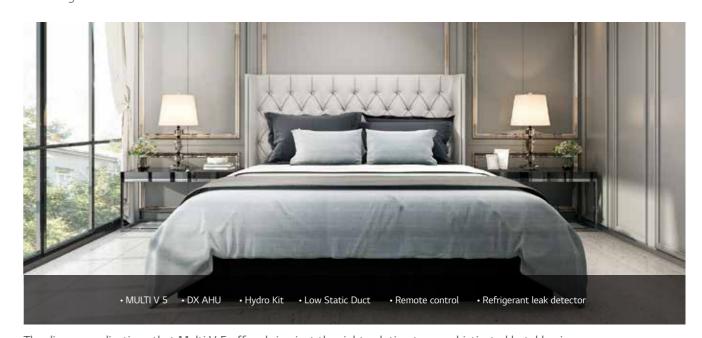
Single Family House & Villa



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

Hospitality

Meeting diverse needs



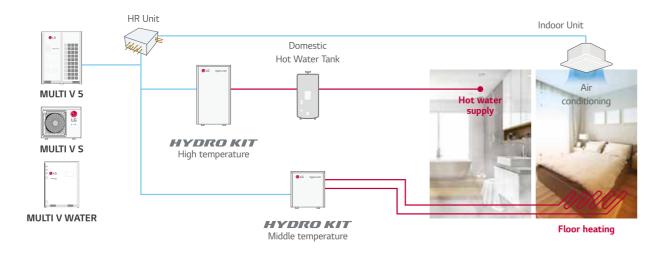
The diverse applications that Multi V 5 offers bring just the right solution to a sophisticated hotel business.

WHY LG MULTI V

^{*} ESS : Energy Storage System * PV : Photovoltaics

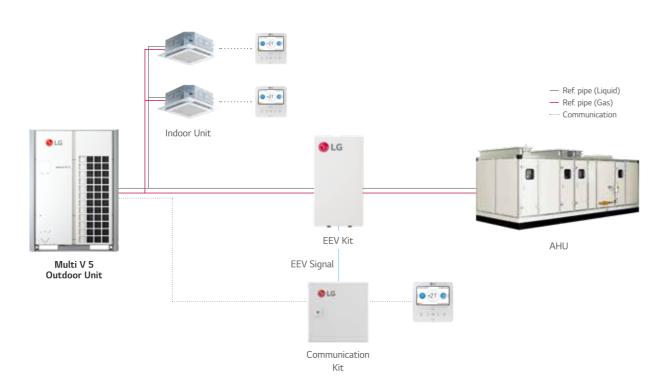
Hot Water Solution

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



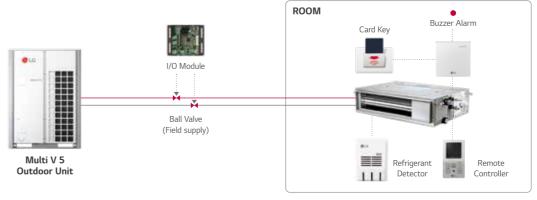
Air Handling Unit (AHU) Solution

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



Refrigerant Leak Detection Solution

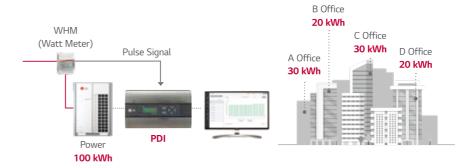
Real-time refrigerant leak detection ensures a safe environment. When refrigerant concentration exceeds 6,000ppm for 5 seconds, the indoor unit will stop operation and alert users with a buzzer or light switch (Dry contact option).



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

Power Consumption Distribution Solution

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



Total Control via Any Device

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



WHY LG MULTI V 016 I 017

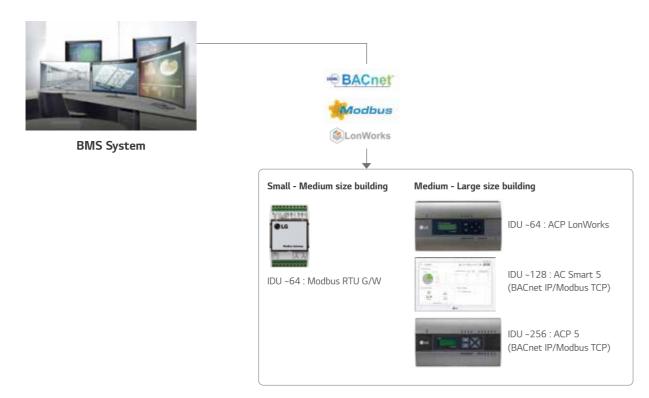
Energy Management Solution

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



Integration Solution with BMS

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



Interlocking Solution by Using ACU Module

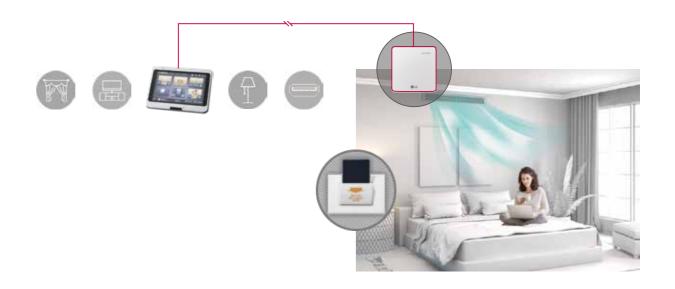
It is costly to introduce a BMS system to control multiple devices or systems in a small building. With the ACU module, various IO contact points (DI, DO, UI, AO) can be interlocked and integrated, while control is possible from the LG central controller. This enables an efficient management of lighting,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



Interlocking Solution Using Dry Contact

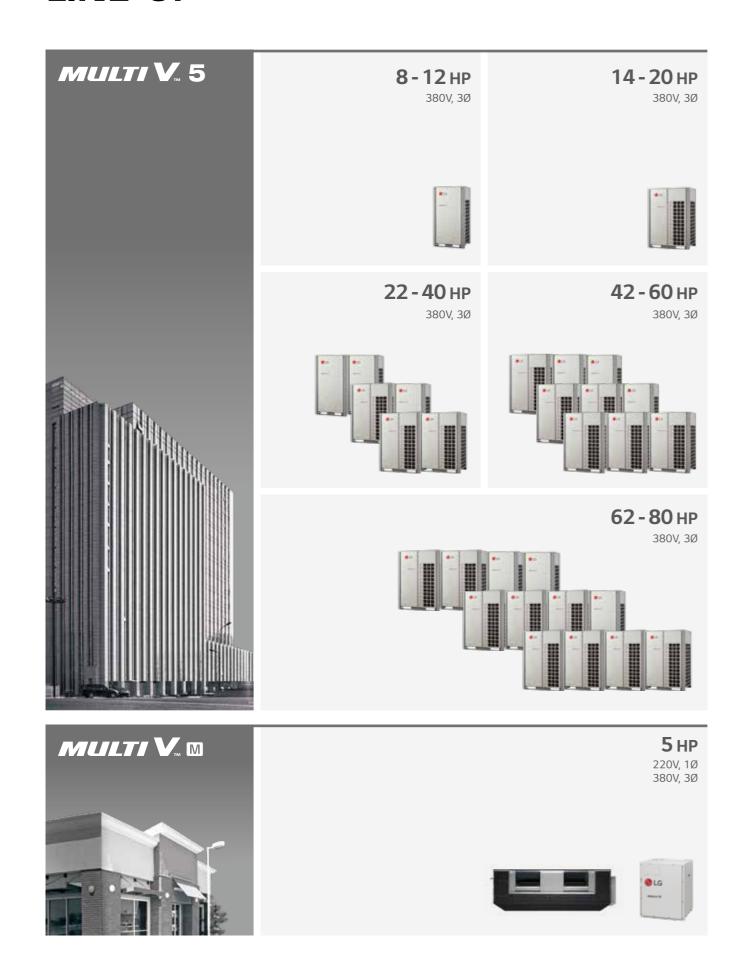
3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of air conditioners as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote control has a DO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

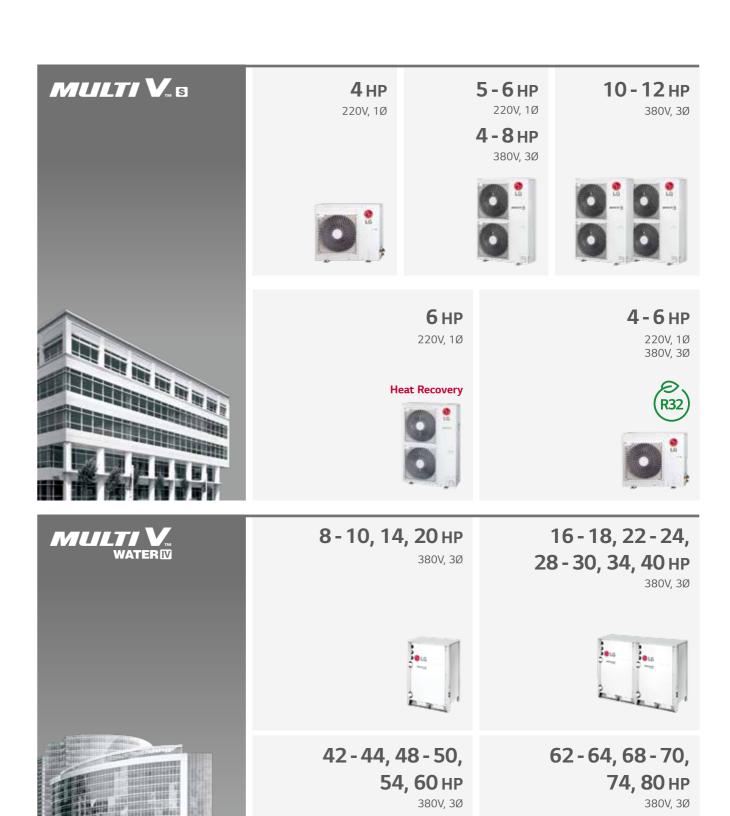
The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor etc. so that the air conditioner is automatically operated. In addition, the dry contact option settings enable operation of air conditioner to maintain proper temperature when the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



WHY LG MULTI V 018 I 019

OUTDOOR UNITS LINE-UP





Features	Appearance	4 5 6	8	10 12	2 14	16 1	8 20	22 24	26	28 3	32	34	36 38	40 4	12 44	46	48 5	0 52	54 5	56 58	60	62 6	4 66	68 7	0 72	74 76	6 78 80
• Dual Sensing Control			•	•																							
Large capacity ODU (Up to 20 HP) Continuous Heating Black Fin heat exchanger Heat pump / heat recovery					•	•	•																				
Flexible installation (Heat recovery unit & large capacity) Large space, Individual control building MALL P MALL								•	•	•	•	•	• •	•													
Shopping mall Education Airport															•	•	•	•	•	•	•						
																						•	•	•	•	•	
MULTI V _{tm} S	0	0																									
 Space saving Flexible design Slim, light, broad range (4 -12 HP) Large number of connectable 	0	• 0 0	•	• •																							
indoor units (Up to 20 Units) • Small, Medium building	HEAT RECOVERY	С																									
Apartment House & villa	(R32)	0 0 0																									
High flexibility of installation Various indoor unit combinations & long distance between modules Retail shop Office Cafe Restaurant		•																									
MULTI V WATER IV			•	•	•		•																				
HEAT PUMP / HEAT RECOVERY High efficiency systems Indoor installation Low noise operation (No fan) Simultaneous cooling & heating						•	•	•		•	•	•		•													
Individual control building, Large building															•		•	•	•		•						
Hospital Resort	the feet feet																					•	•	•	•	•	•

INDOOR UNITS LINE-UP

[%] If 4th generation indoor units are combined to 2th generation indoor units, several functions are not available.

More detailed information, refer to the "MULTI V Indoor units Compatibility Table"

LG HVAC CONTROL LINE-UP

	Individual Control			Centralized Contro	L
Wired Remo	te Controller	Wireless Remote	Display	Platform	Gateway
Standard	Simple	Controller	элэрхэу		Julianaj
Standard III (White)			AC Ez	ACP 5	ACP LonWorks
0 23 00		1000 1000 1000 1000			· CH
PREMTB100	PQRCVCL0QW	PWLSSB21H (Heat Pump) PWLSSB21C (Cooling Only)	PQCSZ250S0 (Indoor Unit ~ 32)	PACP5A000 (Indoor Unit ~ 256) BACnet IP / Modbus TCP	PLNVKB000 (Indoor Unit ~ 64)
Standard III (Black)		Wi-Fi Modem	AC Ez Touch	AC Manager 5	Modbus RTU gateway
000		T des	**************************************		•••
PREMTBB10	PQRCVCL0Q	For Indoor Unit PWFMDD200	PACEZA000 (Indoor Unit ~ 64)	PACM5A000 (Indoor Unit ~ 8,192)	PMBUSB00A (Indoor Unit ~ 64)
Standard II (White)			AC Smart 5		PI485
. 6.4					
PREMTB001	PQRCHCA0QW (Simple for Hotel)		PACS5A000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP		For Indoor Unit (ERV) PHNFP14A0
Standard II (Black)					
PREMTBB01	PQRCHCA0Q (Simple for Hotel)				For AWHP PP485A00T
Premium					
35) we a					
PREMTA000 PREMTA000A PREMTA000B					For Outdoor Unit (SINGLE / MULTI / THERMA V PMNFP14A1

Centralized Control		Integratio	on Device	
Facility Integrator	Indoo Dry Contact	r Unit Control Accessory	Outdoor Unit	AHU Kit
PDI (Power Distribution Indicator)		Group Control Wire	IO Module (Input / Output Module)	Communication Kit
. 1 20		9)		•1.0
Premium (8 ports) PQNUD1S40 Standard (2 ports) PPWRDB000	Simple Dry Contact PDRYCB000	PZCWRCG3	For MULTI V IV, 5 PVDSMN000	Return / Room Air Control PAHCMR000
ACS IO Module (Input / Output Module)		Remote Temperature Sensor	Variable Water Flow Control Kit	
- A)		•-	2	⊕us ≘l
РЕХРМВООО	Dry Contact for Thermostat PDRYCB320	PQRSTA0	For MULTI V WATER IV PWFCKN000	Discharge / Supply Air Control PAHCMS000
Chiller Option Kit		Zone Controller	Low Ambient Kit	Controller Module
PCHLLN000	2 Points Dry Contact (For Setback) PDRYCB400	4 Zones by thermostat ABZCA	For MULTI V IV, 5 PRVC2	Main Module PAHCMM000
ACU IO Module UIO		Multi-tenant Power Module	Cool / Heat Selector	
OF THE STATE OF TH				11
PEXPMB300	For Modbus PDRYCB500	PINPMB001	PRDSBM	Communication Module PAHCMC000
UO				Control Kit
Service Const.				
PEXPMB200				PAHCNM000 (Max. 3 Outdoor Units)
UI				Water Communication Module
Vigin (Base)				
PEXPMB100				PAHCMW000
		EE	V Kit (Electronic Expansion Val	ve)
		● 1.6		
		PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW)	PRLK396A0 (~ 112 kW)	PRLK594A0 (~ 168kW)



MULTI V_{IM} 5

Highlight

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





Reliability

Low noise

Advanced performance

LG

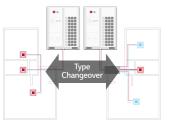
How does it work?





Dual Sensing

Partial Defrost



Interchangeable between heat pump and heat recovery



OUTDOOR UNITS

INNOVATIVE

шi

CHNOLOGIE

Dual Sensing Smart Load Control

(SLC)

Enhanced energy saving & increased indoor comfort

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

Smart Load Control monitors two inputs

1) Outdoor ambient dry bulb temperature 2) Relative humidity

What are the benefits?

Enhanced energy savings

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

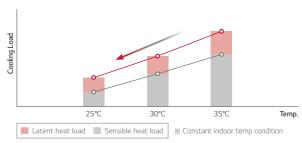
Heating Mode

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

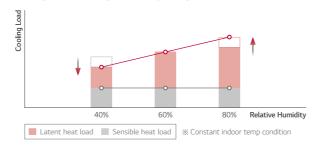
Increased indoor comfort

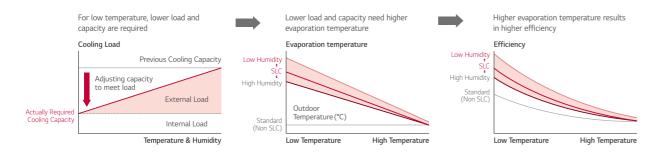
This function allows MULTI V 5 to maintain operation at mild cooling mode around the set temperature with adjusting compressor's speed by sensing both temperature and humidity.

Cooling load according to temperature change



Cooling load according to humidity change





Energy Savings with Dual Sensing Control

Temperature & Humidity

Energy Consumption in Cooling Season

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

Cooling Efficiency MULTI V 5 SLC MULTI V 5 Dual Sensing SLC

Outdoor air temperature

 $\fint \ref{eq:continuous}$ This energy simulation was performed in LG internally based on 16HP model.

Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

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

6% more eneray savina compared to SLC

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

MULTI V 5's comfort control algorithm monitors the outdoor air temperature and humidity conditions. When changing weather conditions are deteriorating and there is a high potential the indoor unit's load will remain stable or may increase, comfort cooling delays or abandons raising the target superheat as the room temperature approaches set-point. When changing weather conditions are favorable to raising target superheat, target superheat is moderated.

What are the benefits?

With comfort cooling turned on, the discharged air temperature is controlled. When the IDU controller reduces the fan speed, the potential for cold air falling on occupants located under the cassette IDU or supply air registers is reduced.

Enhanced operating efficiency

Raising superheat reduces refrigerant volume flowing through the coil.





Preventing cold draft & repeated turn On / Off

- - Previous Mode

Intelligent Defrost

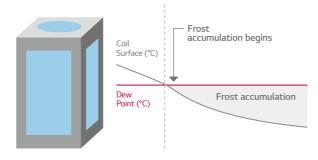
Increased heating run-hours

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

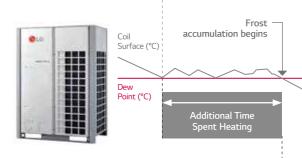
What are the benefits?

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

Conventional Defrost



LG Intelligent Defrost / Smart Heating



- Increased heating operation time per day: Up to 17%
 LG Internal Test result,
 Test condition (MULTI V 5 vs MULTI V IV, 16HP)

OUTDOOR UNITS KEY FEATURES 032 I 033

INNOVATIVE TE

CHNOLOGIE

HiPOR™

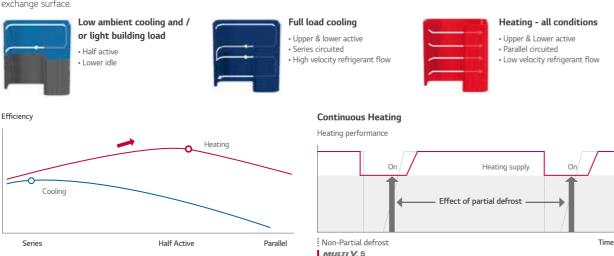
Optimized system efficiency & continuous heating

Variable Path Heat Exchanger

This split coil feature makes it possible for MULTI V 5 to provide continuous heating during defrost. The split coil and valve arrangement also makes it possible for the MULTI V 5 to change the flow path of refrigerant through one of the two coils only, or through both coils in either a series or a parallel arrangement.

What are the benefits?

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



Active Refrigerant Control

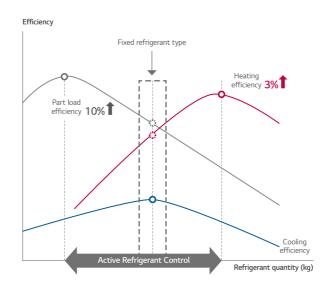
Stable operation & sustaining most efficient operation

MULTI V 5 active refrigerant control algorithm goal is to minimize the amount of refrigerant in circulation. The lower the volume in circulation, the lower the cost to move it around the system and the higher the stability of the refrigeration cycle.

What are the benefits?

Widens the ambient temperature range at which stable operation occurs. Sustains most efficient system operation regardless of outdoor weather conditions, operating mode, or building load.



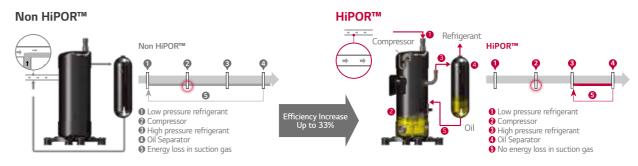


Advanced compressor reliability & efficiency

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

What are the benefits?

Maximizes reliability and efficiency of the compressor



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

Smart Oil Management

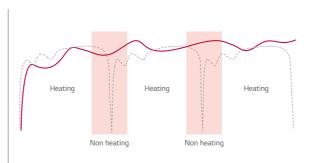
Energy saving, enhanced heating & increased compressor reliabilty

MULTI V 5 performs oil return when needed under normal operating conditions. An oil level sensor is provided in every LG VRF compressor. If the sensor indicates the compressor oil level is low, the main system processor is notified that an oil return cycle is necessary. LG's unique oil level measuring sensor actively monitors the oil level in each compressor.

What are the benefits?

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

Heating performance



Timed oil return logic (Non-oil Sensor)

MULTI V. 5

Increased heating operation time per day: Up to 12%

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

Smart Oil Return



Auto Oil Balancing



Oil Level Senso

OUTDOOR UNITS KEY FEATURES

INNOVATIVE

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CHNOLOGIE

Sub-cooling & Vapor Injection

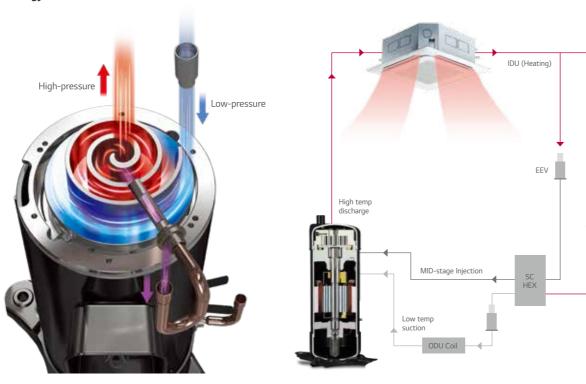
Increased heating performance

MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. In all cases, the vapor injection increases the compressors cycle efficiency and reduces operating cost.

What are the benefits?

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

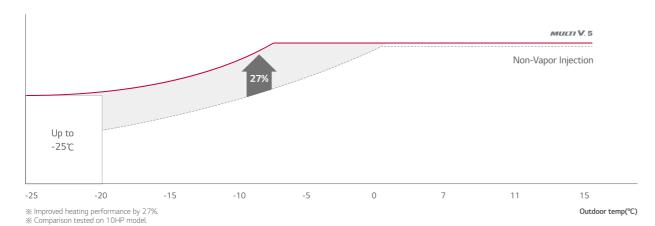
Technology Mechanism



Mid-pressure (Vapor injection port)

Performance Comparison

Heating performance



Corrosion Resistance Black Fin

Improved durability

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

What are the benefits?

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







Biomimetic Fan

Maximized performance

The biomimetic technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.

What are the benefits?

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



OUTDOOR UNITS KEY FEATURES 036 1 037

One Unified Model

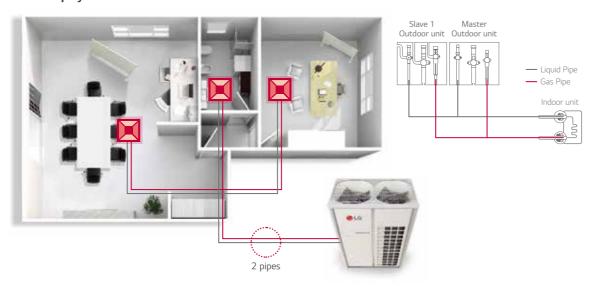
Heat pump / Heat recovery with one platform

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

What are the benefits?

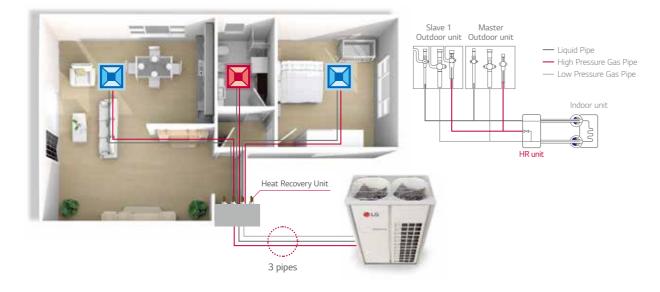
MULTI V 5 allows the building previously installed with Heat Pump system to switch to the Heat Recovery system (by adding HR boxes and a third pipe) for changing purpose of the building or remodeling reasons via simple piping construction.

Heat Pump System





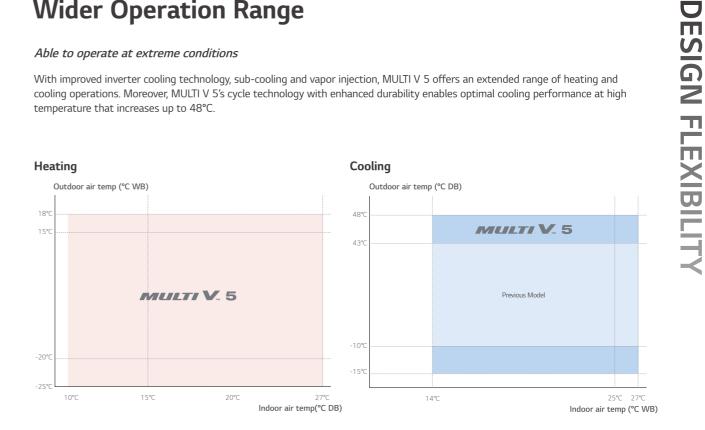
Heat Recovery System



Wider Operation Range

Able to operate at extreme conditions

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



OUTDOOR UNITS KEY FEATURES 038 | 039

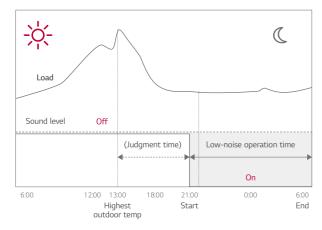
TECHNICAL

Low-Noise Operation

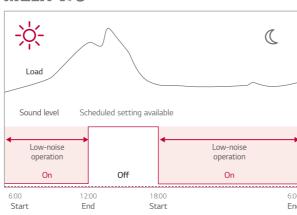
For noise sensitive environment

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

Previous Model



MULTI V. 5



Simple Test Run via LGMV

Increased overall efficiency in installation

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

Previous



MULTI V. 5



LGMV



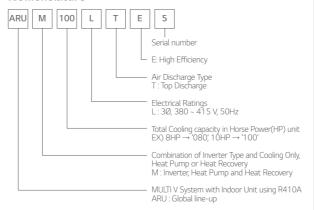




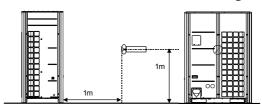


Installation Smart Management

Nomenclature



Position of Sound Pressure Level Measuring

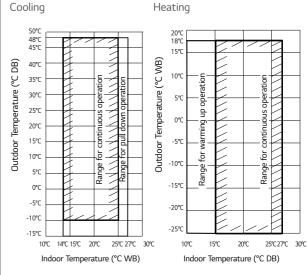


- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (Acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure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

Outdoor Units Function

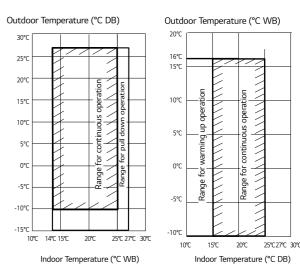
Category	Functions	MULTI V 5
	Variable Path of Outdoor Unit HEX	0
	HiPOR™ (High Pressure Oil Return)	0
Key Refrigerant Components	Humidity Sensor	0
Components	Corrosion Resistance Black Fin	0
	Oil Sensor	0
	Dual Sensing	0
	Low Noise Operation	0
	Hgih Static Mode of Outdoor Unit Fan	0
	Partial Defrosting	0
Useful Function	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	0
	Indoor Cooling Comfort Mode Based Outdoor Temperature	0
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	0
	Outdoor Unit Control Refer to Humidity	0
	Defrost / Deicing	0
	High Pressure Switch	0
	Phase Protection	0
Reliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	0
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
Installation	Refrigerant Charging Kit	PRAC1
PDI (Power	Standard	PPWRDB000
Distribution Indicator)	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Low Ambient Kit		PRVC2
IO Module (ODU Dry 0	Contact)	PVDSMN000
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100

Cooling / Heating Operation



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

Simultaneous Cooling / Heating Operation



- I. 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

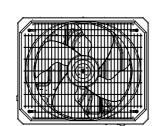
OUTDOOR UNITS KEY FEATURES OUTDOOR UNITS TECHNICAL DATA 040 I 041

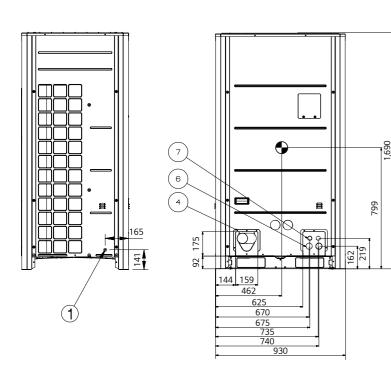
[Unit:mm]

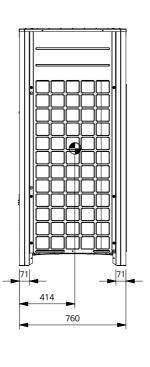
Leakage test hole (Side) Wire routing hole (Bottom) 2-Ø22.2 3 Power cord routing hole (Bottom) 2-Ø50 4 Pipe routing hole (Front) 5 Pipe routing hole (Bottom) 2-Ø66, Ø53.88 2-Ø45 6 Power cord routing hole (Front) 7 Wire routing hole (Front) 2-Ø30

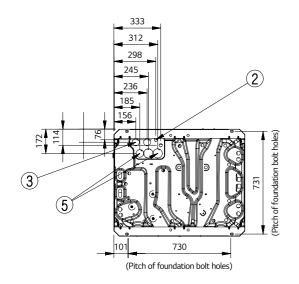
		[Unit : mr
No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Bottom)	2-Ø22.2
3	Power cord routing hole (Bottom)	2-Ø50
4	Pipe routing hole (Front)	-
5	Pipe routing hole (Bottom)	2-Ø66, Ø53.88
6	Power cord routing hole (Front)	2-Ø45
7	Wire routing hole (Front)	2-Ø30



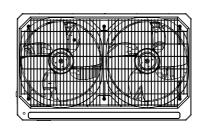


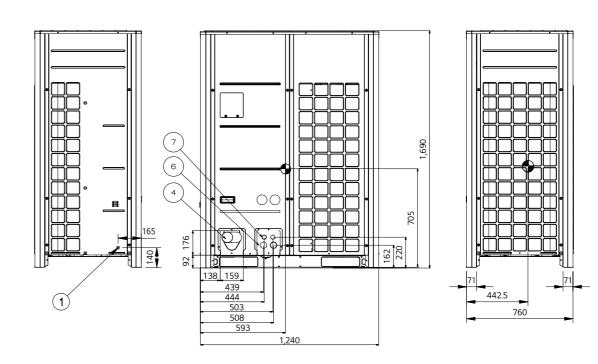


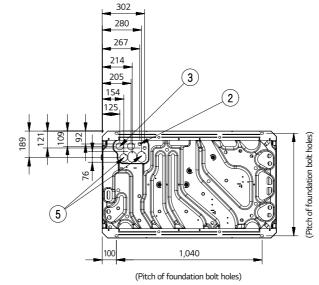








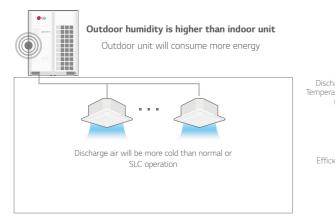




MULTI V 5 Q&A

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

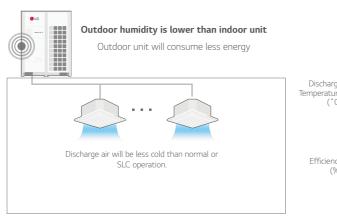
A1 During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode. · When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but would have higher efficiency as compared to normal operation.



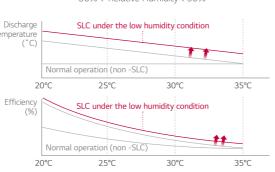
Evaporation temperature & efficiency Dual Sensing SLC (RH 70%↑) Relative Humidity > 70% SLC under the high humidity condition

SLC under the high humidity condition Normal operation (non -SLC) 20°C 25°C 30°C 35°C

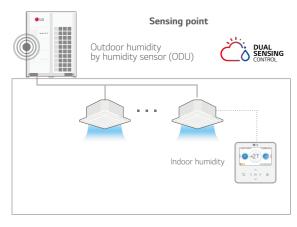
- When the humidity of outdoor side is lower than that of indoor side, outdoor unit will rise target pressure to save energy and keep comfort, but indoor humidity will be less removed compared to normal operation.







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



SLC Setting

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



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

Function 🗇	Back 🖹 🗷
Comfort Cooling	(Dut)
ODU Refrigerant Noise Reduction	(Step 8 2
Defrost Mode	< 1m1 5
Smart Load Control	(88)

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

Q2 What is the principle and accuracy of humidity sensor?

A 7 Total Tolerance (%) = Sensor measurement tolerance (%) + Location of sensor tolerance

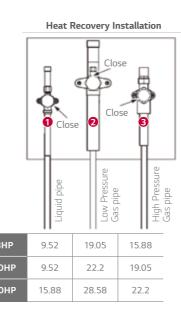
The capacitive measurement principle established and proved itself as a standard in the past. For this principle, the sensor element is built out of a capacitor. The dielectric is a polymer which absorbs or releases water proportional to the relative environmental humidity, and thus changes the capacitance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

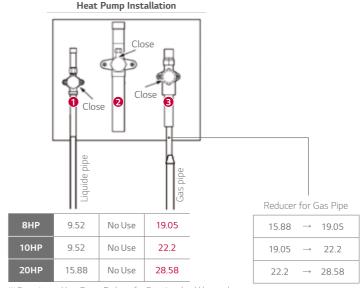
nce (%)	1	Upper electrode This film paleman.
		Thin-film polymerLower electrodeGlass substrate
0		

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

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

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





 $\ensuremath{\mathbb{X}}$ For using as Heat Pump, Reducer for Gas pipe should be used. Reducer is included in outdoor unit.

OUTDOOR UNITS Q&A 044 I 045

Other Questions

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

OUTDOOR UNITS Q&A



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

	НР		8	10	12	14
	Combination Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
Model Name	Independent Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
	Cooling (Rated)	kW	22.4	28.0	33.6	39.2
Capacity	Heating (Rated)	kW	22.4	28.0	33.6	39.2
, ,	Heating (Max)	kW	25.2	31.5	37.8	44.1
	Cooling (Rated)	kW	7.02	9.30	12.00	12.98
Input	Heating (Rated)	kW	5.63	6.45	8.00	8.85
EER	-		3.19	3.01	2.80	3.02
SEER			7.90	7.80	7.71	8.22
COP	Rated Capacity		3.98	4.34	4.20	4.43
SCOP			4.36	4.39	4.84	4.97
Exterior	Color		Morning Gray / Dawn Gray			
	RAL Code		RAL 7030 / RAL 7037			
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 × 1	5,300 × 1	5,300 × 1	5,300 × 1
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	СС	3,900	3,900	3,900	3,900
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan
F	Motor Output x Number	W x No.	1,200 × 1	1,200 × 1	1,200 × 1	900 × 2
Fan	Air Flow Rate (High)	m³/min x No.	240 × 1	240 × 1	240 × 1	320 × 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
D'	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
for Heat	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Recovery Pipe	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
Connections	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
for Heat Pump	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Dimensions (W)	x H x D)	mm x No.	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1
Dimensions (W)	к H x D) - Shipping	mm x No.	(960 × 1,825 × 796) × 1	(960 × 1,825 × 796) × 1	(960 × 1,825 × 796) × 1	(1,280 × 1,825 × 796) × 1
Net Weight		kg x No.	198 × 1	215 × 1	215 × 1	237 × 1
Shipping Weight		kg x No.	208 × 1	225 × 1	225 × 1	250 × 1
Sound Pressure	Cooling	dB(A)	58.0	58.0	59.0	60.0
Level	Heating	dB(A)	59.0	59.0	60.0	61.0
Sound	Cooling	dB(A)	79.0	80.0	81.0	82.0
Power Level	Heating	dB(A)	79.0	80.0	83.0	82.0
Communication		mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5			
	Refrigerant Name Precharged Amount		R410A	R410A	R410A	R410A
Dofrigor	in Factory	kg	7.5	9.5	9.5	13.5
Refrigerant	t-CO ₂ eq		15.656	19.831	19.831	28.181
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maxi	mum Connectable Indoor	r Units 1)	13 (20)	16 (25)	20 (30)	23 (35)

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

ARUM160LTE5 / ARUM180LTE5 ARUM200LTE5 / ARUM221LTE5







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	HP		16	18	20	22
	Combination Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM221LTE5
Model Name	Independent Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM120LTE5 ARUM100LTE5
	Cooling (Rated)	kW	44.8	50.4	56.0	61.6
Capacity	Heating (Rated)	kW	44.8	50.4	56.0	61.6
	Heating (Max)	kW	50.4	56.7	63.0	69.3
nput	Cooling (Rated)	kW	17.23	14.82	18.06	21.30
прис	Heating (Rated)	kW	10.59	10.91	13.02	14.45
EER			2.60	3.40	3.10	2.89
SEER			7.74	8.50	8.17	7.76
COP	Rated Capacity		4.23	4.62	4.30	4.26
COP			5.30	4.67	4.98	4.61
Exterior	Color		Morning Gray / Dawn Gray			
	RAL Code		RAL 7030 / RAL 7037			
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 × 1	(5,300 × 1) + (4,200 × 1)	(5,300 × 1) + (4,200 × 1)	5,300 × 2
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	СС	3,900	5,200	5,200	7,800
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 × 2	900 × 2	900 × 2	(1200 × 1) + (1,200 × 1)
an	Air Flow Rate (High)	m³/min x No.	320 × 1	320 × 1	320 × 1	$(240 \times 1) + (240 \times 1)$
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
or Heat Recovery	High Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Pipe	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
or Heat Pump Dimensions (W	·	mm x No.		(1,240 × 1,690 × 760) × 1	, ,	((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W	x H x D) - Shipping	mm x No.	(1,280 × 1,825 × 796) × 1	(1,280 × 1,825 × 796) × 1	(1,280 × 1,825 × 796) × 1	((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	237 × 1	300 × 1	300 × 1	(215 × 1) + (215 × 1)
Shipping Weight		kg x No.	250 × 1	312 × 1	312 × 1	(225 × 1) + (225 × 1)
Sound Pressure	Cooling	dB(A)	60.5	61.0	62.0	61.5
evel	Heating	dB(A)	61.5	62.0	64.5	63.0
Sound	Cooling	dB(A)	86.0	87.0	87.0	84.0
Power Level	Heating	dB(A)	86.0	87.0	90.0	85.0
Communication	Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5			
	Refrigerant Name		R410A	R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	13.5	16.0	16.0	19.0
terrigerant	t-CO ₂ eq		28.181	33.400	33.400	39.663
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/6
Number of Maxi	mum Connectable Indoor	Units 1)	26 (40)	29 (45)	32 (50)	35 (44)

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.

ARUM241LTE5 / ARUM261LTE5 ARUM280LTE5 / ARUM300LTE5

ARUM320LTE5 / ARUM340LTE5 ARUM360LTE5 / ARUM380LTE5



	HP		24	26	28	30
	Combination Unit		ARUM241LTE5	ARUM261LTE5	ARUM280LTE5	ARUM300LTE5
Model Name	Independent Unit		ARUM120LTE5 ARUM120LTE5	ARUM140LTE5 ARUM120LTE5	ARUM160LTE5 ARUM120LTE5	ARUM180LTE5 ARUM120LTE5
	Cooling (Rated)	kW	67.2	72.8	78.4	84.0
Capacity	Heating (Rated)	kW	67.2	72.8	78.4	84.0
	Heating (Max)	kW	75.6	81.9	88.2	94.5
	Cooling (Rated)	kW	24.00	24.98	24.23	26.82
Input	Heating (Rated)	kW	16.00	16.85	18.59	18.91
EER			2.80	2.91	2.68	3.13
SEER			7.71	7.97	7.72	8.16
COP	Rated Capacity		4.20	4.32	4.22	4.44
SCOP			4.84	4.91	5.08	4.73
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 × 2	5,300 × 2	5,300 × 2	(5,300 × 2) + (4,200 × 1)
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	СС	7,800	7,800	7,800	9,100
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan
_	Motor Output x Number	W x No.	(1,200 × 1) + (1,200 × 1)	$(900 \times 2) + (1,200 \times 1)$	$(900 \times 2) + (1,200 \times 1)$	(900 × 2) + (1,200 × 1)
Fan	Air Flow Rate (High)	m³/min x No.	$(240 \times 1) + (240 \times 1)$	$(320 \times 1) + (240 \times 1)$	$(320 \times 1) + (240 \times 1)$	$(320 \times 1) + (240 \times 1)$
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
for Heat Recovery	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Pipe	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
for Heat Pump Dimensions (W)	·	mm x No.	((930 × 1,690 × 760) × 1) + ((930 × 1,690 ×	((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 ×	((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 ×	((1,240 × 1,690 × 760 × 1) + ((930 × 1,690 ×
Dimensions (W)	x H x D) - Shipping	mm x No.		760) × 1) ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 ×		
·	Simpping		796) × 1)	796) × 1)	796) × 1)	796) × 1)
Net Weight		kg x No.		$(237 \times 1) + (215 \times 1)$		
Shipping Weight		kg x No.	62.0	(250 × 1) + (225 × 1)		
Sound Pressure Level		dB(A)	62.0	63.0 64.0	63.0 64.0	63.0 64.0
	Heating	dB(A)		85.0	87.0	
Sound Power Level	Cooling	dB(A) dB(A)	84.0 86.0	85.0	87.0	88.0 88.0
	Heating	mm ² x No.				
Communication	Cable Refrigerant Name	(VCTF-SB)	2C × 1.0 ~ 1.5 R410A	2C × 1.0 ~ 1.5 R410A	2C × 1.0 ~ 1.5 R410A	2C × 1.0 ~ 1.5 R410A
	Precharged Amount					
Pofrigorant	in Factory	kg	19.0	23.0	23.0	25.5
Refrigerant	t-CO ₂ eq		39.663	48.013	48.013	53.231
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Mavi	mum Connectable Indoor	Units 1)	39 (48)	42 (52)	45 (56)	49 (60)

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



	LID		33	34	26	20
	HP		32	34	36	38
Madal Nama	Combination Unit		ARUM320LTE5	ARUM340LTE5	ARUM360LTE5	ARUM380LTE5
Model Name	Independent Unit		ARUM200LTE5 ARUM120LTE5	ARUM200LTE5 ARUM140LTE5	ARUM200LTE5 ARUM160LTE5	ARUM200LTE5 ARUM180LTE5
	Cooling (Rated)	kW	89.6	95.2	100.8	106.4
Capacity	Heating (Rated)	kW	89.6	95.2	100.8	106.4
	Heating (Max)	kW	100.8	107.1	113.4	119.7
Innut	Cooling (Rated)	kW	30.06	31.04	35.29	32.88
Input	Heating (Rated)	kW	21.02	21.87	23.61	23.92
EER			2.98	3.07	2.86	3.24
SEER			7.98	8.19	7.97	8.32
COP	Rated Capacity		4.26	4.35	4.27	4.45
SCOP			4.93	4.98	5.11	4.83
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 703
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	(5,300 × 2) + (4,200 × 1)	(5,300 × 2) + (4,200 × 1)	(5,300 × 2) + (4,200 × 1)	(5,300 × 2) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D	FW68D
	Oil Charge	СС	9,100	9,100	9,100	10,400
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 2) + (1,200 × 1)	900 × 4	900 × 4	900 × 4
Fan	Air Flow Rate (High)	m³/min x No.	$(320 \times 1) + (240 \times 1)$	320 × 2	320 × 2	320 × 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
for Heat	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Recovery Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	· · · ·					
for Heat Pump	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W	x H x D)	mm x No.		((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)		
Dimensions (W	x H x D) - Shipping	mm x No.		((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)		
Net Weight		kg x No.	$(300 \times 1) + (215 \times 1)$	$(300 \times 1) + (237 \times 1)$	$(300 \times 1) + (237 \times 1)$	(300 × 1) + (300 ×
Shipping Weight		kg x No.	(312 × 1) + (225 × 1)	$(312 \times 1) + (250 \times 1)$	$(312 \times 1) + (250 \times 1)$	(312 × 1) + (312 ×
Sound Pressure		dB(A)	64.0	64.0	64.0	65.0
Level	Heating	dB(A)	66.0	64.0	66.0	66.0
Sound	Cooling	dB(A)	88.0	88.0	90.0	90.0
Power Level	Heating	dB(A)	91.0	91.0	91.0	92.0
Communication	Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	25.5	29.5	29.5	32.0
Refrigerant	t-CO ₂ eq		53.231	61.581	61.581	66.800
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansio Valve
Power Supply		Ø, V, Hz		380-400-415, 3, 50/60		
	mum Connectable Indoor	· I Inite 1)	52 (64)	55 (64)	58 (64)	61 (64)

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

OUTDOOR UNITS SPECIFICATIONS 050 I 051

ARUM460LTE5 / ARUM480LTE5 ARUM500LTE5

ARUM400LTE5 / ARUM420LTE5 ARUM440LTE5



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

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



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

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

OUTDOOR UNITS SPECIFICATIONS 052 | 053

ARUM520LTE5 / ARUM540LTE5 ARUM560LTE5

ARUM580LTE5 / ARUM600LTE5 ARUM620LTE5





	HP		58	60	62
	Combination Unit		ARUM580LTE5	ARUM600LTE5	ARUM620LTE5
Model Name	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM180LTE5	ARUM200LTE5 ARUM200LTE5 ARUM200LTE5	ARUM200LTE5 ARUM180LTE5 ARUM120LTE5 ARUM120LTE5
	Cooling (Rated)	kW	162.4	168.0	173.6
Capacity	Heating (Rated)	kW	162.4	168.0	173.6
	Heating (Max)	kW	182.7	189.0	195.3
	Cooling (Rated)	kW	50.94	54.18	56.90
Input	Heating (Rated)	kW	36.95	39.06	39.93
EER			3.19	3.10	3.05
SEER			8.27	8.17	8.07
COP	Rated Capacity		4.40	4.30	4.35
SCOP			4.88	4.98	4.83
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gra
Exterior	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
c.iu.igei	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination x No.		(Inverter) x 6	(Inverter) x 6	(Inverter) x 6
Compressor	Motor Output x	M v No	, ,	, ,	(5.300 × 4) + (4.200 × 2
Compressor	Number	W x No.	(5,300 × 3) + (4,200 × 3)	(5,300 × 3) + (4,200 × 3)	, , , ,
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	СС	15,600	15,600	18,200
	Туре		Propeller fan	Propeller fan	Propeller fan
_	Motor Output x Number	W x No.	900 × 6	900 × 6	(900 × 4) + (1,200 × 2)
Fan	Air Flow Rate (High)	$m^3/min \times No.$	320 × 3	320 × 3	$(320 \times 2) + (240 \times 2)$
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
Connections for Heat	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Recovery	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
Connections for Heat Pump	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W >	кНхD)	mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1 ((1,240 × 1,690 × 760) × 1 ((930 × 1,690 × 760) × 1 ((930 × 1,690 × 760) × 1
Dimensions (W)	x H x D) - Shipping	mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1 ((1,280 × 1,825 × 796) × 1 ((960 × 1,825 × 796) × 1) ((960 × 1,825 × 796) × 1
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (300 × 1)	(300 × 1) + (300 × 1) + (215 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (225 × 1) + (225 × 1)
Sound Pressure	Cooling	dB(A)	66.0	67.0	66.0
Level	Heating	dB(A)	69.0	69.0	68.0
Sound	Cooling	dB(A)	92.0	92.0	91.0
Power Level	Heating	dB(A)	94.0	95.0	93.0
Communication	Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refrigerant Name	(4611-30)	R410A	R410A	R410A
D. C.:	Precharged Amount	kg	48.0	48.0	51.0
Refrigerant	in Factory t-CO ₂ eq	_	100.200	100.200	106.463
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valv
Power Supply	Control	Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
I DANCI DUDDIA		D, V, 11Z	300-400-413, 3, 30/00	300-400-413, 3, 30/00	300-400-413, 3, 30/00

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%.



	HP		52	54	56
	Combination Unit		ARUM520LTE5	ARUM540LTE5	ARUM560LTE5
Model Name	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM140LTE5	ARUM200LTE5 ARUM200LTE5 ARUM160LTE5
	Cooling (Rated)	kW	145.6	151.2	156.8
Capacity	Heating (Rated)	kW	145.6	151.2	156.8
	Heating (Max)	kW	163.8	170.1	176.4
	Cooling (Rated)	kW	48.12	49.10	53.35
nput	Heating (Rated)	kW	34.04	34.89	36.63
EER			3.03	3.08	2.94
SEER			8.05	7.79	7.67
COP	Rated Capacity		4.28	4.33	4.28
SCOP			4.95	4.98	5.06
	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Exterior	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 5	(Inverter) x 5	(Inverter) x 5
Compressor	Motor Output x	W x No.	$(5,300 \times 3) + (4,200 \times 2)$	$(5,300 \times 3) + (4,200 \times 2)$	$(5,300 \times 3) + (4,200 \times 2)$
·	Number Oil Type		FW68D	FW68D	FW68D
	Oil Charge	СС	14,300	14,300	14,300
	Type	cc	Propeller fan	Propeller fan	Propeller fan
	Motor Output x		·		
_	Number	W x No.	(900 × 4) + (1,200 × 1)	900 × 6	900 × 6
Fan	Air Flow Rate (High)	m³/min x No.	$(320 \times 2) + (240 \times 1)$	320 × 3	320 × 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections for Heat	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Recovery	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
for Heat Pump Dimensions (W		mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) ((1,240 × 1,690 × 760) × 1) ((1,240 × 1,690 × 760) × 1
Dimensions (W	x H x D) - Shipping	mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) ((1,280 × 1,825 × 796) × 1) ((1,280 × 1,825 × 796) × 1
Net Weight		kg x No.	(300 × 1) + (300 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (237 × 1)	(300 × 1) + (300 × 1) + (237 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1)	(312 × 1) + (312 × 1) + (250 × 1)
Sound Pressure	Cooling	dB(A)	66.0	66.0	66.0
Level	Heating	dB(A)	68.0	67.0	68.0
Sound	Cooling	dB(A)	91.0	91.0	91.0
Power Level	Heating	dB(A)	93.0	93.0	94.0
Communication	Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	41.5	45.5	45.5
-	t-CO₂eq		86.631	94.981	94.981
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Mavi	imum Connectable Indoor	Units 1)	64	64	64

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

OUTDOOR UNITS SPECIFICATIONS 054 I 055





	НР		64	66	68
	Combination Unit		ARUM640LTE5	ARUM660LTE5	ARUM680LTE5
Model Name	Independent Unit		ARUM200LTE5 ARUM200LTE5 ARUM120LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM140LTE5 ARUM120LTE5	ARUM200LTE5 ARUM200LTE5 ARUM160LTE5 ARUM120LTE5
	Cooling (Rated)	kW	179.2	184.8	190.4
Capacity	Heating (Rated)	kW	179.2	184.8	190.4
	Heating (Max)	kW	201.6	207.9	214.2
lament.	Cooling (Rated)	kW	60.12	61.10	65.35
Input	Heating (Rated)	kW	42.04	42.89	44.63
EER			2.98	3.02	2.91
SEER			7.98	7.78	7.63
COP	Rated Capacity		4.26	4.31	4.27
SCOP			4.93	4.95	5.02
Exterior	Color RAL Code		Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
,	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 6	(Inverter) x 6	(Inverter) x 6
Compressor	Motor Output x Number	W x No.	(5,300 × 4) + (4,200 × 2)	(5,300 × 4) + (4,200 × 2)	(5,300 × 4) + (4,200 × 2)
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	СС	18,200	18,200	18,200
	Туре		Propeller fan	Propeller fan	Propeller fan
Ean	Motor Output x Number	W x No.	(900 × 4) + (1,200 × 2)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)
Fan	Air Flow Rate (High)	m³/min x No.	$(320 \times 2) + (240 \times 2)$	(320 × 3) + (240 × 1)	$(320 \times 3) + (240 \times 1)$
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
-	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
for Heat	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Recovery	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Pipe	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connections for Heat Pump	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W	x H x D)	mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((930 × 1,690 × 760) × 1)
Dimensions (W	x H x D) - Shipping	mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((960 × 1,825 × 796) × 1)
Net Weight		kg x No.	$(300 \times 1) + (300 \times 1) + (215 \times 1) + (215 \times 1)$	(300 × 1) + (300 × 1) + (237 × 1) + (215 × 1)	(300 × 1) + (300 × 1) + (237 × 1) + (215 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (225 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1) + (225 × 1)	(312 × 1) + (312 × 1) + (250 × 1) + (225 × 1)
Sound Pressure	Cooling	dB(A)	67.0	67.0	67.0
Level	Heating	dB(A)	69.0	69.0	69.0
Sound	Cooling	dB(A)	91.0	91.0	92.0
Power Level	Heating	dB(A)	94.0	94.0	94.0
Communication	Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	51.0	55.0	55.0
	t-CO ₂ eq		106.463	114.813	114.813
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maxi	mum Connectable Indoor	r Units 1)	64	64	64

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



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

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

OUTDOOR UNITS SPECIFICATIONS 056 I 057

ARUM760LTE5 / ARUM780LTE5 ARUM800LTE5



	HP		76	78	80
	Combination Unit		ARUM760LTE5	ARUM780LTE5	ARUM800LTE5
			ARUM200LTE5	ARUM200LTE5	ARUM200LTE5
Model Name	Independent Unit		ARUM200LTE5	ARUM200LTE5	ARUM200LTE5
	'		ARUM200LTE5 ARUM160LTE5	ARUM200LTE5 ARUM180LTE5	ARUM200LTE5 ARUM200LTE5
	Cooling (Pated)	kW	212.8	218.4	224.0
Canacity	Cooling (Rated) Heating (Rated)	kW	212.8	218.4	224.0
Capacity	Heating (Max)	kW	239.4	245.7	252.0
	Cooling (Rated)				
Input	J . ,	kW	71.41 49.65	69.00	72.24 52.08
EED	Heating (Rated)	kW	2.98	49.97 3.17	3.10
EER					
SEER COP	Data d Canacita		7.77 4.29	8.24 4.37	8.17 4.30
	Rated Capacity				
SCOP	Calan		5.04	4.91	4.98
Exterior	Color RAL Code		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray RAL 7030 / RAL 7037
Heat	RAL Code		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
neat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 7	(Inverter) x 8	(Inverter) x 8
Compressor	Motor Output x	W x No.	(5,300 × 4) + (4,200 × 3)	(5,300 × 4) + (4,200 × 4)	(5,300 × 4) + (4,200 × 4)
Compressor	Number	VV X IVO.			
	Oil Type		FW68D	FW68D	FW68D
	Oil Charge	СС	19,500	20,800	20,800
	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 × 8)	(900 × 8)	(900 × 8)
Fan	Air Flow Rate (High)	m³/min x No.	(320 × 4)	(320 × 4)	(320 × 4)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connections	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
for Heat	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Recovery Pipe	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connections					
for Heat Pump	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x	(H x D)	mm x No.	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1) + ((1,240 × 1,690 × 760) × 1)	((1,240 × 1,690 × 760) × 1) - ((1,240 × 1,690 × 760) × 1) - ((1,240 × 1,690 × 760) × 1) - ((1,240 × 1,690 × 760) × 1)
Dimensions (W x	(H x D) - Shipping	mm x No.	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1) + ((1,280 × 1,825 × 796) × 1)	((1,280 × 1,825 × 796) × 1) · ((1,280 × 1,825 × 796) × 1) · ((1,280 × 1,825 × 796) × 1) · ((1,280 × 1,825 × 796) × 1)
Net Weight		kg x No.	$(300 \times 1) + (300 \times 1) + (300 \times 1) + (237 \times 1)$	$(300 \times 1) + (300 \times 1) + (300 \times 1) + (300 \times 1)$	(300 × 1) + (300 × 1) + (300 × 1) + (300 × 1)
Shipping Weight		kg x No.	(312 × 1) + (312 × 1) + (312 × 1) + (250 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (312 × 1)	(312 × 1) + (312 × 1) + (312 × 1) + (312 × 1)
Sound Pressure	Cooling	dB(A)	68.0	68.0	68.0
Level	Heating	dB(A)	70.0	70.0	71.0
Sound	Cooling	dB(A)	93.0	93.0	93.0
Power Level	Heating	dB(A)	95.0	95.0	96.0
Communication (Cable	mm ² x No.	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refrigerant Name	(VCTF-SB)	R410A	R410A	R410A
	Precharged Amount				
Refrigerant	in Factory	kg	61.5	64.0	64.0
	t-CO ₂ eq		128.381	133.600	133.600
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50/60	380-400-415, 3, 50/60	380-400-415, 3, 50/60
Number of Maxir	mum Connectable Indoor	Units 1)	64	64	64

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

- 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 Om.
- 3. Wiring cable size must comply with the applicable local and national code.
- 4. Sound pressure level is measured at the rated condition in the anechoic rooms according to ISO 3745 standard. Sound power level is measured at the rated condition in the semi-anechoic rooms according to ISO 9614 standard. Therefore, these values can vary due to different operation conditions .

5. Explanation of Terms

- EER : Energy Efficiency Ratio (Cooling)
- SEER : Seasonal Energy Efficiency Ratio (Refer to Typical Cooling Season)
- COP : Coefficient Of Performance (Heating)
- SCOP : Seasonal Coefficient Of Performance (Refer to Typical Heating Season)
- 6. Due to our policy of innovation some specifications may be changed without notification.
- 7. This product contains Fluorinated greenhouse gas. (R410A, GWP (Global warming potential) = 2,087.5)

OUTDOOR UNITS SPECIFICATIONS 058 I 059



Highlight

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







Energy savings

Reliability

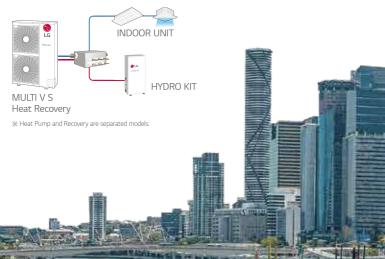
Convenience

How does it work?

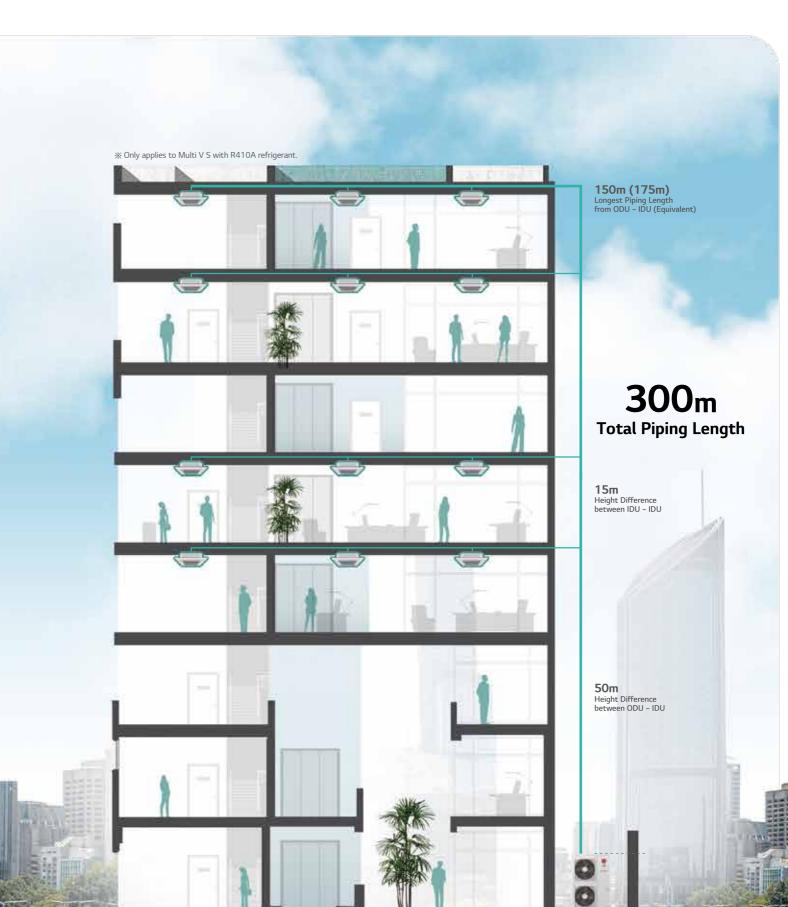
Available in Heat Pump and Heat Recovery Models



Combination of Cooling, Heating and Hot Water Solution







OUTDOOR UNITS

ENERGY

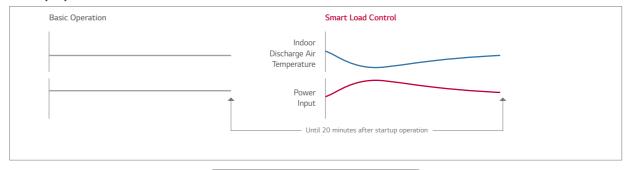
Smart Load Control Applied

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.

SLC (Smart Load Control) operation Startup Operation After 20 minutes

Startup Operation



Max 10% Energy saving

- Refined in discharge temperature

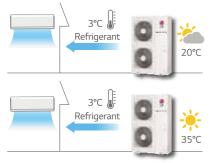
 Energy efficiency increased by 3-step Smart Load Control during startup phase

 Discharge air temperature adjusted according to outdoor and indoor temperature

 Comfort level in cooling / heating operations ensured

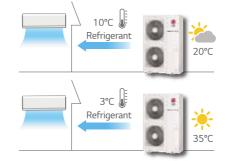
Real Time Operation

Basic Operation



Fixed refrigerant temperature

Smart Load Control



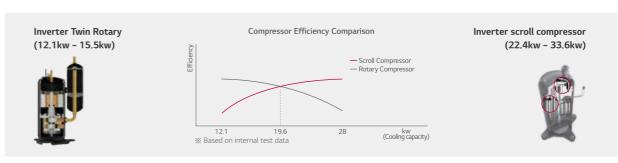
Fixed refrigerant temperature

Max 13% Energy saving

- ** How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35℃ (DB) / 30℃ (DB) / 25℃ (DB) / 20℃ (DB) Indoor temperature condition : 27℃ (DB) / 19℃ (WB)
- ※ Dual sensing (Temperature & humidity) smart load control is possible with Remote controller PTEMTB100 (White) / PREMTBB10 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficient compressor according to capacity



Inverter Twin Rotary

Twin Rotary Rotor

Surface Coating

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.

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

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

- Down to 15Hz: Part load efficiency improven

Compressor reliability is maximized with 6 Bypass Valve Prevent compressor damage due to excessively compre

6 Bypass Valve

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)

Inverter scroll compressor

Best-in-class Compressor Speed

- Compact core design (Concentrated motor)

Rapid response capability

Increased reliability with regulated oil supply

Scroll Profile

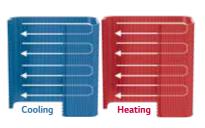
- The enhanced reliability with regulated oil supply
- Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

Optimal Heat Exchanger

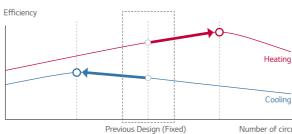
Maximize efficiency according to different heat exchanger path by cooling and heating

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



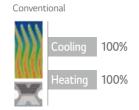


Efficiency performance



Efficiency up due to Fin shape

Improved heat exchanger efficiency of up to 28%





OUTDOOR UNITS KEY FEATURES 062 I 063

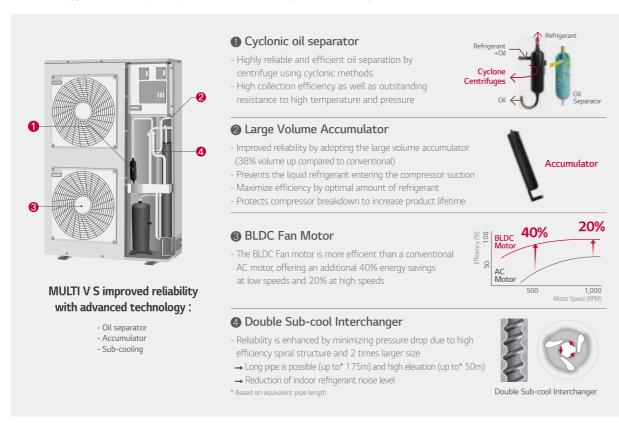
RELIABILITY

IMBBOVE

IMPROVED USER CONVENIENC

Reliable Refrigerant Components

LG technology allows for superior performance and component durability

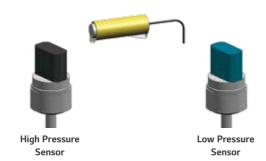


Smart Control

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

Temperature + Pressure Control

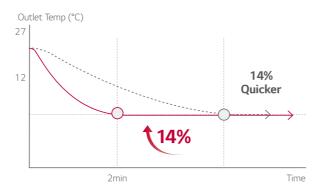
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



Quick Operating Response

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

% Specifications may vary for each model.



O— Pressure +Temperature Control

O— Temperature Control

Corrosion Resistance Black Fin

Strong durability against high salinity and heavily polluted air

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

Corrosion Resistance Proven by Certified Tests

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

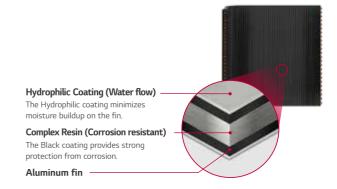
Certified protection



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

Enhanced Coating Layers

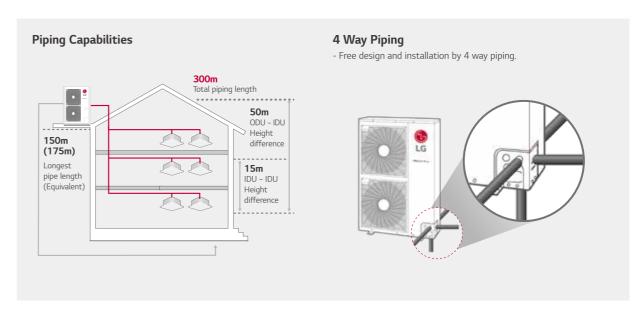
The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making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



Sufficient Piping Length

Increased piping length allows for flexible design and installation

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



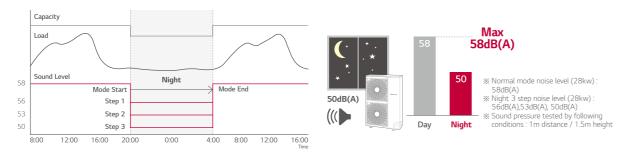
OUTDOOR UNITS KEY FEATURES

TECHNICAL DATA

Low Noise Operation

Decreased noise during operation with low noise functionality

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



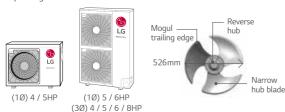
Fan Technology and RPM Control

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

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

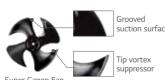
Fan Technology

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



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

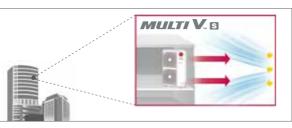




Fan RPM control

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





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

Upgraded Fault Detection and Diagnosis

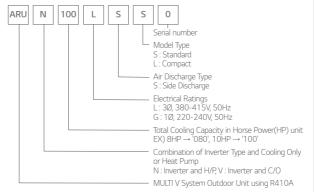
Easy and convenient maintenance with self-diagnosis

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

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



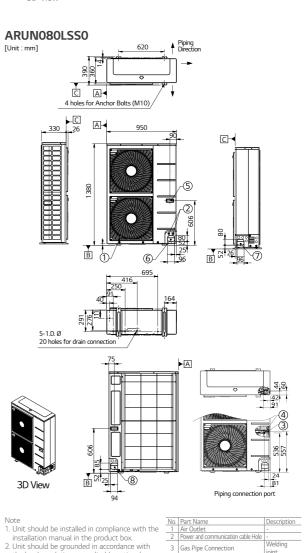
Nomenclature



Outdoor Units Function

Category	Functions	MULTI V S
	Variable Path of Outdoor Unit	-
	HEX HiPOR™ (High Pressure Oil	-
Key Refrigerant Components	Return) Humidity Sensor	ARUB060GSS4 or
Components	Corrosion Resistance Black Fin	0
	Oil Sensor	-
	Dual Sensing	ARUB060GSS4 or
	Low Noise Operation	0
	Hgih Static Mode of Outdoor	0
	Unit Fan	
	Partial Defrosting Auto Dust Removal of Outdoor	-
Special Function	Unit	-
	(Fan reverse rotation) Indoor Cooling Comfort Mode	
	Based Outdoor Temperature Smart Load Control (SLC)	0
	(Changing indoor discharge air	0
	temperature according to load) Outdoor Unit Control Refer to	ARUB060GSS4 or
	Humidity	
	Defrost / Deicing	0
	High Pressure Switch	0
	Phase Protection	0
Basic Function	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
IO Module (ODU Dr	y Contact)	PVDSMN000
PDI (Power	Standard	PPWRDB000
Distribution Indicator)	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100
Additional kit	Refrigerant Charging Kit	C (Logical operation Not applied to ARUB060GSS4
Additional RIC	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	

ARUN040GSS0 5-1.D. Ø20 holes for drain

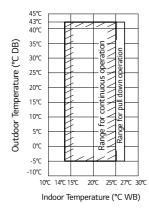


the local regulation or applicable national

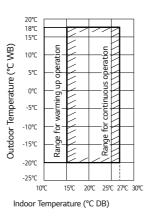
OUTDOOR UNITS TECHNICAL DATA 066 I 067

Heat Pump

Cooling

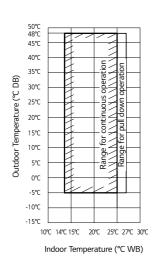


Heating

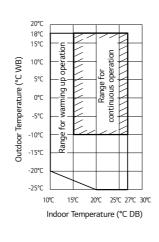


Heat Recovery

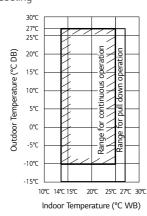
Cooling



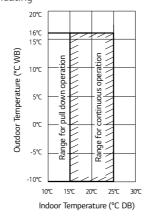
Heating



Simultaneous Cooling



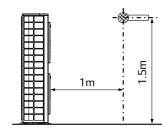
Simultaneous Heating



- 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		
C	Cooling (Rated)	kW	12.1		
Capacity	Heating (Rated)	kW	12.5		
lt	Cooling (Rated)	kW	4.03		
Input	Heating (Rated)	kW	3.10		
EER			3.00		
SEER			5.63		
COP	Rated Capacity		4.03		
SCOP			3.97		
Futanian	Color (General)		Warm Gray		
Exterior	RAL Code (Classic)		RAL 7044		
Heat Exchanger	Туре		Wide Louver Plus		
	Туре		BLDC Inverter Twin Rotary		
	Combination x No.		(Inverter) x 1		
Compressor	Motor Output x Number	W x No.	4,000 x 1		
	Oil Type		FW68D (PVE)		
	Oil Charge	СС	1,300		
	Туре		Axial Flow Fan		
	Motor Output x Number	W x No.	124 x 1		
Fan	Air Flow Rate (High)	m³/min x No.	60		
	Drive		DC INVERTER		
	Discharge	Side / Top	Side		
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)		
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)		
Dimensions (\	WxHxD)	mm x No.	950 × 834 × 330		
Dimensions (\	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1		
Net Weight		kg x No.	70		
Shipping Weig	ght	kg x No.	77 x 1		
Sound	Cooling	dB(A)	50		
Pressure Level	Heating	dB(A)	52		
Sound Power	Cooling	dB(A)	72		
Level	Heating	dB(A)	75		
Communication	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5		
	Refrigerant Name		R410A		
Refrigerant	Precharged Amount in factory	kg	1.8		
	t-CO ₂ eq		3.758		
	Control		Electronic Expansion Valve		
Dannay Corr		Ø 1/11=	220-240 , 1 , 50		
Power Supply Ø, V, Hz		り、V, HZ	220, 1, 60		
Number of Ma	aximum Connectable Indo	or Units	8		

- Note

 1. Eurowent 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 (69°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%.)

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

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

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

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

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

 7. Power factor could vary less than ±1% according to the operating conditions.

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

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

	HP		5	6
Model Name			ARUN050GSS0	ARUN060GSS0
Capacity	Cooling (Rated)	kW	14.0	15.5
Capacity	Heating (Rated)	kW	16.0	18.0
Input	Cooling (Rated)	kW	4.59	5.17
IIIput	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
Eutorior	Color (General)		Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
Compressor	Combination x No.		(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	1,300	1,300
	Туре		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110	110
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)		mm x No.	950 × 1,380 × 330	950 × 1,380 × 330
Dimensions (W x H x D) - Shipping $mm \times No$.		mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight kg x No.		kg x No.	94	94
Shipping Weig	jht	kg x No.	106	106
Sound	Cooling	dB(A)	51	52
Pressure Level	Heating	dB(A)	53	54
Sound Power	Cooling	dB(A)	72	72
Level	Heating	dB(A)	76	77
Communication	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A
Refrigerant	Precharged Amount in factory	kg	3.0	3.0
	t-CO ₂ eq		6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply Ø, V, Hz		Ø V Hz	220-240 , 1 , 50	220-240 , 1 , 50
		., v, 11∠	220, 1, 60	220, 1, 60
Number of Ma	aximum Connectable Indo	or Units	10	13

- Note

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

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

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 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

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 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

 Power factor could vary less than ±1% according to the operating conditions.

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

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
c ·.	Cooling (Rated)	kW	12.1	14.0	15.5
Capacity	Heating (Rated)	kW	12.5	16.0	18.0
lame.ca	Cooling (Rated)	kW	3.39	4.59	5.17
Input	Heating (Rated)	kW	2.75	4.18	5.00
EER			3.57	3.05	3.00
SEER			7.42	7.40	7.53
СОР	Rated Capacity		4.55	3.83	3.60
SCOP			4.30	4.16	4.35
	Color (General)		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
,	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	1,300	1,300	1,300
	Туре		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
Fan	Air Flow Rate (High)	m³/min x No.	110	110	110
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.883(5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (\	WxHxD)	mm x No.	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330
Dimensions (\	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	96	96	96
Shipping Weig	ght	kg x No.	108	108	108
Sound	Cooling	dB(A)	50	51	52
Pressure Level	Heating	dB(A)	52	53	54
Sound Power	Cooling	dB(A)	72	72	72
Level	Heating	dB(A)	76	76	77
Communication	on 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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in factory	kg	3.0	3.0	3.0
	t-CO ₂ eq		6.263	6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
		~	380-415, 3, 50	380-415, 3, 50	380-415,3,50
Power Supply		Ø, V, Hz	380, 3, 60	380, 3, 60	380, 3, 60
Number of Maximum Connectable Indoor Units			8	10	13

- Note

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

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (69°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUNOSOGSLO is 130%.)

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

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

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

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

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

 7. Power factor could vary less than ±1% according to the operating conditions.

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

S

П A

RE

ARUN080LSS0 / ARUN100LSS0 ARUN120LSS0





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

	НР		8	10	12
Model Name			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
	Cooling (Rated)	kW	22.4	28.0	33.6
Capacity	Heating (Rated)	kW	24.5	30.6	36.7
	Cooling (Rated)	kW	8.45	12.44	15.27
Input	Heating (Rated)	kW	6.96	8.50	12.23
EER			2.65	2.25	2.20
SEER			7.13	6.28	6.50
COP	Rated Capacity		3.52	3.60	3.00
SCOP			4.53	4.21	4.32
Enterden	Color (General)		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	2,400	2,600	3,400
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	124 x 2	250 x 2	250 x 2
Fan	Air Flow Rate (High)	m³/min x No.	140	190	190
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connection	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (N x H x D)	mm x No.	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 x 1,625 x 380
Dimensions (N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	115	142	155
Shipping Wei	ght	kg x No.	127	158	171
Sound	Cooling	dB(A)	57	58	60
Pressure Level		dB(A)	57	58	60
Sound Power		dB(A)	78	77	78
Level	Heating	dB(A)	81	79	82
Communication	on 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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in factory	kg	3.5	4.5	6.0
	t-CO ₂ eq		7.306	9.394	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-415,3,50	380-415,3,50	380-415,3,50
,			380,3,60	380,3,60	380,3,60
Number of M	aximum Connectable Indo	or Units	13	16	20

- Note

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

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 The maximum combination ratio is 16.0% (the maximum combination ratio of ARUN050GSL0 is 130%.)

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

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

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

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

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

 Power factor could vary less than ±1% according to the operating conditions.

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

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
c :	Cooling (Rated)	kW	15.5
Capacity	Heating (Rated)	kW	18.0
	Cooling (Rated)	kW	5.74
Input	Heating (Rated)	kW	5.14
EER			2.70
SEER			5.92
СОР	Rated Capacity		3.50
SCOP	' '		3.79
	Color		Warm Gray
Exterior	RAL Code (Classic)		RAL 7044
Heat	Туре		Wide Louver Plus
Exchanger			
	Туре		Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1
	Oil Type		FW68D (PVE)
	Oil Charge	CC	1,700
Туре			Axial Flow Fan
	Motor Output x Number		124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
Connection #1	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)
 1	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (\	WxHxD)	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 Weig	ght	kg x No.	132
Sound Pressure	Cooling	dB(A)	56
Level	Heating	dB(A)	58
Sound Power	Cooling	dB(A)	76
Level	Heating	dB(A)	78
Communication	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A
Refrigerant	Precharged Amount in factory	kg	3.5
nerrigerant	t-CO ₂ eq		7.306
	Control		Electronic Expansion Valve
Power Supply		Ø, V, Hz	220-230-240 , 1 , 50/60
	aximum Connectable Indo		13

- Note

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

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (69°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUNOSOGSLO is 130%.)

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

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

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

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

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

 7. Power factor could vary less than ±1% according to the operating conditions.

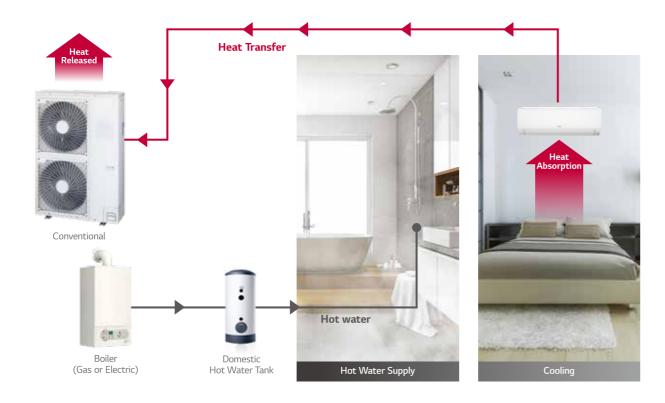
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

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

OUTDOOR UNITS APPLICATION GUIDE

MULTI V_{TM} S (R32)

- Air cooled VRF Heat pump
- 12.1 ~ 15.5kW (based on cooling capacity)



Lower Global Warming Potential (GWP)

What is GWP?

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂).











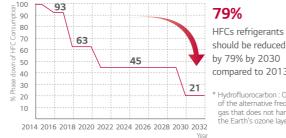


 CH_4

25 GWP

Global Trend and EU Regulation for F-Gas

HFC* Phase Down 79% by 2030.



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



Higher Efficiency

EER 3.65

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



Compact Size & Light Weight

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







Less Refrigerant Charge

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





- ※ IDU (Wall Mounted Unit): 5 kBtu/h, 8 EA
- Corrosion Resistance Black Fin

Enhanced Coating Layers

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



- Hydrophilic Coating (Water flow) Complex Resin (Corrosion resistant) The Black coating provides strong protection from corrosion.
- W Verification of corrosion resistance performance Test Method B of ISO 21207
- ASTM B117 / ISO 9227 (10,000 hours)

OUTDOOR UNITS KEY FEATURES 076 I 077

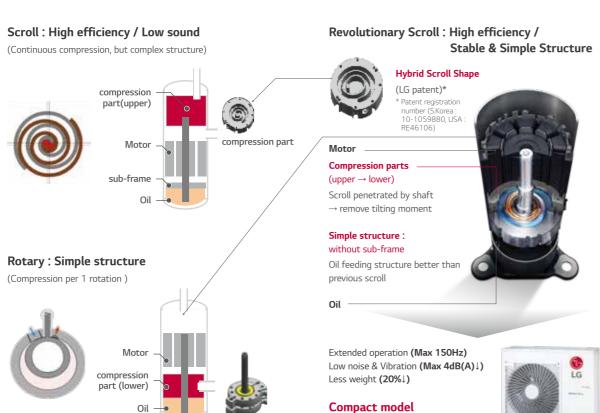
R1Compressor[™]

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



Conventional Compressor

R1Compressor™



compression part

(Size 40%↓, Weight 25%↓)

ZRUN040GSS0 / ZRUN050GSS0 ZRUN060GSS0



HEAT

PUMP R32





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

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

- Note
 1. Due to our policy of innovation some specifications may be changed without notification.
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

- 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 Om. 5. EUROVENT Test Condition
- DEUNOVERNI TEST, COTIGIUOT.
 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)

ZRUN040LSS0 / ZRUN050LSS0 ZRUN060LSS0







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

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

- Note
 1. Due to our policy of innovation some specifications may be changed without notification.
 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

- 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 Om.
 - 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.

The maximum combination ratio is 160%.
 This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)



Highlight

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



Flexible

design









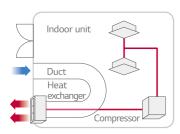
Cost savings

Space savings

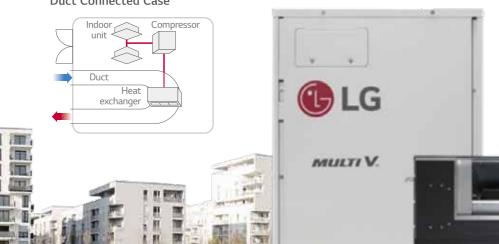
Easy maintenance

How does it work?

Direct Inlet / Outlet Case



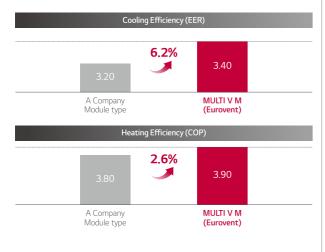
Duct Connected Case





OUTDOOR UNITS 082 | 083

Energy Efficiency



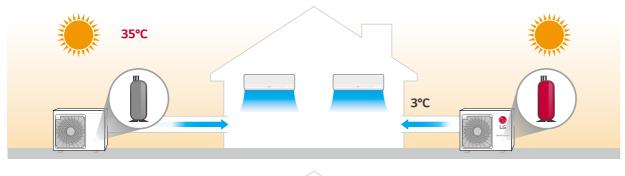
MULTI V M ensures world-class efficiency with innovative technology including R1 Compressor.

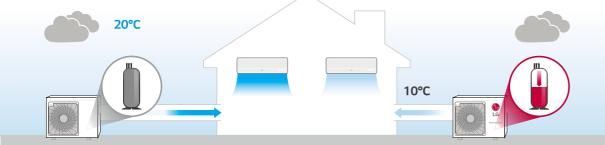
R1Compressor[™]

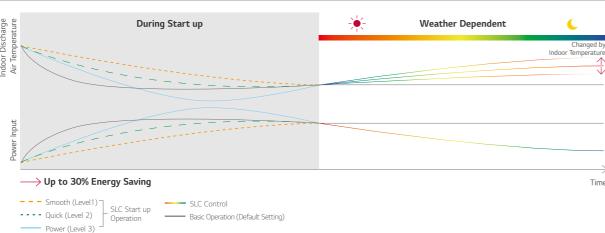


Smart Load Control

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

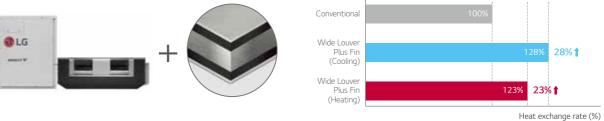






Wide Louver Plus Fin + Corrosion Resistance

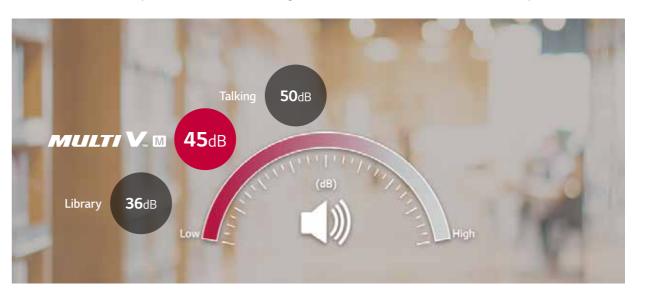
Wide Louver Plus fin technology increases efficiency and heating performance compared to conventional fin.



riede exteriarige race (

Quiet Operation

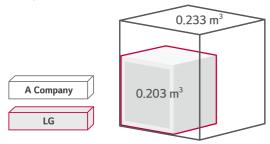
Low sound level of both compressor module and heat exchanger module allows outdoor units to be installed and operated inside.



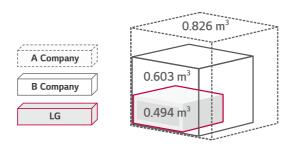
FLEXIBLE DESIGN & INSTALLATION

Volume

Compressor Module



Heat Exchanger Module



ESP Control

(External Static Pressure)

up to 30 Pa





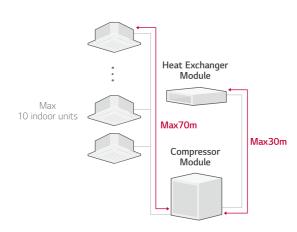


High Static Pressure Mode

Module Type

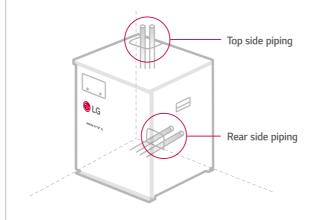
Increased design freedom

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



Flexible Piping Location

Tidy & simple installation with flexible piping location.



Increased Design Freedom

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



Conventional Outdoor Unit



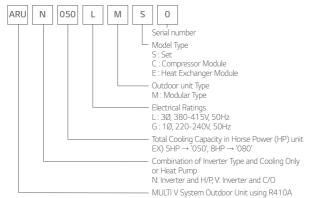
Heat exchanger module can be installed in false ceiling spaces



Compressor module can be installed anywhere indoors



Nomenclature

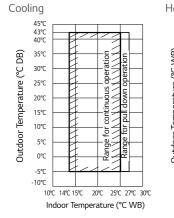


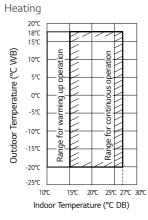
Outdoor Units Function

Category	Functions	Modular
	Variable Path of Outdoor Unit HEX	-
	HiPOR™ (High Pressure Oil Return)	-
Key Refrigerant	Humidity Sensor	-
Components	Corrosion Resistance Black Fin	0
	Oil Sensor	-
	Dual Sensing	-
	Low Noise Operation	0
	Hgih Static Mode of Outdoor	
	Unit Fan	0
	Partial Defrosting	_
	Auto Dust Cleaning of Outdoor	
	Unit (Fan reverse rotation)	-
Useful Function	Indoor Cooling Comfort Mode	
	Based Outdoor Temperature	0
	Smart Load Control (SLC)	
	(Changing indoor discharge air	0
	temperature according to load)	0
	Outdoor Unit Control Refer to	
	Humidity	-
	Defrost / Deicing	0
	High Pressure Switch	
		0
Delie kiliae	Phase Protection	0
Reliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
Central Controller	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
	Refrigerant Charging Kit	-
nstallation	Variable Water Flow Valve Control Kit	-
PDI (Power	Standard	-
Distribution Indicator)	Premium	-
Cool / Heat Selector		PRDSBM
Low Ambient Kit		-
IO Module		D) /D C) 49 /
(ODU Dry Contact)		PVDSMN000
Cycle Monitoring	LGMV	PRCTIL0

※ ○ : Applied, - : Not Applied

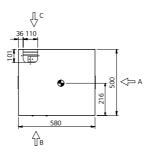
Heat Pump

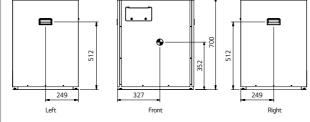


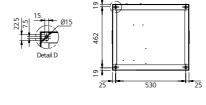


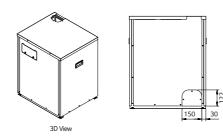
Compressor Module

[Unit:mm]

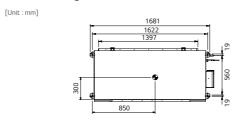


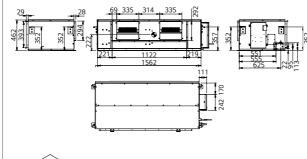


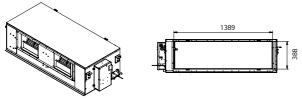




Heat Exchanger Module

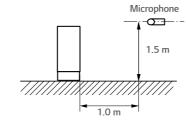






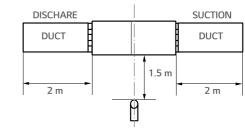
Position of Sound Pressure Level Measuring

Compressor Module



* Measuring place : Anechoic chamber

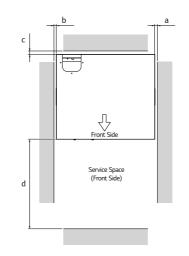
Heat Exchanger Module

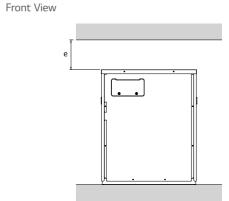


Measuring place : Anechoic chamber

Installation Space for Compressor Module

Top View

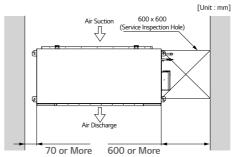




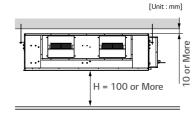
Category	Mark	Description	Installation Space (mm)
	a	Right	10 or More
C	b	Left	10 or More
Compressor Module	С	Rear	10 or More
wodule —	d	Front	500 or More
	е	Тор	200 or More

Installation Space for Compressor Module

Top View



Front View



OUTDOOR UNITS TECHNICAL DATA

ARUNO50LMC0 / ARUN050GME0





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

System

	HP		5
	Set		ARUN050LMS0
Model Name	Compressor Module		ARUN050LMC0
	Heat Exchanger Module	2	ARUN050GME0
	Cooling (Rated)	kW	14.0
Capacity	Heating (Rated)	kW	14.0
	Heating (Max)	kW	16.0
	Cooling (Rated)	kW	5.07
Input	Heating (Rated)	kW	3.71
	Heating (Max)	kW	4.32
EER	Based on Rated Capacit	Ey	2.76
SEER			5.26
СОР	Based on Rated Capacit	Ey	3.77
COP	Based on Max Capacity		3.70
SCOP			3.85
Number of Max	rimum 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°CVMB, Outdoor Ambient Temp 35°CDB / 24°CWB

• Heating: Indoor Ambient Temp 20°CDB / 15°CVMB, Outdoor Ambient Temp 7°CDB / 6°CVMB

• 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







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

Module

	HP			5
Madal Name			Compressor Module	Heat Exchanger Module
Model Name			ARUN050LMC0	ARUN050GME0
F	Color		Morning Gray	Galvanized Steel Plate
Exterior	RAL Code (Classic)		RAL 7030	-
Dimensions	Net	mm x No.	580 × 700 × 500	1,562 × 460 × 688
(W x H x D)	Shipping	mm x No.	618 × 833 × 564	1,806 × 537 × 825
Maiala	Net	kg x No.	69.0	84
Weight	Shipping	kg x No.	76.0	95
	Туре		Hermetic Motor Compressor	-
	Combination x No.		(Inverter) x 1	-
Compressor	Motor Output	W x No.	3,200	-
	Oil Type		FW68D (PVE)	-
	Oil Charge	СС	1,300	
leat Exchanger	Туре		-	Wide Louver Plus
	Туре		-	Sirocco Fan
an	Motor Output x Number	W x No.	-	400 × 2
	Air Flow Rate (Rated)	m³/min x No.	-	60
xternal Static	Nominal (Rated, Factory Set)	mmAq (Pa)	-	3 (29)
ressure	Max	mmAq (Pa)	-	16 (157)
	Liquid	mm (inch)	Ø9.52 (3/8) to IDU	Ø12.7 (1/2) to Comp. Module
Pipe Connection	Gas	mm (inch)	Ø15.88 (5/8) to IDU	Ø19.05 (3/4) to Comp. Module
	Drain	mm (inch)	-	25(1)
ound Pressure	Cooling (Rated)	dB(A)	45	45
evel	Heating (Rated)	dB(A)	45	45
ound Power Lev	vel	dB(A)	-	-
Communication (Cable	mm ² x No. (VCTF-SB)	2C × 1.0 ~ 1.5 to IDU	$2C \times 1.0 \sim 1.5$ to Comp. Module
	Refrigerant Name		R410A	R410A
efrigerant	Precharged Amount	kg	2.0	-
emgerani	t-CO ₂ eq		4.175	-
	Control		-	Electronic Expansion Valve
Power Supply		V, Ø, Hz	380-415,3,50	220-240, 1, 50

※ ○ : Applied, - : Not Applied

% O : Applied, - : Not Applied
Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wirring 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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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)

OUTDOOR UNITS SPECIFICATIONS



Highlight

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



Energy

savings





Space savings

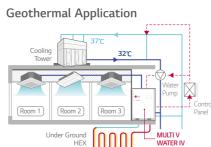
Convenient

installation

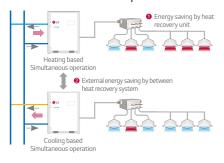
How does it work?

Operation independent of weather conditions





Available in Heat Pump & Heat Recovery Configuration





OUTDOOR UNITS 092 | 093

094 I 095

П

High Efficiency System Regardless of External Conditions

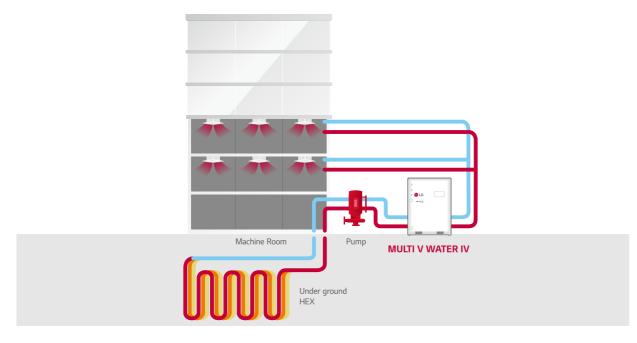
Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution.

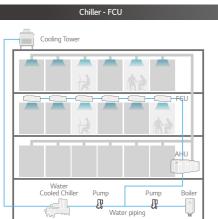


MULTI V WATER IV System for Geothermal Applications

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

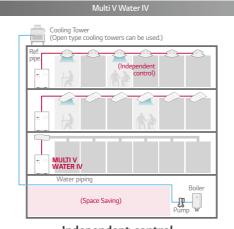
- The Circulating water temperature range is between -5°C ~ 45°C
- Antifreeze should be applied depending on the application





Central control

OUTDOOR UNITS KEY FEATURES

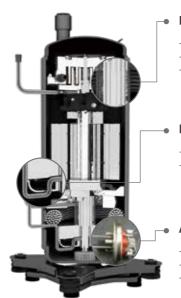


Independent control

Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

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



Extended Compressor Speed 20Hz ~ 140Hz

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

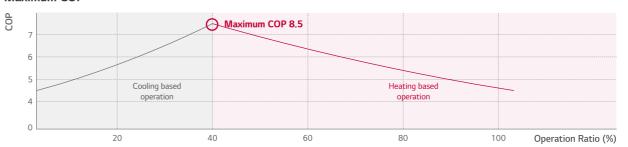
HiPOR™ (High Pressure Oil Return)

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

Active oil control (Oil level sensor)

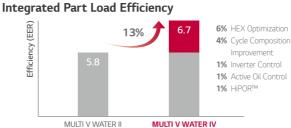
- Oil recovery operation occurs only when required
- Enhanced compressor reliability & continuous heating
- Oil distribution between compressors

Maximum COP

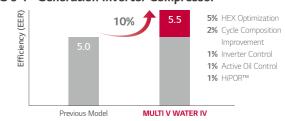


Economical, Highly Efficient System





LG's 4th Generation Inverter Compressor



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

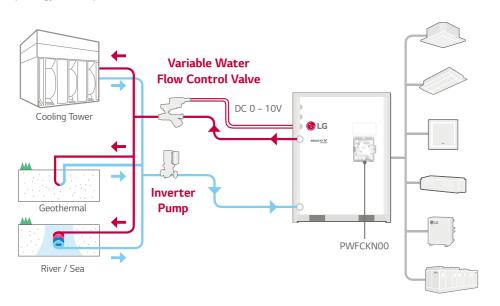
FLEXIBLE

Variable Water Flow Control

(OPTION)

In support of green building initiatives

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





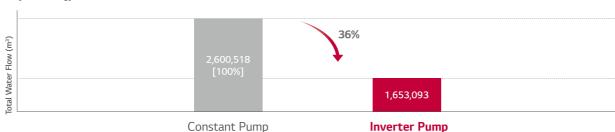
Note 1. Location : Paris, France

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

Project Example: 63F (Pump: 20,064 LPM, 42.4mAq 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 y	ears	10 years		
Unit	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
- \bullet Annual power consumption rate expected to increase by 5%

Largest Capacity

Sufficient pipe length limitation provides flexible design and installation

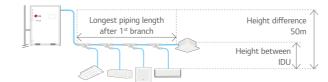
Providing 8 ~ 20HP (22.4 ~ 56kW) with single unit, and up to the world's largest capacity 80HP (224kW) by combination.

HP	8	10	14	20	22	24	28	30	34	40	42 ~ 60	62 ~ 80
kW	22.4	28	39.2	56	61.6	67.2	78.4	84	95.2	112	117.6 ~ 168	173.6 ~ 224
LG			Jnit					nits			3 Units	e de

Longest Piping Length

Sufficient pipes length limitation in design and Installation for various buildings

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

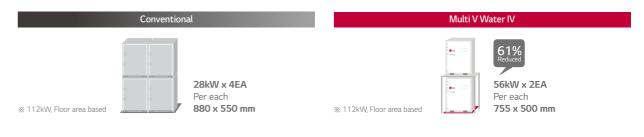


Total Piping Length	300m
Actual longest piping length (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	50m
Height difference between IDU ~ IDU	40m

Compact Size

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

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



Lightweight

Nothing or Decrease additional load reinforcement work at building



OUTDOOR UNITS KEY FEATURES 096 I 097

Ш CHNICAL DAT

ARW N 100 L A S 4 Serial number - S : Standard - A · Basic Function Electrical Ratings L: 3Ø, 380 ~ 415 V, 50Hz Total Cooling Capacity in Horse Power (HP) unit EX) 10HP → '100' Combination of Inverter Type and Cooling Only N: Inverter and H/P - MULTI V Water System with Outdoor unit using R410A

Category Functions Multi V Water IV

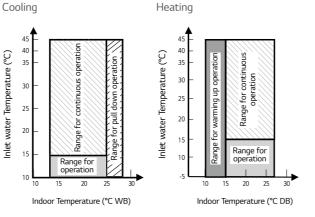
Outdoor Units Function

Nomenclature

	i unctions	
	Variable Path of Outdoor unit HEX	-
Key Refrigerant	HiPOR™ (High Pressure Oil Return)	0
Components	Humidity Sensor	-
	Corrosion Resistance Black Fin	-
	Oil Sensor	0
	Dual Sensing	-
	Low Noise Operation	-
	Hgih Static Mode of Outdoor Unit Fan	-
	Partial Defrosting	-
Useful Function	Auto Dust Cleaning of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	-
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	-
	Outdoor Unit Control Refer to Humidity	-
	Defrost / Deicing	-
	High Pressure Switch	0
Reliability	Phase Protection	0
Reliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
Central Controller	ACP (Advanced Control Platform) IV	PQCPC22A0
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
Installation	Refrigerant Charging Kit	-
IIISTANATION	Variable Water Flow Valve Control Kit	PWFCKN000
PDI (Power Distribution	Standard	PPWRDB000
Indicator)	Premium	PQNUD1S40
Cool / Heat Selector	r	PRDSBM
Low Ambient Kit		-
IO Module (ODU Dry	y Contact)	PVDSMN000
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100

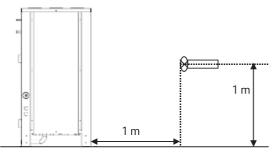
※ ○ : Applied, - : Not Applied

Operation Limits



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

Position of Sound Pressure Level Measuring



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

Optional Accessories

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

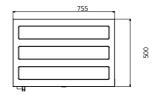
Multi V Water IV Heating Dissipation Value by Model

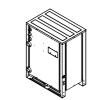
Model	HP	Heating Dissipation Value		
ARWN080LAS4	8	600 W	515.9 kcal/h	0.143 kcal/s
ARWN100LAS4	10	630 W	541.7 kcal/h	0.150 kcal/s
ARWN120LAS4	12	660 W	567.5 kcal/h	0.158 kcal/s
ARWN140LAS4	14	690 W	593.3 kcal/h	0.165 kcal/s
ARWN160LAS4	16	700 W	601.9 kcal/h	0.167 kcal/s
ARWN180LAS4	18	720 W	619.1 kcal/h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

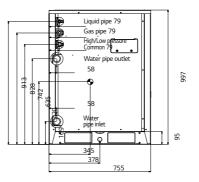
Test condition : Indoor air temperature : DB 40°C, WB : 32°C \times A design stage should be considered to ventilation system

ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4 / ARWN200LAS4

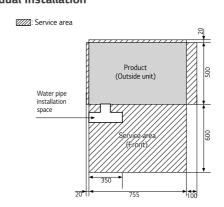
[Unit:mm]



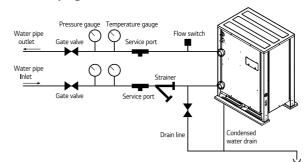




Individual Installation



Water Piping Installation



Precaution of Installation

- 1. Do not install the unit at the outdoors. (Installation of the unit outdoors could result in fire or electric shock.) Recommended ambient temperature of outdoor unit is between 0 ~ 40°C.
- 2. Keep the water temperature between 10 ~ 45°C. Standard water supply temperature is 30°C for cooling and 20°C for
- 3. Establish an anti-freeze plan for the water supply when the product is stopped during the winter.
- 4. Be careful of the water purity control. Ensure water purity control to avoid breakdown due to water pipe corrosion. Refer to 'Standard Table for Water Purity Control' in PDB (Product
- 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
- 7. Install a pressure gauge and temperature gauge at the inlet and outlet of the water pipe.
- 8. Flexible joints must be installed not to cause any leakage from the vibration of pipes.
- 9. Install a **service port** to clean the heat exchanger at the each end of the water inlet and outlet.
- 10. It is mandatory to install the **flow switch** to the water collection pipe system connecting to the outdoor unit. (Flow switch acts as the 1st protection device when the heat water is
- 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
- 12. To protect the water cooling type product, you must install a strainer with 50 mesh or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.
- 1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
- 2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
- 3) When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
- 4) As the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat
- 5) As a result of the damage of the heat exchanger from the freezing, the refrigerant side and the heat water source side will be mixed to make the product unusable.

OUTDOOR UNITS TECHNICAL DATA 098 I 099

100 I 101

Bouygues Challenger

LG MULTI V Water Solution with Geothermal Application.









Site Information

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

LG Solution

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

ARWN080LAS4 / ARWN100LAS4 ARWN140LAS4



	HP		8	10	14
Model Name	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
Model Name	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4
Capacity	Cooling (Rated)	kW	22.4	28.0	39.2
Сараспу	Heating (Rated)	kW	25.2	31.5	44.1
Innut	Cooling (Rated)	kW	3.86	5.09	7.84
Input	Heating (Rated)	kW	4.2	5.34	8.17
EER			5.80	5.50	5.00
COP	Rated Capacity		6.00	5.90	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LXterioi	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
rieat Exchanger	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1	4,200 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	2,800	2,800	2,800
Refrigerant	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connecting Pipes	Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H >	(D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure	Cooling	dB(A)	47	50	58
Level	Heating	dB(A)	51	53	57
Carrad Darram Larral	Cooling	dB(A)	59	62	70
Sound Power Level	Heating	dB(A)	63	65	69
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 Name		R410A	R410A	R410A
Pofrigorant	Precharged Amount in Factory	kg	5.8	5.8	5.8
Refrigerant	t-CO ₂ eq		12.108	12.108	12.108
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
	n Connectable Indoor Un		13 (20)	16 (25)	23 (35)

- Note

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

 2. Due to our policy of innovation some specifications may be changed without notification
 3. Performances are based on the following conditions
 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)
 Heating: Indoor temp 20°C (68°F) DB, Water inlet temp 20°C (68°F)
 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

OUTDOOR UNITS SPECIFICATIONS

ARWN200LAS4 / ARWN160LAS4 ARWN180LAS4



MULTI V WATER

HEAT

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

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN220LAS4 / ARWN240LAS4 ARWN280LAS4



	HP		22	24	28
	Combination Unit		ARWN220LAS4	ARWN240LAS4	ARWN280LAS4
Model Name	Independent Unit		ARWN140LAS4 ARWN080LAS4	ARWN140LAS4 ARWN100LAS4	ARWN140LAS4 ARWN140LAS4
Canacity	Cooling (Rated)	kW	61.6	67.2	78.4
Capacity	Heating (Rated)	kW	69.3	75.6	88.2
Innut	Cooling (Rated)	kW	11.70	12.93	15.68
Input	Heating (Rated)	kW	12.37	13.51	16.34
EER			5.26	5.20	5.00
COP	Rated Capacity		5.60	5.60	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	4,200 x 2	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,600	5,600	5,600
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H)	(D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H)	CD) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	127 x 2	127 x 2	127 x 2
Shipping Weight		kg x No.	137 x 2	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	58	59	59
Level	Heating	dB(A)	58	58	58
Sound Power Level	Cooling	dB(A)	70	71	72
	Heating	dB(A)	70	70	71
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.6	11.6	11.6
	t-CO ₂ eq		24.215	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun	n Connectable Indoor Un	its	35 (44)	39 (48)	45 (56)

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN300LAS4 / ARWN340LAS4 ARWN400LAS4



MULTI V WATER

HEAT

	НР		30	34	40
	Combination Unit		ARWN300LAS4	ARWN340LAS4	ARWN400LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4
Capacity	Cooling (Rated)	kW	84.0	95.2	112.0
Сарастсу	Heating (Rated)	kW	94.5	107.1	126.0
Input	Cooling (Rated)	kW	16.29	19.04	22.40
mput	Heating (Rated)	kW	17.01	19.84	23.34
EER			5.16	5.00	5.00
COP	Rated Capacity		5.56	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
	Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,800	5,800	6,000
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
Water Connecting	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2
Shipping Weight		kg x No.	(150 x 1) + (137 x 1)	(150 x 1) + (137 x 1)	150 x 2
Sound Pressure	Cooling	dB(A)	55	59	55
Level	Heating	dB(A)	61	61	61
Sound Power Level	Cooling	dB(A)	67	72	68
	Heating	dB(A)	73	74	74
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	8.8	8.8	6.0
_	t-CO ₂ eq		18.370	18.370	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	49 (60)	55 (64)	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWN420LAS4 / ARWN440LAS4 ARWN480LAS4



	HP		42	44	48
	Combination Unit		ARWN420LAS4	ARWN440LAS4	ARWN480LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN140LAS4 ARWN140LAS4
Canacity	Cooling (Rated)	kW	117.6	123.2	134.4
Capacity	Heating (Rated)	kW	132.3	138.6	151.2
Input	Cooling (Rated)	kW	22.9	24.13	26.88
input	Heating (Rated)	kW	24.04	25.18	28.01
EER			5.14	5.11	5.00
СОР	Rated Capacity		5.50	5.50	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
,	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,600	8,600	8,600
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/ + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/ + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thre
Dimensions (W x H)	(D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	k D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 1) + (127 x 2)	$(140 \times 1) + (127 \times 2)$	(140 x 1) + (127 x 2)
Shipping Weight		kg x No.	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)
Sound Pressure	Cooling	dB(A)	60	60	60
Level	Heating	dB(A)	62	62	62
Sound Power Level	Cooling	dB(A)	72	72	74
Souliu Power Level	Heating	dB(A)	74	74	76
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO ₂ eq		30.478	30.478	30.478
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	n Connectable Indoor Un		64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)



MULTI V WATER IV

HEAT

	НР		50	54	60
	Combination Unit		ARWN500LAS4	ARWN540LAS4	ARWN600LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Capacity	Cooling (Rated)	kW	140.0	151.2	168.0
Capacity	Heating (Rated)	kW	157.5	170.1	189.0
Input	Cooling (Rated)	kW	27.49	30.24	33.60
прис	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
COP	Rated Capacity		5.49	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LACETION	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
· · · · · · · · · · · · · · · · · · ·	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 135	192 + 192+ 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 1	5,300 x 2 + 4,200 x 1	5,300 x 3
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,800	8,800	9,000
Refrigerant	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connecting Pipes	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	Inlet	A (inch)	40A (PT 1-1/2) +40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)	140 x 3
Shipping Weight		kg x No.	(150 x 2) + (137 x 1)	(150 x 2) + (137 x 1)	150 x 3
Sound Pressure	Cooling	dB(A)	58	60	56
Level	Heating	dB(A)	63	62	62
Sound Power Level	Cooling	dB(A)	70	74	70
	Heating	dB(A)	75	76	76
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.8	11.8	9.0
	t-CO ₂ eq		24.633	24.633	18.788
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)



	HP		62	64	68
	Combination Unit		ARWN620LAS4	ARWN640LAS4	ARWN680LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4
Capacity	Cooling (Rated)	kW	173.6	179.2	190.4
Lapacity	Heating (Rated)	kW	195.3	201.6	214.2
nnut	Cooling (Rated)	kW	34.10	35.33	38.08
Input	Heating (Rated)	kW	35.71	36.85	39.68
ER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	5.40
	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 96	192 + 192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,600	11,600	11,600
Refrigerant	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
Nater Connecting Pipes	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	$(140 \times 2) + (127 \times 2)$	$(140 \times 2) + (127 \times 2)$	$(140 \times 2) + (127 \times 2)$
Shipping Weight		kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)
Sound Pressure	Cooling	dB(A)	61	61	61
evel	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
bound Power Level	Heating	dB(A)	76	76	77
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	17.6	17.6	17.6
•	t-CO ₂ eq		36.740	36.740	36.740
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

OUTDOOR UNITS SPECIFICATIONS

ARWN700LAS4 / ARWN740LAS4 ARWN800LAS4



MULTI V WATER IV HEAT

	НР		70	74	80
	Combination Unit		ARWN700LAS4	ARWN740LAS4	ARWN800LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
6	Cooling (Rated)	kW	196.0	207.2	224.0
Capacity	Heating (Rated)	kW	220.5	233.1	252.0
Lucia	Cooling (Rated)	kW	38.69	41.44	44.80
Input	Heating (Rated)	kW	40.35	43.18	46.68
EER			5.07	5.00	5.00
COP	Rated Capacity		5.46	5.40	5.40
Futurian	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
Treat Exerianger	Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 192 + 96	192 + 192 + 192 + 135	192 + 192 + 192 + 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 3 + 4,200 x 1	5,300 x 3 + 4,200 x 1	5,300 x 4
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,800	11,800	12,000
Refrigerant	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Connecting Pipes	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 3) + (127 x 1)	$(140 \times 3) + (127 \times 1)$	140 x 4
Shipping Weight		kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4
Sound Pressure	Cooling	dB(A)	59	61	57
Level	Heating	dB(A)	65	63	63
Sound Power Level	Cooling	dB(A)	71	75	71
	Heating	dB(A)	77	77	77
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.8	14.8	12.0
	t-CO ₂ eq		30.895	30.895	25.050
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts 1)	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB080LAS4 / ARWB100LAS4 ARWB140LAS4



	HP		8	10	14
Mardal Name	Combination Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
Model Name	Independent Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4
Canaditu	Cooling (Rated)	kW	22.4	28.0	39.2
Capacity	Heating (Rated)	kW	25.2	31.5	44.1
Input	Cooling (Rated)	kW	3.86	5.09	7.84
Input	Heating (Rated)	kW	4.20	5.34	8.17
EER			5.80	5.50	5.00
COP	Rated Capacity		6.00	5.90	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LXterioi	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
ricae Exchanger	Head Loss	kPa	10.7	15.8	28.6
	Rated Water Flow	LPM	77	96	135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1	4,200 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	2,800	2,800	2,800
	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø25.4 (1)
	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 1
Net Weight		kg x No.	127 x 1	127 x 1	127 x 1
Shipping Weight		kg x No.	137 x 1	137 x 1	137 x 1
Sound Pressure	Cooling	dB(A)	47	50	58
Level	Heating	dB(A)	51	53	57
Sound Power Level	Cooling	dB(A)	59	62	70
Sound Fower Level	Heating	dB(A)	63	65	69
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 Name		R410A	R410A	R410A
Pofrigorant	Precharged Amount in Factory	kg	5.8	5.8	5.8
Refrigerant	t-CO ₂ eq		12.108	12.108	12.108
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)		tc 1)	13 (20)	16 (25)	23 (35)

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER

110 I 111

ARWB200LAS4 / ARWB160LAS4 ARWB180LAS4



MULTI V WATER

	HP		20	16	18
	Combination Unit		ARWB200LAS4	ARWB160LAS4	ARWB180LAS4
Model Name	Independent Unit		ARWB200LAS4	ARWB080LAS4 ARWB080LAS4	ARWB100LAS4 ARWB080LAS4
Canacity	Cooling (Rated)	kW	56.0	44.8	50.4
Capacity	Heating (Rated)	kW	63.0	50.4	56.7
laa	Cooling (Rated)	kW	11.20	7.72	8.95
Input	Heating (Rated)	kW	11.67	8.40	9.54
EER			5.00	5.80	5.63
COP	Rated Capacity		5.40	6.00	5.94
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1	10.7 + 10.7	15.8 + 10.7
	Rated Water Flow	LPM	192	77 + 77	96 + 77
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1	4,200 x 2	4,200 x 2
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	СС	3,000	5,600	5,600
D. C	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
J ,	High Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Inlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 1	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 1	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	140 x 1	127 x 2	127 x 2
Shipping Weight		kg x No.	150 x 1	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	54	50	52
Level	Heating	dB(A)	60	54	55
Sound Power Level	Cooling	dB(A)	66	62	64
	Heating	dB(A)	72	66	67
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	3.0	11.6	11.6
	t-CO ₂ eq		6.263	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	32(50)	26(40)	29(45)

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB220LAS4 / ARWB240LAS4 ARWB280LAS4



	HP		22	24	28
	Combination Unit		ARWB220LAS4	ARWB240LAS4	ARWB280LAS4
Model Name	Independent Unit		ARWB140LAS4 ARWB080LAS4	ARWB140LAS4 ARWB100LAS4	ARWB140LAS4 ARWB140LAS4
Capacity	Cooling (Rated)	kW	61.6	67.2	78.4
Сараспсу	Heating (Rated)	kW	69.3	75.6	88.2
lt	Cooling (Rated)	kW	11.70	12.93	15.68
Input	Heating (Rated)	kW	12.37	13.51	16.34
EER			5.26	5.20	5.00
СОР	Rated Capacity		5.60	5.60	5.40
F	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
=	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	4,200 x 2	4,200 x 2	4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,600	5,600	5,600
	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H)	(D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	c D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	127 x 2	127 x 2	127 x 2
Shipping Weight		kg x No.	137 x 2	137 x 2	137 x 2
Sound Pressure	Cooling	dB(A)	58	59	59
Level	Heating	dB(A)	58	58	58
Sound Power Level	Cooling	dB(A)	70	71	72
Sound Power Level	Heating	dB(A)	70	70	71
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.6	11.6	11.6
,	t-CO ₂ eq		24.215	24.215	24.215
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun	n Connectable Indoor Uni	ts	35 (44)	39 (48)	45 (56)

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 2.7°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

 Heating: Indoor temp 2.0°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 3741 standard.

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

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

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

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

OUTDOOR UNITS SPECIFICATIONS

ARWB300LAS4 / ARWB340LAS4 ARWB400LAS4



MULTI V WATER

H

	HP		30	34	40
	Combination Unit		ARWB300LAS4	ARWB340LAS4	ARWB400LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4
Canacity	Cooling (Rated)	kW	84.0	95.2	112.0
Capacity	Heating (Rated)	kW	94.5	107.1	126.0
		kW	16.29	19.04	22.40
прис	Heating (Rated)	kW	17.01	19.84	23.34
EER			5.16	5.00	5.00
COP	Rated Capacity		5.56	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
,	Head Loss	kPa	30.1 + 15.8	30.1 + 28.6	30.1 + 30.1
	Rated Water Flow	LPM	192 + 96	192 + 135	192 + 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
Compressor	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	5,800	5,800	6,000
Definement	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes Low Pressure Gas Pip		mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Inlet		A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2	(804 x 1,143 x 630) x 2
Net Weight		kg x No.	(140 x 1) + (127 x 1)	(140 x 1) + (127 x 1)	140 x 2
Shipping Weight		kg x No.	(150 x 1) + (137 x 1)	(150 x 1) + (137 x 1)	150 x 2
Sound Pressure	Cooling	dB(A)	55	59	55
Level	Heating	dB(A)	61	61	61
Sound Power Level	Cooling	dB(A)	67	72	68
	Heating	dB(A)	73	74	74
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	8.8	8.8	6.0
	t-CO ₂ eq		18.370	18.370	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	49 (60)	55 (64)	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB420LAS4 / ARWB440LAS4 ARWB480LAS4



	HP		42	44	48
	Combination Unit		ARWB420LAS4	ARWB440LAS4	ARWB480LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB140LAS4 ARWB100LAS4	ARWB200LAS4 ARWB140LAS4 ARWB140LAS4
Canaditu	Cooling (Rated)	kW	117.6	123.2	134.4
Capacity	Heating (Rated)	kW	132.3	138.6	151.2
lanab	Cooling (Rated)	kW	22.9	24.13	26.88
Input	Heating (Rated)	kW	24.04	25.18	28.01
EER			5.14	5.11	5.00
COP	Rated Capacity		5.50	5.50	5.40
Francisco	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
	Head Loss	kPa	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8	30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 135 + 77	192 + 135 + 96	192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2	5,300 x 1 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	CC	8,600	8,600	8,600
B. 6	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
5 1	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	Inlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x	x D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)
Shipping Weight		kg x No.	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)	(150 x 1) + (137 x 2)
Sound Pressure	Cooling	dB(A)	60	60	60
Level	Heating	dB(A)	62	62	62
5 15 1	Cooling	dB(A)	72	72	74
Sound Power Level	Heating	dB(A)	74	74	76
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.6	14.6	14.6
	t-CO ₂ eq		30.478	30.478	30.478
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximun	n Connectable Indoor Uni	ts	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

OUTDOOR UNITS SPECIFICATIONS

HE

ARWB500LAS4 / ARWB540LAS4 ARWB600LAS4



MULTI V WATER

H

RE

	HP		50	54	60
	Combination Unit		ARWB500LAS4	ARWB540LAS4	ARWB600LAS4
Model Name Independent Unit			ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
Capacity	Cooling (Rated)	kW	140.0	151.2	168.0
Сарастсу	Heating (Rated)	kW	157.5	170.1	189.0
Input	Cooling (Rated)	kW	27.49	30.24	33.60
прис	Heating (Rated)	kW	28.68	31.51	35.01
EER			5.09	5.00	5.00
COP	Rated Capacity		5.49	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LXCEITOI	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
,	Head Loss	kPa	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 96	192 + 192 + 135	192 + 192+ 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 1	5,300 x 2 + 4,200 x 1	5,300 x 3
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	8,800	8,800	9,000
Defriesment	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Refrigerant Connecting Pipes Low Pressure Gas Pipe		mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
High Pressure Gas Pipe mr		mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Inlet		A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)	40A (PT 1-1/2) + 40A (PT 1-1/2) + 40A (PT 1-1/2) (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	D)	mm x No.	(755 x 997 x 500) x 3 (755 x 997 x 500) x 3		(755 x 997 x 500) x 3
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3	(804 x 1,143 x 630) x 3
Net Weight		kg x No.	(140 x 2) + (127 x 1)	(140 x 2) + (127 x 1)	140 x 3
Shipping Weight		kg x No.	(150 x 2) + (137 x 1)	(150 x 2) + (137 x 1)	150 x 3
Sound Pressure	Cooling	dB(A)	58	60	56
Level	Heating	dB(A)	63	62	62
Sound Power Level	Cooling	dB(A)	70	74	70
	Heating	dB(A)	75	76	76
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	11.8	11.8	9.0
	t-CO ₂ eq		24.633	24.633	18.788
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	Connectable Indoor Uni	ts	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB620LAS4 / ARWB640LAS4 ARWB680LAS4



	HP		62	64	68
	Combination Unit		ARWB620LAS4	ARWB640LAS4	ARWB680LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4 ARWB140LAS4
Canacity	Cooling (Rated)	kW	173.6	179.2	190.4
Capacity	Heating (Rated)	kW	195.3	201.6	214.2
Input	Cooling (Rated)	kW	34.10	35.33	38.08
прис	Heating (Rated)	kW	35.71	36.85	39.68
EER			5.09	5.07	5.00
COP	Rated Capacity		5.47	5.47	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Exterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm²	45	45	45
,	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 28.6 + 15.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 135 + 96	192 + 192 + 135 + 135
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2	5,300 x 2 + 4,200 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	СС	11,600	11,600	11,600
D. C	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Refrigerant Connecting Pipes	Low Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
5 · -	High Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)
	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 4 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 4 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Threa
Dimensions (W x H >	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H >	c D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	$(140 \times 2) + (127 \times 2)$
Shipping Weight		kg x No.	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)	(150 x 2) + (137 x 2)
Sound Pressure	Cooling	dB(A)	61	61	61
Level	Heating	dB(A)	64	64	63
Sound Power Level	Cooling	dB(A)	73	73	75
	Heating	dB(A)	76	76	77
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	17.6	17.6	17.6
•	t-CO ₂ eq		36.740	36.740	36.740
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	n Connectable Indoor Uni	ts	64	64	64

- Note

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

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

 3. Performances are based on the following conditions

 Cooling: Indoor temp 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp 30°C (86°F)

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

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor Indoor Unit) is 0m.

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

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

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

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

 6. Add an anti freeze to circulation water when outdoor unit is operating under 10°C (S0°F), and change the DIP switch on main PCB. (For more information on installation section.)

ARWB700LAS4 / ARWB740LAS4 ARWB800LAS4



	HP		70	74	80
	Combination Unit		ARWB700LAS4	ARWB740LAS4	ARWB800LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
Capacity	Cooling (Rated)	kW	196.0	207.2	224.0
Сарастсу	Heating (Rated)	kW	220.5	233.1	252.0
Input	Cooling (Rated)	kW	38.69	41.44	44.80
Прис	Heating (Rated)	kW	40.35	43.18	46.68
EER			5.07	5.00	5.00
COP	Rated Capacity		5.46	5.40	5.40
Exterior	Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
LXterior	RAL Code (Classic)		RAL 7044 / RAL 7030	RAL 7044 / RAL 7030	RAL 7044 / RAL 7030
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Maximum Pressure Resistance	kgf/cm ²	45	45	45
•	Head Loss	kPa	30.1 + 30.1 + 30.1 + 15.8	30.1 + 30.1 + 30.1 + 28.6	30.1 + 30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 192 + 192 + 96	192 + 192 + 192 + 135	192 + 192 + 192 + 192
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
Compressor	Motor Output x Number	W x No.	5,300 x 3 + 4,200 x 1	5,300 x 3 + 4,200 x 1	5,300 x 4
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	CC	11,800	11,800	12,000
Defriesment	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
Refrigerant Connecting Pipes Low Pressure Gas		mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
3 1	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)
W . C .:	Inlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
Water Connecting Pipes	Outlet	A (inch)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)	PT 40 + PT 40 + PT 40 + PT 40 (Internal Thread)
	Drain Outlet	A (inch)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)	20A (PT 3/4) (External Thread)
Dimensions (W x H x	(D)	mm x No.	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4	(755 x 997 x 500) x 4
Dimensions (W x H x	D) - Shipping	mm x No.	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4	(804 x 1,143 x 630) x 4
Net Weight		kg x No.	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4
Shipping Weight		kg x No.	(150 x 3) + (137 x 1)	(150 x 3) + (137 x 1)	150 x 4
Sound Pressure	Cooling	dB(A)	59	61	57
Level	Heating	dB(A)	65	63	63
Sound Power Level	Cooling	dB(A)	71	75	71
	Heating	dB(A)	77	77	77
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 Name		R410A	R410A	R410A
Refrigerant	Precharged Amount in Factory	kg	14.8	14.8	12.0
	t-CO ₂ eq		30.895	30.895	25.050
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum	n Connectable Indoor Uni	ts	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%.

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 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.

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

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

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

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

118-191 **INDOOR UNITS** WALL MOUNTED / CEILING MOUNTED CASSETTE / CEILING MOUNTED ROUND CASSETTE / CEILING CONCEALED DUCT / FRESH AIR INTAKE / CEILING & FLOOR CONVERTIBLE / CEILING SUSPENDED / CONSOLE & FLOOR STANDING / COMPATIBILITY / FEATURE FUNCTIONS INDOOR UNITS





Features & Benefits

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

Key Applications

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

W.	ALL MOUNTED	ARTCOOL MIRROR	ARTCOOL GALLERY	STANDARD
Smart	Wi-Fi	0	0	0
Energy Efficiency	Energy Display	0	0	0
Fast Cooling &	Jet Cool	0	0	0
Heating	Auto Swing (Up & Down)	0	0	0
	lonizer	0	-	○ ~7.1kW Only
Health	Pre Filter	0	0	0
	Auto Cleaning	0	0	0
	Sleep Mode	0	0	0
	Timer (On / Off)	0	0	0
Comfort	Timer (Weekly)	0	0	0
	Two Thermistor Control	0	0	0
	Group Control	0	0	0

※ ○: 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.

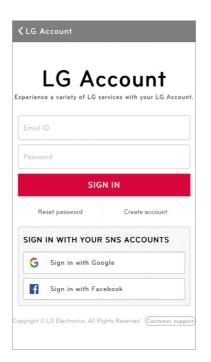
Integrated Home Appliances Control

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

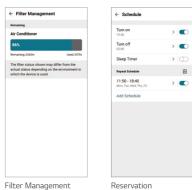




Straight forward Management







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

IonizerPLUS

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

ThinQ

Wi-Fi Control

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

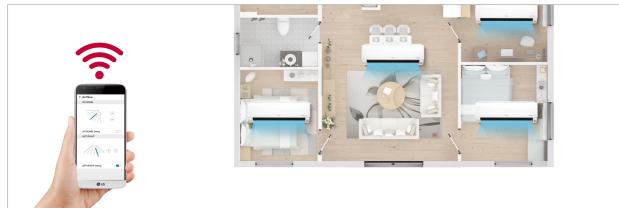
Each user can set and save temperature and fan speed preferences in the ThinQ app. If a household has more than one indoor unit, separate temperature settings can be set for each.

Multiple Devices



* Can be controlled by multiple users, but not simultaneously

Multi-Control



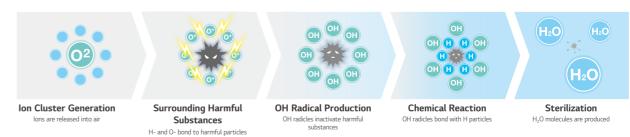
* For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice

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

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

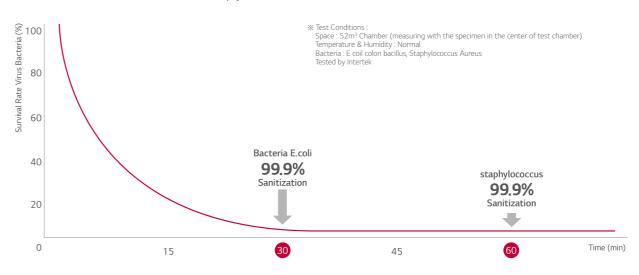
Reduction and Deodorization (Utilizes Over 3 Million Ions)

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



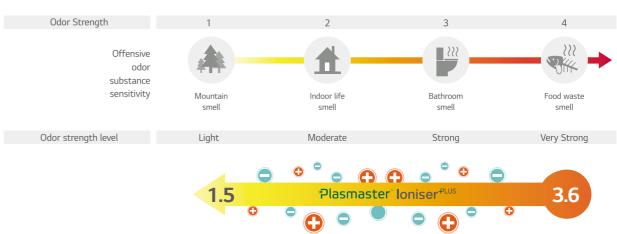
Reduction Performance Evaluations

Reduce Bacteria E.coli over 99.9% in 30 min. and staphylococcus over 99.6% in 60min.



2.1 odor strength decrease in 60 minutes

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



Odor strength reduce 3.6 \Rightarrow 1.5 / The Odor floating in the room as well as curtain 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

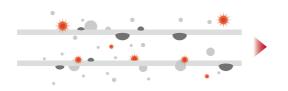
The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger. These germs can spread when the heat exchanger is wet.



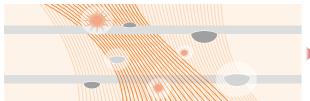
Cleans Filter with Regular Airflow

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





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



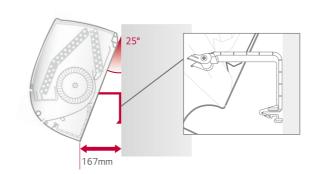


The indoor environment remains odorless with the advanced deodorizing function.

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

Installation Support Clip

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



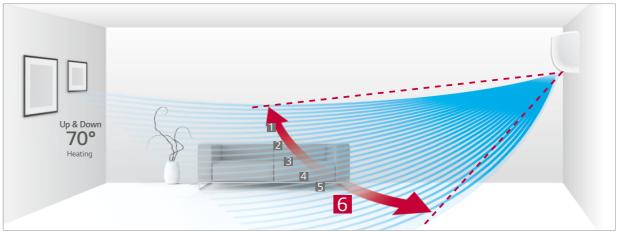
Auto Swing

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

* Specifications may vary for each model.

6-Step Vane Control up to 70°

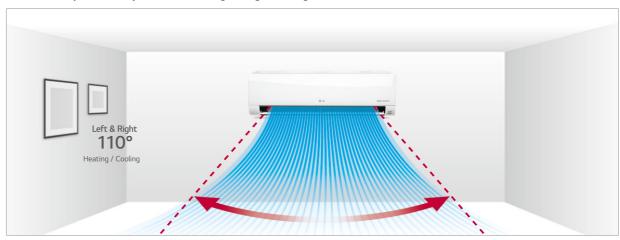
The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



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

Control up to 110°

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



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

Easy and Simple Control

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

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



Up / Down Swing

COMFORT

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.

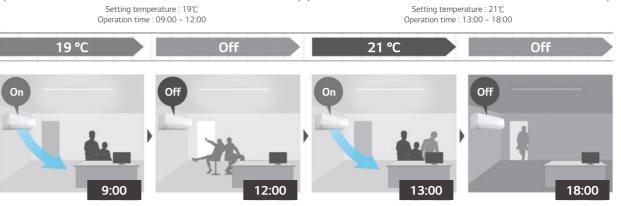
** This function is for wired remote controller only.

** Wired remote controller is need to be separately purchased.

Schedule 1

Setting temperature: 19°C

Setting temperature: 21°C



Two Thermistors Control

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



Group Control

Group control by remote controller (PREMTB100 /PREMTBB10) has more functions than previous model.



ARNU18GSKR4 / ARNU24GSKR4



ARNU05GSJR4 / ARNU07GSJR4

ARNU09GSJR4 / ARNU12GSJR4

ARNU15GSJR4

	MODEL	UNIT	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Cooling Capa	city	kW	1.6	2.2	2.8	3.6	4.5
Heating Capa	city	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 Colo	r		Mirror (Black)				
RAL Code			RAL 9005				
Dimensions	Body	mm	837 x 308 x 192				
$(W \times H \times D)$	Shipping	mm	892 x 381 x 249				
	Туре		Cross Flow Fan				
Fan	Motor Output x Number	W x No.	30 x 1				
FdII	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
р:	Liquid Side	mm (inch)	Ø6.35 (1/4)				
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)				
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)				
Weight	Body	kg	9.2	9.2	9.2	9.2	9.2
Sound Pressu	re 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	1	Ø, V, Hz	1, 220-230-240, 50/60				
Transmission	Cable	mm ²	1.0 ~ 1.5 x 2C				

Note:

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

CHASSIS	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit			PRGK024A0		
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	0				
Ion Generator	0				
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)	0				
Wi-Fi			0		

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



	MODEL	UNIT	ARNU18GSKR4	ARNU24GSKR4
Cooling Capa	city	kW	5.6	7.1
Heating Capa	city	kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Colo	r		Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005
Dimensions	Body	mm	998 x 345 x 212	998 x 345 x 212
(W x H x D)	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
	Туре		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	58 x 1	58 x 1
Ган	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	14.0 / 12.0 / 10.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Di-	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16(5/8)	Ø16(5/8)
Weight	Body	kg	13.4	13.4
Sound Pressu	re Levels (H / M / L)	dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power	Levels (H / M / L)	dB(A)	59 / 56 / 52	63 / 58 / 52
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	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 termp. 27°(8.0.5°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

CHASSIS	ARNU18GSKR4	ARNU24GSKR4		
Drain Pump	-			
Cassette Cover	-	-		
Refrigerant Leakage Detector	PRLD	NVS0		
EEV Kit	PRGKO	024A0		
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 of PDRYCB400 (2 points input			
External Input (1 point)				
Wi-Fi				

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

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STANDARD

ARNU07GSF14 / ARNU09GSF14 ARNU12GSF14



	MODEL	UNIT	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Cooling Capac	city	kW	2.2	2.8	3.6
Heating Capa	city	kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12
Dimensions	Body	mm	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
$(W \times H \times D)$	Shipping	mm	685 x 670 x 215	685 x 670 x 215	685 x 670 x 215
	Туре		Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
В:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	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 Pressu	re Levels (H / M / L)	dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power Levels (H / M / L) dB(A)		dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 48 / 42
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

CHASSIS	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14		
Drain Pump		-			
Cassette Cover	-				
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit		PRGK024A0			
Multi-tenant Power Module		PINPMB001			
Robot Cleaner	-				
Pre Filter (Washable)	0				
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)	0				
Wi-Fi		PWFMDD200 ¹⁾			

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

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



	MODEL	UNIT	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Cooling Capa	city	kW	1.6	2.2	2.8	3.6	4.5
Heating Capa	icity	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 Colo	r		White	White	White	White	White
RAL Code			RAL 9016				
Dimensions	Body	mm	818 x 316 x 189				
$(W \times H \times D)$	Shipping	mm	892 x 381 x 249				
	Туре		Cross Flow Fan				
_	Motor Output x Number	W x No.	30 x 1				
Fan	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
	Liquid Side	mm (inch)	Ø6.35 (1/4)				
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)				
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)				
Weight	Body	kg	8.4	8.4	8.4	8.4	8.4
Sound Pressu	re 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	,	Ø, V, Hz	1, 220-230-240, 50/60				
Transmission	Cable	mm ²	1.0 ~ 1.5 × 2C				

 $[\]ensuremath{^\star}$: N or C can be applied which has little bit different shape of panel.

Accessories

CHASSIS	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNVS0		
EEV Kit			PRGK024A0		
Multi-tenant Power Module			PINPMB001		
Robot Cleaner					
Pre Filter (Washable)	0				
Ion Generator	0				
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)	0				
Wi-Fi			0		

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

130 I 131 INDOOR UNITS SPECIFICATIONS

^{*:} Nor C can De applied while the second of the second of



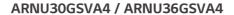
	MODEL	UNIT	ARNU18GSK*4	ARNU24GSK*4
Cooling Capacity		kW	5.6	7.1
Heating Capa	city	kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Colo	r		White	White
RAL Code			RAL 9016	RAL 9016
Dimensions	Body	mm	975 x 354 x 209	975 x 354 x 209
$(W \times H \times D)$	Shipping	mm	1,063 x 420 x 274	1,063 x 420 x 274
	Туре		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	58 x 1	58 x 1
гап	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
р.	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
Connections	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	r	Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	mm ²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

 $[\]mbox{\ensuremath{\star}}$: N or C can be applied which has little bit different shape of panel.

Accessories

CHASSIS	ARNU18GSK*4	ARNU24GSK*4	
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector	PRLD	NVS0	
EEV Kit	PRGKI	D24A0	
Multi-tenant Power Module	PINPN	ЛВ001	
Robot Cleaner		-	
Pre Filter (Washable)	0		
Ion Generator	0		
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)	0		
Wi-Fi			

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





	MODEL	UNIT	ARNU30GSVA4	ARNU36GSVA4
Cooling Capa	city	kW	8.8	10.4
Heating Capa	city	kW	9.4	10.8
Power Input (H / M / L)	Nominal	W	54 / 43 / 31	85 / 51 / 36
Exterior Colo	r		White	White
RAL Code			RAL 9016	RAL 9016
Dimensions	Body	mm	1,190 x 346 x 265	1,190 x 346 x 265
$(W \times H \times D)$	Shipping	mm	1,265 x 432 x 335	1,265 x 432 x 335
	Туре		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	113 x 1	113 x 1
FdII	Air Flow Rate (H / M / L)	m³/min	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
D:	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	16.6	16.6
Sound Pressu	re Levels (H / M / L)	dB(A)	49 / 44 / 42	52 / 47 / 43
Sound Power	Levels (H / M / L)	dB(A)	60 / 60 / 56	63 / 60 / 58
Power Supply		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	mm ²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

Note:

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

CHASSIS	ARNU30GSVA4	ARNU36GSVA4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector	PRLD	NVS0
EEV Kit		-
Multi-tenant Power Module	PINPN	//В001
Robot Cleaner		-
Pre Filter (Washable))
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		contact), PDRYCB320, ut), PDRYCB500 (Modbus)
External Input (1 point)		
Wi-Fi	PWFMI	DD200 ¹⁾

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

INDOOR UNITS SPECIFICATIONS 132 I 133

^{*:} Nor C can be applied which is a second se

NEW DESIGN 4 Way **Dual Vane**

4 Way Air Flow with New Design

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



*New types wind





Fresh and Natural

Smart Mode

Fast and Quick

Indirect Wind

*6 Airflows mode

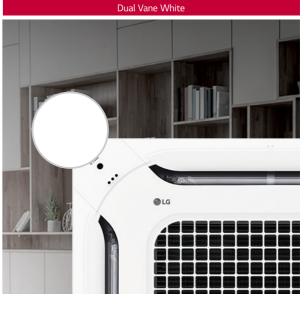
Up / Down Swing

Indirect cooling & Heating Suitable for High Ceiling Provide high concentration

Brighter Color

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







- 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 Hotel
- Dormitory School
- Office Restaurant

	CASSETTE	4 WAY	2 WAY	1 WAY
Smart	Wi-Fi	0	0	0
Energy Efficiency	Human Detect Sensor	0	-	-
	Drain Pump	0	0	0
	Sleep Mode	0	0	0
Comfort	Timer (On / Off)	0	0	0
Comfort	Timer (Weekly)	0	0	0
	Two Thermistor Control	0	0	0
	Group Control	0	0	0

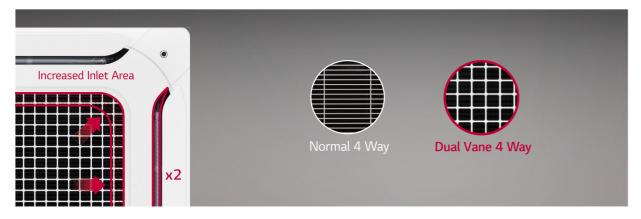
※ ○: Applied, - : Not applied

SMART

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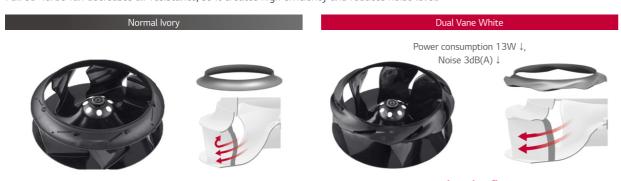
Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



Full 3D Turbo Fan

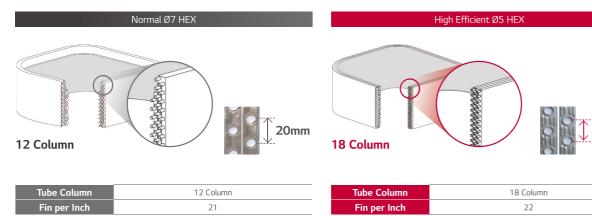
Full 3D Turbo fan decreases air resistance, so it creates high efficiency and reduces noise level.



Improved outlet flow rate

High Efficiency Heat Exchanger (HEX)

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



Ceiling to Floor Temperature Sensing

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



Human Detection Air Flow

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

Indirect comfort

Provides air flow that blows away from user for comfort.



Direct cooling

Provides air flow that blows directly onto user for cooling.



Human Detection for Optimized Efficiency

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



Smart Dual Vane Indoor Unit '19 Line up.

[※] Small bodal varie indoor office 19 time up.
※ Data Based on actual test of LG, single product 2 hours measurement result. (Cooling 26 ℃, strong wind)

Air cleaning function provides fresh, filtered air.

High-performance Air Cleaning



Convenient & Powerful 5-Step Air Purification

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



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

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

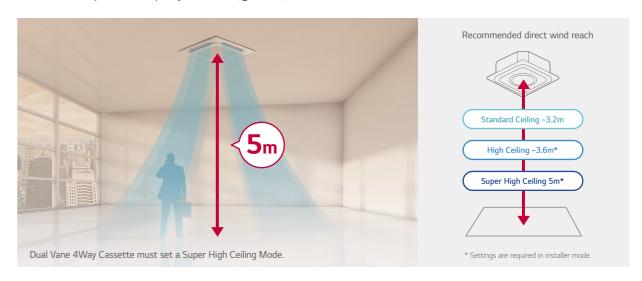


Anytime, anywhere access to check & control air status via mobile



Direct Wind

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



ThinQ Connectivity

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



- $\ensuremath{\textcircled{1}}$ 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

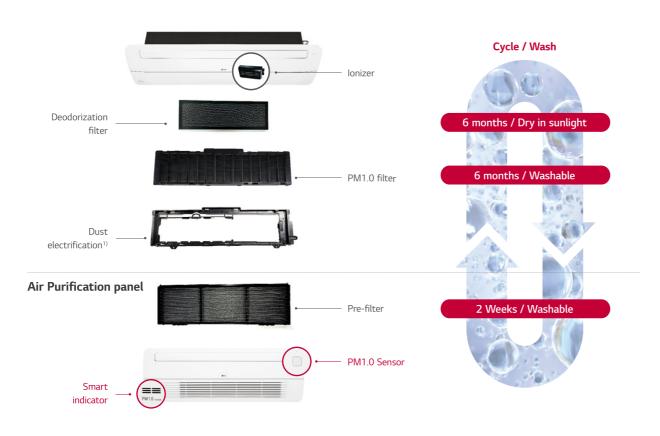
- Check energy display
- \bullet Set target energy consumption level

INSTALLATION

Easy Filter Cleaning for Air Purification

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

Air Purification kit



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

Direct & Indirect Wind

Provides users with direct or indirect air flow preferences.

Comfort indirect wind

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

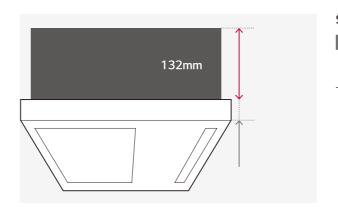


Cooler on a hot day.



Minimized Height (1 Way)

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

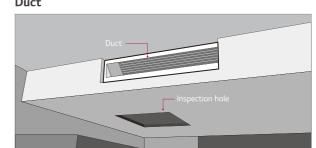


Size Colliparis	(Unit:mm)		
	A Company	B company	LG
1 Way Cassette	215	230	132

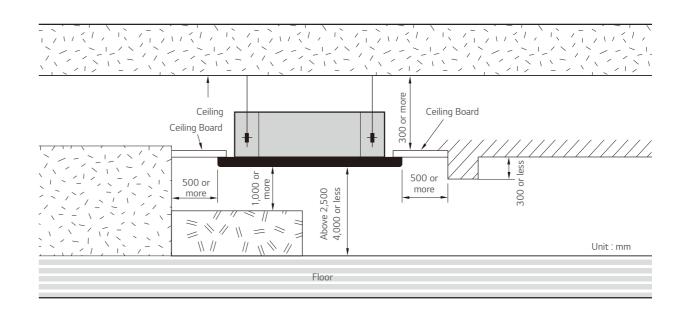
Flexible Installation (1 Way)

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

1 Way cassette



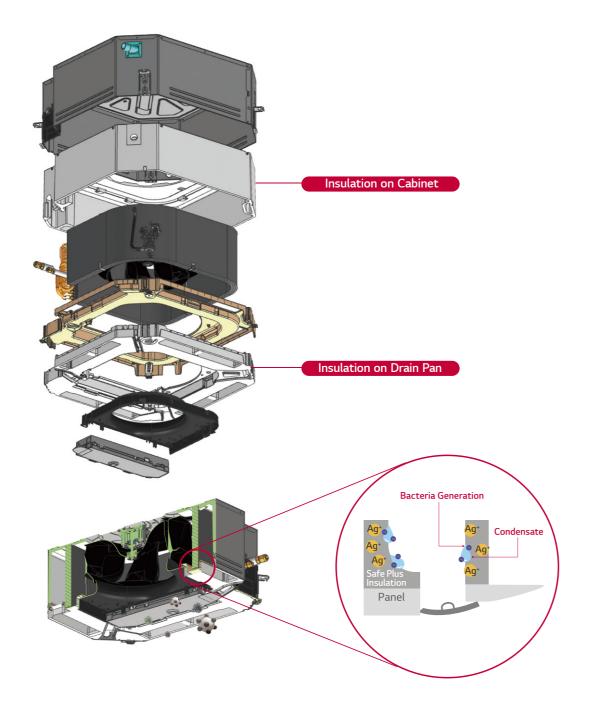
Installation Standard (1 Way)



Safe Plus Insulation

Why LG Safe Plus Insulation?

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





What's the hygiene inside of your air conditioner?





Example of EPS Pollution case.

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

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

EPS for Resistant to Bacterial Growth applied product











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DUAL VANE

ARNU24GTBB4 / ARNU28GTBB4 ARNU30GTBB4



	MODEL	UNIT	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Cooling Capaci	ty	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	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
$(W \times H \times D)$	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917
	Туре		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
Fan	Air Flow Rate (H / M / L)	m³/min	18 / 17 / 15	19 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	21	21	21
Sound Pressure	e Level (H / M / L)	dB(A)	39 / 37 / 35	40 / 38 / 35	43 / 40 / 36
Sound Power L	evel (H / M / L)	dB(A)	46 / 44 / 42	50 / 46 / 43	53 / 50 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication	n 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
	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
Decoration	Exterior Color		White	White	White
Panel	RAL Code		RAL 9003	RAL 9003	RAL 9003
(Accessory)	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

Note:

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

CHASSIS	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4		
Drain Pump	0				
Cassette Cover		PTDCM			
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit		-			
Multi-tenant Power Module		PINPMB001			
Robot Cleaner		-			
Pre Filter (Washable)		0			
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)		0			
Wi-Fi		PWFMDD200			
Human Detection Sensor	PTVSAA0				
Floor Temperature Sensor		○ (only with PT-AFGW0)			
Air Purification Kit	F	TAFMP0 (PT-AFGW0 panel require	d)		
Elevation Grille					

ARNU36GTAB4 / ARNU42GTAB4 ARNU48GTAB4



	MODEL	UNIT	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Cooling Capac	ity	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	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
(W x H x D)	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
	Туре		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
Fan	Air Flow Rate (H / M / L)	m³/min	29 / 26 / 22	33 / 29 / 26	34 / 30 / 28
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	26	26	26
Sound Pressur	re Level (H / M / L)	dB(A)	43 / 40 / 37	47 / 43 / 40	48 / 44 / 42
Sound Power I	Level (H / M / L)	dB(A)	54 / 51 / 47	56 / 53 / 49	58 / 54 / 53
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communicatio	n Cable (VCTF-SB)	mm² x cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
Decoration	Exterior Color		White	White	VVhite
Panel	RAL Code		RAL 9003	RAL 9003	RAL 9003
(Accessory)	Net Dimensions (W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4			
Drain Pump	0					
Cassette Cover	PTDCM					
Refrigerant Leakage Detector		PRLDNVS0				
EEV Kit		-				
Multi-tenant Power Module		PINPMB001				
Robot Cleaner		-				
Pre Filter (Washable)		0				
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)		0				
Wi-Fi		PWFMDD200				
Human Detection Sensor	PTVSAA0					
Floor Temperature Sensor	○ (only with PT-AFGW0)					
Air Purification Kit	PTAFMPO (PT-AFGWO panel required)					
Elevation Grille		-				

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DUAL VANE

High sensible

ARNU05GTAA4 / ARNU07GTAA4 / ARNU09GTAA4 ARNU12GTAA4 / ARNU15GTAA4 / ARNU18GTAA4



	MODEL	UNIT	ARNU05GTAA4	ARNU07GTAA4	ARNU09GTAA4	ARNU12GTAA4	ARNU15GTAA4	ARNU18GTAA4
Cooling Capacit	ty	kW	1.6	2.2	2.8	3.6	4.5	5.6
Heating Capaci	ty	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	Body	mm	840 x 288 x 840					
$(W \times H \times D)$	Shipping	mm	922 x 360 x 917					
	Туре		Full 3D Turbo Fan					
	Motor Output x Number	W	166 x 1					
Fan	Running Current	Α	0.21	0.23	0.25	0.25	0.27	0.28
	Air Flow Rate (H / M / L)	m³/min	18 / 15 / 13	19 / 16 / 13	19 / 16 / 13	20 / 17 / 15	20 / 17 / 15	21 / 19 / 16
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter					
	Liquid Side	mm (inch)	Ø9.52 (3/8)					
Pipe	Gas Side	mm (inch)	Ø15.88 (5/8)					
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)					
Weight	Body	kg	26	27	27	27	27	27
Sound Pressure	e 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 L	evel (H / M / L)	dB(A)	40 / 37 / 36	41 / 38 / 36	42 / 39 / 36	42 / 40 / 37	43 / 40 / 38	44 / 41 / 38
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication	Cable (VCTF-SB)	mm ² x cores	1.0 ~ 1.5 x 2	1.0~1.5 x 2	1.0 ~ 1.5 x 2			
	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
Decoration	Exterior Color		White	White	White	White	White	White
Panel	RAL Code		RAL 9003					
(Accessory)	Net Dimensions (W x H x D)	mm	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. 27C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

CHASSIS	ARNU05GTAA4 ARNU07GTAA4 ARNU09GTAA4 ARNU12GTAA4 ARNU15GTAA4 ARNU18GTAA4				
Drain Pump	0				
Cassette Cover	PTDCM				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit					
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	0				
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)	0				
Wi-Fi	PWFMDD200				
Human Detection Sensor	PTVSAA0				
Floor Temperature Sensor	○ (only with PT-AFGW0)				
Air Purification Kit	PTAFMPO (PT-AFGWO panel required)				
Elevation Grille	· ·				

High sensible

ARNU24GTAA4 / ARNU28GTAA4 / ARNU36GTAA4 ARNU42GTAA4 / ARNU48GTAA4



	MODEL	UNIT	ARNU24GTAA4	ARNU28GTAA4	ARNU36GTAA4	ARNU42GTAA4	ARNU48GTAA4
Cooling Capaci	ity	kW	7.1	8.2	10.6	12.3	14.1
Heating Capac	ity	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	Body	mm	840 x 288 x 840				
(W x H x D)	Shipping	mm	922 x 360 x 917				
	Туре		Full 3D Turbo Fan				
	Motor Output x Number	W	166 x 1				
Fan	Running Current	Α	0.38	0.46	0.60	0.80	0.88
	Air Flow Rate (H / M / L)	m³/min	23 / 21 / 19	24 / 22 / 20	28 / 24 / 21	31 / 28 / 24	33 / 28 / 26
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
	Liquid Side	mm (inch)	Ø9.52 (3/8)				
Pipe	Gas Side	mm (inch)	Ø15.88 (5/8)				
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)				
Weight	Body	kg	27	27	27	27	27
Sound Pressure	e Level (H / M / L)	dB(A)	39 / 36 / 33	40 / 37 / 34	42 / 39 / 35	46 / 42 / 39	47 / 43 / 41
Sound Power L	evel (H / M / L)	dB(A)	47 / 45 / 42	48 / 46 / 42	51 / 48 / 44	54 / 51 / 48	56 / 52 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication	n 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
	Model Name		PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0	PT-AAGW0 PT-AFGW0
Decoration	Exterior Color		White	White	White	White	White
Panel	RAL Code		RAL 9003				
(Accessory)	Net Dimensions (W x H x D)	mm	950 x 35 x 950				
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5

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

Accessories

CHASSIS	ARNU24GTAA4 ARNU28GTAA4 ARNU36GTAA4 ARNU42GTAA4 ARNU48GTAA4
Drain Pump	0
Cassette Cover	PTDCM
Refrigerant Leakage Detector	PRLDNVS0
EEV Kit	· ·
Multi-tenant Power Module	PINPMB001
Robot Cleaner	· ·
Pre Filter (Washable)	0
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)	0
Wi-Fi	PWFMDD200
Human Detection Sensor	PTVSAA0
Floor Temperature Sensor	○ (only with PT-AFGW0)
Air Purification Kit	PTAFMP0 (PT-AFGW0 panel required)
Elevation Grille	· ·

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4 WAY CASSET

ARNU05GTRB4 / ARNU07GTRB4 ARNU09GTRB4 / ARNU12GTRB4



	MODEL	UNIT	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capac	city	kW	1.6	2.2	2.8	3.6
Heating Capa	city	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	Body	mm	570 x 214 x 570			
(W x H x D)	Shipping	mm	667 x 285 x 646			
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1
ıaıı	Air Flow Rate (H / M / L)	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
D:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	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 Pressu	re Levels (H / M / L)	dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27
Sound Power	Levels (H / M / L)	dB(A)	47 / 46 / 45	47 / 46 / 45	48 / 46 / 45	51 / 48 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm ²	1.0 ~ 1.5 x 2C			
	Model Name		PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0	PT-UQC PT-QCHW0 PT-QAGW0
Decoration	Exterior Color		Morning Fog Morning Fog White	Morning Fog Morning Fog White	Morning Fog Morning Fog White	Morning Fog Morning Fog White
(1000001)	RAL Code		RAL 9001 RAL 9001 RAL 9003			
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620	700 x 22 x 700 620 x 34 x 620 620 x 35 x 620
	Net Weight	kg	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9	3.2 / 3.0 / 2.9

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

Accessories

CHASSIS	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4		
Drain Pump	0					
Cassette Cover		PTI	OCQ			
Refrigerant Leakage Detector		PRLD	NVS0			
EEV Kit		PRGK024A	0 (~4.5kW)			
Multi-tenant Power Module	PINPMB001					
Robot Cleaner	· ·					
Pre Filter (Washable)	0					
Ion Generator			-			
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)	0					
Wi-Fi		PWFM	DD200			

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

ARNU15GTQB4 / ARNU18GTQB4 ARNU21GTQB4



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

Note:

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

CHASSIS	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4				
Drain Pump		0					
Cassette Cover		PTDCQ					
Refrigerant Leakage Detector		PRLDNVS0					
EEV Kit		PRGK024A0 (~4.5kW)					
Multi-tenant Power Module		PINPMB001					
Robot Cleaner	·						
Pre Filter (Washable)	0						
Ion Generator		-					
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)	0						
Wi-Fi		PWFMDD200					

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

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	MODEL	UNIT	ARNU09GTSC4	ARNU12GTSC4
Cooling Capa	Cooling Capacity		2.8	3.6
Heating Capa	city	kW	3.2	4.0
Power Input (H / M / L)			16 / 14 / 11	18 / 14 / 11
Dimensions	Body	mm	830 x 225 x 600	830 x 225 x 600
$(W \times H \times D)$	Shipping	mm	1,055 × 290 × 682	1,055 × 290 × 682
	Туре		Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W x No.	37 x 1	37 x 1
I dii	Air Flow Rate (H / M / L)	m³/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
ъ.	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressu	re 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	1	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communicati	on Cable	mm ²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Model Name		PT-USC	PT-USC
Decoration	Exterior Color		Morning Fog	Morning Fog
Panel	RAL Code		RAL 9001	RAL 9001
(Accessory)	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	4.7

Note:

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

Accessories

CHASSIS	ARNU09GTSC4	ARNU12GTSC4	
Drain Pump	0		
Cassette Cover		-	
Refrigerant Leakage Detector	PRLD	NVS0	
EEV Kit	PRGK024A	0 (~5.6kW)	
Multi-tenant Power Module	PINPN	ЛВ001	
Robot Cleaner	-		
Pre Filter (Washable)	0		
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)	0		
Wi-Fi	PWFM	DD200	

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



	MODEL	UNIT	ARNU18GTSC4	ARNU24GTSC4
Cooling Capacity		kW	5.6	7.1
Heating Capa	city	kW	6.3	8.0
Power Input (H / M / L)	Nominal	W	19 / 16 / 14	31 / 22 / 14
Dimensions	Body	mm	830 x 225 x 600	830 x 225 x 600
(W x H x D)	Shipping	mm	1,055 × 290 × 682	1,055 × 290 × 682
	Туре		Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W x No.	37 x 1	37 x 1
I dii	Air Flow Rate (H / M / L)	m³/min	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
D:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	18.1	18.1
Sound Pressu	re Levels (H / M / L)	dB(A)	35 / 33 / 31	40 / 37 / 33
Sound Power	Levels (H / M / L)	dB(A)	45 / 44 / 41	51 / 48 / 42
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Communication	on Cable	mm ²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C
	Model Name		PT-USC	PT-USC
Decoration	Exterior Color		Morning Fog	Morning Fog
Panel	RAL Code		RAL 9001	RAL 9001
(Accessory)	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. 27C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

	ADMILLAGOTEGA	4 DANI 12 4 GTG 6	
Chassis	ARNU18GTSC4	ARNU24GTSC4	
Drain Pump		O	
Cassette Cover		-	
Refrigerant Leakage Detector	PRLD	NVS0	
EEV Kit	PRGK024A	.0 (~5.6kW)	
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	0		
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)	0		
Wi-Fi	PWFM	DD200	

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

INDOOR UNITS SPECIFICATIONS 150 I 151 ARNU07GTUB4 / ARNU09GTUB4

ARNU12GTUB4

CEILING MOUNTED CASSETTE

ARNU18GTTB4 / ARNU24GTTB4



	MODEL	UNIT	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4
Cooling Capa	city	kW	2.2	2.8	3.6
Heating Capa	city	kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20
Dimensions	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450
$(W \times H \times D)$	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538
	Туре		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
F	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.2	12.2	12.2
Sound Pressu	re 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	1	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm ²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Model Name		PT-UAHGO, PT-UAHWO, PT-UPHGO	PT-UAHGO, PT-UAHWO, PT-UPHGO	PT-UAHGO, PT-UAHWO, PT-UPHGO
	Exterior Color		Noble White	Noble White	Noble White
Decoration Panel	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

Accessories

CHASSIS	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4		
Drain Pump		0			
Cassette Cover		-			
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit	PRGK024A0				
Multi-tenant Power Module		PINPMB001			
Robot Cleaner		-			
Pre Filter (Washable)	0				
Ion Generator					
CO ₂ Sensor	·				
Ventilation Kit		-			
IR Receiver		-			
Zone Controller		-			
Dry Contact (with additional accessory)		YCB000 (1 point contact), PDRYCB 400 (2 points input), PDRYCB500 (
External Input (1 point)		0			
Air Cleaning Kit	PTAHTP0				
Wi-Fi		PWFMDD200			

Accessories

CHASSIS	ARNU18GTTB4	ARNU24GTTB4
Drain Pump	0	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	0	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB400 (2 points input), PDRY	
External Input (1 point)	0	
Air Cleaning Kit	PTAHTP0	
Wi-Fi	PWFMDD200	

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

^{※ ○ :} 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

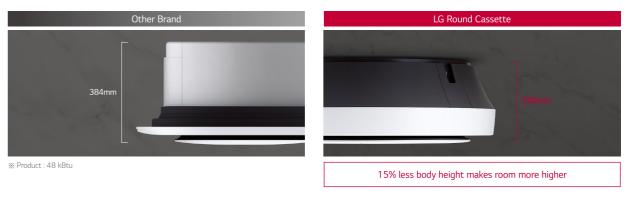
 Retail Office Restaurant Hotel

	CASSETTE	ROUND
Smart	Wi-Fi	0
Energy Efficiency	Human Detect Sensor	-
	Drain Pump	0
	Sleep Mode	0
Comfort	Timer (On / Off)	0
	Timer (Weekly)	0
	Two Thermistor Control	0
	Group Control	0

※ ○: Applied, - : Not applied

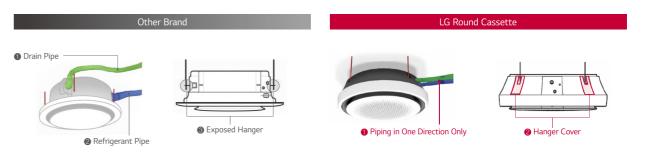
Slim and Compact Design

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



Minimal Exposure Design

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



Perfect Round Air Flow

Perfect round flow without blind spots.

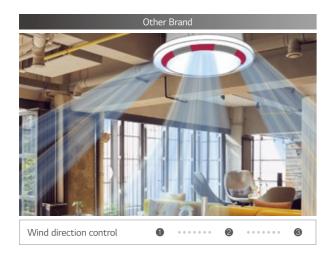


Perfect circular airflow without blind spots. 3 Way airflow with blind spot.

154 I 155 INDOOR UNITS KEY FEATURES

Visible Air Flow

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

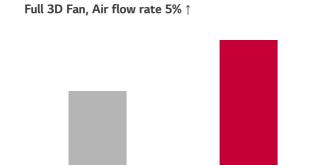




Powerful and Quiet Air Flow

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

New (Round)



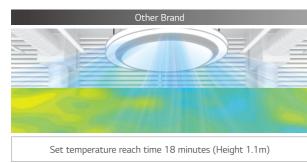




30% Faster in Cooling

Previous (4 Way)

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





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

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



	MODEL	UNIT	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Cooling Capa	city	kW	7.1	10.6	14.1
Heating Capa	city	kW	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	44 / 36 / 29	63 / 47 / 36	98 / 70 / 44
Dimensions	Body	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050
(W x H x D)	Shipping	mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132	1,137 x 395 x 1,132
	Туре		3D Turbo Fan	3D Turbo Fan	3D Turbo Fan
Fan	Motor Output x Number	W	157 x 1	157 x 1	157 x 1
FdII	Air Flow Rate (H / M / L)	m3/min	22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Long life	Long life	Long life
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Drain Pipe(Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	30	30	30
Sound Pressu	re 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	f .	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Communication	on 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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

			45000000000			
CHASSIS	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4			
Drain Pump		0				
Cassette Cover		-				
Refrigerant Leakage Detector		PRLDNVS0				
EEV Kit		-				
Multi-tenant Power Module		PINPMB001				
Robot Cleaner		-				
Pre Filter (Washable)		0				
Ion Generator	-					
CO ₂ Sensor						
Ventilation Kit		-				
IR Receiver		-				
Zone Controller		-				
Dry Contact (with additional accessory)		YCB000 (1 point contact), PDRYCE 400 (2 points input), PDRYCB500 (
External Input (1 Point)		0				
Wi-Fi		PWFMDD200				
Human Detection Sensor		-				
Floor Temperature Sensor		-				
Air Cleaning Kit		-				
Elevation Grille		-				

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



Features & Benefits

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

Key Applications

- Office Retail
- Hotel Residential building

	DUCT	HIGH	MIDDLE	LOW
Smart	Wi-Fi	0	0	0
Energy Efficiency	E.S.P Control	0	0	0
	Drain Pump	0	0	0
	Timer (On / Off)	0	0	0
Comfort	Timer (Weekly)	0	0	0
	Two Thermistor Control	0	0	0
	Group Control	0	0	0

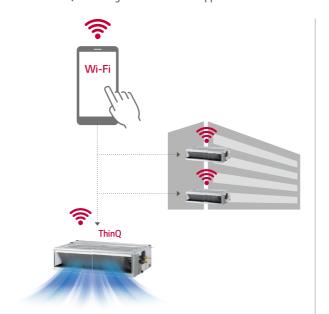
※ ○: Applied, - : Not applied

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.

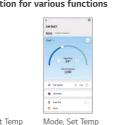


Easy Registration and Log-in

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



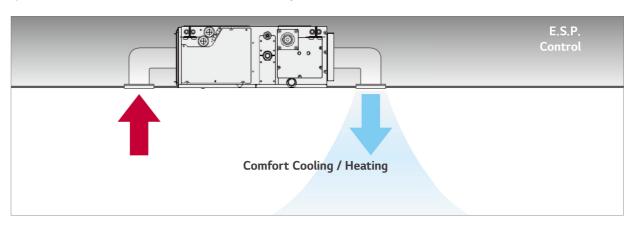
Simple operation for various functions

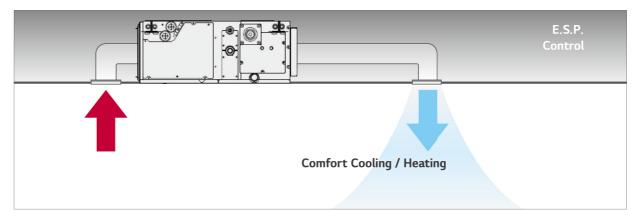


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External Static Pressure (ESP) Control

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





INDOOR UNITS KEY FEATURES

CLEAN AIR

Static Pressure 11- Step Control

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





Energy Monitoring

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

Install Scene





remote controller



electric energy 595kWh





Standard wired remote controller

Total accumulated electric energy 3,977kWh

Apply for multistory building



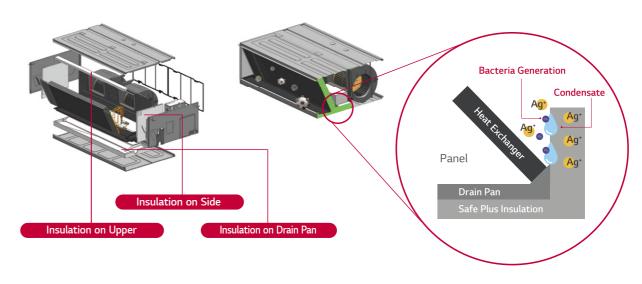


[%] Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

Safe Plus Insulation

Why LG Safe Plus Insulation?

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





What's the hygiene inside of your air conditioner?



Example of EPS Pollution case

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

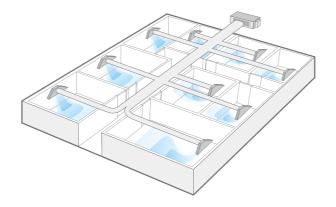
Antimicrobial treatment on *EPS (Cabinet, Drain Pan, Air Guide, Insulator, Supporter) for Air Conditioners is the first applied technology in the world, and only LG has.

INDOOR UNITS KEY FEATURES 160 I 161

COMFORT

Multiple Room Operation

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



Filter Alert

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

Remain Time Until Indoor Filter Cleaning + Alarm



Remain time until indoor filter cleaning 2,400hr.



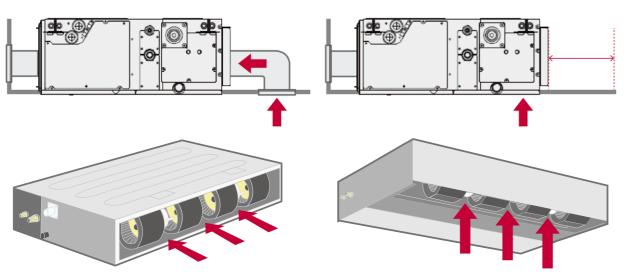
Remain time until indoor filter cleaning 1,729hr.

Flexible Installation

(Low Static Duct Slim Only)

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

Air intake at the rear or bottom



Minimized Height

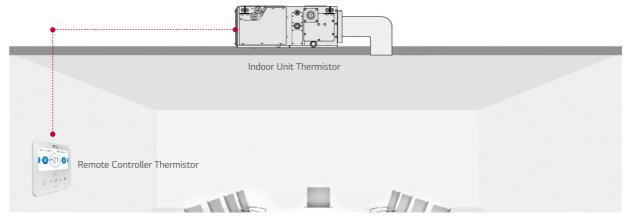
(For Mid Static Duct)

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



Two Thermistors Control

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

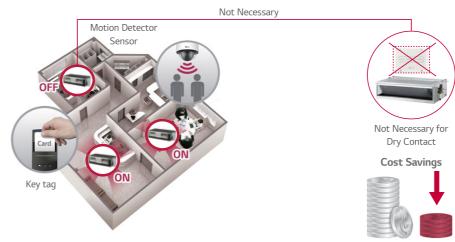


1 Point External Input

(On / Off Control)

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

Connection between an indoor unit and external devices directly





	MODEL	UNIT	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capa	city	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	Body	mm	900 x 270 x 700	900 x 270 x 700				
(W x H x D)	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773				
	Туре		Sirocco Fan	Sirocco Fan				
	Motor Output x Number	W x No.	136 x 1	136 x 1				
	Air Flow Rate (H / M / L)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)	2.5 (25)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter				
	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	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 Pressu	Sound Pressure Levels (H / M / L) dB(26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power	Levels (H / M / L)	dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU07GM1A4 ARNU09GM1A4 ARNU12GM1A4 ARNU15GM1A4 ARNU18GM1A4 ARNU24GM1A4
Drain Pump	0
Cassette Cover	
Refrigerant Leakage Detector	PRLDNVS0
EEV Kit	PRGK024A0 (~5.6kW)
Multi-tenant Power Module	PINPMB001
Robot Cleaner	-
Pre Filter (Washable)	0
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)	0
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 Capa	city	kW	8.2	10.6	12.3	14.1	15.8
Heating Capa	city	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	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
(W x H x D)	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
	Туре		Sirocco Fan				
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	400 x 1	400 x 1
	Air Flow Rate (H / M / L)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
-	Liquid Side	mm (inch)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)				
Weight	Body	kg	36.0	36.0	37.2	42.2	42.2
Sound Pressu	re 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	1	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm ²	1.0 ~ 1.5 x 2C				

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

Accessories

CHASSIS	ARNU28GM2A4 ARNU36GM2A4 ARNU42GM2A4 ARNU48GM3A4 ARNU54GM3A4				
Drain Pump	0				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVSO				
EEV Kit	-				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	0				
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)	0				
Wi-Fi	PWFMDD200				

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

INDOOR UNITS SPECIFICATIONS 164 I 165 **HIGH STATIC**

ARNU05GL4G4 / ARNU07GL4G4 ARNU09GL4G4 / ARNU12GL5G4



	MODEL	UNIT	ARNU76GB8A4	ARNU96GB8A4
Cooling Capa	city	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	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
(W x H x D)	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
	Туре		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	15 (147)	15 (147)
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	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 Pressu	re 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	1	Ø, V, Hz	1, 220-240, 50	1, 220-240, 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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU76GB8A4 ARNU96GB8A4
Drain Pump	0
Cassette Cover	-
Refrigerant Leakage Detector	PRLDNVS0
EEV Kit	0
Multi-tenant Power Module	PINPMB001
Robot Cleaner	-
Pre Filter (Washable)	0
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)	0
Wi-Fi	PWFMDD200

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



	MODEL	UNIT	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
Cooling Capa	city	kW	1.8	2.2	2.8	3.6
Heating Capa	city	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	Body	mm	700 x 190 x 460	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460
(W x H x D)	Shipping	mm	925 x 255 x 561	925 x 255 x 561	925 x 255 x 561	1,125 x 255 x 561
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1	19 x 1+5x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	7.0 / 6.5 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0(0)	0(0)	0(0)	0(0)
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Pipe Connections	Gas Side	mm (inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
Connections	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 Pressu	re 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		Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

CHASSIS	ARNU05GL4G4	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4		
Drain Pump	0					
Cassette Cover		-				
Refrigerant Leakage Detector		PRLDN	IVS0			
EEV Kit		PRGK024A0 (ARN	U**GL4G4 Only)			
Multi-tenant Power Module		PINPM	B001			
Robot Cleaner	-					
Pre Filter (Washable)	0					
Ion Generator		-				
CO ₂ Sensor		-				
Ventilation Kit		-				
IR Receiver		PWLRV	N000			
Zone Controller		-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)	0					
Wi-Fi		PWFMD	D200			

INDOOR UNITS SPECIFICATIONS

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

HIGH SENSIBLE

ARNU07GM2A4 / ARNU09GM2A4 ARNU12GM2A4 / ARNU15GM2A4

ARNU18GM3A4



	MODEL	UNIT	ARNU07GM2A4	ARNU09GM2A4	ARNU12GM2A4	ARNU15GM2A4	ARNU18GM3A4
Cooling Capa	city	kW	2.2	2.8	3.6	4.5	5.6
Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3
Power Input (H / M / L)		W	32 / 29 / 27	32 / 29 / 27	33 / 30 / 28	33 / 30 / 28	97 / 70 / 51
Dimensions (W x H x D)	Body	mm	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 360 × 700
	Туре		Sirocco Fan				
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	350 x 1	500 x 1
_	Air Flow Rate (H / M / L) (High static Mode - factory set)	m³/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
Fan	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	6 (59)	6 (59)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	13.3 / 9.4 / 6.8	13.3 / 9.4 / 6.8	14.8 / 10.2 / 7.4	14.8 / 10.2 / 7.4	32.7 / 26.7 / 23.0
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	5 (49)	5 (49)	5 (49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
	Liquid Side	mm (inch)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)				
Connections	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	25 (1)	25 (1)
Net Weight		kg	36	36	36	36	44
Sound Pressu	re Levels (H / M / L)	dB(A)	33 / 33 / 32	33 / 33 / 32	34 / 33 / 32	34 / 33 / 32	38 / 36 / 34
Sound Power	Levels (H / M / L)	dB(A)	52 / 52 / 52	52 / 52 / 52	53 / 52 / 52	53 / 52 / 52	52 / 51 / 50
Power Supply	,	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm²	1.0 ~ 1.5 x 2C				

- 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. 3°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			0				
Cassette Cover			-				
Refrigerant Leakage Detector		PRLDNVS0					
EEV Kit							
Multi-tenant Power Module		PINPMB001					
Robot Cleaner		-					
Pre Filter (Washable)		0					
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)		0					
Wi-Fi		PWFMDD200					

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

ARNU15GL5G4 / ARNU18GL5G4

ARNU21GL6G4 / ARNU24GL6G4

	MODEL	UNIT	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4
Cooling Capa	city	kW	4.5	5.6	6.3	7.1
Heating Capa	city	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	Body	mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460	1,100 x 190 x 460
(W x H x D)	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
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1+5x 1	19 x 1+5x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	1 (10)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0(0)	0(0)	0(0)	0(0)
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)
Pipe Connections	Gas Side	mm (inch)	12.7(1/2)	12.7(1/2)	15.88(5/8)	15.88(5/8)
Connections	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 Pressu	ıre Levels (H / M / L)	dB(A)	32 / 29 / 27	35 / 32 / 29	35 / 30 / 29	36 / 33 / 29
Sound Power	Levels (H / M / L)	dB(A)	38.4 / 35.1 / 32.7	42.1 / 38.4 / 35.1	42.5 / 38.3 / 36.0	45.0 / 40.7 / 36.0
Power Supply	/	Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Transmission	Cable	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. Performance tested under EN14511
- 1. Performance tested under ENT4511
 2. Capacities are based on the following conditions
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU15GL5G4	ARNU18GL5G4	ARNU21GL6G4	ARNU24GL6G4		
Drain Pump	0					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNVS0					
EEV Kit		-				
Multi-tenant Power Module	PINPMB001					
Robot Cleaner	·					
Pre Filter (Washable)		0				
Ion Generator		-				
CO ₂ Sensor		-				
Ventilation Kit		-				
IR Receiver		PWLRV	N000			
Zone Controller		-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)					
External Input (1 point)		O				
Wi-Fi		PWFMD	D200			

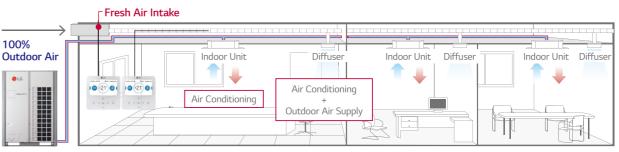
※ ○ : Applied, - : Not applied Option : Refer to model name in table

INDOOR UNITS SPECIFICATIONS

FRESH AIR INTAKE

Fresh Outdoor Air Supply

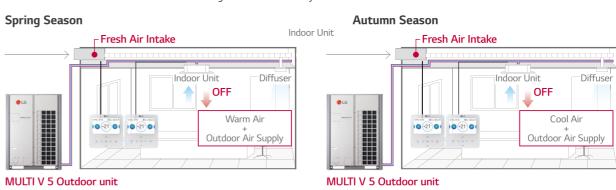
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as and simultaneously cools and heats the air inside. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated air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



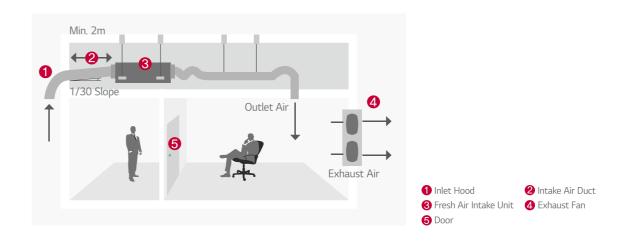
MULTI V 5 Outdoor unit

Economic Operation

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



Installation Scene



ARNU36GB8A4 / ARNU42GB8A4 ARNU48GB8A4

ARNU24GM3A4 / ARNU28GM3A4



	MODEL	UNIT	ARNU24GM3A4	ARNU28GM3A4	ARNU36GB8A4	ARNU42GB8A4	ARNU48GB8A4
Cooling Capa	city	kW	7.1	8.2	10.6	12.3	14.1
Heating Capa	city	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
	Туре		Sirocco Fan				
	Motor Output x Number	W x No.	500 x 1	500 x 1	375 x 2	375 x 2	375 x 2
_	Air Flow Rate (H / M / L) (High static Mode - factory set)	m³/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	49.0 / 37.3 / 30.2	54.2 / 41.3 / 31.8	57.2 / 43.0 / 34.0
Fan	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	18 (176)	18 (176)	18 (176)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	35.5 / 30.6 / 26.2	35.5 / 30.6 / 26.2	53.7 / 49.5 / 43.9	55.6 / 50.6 / 45.0	58.0 / 52.3 / 47.3
	External Static Pressure	mmAq (Pa)	5 (49)	5 (49)	9 (88)	9 (88)	9 (88)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	-	-	-
	Liquid Side	mm (inch)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
Connections	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 Pressu	re Levels (H / M / L)	dB(A)	39 / 37 / 35	39 / 37 / 35	46 / 45 / 42	47 / 46 / 43	47 / 46 / 44
Sound Power	Levels (H / M / L)	dB(A)	53 / 52 / 51	53 / 52 / 51	65 / 64 / 62	66 / 65 / 63	66 / 65 / 64
Power Supply	,	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm²	1.0 ~ 1.5 x 2C				

- 1. 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	0	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	0	
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)	0	
Wi-Fi	PWFMDD200	

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

ARNU76GB8Z4 / ARNU96GB8Z4



	MODEL	UNIT	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity kW		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	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
(W x H x D)	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
	Туре		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 1	375 x 1
Fan	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	External Static Pressure	mmAq (Pa)	22 (216)	22 (216)
	Motor Type		BLDC	BLDC
Air Filter			Long Life Filter	Long Life Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	73.0	73.0
Sound Pressure Levels (H / M / L) dE		dB(A)	45 / 43 / 43	47 / 45 / 45
Sound Power	Levels (H / M / L)	dB(A)	70 / 67 / 67	72 / 70 / 70
Power Supply	/	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

▲ CAUTION

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

NO CONNECTION CONDITION		COMBINATION
1 Fresh air intake units only are connected with outdoor units		1) The total capacity of fresh air intake unit should be $50 \sim 100\%$ 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	0	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDN	IVS0
EEV Kit	-	
Multi-tenant Power Module	PINPMI	3001
Robot Cleaner	-	
Pre Filter (Washable)	0	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRV	N000
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	0	
Wi-Fi	PWFMD	D200

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





Wi-Fi Control

Access your air conditioner anytime and from anywhere.

ThinQ

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



Easy Registration and Log-in

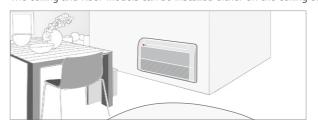
Follow the easy set-up steps that will activate ThinQ's impressive feature.



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

Flexible

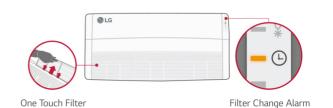
The ceiling and floor models can be installed either on the ceiling or on the floor.





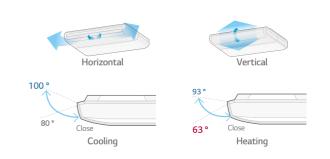
Filter Change Alarm

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



Air Flow Direction Control

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





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

C	EILINGS	CEILING & FLOOR CONVERTIBLE	CEILING SUSPENDED
Smart	Wi-Fi	0	0
Fast Cooling & Heating	Jet Cool	0	0
	Sleep mode	0	0
	Timer (On / Off)	0	0
Comfort	Timer (Weekly)	0	0
	Two thermistor control	0	0
	Group control	0	0

※ ○: Applied, - : Not applied

INDOOR UNITS KEY FEATURES

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



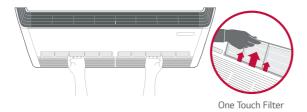
Powerful Cooling & Heating

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



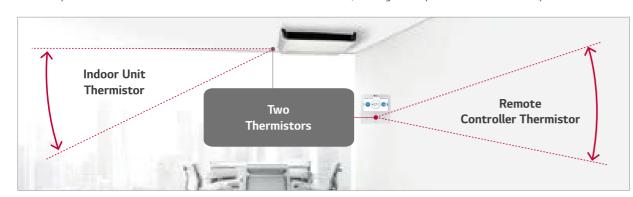
One Touch & 2 Piece Filter

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



Two Thermistors Control

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



ARNU18GV1A4 / ARNU24GV1A4 ARNU36GV2A4 / ARNU48GV2A4



EILING & FLOOR CONVERTIBLE

	MODEL	UNIT	ARNU09GVEA4	ARNU12GVEA4
Cooling Capacity kW		kW	2.8	3.6
Heating Capa	city	kW	3.2	4.0
Power Input (H / M / L)	Nominal	W	19 / 15 / 11	28 / 19 / 15
Exterior Color	r		Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions	Body	mm	900 x 490 x 200	900 x 490 x 200
(W x H x D)	Shipping	mm	975 x 562 x 279	975 x 562 x 279
	Туре		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	27 x 1	27 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
		cfm	268 / 244 / 219	325 / 268 / 244
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
ъ:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	13.3	13.3
Sound Pressu	re Levels (H / M / L)	dB(A)	36 / 32 / 28	38 / 36 / 30
Sound Power	Levels (H / M / L)	dB(A)	55 / 51 / 45	56 / 55 / 49
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm² x cores	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

CHASSIS	ARNU09GVEA4	ARNU12GVEA4
Drain Pump	-	
Refrigerant Leakage Detector	PRLDI	NVS0
EEV Kit	PRGKC)24A0
Multi-tenant Power Module	PINPN	IB001
Plasma Kit	-	
Robot Cleaner	-	
Pre Filter (Washable)	0	
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	PWFMD	D200 ¹⁾

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





	MODEL	UNIT	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Cooling Capa	city	kW	5.6	7.1	10.6	14.1
Heating Capa	city	kW	6.3	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	23 / 20 / 17	25 / 21 / 17	84 / 77 / 66	91 / 79 / 66
Exterior Colo	r		Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions	Body	mm	1,200 x 235 x 690	1,200 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
(W x H x D)	Shipping	mm	1,315 x 320 x 772	1,315 x 320 x 772	1,715 x 320 x 772	1,715 x 320 x 772
	Туре		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1	125 x 1	125 x 1
Fall	Air Flow Rate (H / M / L)	m³/min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
n:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	29.0	29.0	37.0	37.0
Sound Pressu	re Levels (H / M / L)	dB(A)	36 / 34 / 33	37 / 35 / 33	45 / 44 / 40.5	47 / 44 / 40.5
Sound Power	Levels (H / M / L)	dB(A)	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64	68 / 67 / 66
Power Supply	•	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	mm² x cores	1.0 ~ 1.5 × 2C			

Note: 1. Performance tested under EN14511
2. Capacities are based on the following conditions
- Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
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Accessories

CHASSIS	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Drain Pump	-			
Cassette Cover		-		
Refrigerant Leakage Detector		PRLDI	VVS0	
EEV Kit		-		
Multi-tenant Power Module		PINPM	IB001	
Robot Cleaner	·			
Pre Filter (Washable)	0			
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)	0			
Wi-Fi		PWFMI	DD200	

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

Wi-Fi Control

Access your air conditioner anytime and from anywhere.

ThinQ

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Air Flow Direction Change

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

Cooling Heating (Normal) Heating (Option)

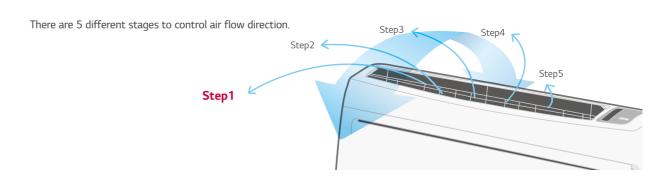
Cold Draft Protection

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





5-Step Vane Control





Features & Benefits

- 6 way flexible piping
- Cold draft window protectionCondensation protection

Key Applications

- Residential building Historical building
- Hotel

FLO	OR STANDING	CONSOLE	FLOOR STANDING
Smart	Wi-Fi	0	0
Energy Efficiency	Jet Cool	-	0
Health	lonizer	0	-
Fast Cooling & Heating Jet Cool		0	-
	Sleep Mode	0	0
	Timer (On / Off)	0	0
Comfort	Timer (Weekly)	0	0
	Two Thermistor Control	0	0
	Group Control	0	0

※ ○: Applied, - : Not applied

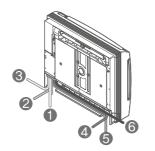
INDOOR UNITS KEY FEATURES 180 I 181

COMFORT (FLOOR STANDING)

6 Way Flexible Piping

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

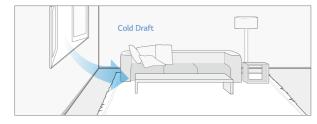




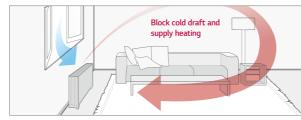
Protect Cold Draft

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

Without Floor Standing

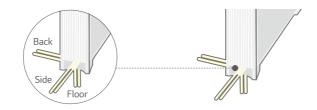






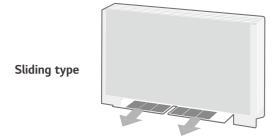
3 Way Flexible Piping

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

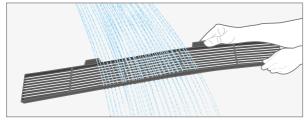


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.



Easy cleaning





CONSOLE

ARNU12GQAA4 / ARNU15GQAA4



	MODEL	UNIT	ARNU12GQAA4	ARNU15GQAA4
Cooling Capacity kW		kW	3.6	4.5
Heating Capacity kW		kW	4.0	5.0
Power Input (H / M / L) Nominal		W	18 / 15 / 13	24 / 19 / 17
Exterior Colo	r		Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions	Body	mm	700 x 600 x 210	700 x 600 x 210
$(W \times H \times D)$	Shipping	mm	775 x 662 x 284	775 x 662 x 284
	Туре		Turbo fan	Turbo fan
Fan	Motor Output x Number	W x No.	48 x 1	48 x 1
гап	Air Flow Rate (H / M / L)	m³/min	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight Body k		kg	14.0	14.0
Sound Pressure Levels (H / M / L) dB(A)		dB(A)	39 / 34 / 28	42 / 37 / 31
Sound Power	Levels (H / M / L)	dB(A)	56 / 50 / 44	58 / 53 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

ARNU07GQAA4 / ARNU09GQAA4

MODEL		UNIT	ARNU07GQAA4	ARNU09GQAA4
Cooling Capacity		kW	2.2	2.8
Heating Capa	city	kW	2.5	3.2
Power Input (H / M / L)		W	15 / 12 / 10	15 / 12 / 10
Exterior Colo	r		Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions	Body	mm	700 x 600 x 210	700 x 600 x 210
$(W \times H \times D)$	Shipping	mm	775 x 662 x 284	775 x 662 x 284
	Туре		Turbo fan	Turbo fan
Fan	Motor Output x Number	W x No.	48 x 1	48 x 1
ran	Air Flow Rate (H / M / L)	m³/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
B:	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	14.0	14.0
Sound Pressure Levels (H / M / L)		dB(A)	37 / 34 / 28	37 / 34 / 28
Sound Power	Levels (H / M / L)	dB(A)	53 / 50 / 44	53 / 50 / 44
Power Supply	,	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

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

Accessories

CHASSIS	ARNU07GQAA4	ARNU09GQAA4			
Drain Pump		-			
Cassette Cover		-			
Refrigerant Leakage Detector	PRLD	NVS0			
EEV Kit	PRGK	024A0			
Multi-tenant Power Module	PINPN	ЛВОО1			
Robot Cleaner		-			
Pre Filter (Washable)	0				
Ion Generator	0				
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)	ternal Input (1 point)				
Wi-Fi	PWFM	DD200			

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

Accessories

CHASSIS	ARNU12GQAA4	ARNU15GQAA4		
Drain Pump				
Cassette Cover		-		
Refrigerant Leakage Detector	PRLD	NVS0		
EEV Kit	PRGKO	D24A0		
Multi-tenant Power Module	PINPN	/IB001		
Robot Cleaner		-		
Pre Filter (Washable)	0			
Ion Generator	0			
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)		0		
Wi-Fi	PWFM	DD200		

O : 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 Capa	city	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capa	icity	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 Colo	r		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	Body	mm	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203			
$(W \times H \times D)$	Shipping	mm	1,154 x 705 x 289	1,432 x 705 x 289	1,432 x 705 x 289			
	Туре		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 2	19 x 2			
Fan	Air Flow Rate (H / M / L)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
	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)
Pipe Connections	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)
Connections	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		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply	Power Supply Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU07GCEA4 ARNU09GCEA4 ARNU12GCEA4 ARNU15GCEA4	ARNU18GCFA4 ARNU24GCFA4
Drain Pump	-	-
Cassette Cover		-
Refrigerant Leakage Detector	PRLDNVS0	PRLDNVS0
EEV Kit	PRGK024A0	-
Multi-tenant Power Module	PINPMB001	PINPMB001
Robot Cleaner	-	-
Pre Filter (Washable)	0	0
Ion Generator	-	-
CO ₂ Sensor		-
Ventilation Kit	-	-
IR Receiver	PWLRVN000	PWLRVN000
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYC PDRYCB400 (2 points input), PDRYCB500	
External Input (1 point)	0	0
Wi-Fi	PWFMDD200	PWFMDD200

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

ARNU07GCEU4 / ARNU09GCEU4 ARNU12GCEU4 / ARNU15GCEU4 ARNU18GCFU4 / ARNU24GCFU4



W U: Floor Standing without case

	MODEL	UNIT	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Cooling Capa	city	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capa	city	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	Body	mm	978 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190			
$(W \times H \times D)$	Shipping	mm	1,055 x 702 x 260	1,333 x 702 x 260	1,333 x 702 x 260			
	Туре		Sirocco Fan	Sirocco Fan				
Fan	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 2	19 x 2			
Ган	Air Flow Rate (H / M / L)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter				
ъ.	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)				
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)				
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø12 (15/32)	Ø12 (15/32)				
Weight	Body	kg	20.0	20.0	20.0	20.0	26.0	26.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply	1	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Transmission	Cable	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°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 3. Due to our policy of innovation, some specifications may be changed without notification

Accessories

CHASSIS	ARNU07GCEU4 ARNU09GCEU4 ARNU12GCEU4 ARNU15GCEU4	ARNU18GCFU4 ARNU24GCFU4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVS0	PRLDNVS0
EEV Kit	PRGK024A0	-
Multi-tenant Power Module	PINPMB001	PINPMB001
Robot Cleaner	-	-
Pre Filter (Washable)	0	0
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	PWLRVN000	PWLRVN000
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB PDRYCB400 (2 points input), PDRYCB500 (
External Input (1 point)	0	0
Wi-Fi	PWFMDD200	PWFMDD200

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

INDOOR UNITS SPECIFICATIONS 186 I 187

INDOOR UNITS

COMPATIBILITY

Coccuminated Electric Monitoring accumulated power consumption by Central Control Device Necessary to a Programment of Control Proper Distribution Necessary to a Programment Proper Distribution Necessary to a Proper D				REQUIRED C	ONTROLLER	
Energy Monitoring Check	NO.	FUNCTION NAME (4 TH GENERATION	FUNCTION DESCRIPTION	REMOTE		REMARKS
Beetrix Energy Check) Monitoring accumulated power consumption by Central Control Device PDI	1	(Accumulated	consumption	0	0	Indicator) and central controller * Combined with Multi V Water S outdoor unit, this function is not available.
2 2 Set Point 2) Synchronization secting and Monitoring) 1) Synchronization according to control (Synchronization secting and Monitoring) 1) Synchronization according to control (Synchronization according to control (Synchronization according to controller (Synchronization according to controller (Synchronization according to controller (Synchronization according to controller (Synchronization con with remote controller (Synchronization con son sendation) (Synchronization con son sendation) (Synchronization controller (Synchronization) (Synchronization			consumption by Central Control Device / PDI	-	0	Indicator) * To make a report, central controller must be
Occupied / Unoccupied / Unoccupied by Indoor and Certard control of Certard Certa	2	2 Set Point	central controller 2) Synchronization function with remote control (Synchronization Setting and	0	0	must be installed * Combined with Multi V Water S outdoor unit, this
Foreign Control Test Run (Heating) Test Run mode an be operated in cooling mode and heating mode for easy service mode and heating mode for easy service product Type / Indoor Use / Indoor unit address checking Test Run (Heating) The mode and heating mode for easy service product Type / Indoor Use / Indoor unit address information Refrigerant Leakage for the mode on the more refrigerant leakage occurred Thermo On / Off prage with wired remote controller for range and with wired remote controller for range with wired remote controller for range with wired remote controller for range with wired remote controller for prevention overconding thermoon off range with wired remote controller for prevention overconding prevention overconding prevention overconding prevention overconding prevention overconding (4 Step) Static Pressure 1 Step Control 1 Only for Ceiling Concealed Duct 1 point External Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th generation redoors) 1 point External Indoor unit can be controlled by external devices without purchasing Dry Contact and prevention removed the screen. After the power failure compensation, After t	3	Unoccupied Scheduling Function	occupied / unoccupied by Indoor and Central control 2) Synchronization icon with remote controller (Synchronization	0	0	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
mode and heating mode for easy service Model Information Monitoring Indoor unit address checking Indoor unit address checki	4	Group Control		0	0	
Comparing the controller Comparing the contr	5	Test Run (Heating)	mode and heating mode for easy service	0	-	
Central controller has been installed, CH230 erro code can be recognized (Old / New Same) **Refrigerant Leakage Detection **Refrigerant Leakage Detection** **Refrigerant Leakage Punction error sign display when refrigerant leakage occurred** **Thermo On / Off Pure can set cooling thermo on/off range with wired remote controller (CH230) **Thermo On / Off Pure can set cooling thermo on/off range with wired remote controller for prevention overcooling or revention overcooling or revention overcooling or revention overcooling or range with wired remote controller for prevention overcooling or range with wired remote controller for range with wired setting (4 step) **Thermo On / Off temperature setting (3 step) **Thermo On / Off temperature setting (4 step) **Thermo On / Off temperature setting (9 step) **Simple On/Off control by Dry Contact at Indoor (1 step) **Simple	6		capacity information can be monitored	0	-	
Refrigerant Leakage Detection refrigerant leakage Particles or refrigerant leakage occurred refrigerant leakage with with vider occurred refrigerant leakage occurred refrigerant leakage with with vider occurred refrigerant leakage occurred refrigerant leakage with with effect range with wited remote controller occurred refrigerant restring (2 step) resecting (2 step) resecting (2 step) resecting (2 step) resecting (3 step) resecting (3 step) resecting (4 step) resecting	7			0	-	
Thermo On / Off User can set cooling thermo on/off range with winter demote controller for Setting (Cooling) Thermo On / Off User can set heating thermo on/off range with winter demote controller for range with winter demote controller with installation function be installation function mode 41 is required * Simple On/Off control by Dry Contact at Indoor Example of Contact port by product type] * 2 Way Cassette: CN-EC Port (Wired remote controller installation function mode 41 is required * 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remote controller 1 Way / 4 Way Cassette: CN-EC Port (Wired remo	8			0	0	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.
Thermo On / Off 10 range with wired remote controller for Setting (Heating) prevention overheating. (4 Step) Static Pressure Depends on the installation environment, 4th generation Ceiling Concealed Duct 4th generation Ceiling Concealed Duct Can control the static pressure Duct and Control by 11 steps for providing comfortable environment 12 Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th Generation indoors) 13 Filter Sign The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen. 14 Auto restart function Disable / Enable Duct / Mall Mounted Unit / Console / FAU / Floor Standing (with case / without case): CN-EXT Port the screen. 15 Indoor Humidity Monitoring indoor humidity Wired Pemote Controller Doperation for the status before the power off Setting Set the outdoor unit comfort cooling Setting Operation value ON Perfigerant Noise Reduction setting Set the outdoor unit's Smart Load Control stage value. 16 Comfort Cooling Set the outdoor unit's Perfigerant noise reduction function function function on the Set the start and end time of the Set Duck Noise Reduction setting Set the outdoor unit's refrigerant noise reduction function function Set the start and end time of the Set Duck Noise Reduction Set the Set the Start and end time of the Set Duck Noise Reduction Set Set Duck Noise	9	range	range with wired remote controller for	0	-	
Static Pressure 11 Step Control 11 (Only for Ceiling Concealed Duct Type) 12 1 point External Indoor unit can be controlled by external devices without purchasing	10	Thermo On / Off range	User can set heating thermo on/off range with wired remote controller for	0	-	* Thermo On / Off temperature setting (4 step)
* Simple On/Off control by Dry Contact at Indoor 1 point External Indoor unit can be controlled by external devices without purchasing Dry contact as an accessory (All 4th generation indoors) 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 the alarm activates when the filter needs to be cleaned, and the time remaining firme) The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen. After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off Indoor Humidity display Monitoring indoor humidity Wired Remote Controller Available only with Multi V 5 Remote Controller Setting Change the outdoor unit's Smart Load Control stage value. Available only with Multi V 5 Available only wit	11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct	Depends on the installation environment, 4th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable	0	-	* Only applied in Ceiling Concealed Duct
12 Input (On / Off control) 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. After the power failure compensation, Disable / Enable operation for the status before the power off 15 Indoor Humidity display Remote Controller 16 Comfort Cooling setting operation value 17 Smart Load Control Smart Load Control Smart Load Control Smart Load Control Stage value. Doug noise mode time devices without purchasing Dry contact as an accessory (All 4th generation indoors) - *2 Way Cassette: CN-CC Port (Wired remote controller installation function mode 41 is required *1 Way / 4 Way Cassette: CNi-CC Port (Wired remote controller installation function mode 41 is required *1 Way / 4 Way Cassette: CNi-CC Port (Wired remote controller *1 Way Cassette: CNi-CC Port (Wired remote controller installation function mode 41 is required *1 Way Cassette: CNi-CC Port (Wired remote controller installation function mode 41 is required *1 Way / 4 Way Cassette: CNi-CC Port (Wired remote controller installation function mode 41 is required *1 Way / 4 Way Cassette: CNi-CC Port (Wired remote controller installation function mode 41 is required *1 Way / 4 Way Cassette: CNi-CC Port (Wired required *1 Way / 4 Way Cassette: CNi-CC Poit (Wired required *1 Way / 4 Way Cassette: CNi-CC Poit (Wired required *1 Way / 5 Way Cassette: CNi-CC Poit (Wired required *1 Way / 5 Way Cassette: CNi-CC Poit (Wired required *1 Way / 5 Way Cassette: CNi-CC Poit (Wired required *1 Way / 5 Way Cassette: Cni-CC Poit (Wired required *1 Way / 5 Way Cassette: CNi-CC Poit (Wired required *1 Way / 5 Way Cassette: Cni-CC Poit (Wired required *1 Way / 5 Way Cassette: Cni-Cc Poit (Wired required *1 W		71 /				* Simple On/Off control by Dry Contact at Indoor
Filter Sign (Remaining Time) needs to be cleaned, and the time remaining for cleaning is displayed on the screen. After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off Indoor Humidity Monitoring indoor humidity Wired Remote Controller Comfort Cooling set the outdoor unit comfort cooling setting Smart Load Control stage value. Coduction function Smart Load Control stage value. Parallel only with Multi V 5 * Available only with Multi V 5	12	Input	devices without purchasing Dry contact as an accessory (All 4th	0	-	* 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed
Auto restart function Disable / Enable operation for the status before the operation for the status before the power off 15 Indoor Humidity Monitoring indoor humidity Wired Remote Controller 16 Comfort Cooling set the outdoor unit comfort cooling operation value 17 Smart Load Control Change the outdoor unit's Smart Load control setting Control stage value. 18 ODU Refrigerant Noise Reduction set the outdoor unit's refrigerant noise reduction function 19 Low noise mode time set the start and end time of the	13		needs to be cleaned, and the time remaining for cleaning is displayed on	0	0	
display Remote Controller Comfort Cooling set the outdoor unit comfort cooling operation value Change the outdoor unit's Smart Load setting Control stage value. Change the outdoor unit's Smart Load control setting Control stage value. Control stage value. ODU Refrigerant Noise Reduction setting Noise Reduction function Set the outdoor unit's refrigerant noise reduction function Set the start and end time of the	14		stand by at OFF mode Restore the operation for the status before the	0	-	
setting operation value 17 Smart Load Control setting Control stage value. Control	15			0	0	* Available only with Multi V 5
Setting Control stage value. ODU Refrigerant Noise Reduction setting Noise mode time Set the outdoor unit's refrigerant noise reduction function *Available only with Multi V 5 *Available only with Multi V 5	16	setting	operation value	0	0	* Available only with Multi V 5
18 Noise Reduction setting Set the outdoor units retrigerant noise oreduction function setting Set the outdoor units retrigerant noise oreduction function setting Set the outdoor units retrigerant noise or *Available only with Multi V 5	17	setting		0	0	* Available only with Multi V 5
	18	Noise Reduction		0	0	* Available only with Multi V 5
	19			0	0	* Available only with Multi V 5

INDOOR UNITS COMPATIBILITY 188 I 189

Note: 1) No.1, 2, 3, 8: Functions are available to use together with 4th generation Indoor units only. If used together 2th 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 2th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor 3) 2th generation indoor unit: Ceiling & Floor Convertible Unit, Ceiling Suspended Unit, HYDRO KIT (Low Temp. / High Temp.), ERV DX (with Humidifier, without Humidifier), AHU Communication Kit

\				Premium	Standard III	Standard II	Simple	Simple for Hotel	Wireless		Dry Co	ontact	
	Decede	Control	ler	PREMTA000	****	. 8 . 8	2 2			Simple Dry	2 points Day	Dry Contact	
	Produ	ct \		PREMTAOOOA PREMTAOOOB	PREMTBB10 PREMTB100	PREMTBB01 PREMTB001	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P)	Contact PDRYCB000	Contact PDRYCB400	Dry Contact for Thermostat PDRYCB320	For Modbus PDRYCB500
	_	4 Way	ARNU-A4 ARNU-B4	0	0	0	0	0	0	0	0	0	0
	Ceiling Mounted Cassette	2 Way / 1 Way	ARNU-B4 ARNU-C4	0	0	0	0	0	0	0	0	0	0
		Round CST	ARNU-A4	0	0	0	0	0	0	0	0	0	0
		High Sensible	ARNU-A4	0	0	0	0	0	Δ	0	0	0	0
	Ceiling Concealed Duct	High / Mid Statics	ARNU-A4	0	0	0	0	0	Δ	0	0	0	0
		Low Statics	ARNU-G4	0	0	0	0	0	Δ	0	0	0	0
	FAU (Fresh Air intake)		ARNU-Z4	0	0	0	0	0	Δ	0	0	0	0
	Convertible & Ceiling Suspended		ARNU-A4	0	0	0	0	0	0	0	0	0	0
	Console		ARNU-A4	0	0	0	0	0	0	0	0	0	0
	Floor Standing		ARNU-A4 ARNU-U4	0	0	0	0	0	0	0	0	0	0
			ARNU-A4	0	0	0	0	0	0	0	0	0	0
	Wall Mounted		ARNU-R4	0	0	0	0	0	0	0	0	0	0
	_		ARNU-A4 ARNU-C4 ARNU-N4	0	0	0	0	0	0	0	0	0	0
	HYDRO KIT ¹⁾		ARNH-A4	-	-	-	-	-	-	0	-	0	-
	Markins	00	Energy Recovery Ventilator	0	0	0	-	-	-	0	-	-	0
_	Ventilation -		Energy Recovery Ventilator with DX coil	0	0	0	-	-	-	0	-	-	0
	AHU Commu	nication Kit	● 1.6	0	0	0	-	-	Δ	-	-	-	-

Controller	Name	Premium	Wired	d Remote Cont Standard II	roller Simple	Simple (Hotel)	Wireless Remote Controller	Wi-Fi Modem
Model Nan	ne	250 } = 0	•					• LG
		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P)	PWFMDD200
	On / Off	0	0	0	0	0	0	0
	Fan Speed Control	0	0	0	0	0	0	0
	Temperature Setting	0	0	0	0	0	0	0
	Mode Change	0	0	0	0	-	0	0
	Auto Swing	0	0	0	0	0	0	
Basic	Vane Control (Louver Angle)	0	0	0	0	0	0	0
	E.S.P (External Static Pressure)	0	0	0	0	0	-	-
	Electric Failure Compensation	0	0	0	0	0	-	0
	Indoor Temperature Display	0	0	0	0	0	0	
	ALL Button Lock (Child Lock)	0	0	0	0	0	-	-
	Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off	Weekly
	Additional Mode Setting 1)	0	0	0	-	-	-	-
	Time Display	0	0	0	-	-	0	-
	Humid. Display	0	0	-	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
Advanced	Filter Sign	0	0	0	-	-	-	-
	Energy Management 2)	0	0	0	-	-	-	-
	Dual Set Point	0	0	-	-	-	-	-
	Human Detection	-	0	-	-	-	-	-
	Temp, Humidity Compensation	0	0	-	-	-	-	-
	Wi-Fi AP mode setting	0	0	0	0	0	0	-
	Operation Status LED	0	0	0	0	0	-	-
	Wireless Remote Controller Receiver	○ 3)	-	○ 3)	○ 3)	○ 3)	-	-
ETC	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26	48 x 68 x 14
	Black Control for Screen Saver	0	0	-	-	-	-	-

 $[\]Re$ O : Compatible, Δ : Need wired remote controller / IR receiver, - : Not compatible 1) It has a separate remote controller

^{**} O : Applied, - : Not Applied

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

2) Centralized control (PACEZA000 / PACSSA000 / PACPSA000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function

3) For ceiling type duct

Note

- Indoor unit should have functions requested by the controller

- If you need more detail, please refer to the manual of product. (http://partner.lge.com; Home> Doc.Library> Manual)

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HYDRO KIT



HYDRO KIT

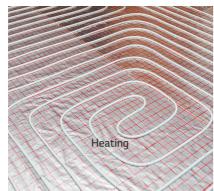
Features & Benefits

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

Key Applications

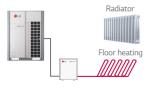
 Where Hot Water is needed such as domestic Hot Water, underfloor heating, or radiator. Where cold water is needed such as Fan coil unit and chilled beam.

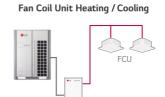






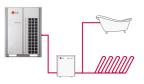
Radiant Heating / Cooling





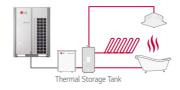


Combination



Hot water+ Underfloor heating

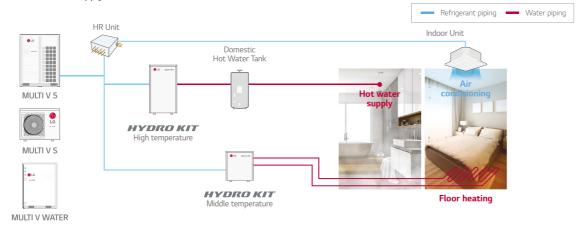
HR unit (Cooling & Hot water)



Thermal Storage System

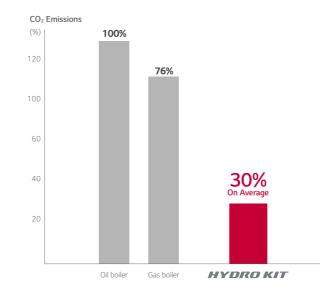
Total Solution

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



Eco-conscious Solution

Green energy solution through the reduction of CO₂ emmisions.

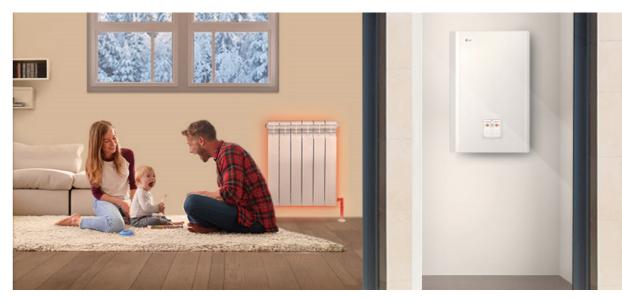






Space Saving

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





Compatible with compact R32 Multi V S

Product Volume (m³)

1.63

1.20

LG MULTI V S R32

D

P

HOT WATER SOLUTION KEY FEATURES

FFICIENCY

Enthalpy

Cost Savings with High Efficiency

Equivalent installation cost of traditional boiler with reduced operational costs.

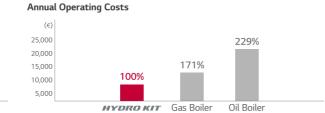
1st Proposal MULTI V 5 HYDRO KIT

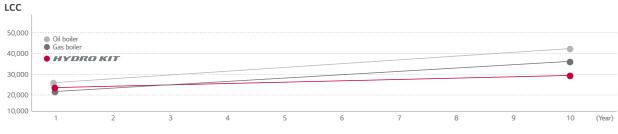
(Air Conditioning + Hot Water Supply + Floor Heating) 2nd Proposal MULTI V 5 Air-Conditioning + Gas Boiler (Hot Water Supply + Floor Heating) 3rd Proposal MULTI V 5 Air-Conditioning + Oil Boiler (Hot Water Supply + Floor Heating)

Analysis Conditions

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



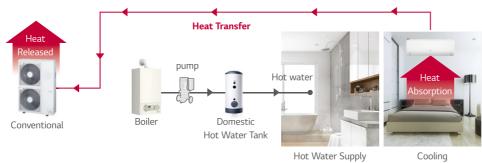




Energy Savings through Heat Recovery

Conventional

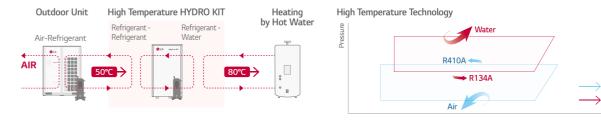
Absorbed heat is released to outdoor air.



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



High Temperature HYDRO KIT Cycle Diagram



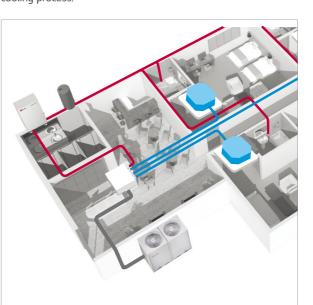
Various Applications

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



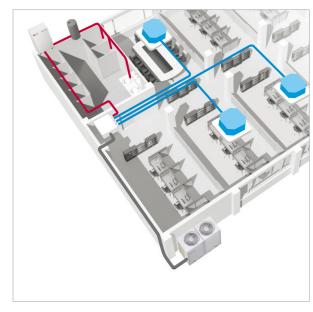
Hotel Application

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



Office Application

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



HOT WATER SOLUTION KEY FEATURES 196 I 197

ARNH18GK1A4 / ARNH24GK1A4 ARNH30GK1A4

Volume

Water

pressure Water

pressure Mesh size

Material Pressure

Upper Limit

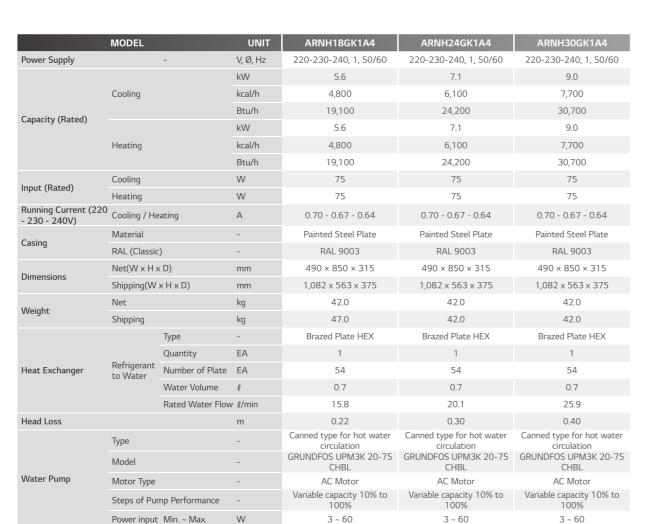
Expansion Vessel

Strainer

Relief valve



HYDRO KIT



8.0

3.0

1.0

28 mesh

Stainless Steel

3.0

bar

bar

8.0

3.0

1.0

28 mesh

Stainless Steel

3.0

8.0

3.0

1.0

28 mesh

3.0

Stainless Steel



	MODEL		UNIT	ARNH18GK1A4	ARNH24GK1A4	ARNH30GK1A4
	Туре		-	Sheath	Sheath	Sheath
	Number of Heat	ing Coil	EA	2	2	2
	Capacity Combin	ation	kW	3.0 + 3.0	3.0 + 3.0	3.0 + 3.0
	Operation		-	Automatic	Automatic	Automatic
Backup Heater	Heating Steps		Step	2	2	2
	Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
	FLA		А	31.0	31.0	31.0
	Power Cable (HC (Included Earth)	7RN-F)	mm2x cores	4.0 x 3C	4.0 x 3C	4.0 x 3C
	Туре		-	Vortex	Vortex	Vortex
	Model		-	SIKA VVX20	SIKA VVX20	SIKA VVX20
Flow Sensor	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	Type(Sensor Holder)		-	Male PT 1/2 inch	Male PT 1/2 inch	Male PT 1/2 inch
Temperature Sensor	Length		m	12	12	12
Sound Absorbing Then	mal Insulation Ma	aterial	-	Foamed polystrene	Foamed polystrene	Foamed polystrene
Safety Device			-	Fuse	Fuse	Fuse
	Water Side	Inlet	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
Piping Connections	vvater Side	Outlet	-	Male PT 1 inch	Male PT 1 inch	Male PT 1 inch
riping connections	Refrigerant Side	Liquid	mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52(3/8)
	Kerrigerant Side	Gas	mm(inch)	Ø 15.88(5/8)	Ø 15.88(5/8)	Ø 15.88(5/8)
Power Cable Supply C	able (H07RN-F)		mm² x cores	2.5 x 3C	2.5 x 3C	2.5 x 3C
Communication Cable	(VCTF-SB)		mm² x cores	1.0~1.5 × 2C	1.0~1.5 × 2C	1.0~1.5 × 2C
		Туре	-	R32	R32	R32
	Refrigerant to	Precharged Amount	kg (lbs)	-	-	-
Refrigerant	Water	Additional Charging Amount	kg (each)	0.43	0.43	0.43
		Control	-	EEV	EEV	EEV
Sound Pressure Level	Cooling / Heating	Rated	dB(A)	35	35	35
Sound Power Level	Cooling / Heating	Rated	dB(A)	44	44	44

HOT WATER SOLUTION SPECIFICATIONS

ARNH04GK2A4 / ARNH10GK2A4



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

1) Nominal : Performance tested under EN14511

1) Nominal : Performance reseau and a care is a common of the following conditions:

1. Capacities are based on the following conditions:

1. Capacities are based on the following conditions:

1. Cooling : Indoor 27°C (80°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)

1. Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)

2. Piping Length : Interconnected Pipe Length = 7.5m

3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.

4. MULTI V S 4HP (ARUNO40GSSQ), ARUNO40LSSQ) cannot be connected to Hydro Kit.

5. MULTI V Water S cannot be connected to Hydro Kit.

6. Anti freezing liquid should be added under 10°C (outdoor temp.) during cooling mode.

Accessories

CHASSIS	ARNH04GK2A4	ARNH10GK2A4		
Drain Pump		-		
Cassette Cover		-		
Refrigerant Leakage Detector	PRLD	NVS0		
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)	0			
Wi-Fi	PWFM	DD200		

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

ARNH04GK3A4 / ARNH08GK3A4



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

1) Nominal : Performance tested under EN14511

1) Nominal: Performance tested of the following conditions:

1. Capacities are based on the following conditions:

- Heating: Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 55°C (131°F) / Outlet 65°C (149°F)

2. Piping Length: Interconnected Pipe Length = 7.5m

3. Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.

4. MULTI V S 4HP (ARUN040GSSO, ARUN040LSSO) cannot be connected to Hydro Kit.

5. MULTI V Water S cannot be connected to Hydro Kit.

Accessories

CHASSIS	ARNH04GK3A4	ARNH08GK3A4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector	PRLD	NVS0
EEV Kit		-
Multi-tenant Power Module		0
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)		0
Wi-Fi	PWFM	DD200

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

HOT WATER SOLUTION SPECIFICATIONS 200 I 201

202-213

VENTILATION SOLUTIONS

ERV / ERV WITH DX COIL

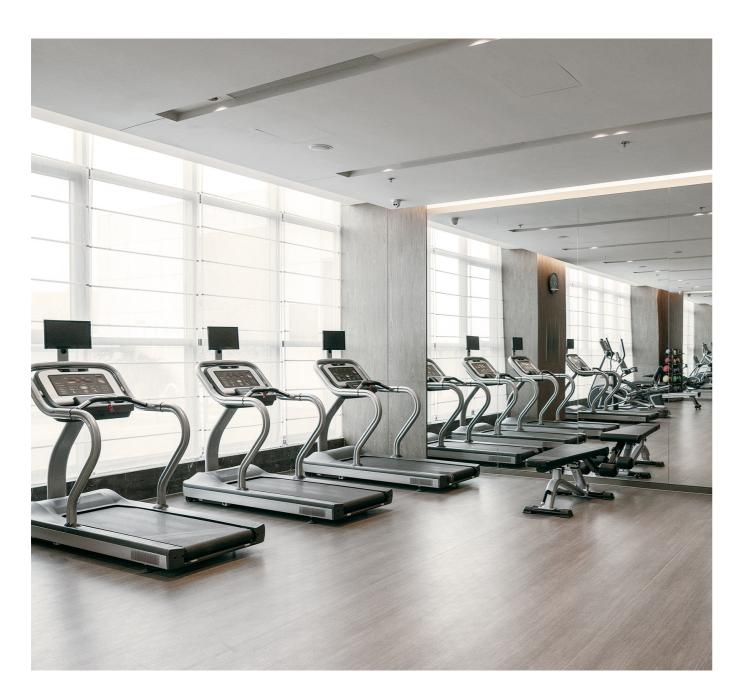
For more LG Commercial Air Solutions information,



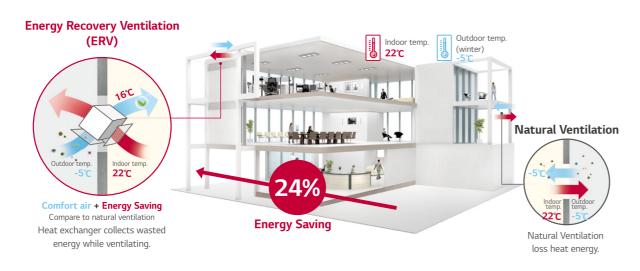


VENTILATION SOLUTIONS 202 | 203

HIGH EFFICIENCY

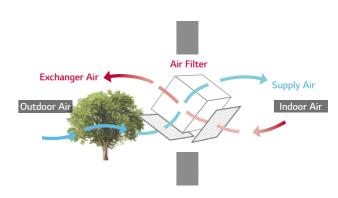


Necessity of ERV



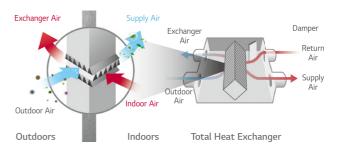
High Efficiency Heat Exchanger

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



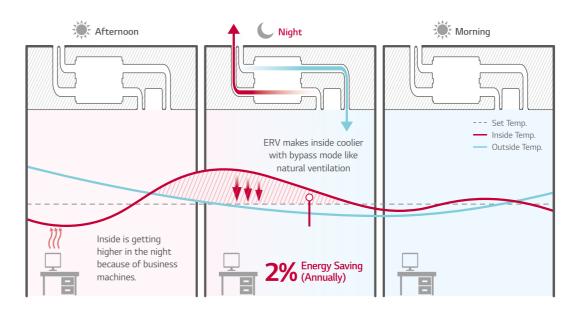
Cross Flow System

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



Night Time Free Cooling

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



- ** This function is operated with *Night Time Free Cooling' on remote controller (with MULTI V only)
 ** Energy saving ratio can be differed by weather condition.
 ** Test Condition

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

VENTILATION SOLUTION KEY FEATURES 204 I 205

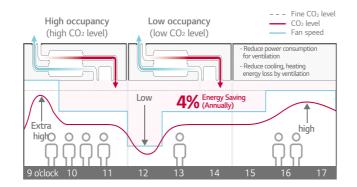
COMFORT

RELIABILITY

CO₂ Auto Operation

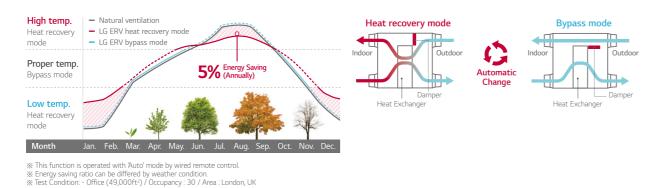
LG ERV reduces energy loss with auto fan speed control following CO₂ level.

- % This function is operated with 'Night Time Free Cooling' on remote controller.
- With Industry of only)
 We 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.

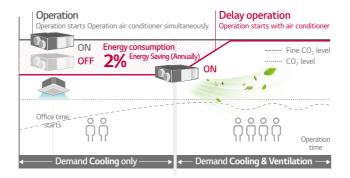


Delay Operation

ERV (1.000 CMH) + MULTI V 4 (12HP) Unit Combination

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

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



CO₂ Level Monitoring

 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.

CO₂ Level Visualization

 $\ensuremath{\mathsf{CO}}_2$ sensor senses indoor $\ensuremath{\mathsf{CO}}_2$ level and displays it on new wired remote



Main display

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

Further information

CO2 level and room condition are displayed continuously.



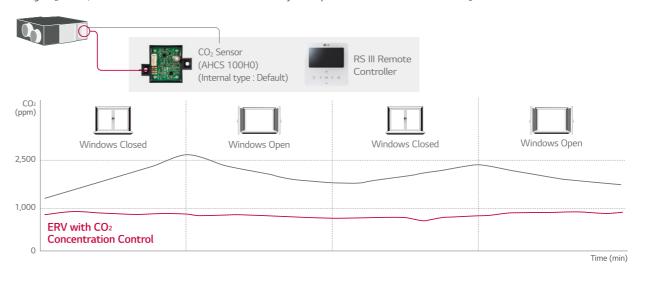




* Applicable to only Standard III, Premium

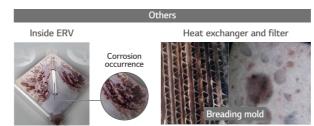
CO₂ Concentration Control

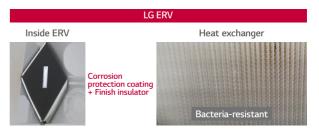
Using CO₂ sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO₂ concentration.



High Durability

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





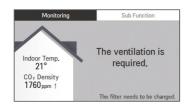
VENTILATION SOLUTION KEY FEATURES 206 I 207

CONVENIENC

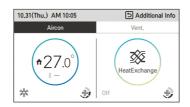
Easy Control

Wired remote controller is easy for usage.









Easy

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

Display

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

Convenient

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

Group Control

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

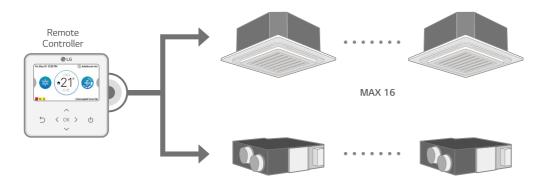
Several units combination

16 units group control is available with 1 remote controller.



Interlocking with Air Conditioning System

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

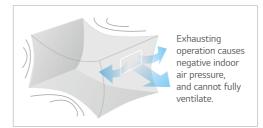


Fast Ventilation Mode

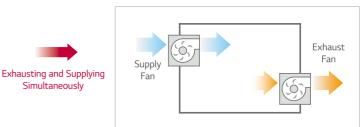
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Simultaneously

Only Exhausting

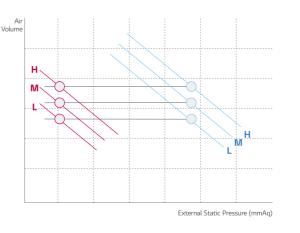


Fast Ventilation Mode



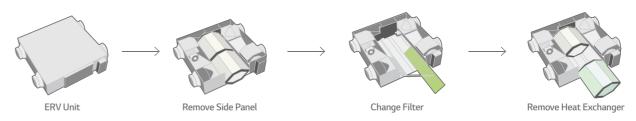
External Static Pressure Control

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.



VENTILATION SOLUTION KEY FEATURES 208 I 209 П

RV

VENTILATION SOLUTIONS



	MODEL		UNIT	LZ-H025GBA4	LZ-H035GBA5	LZ-H050GBA5		
Dimensions (W x H x D)	Body		mm	988 x 273 x 1,014				
Weight	Body		kg		44			
Power Supply	-		Ø, V, Hz		1, 220-240, 50			
Normal Air flow			m³/h	250 350		500		
	Operating Step				Super-high / High / Low			
	Current SH / H / L		А	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50	1.65 / 1.56 / 0.80		
	Power Input	SH/H/L	W	97 / 87 /52	150 / 125 / 60	247 / 230 / 95		
	Air Flow	SH/H/L	m³/h	250 / 250 / 150	350 / 350 / 210	500 / 500 / 320		
	External Static Pressure	SH/H/L	Pa	100 / 70 / 50	150 / 100 / 50	150 / 100 / 50		
ERV Mode	Temperature Exchange Efficiency	SH/H/L	%	80 / 80 / 83	80 / 80 / 82	79 / 79 / 82		
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	75 / 75 / 80	75 / 75 / 78		
		Cooling (SH / H / L)	%	66 / 66 / 68	71 / 71 / 75	68 / 68 / 75		
	Energy Label	A+ to G Scale		А	В	В		
	Sound Pressure Level	SH/H/L	dB(A)	29 / 28/ 24	35 / 32 / 26	37 / 36 / 28		
	Sound Power Level	SH/H/L	dB(A)	50	53 / 50 / 42	57 / 56 / 46		
	Operating Step				Super-high / High / Low			
	Current	SH/H/L	Α	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50	1.65 / 1.56 / 0.80		
Bypass Mode	Power Input	SH/H/L	W	97 / 87 /52	150 / 125 / 60	247 / 230 / 95		
bypass wode	Air Flow	SH/H/L	m³/h	250 / 250 / 150	350 / 350 / 210	500 / 500 / 320		
	External Static Pressure	SH/H/L	Pa	100 / 70 / 50	150 / 100 / 50	150 / 100 / 50		
	Sound Pressure Level	SH/H/L	dB(A)	29 / 29/ 25	35 / 33 / 26	37 / 37 / 28		
Duct Work		Qty	EA		4			
Duct Work		Size (Ø)	mm		Ø200			
Supply Air Fan		Qty	EA	1				
Supply All Fall	Туре				Direct-Drive Sirocco			
Exhaust Air Fan		Qty	EA		1			
LAHAUST AH FAH	Туре			Direct-Drive Sirocco				
		Qty	EA		2			
Filters	Туре				Cleanable fibrous fleeces			
		Size (W x H x D)	mm		855 x 10 x 166			

Note:

1. ERV mode: Total Heat Recovery Ventilation mode

2. Refer to dimensional drawings.

3. Noise level:

- The operating conditions are assumed to be standard

- Sound measured at 1.5m below the center the body.

- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.

- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.

4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature: 26.5°C DB, 64.5% RH,

5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature: 20.5°C DB, 59.5% RH,

6. Temperature Exchange efficiency is tested at heating condition.

Accessories

CHASSIS	LZ-H025GBA4 LZ-H035GBA5 LZ-H050GBA5					
Drain Pump	-					
Cassette Cover	-					
Refrigerant Leakage Detector	-					
EEV Kit	-					
Multi-tenant Power Module	-					
Robot Cleaner	-					
Pre Filter (Washable)	-					
Ion Generator	-					
CO ₂ Sensor	0					
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





	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		13	30	
Power Supply			Ø, V, Hz	1, 220-	240, 50	1, 220-	240, 50	
Normal Air flow			m³/h	800 1,000		1,500 2,000		
	Operating Step			Super-high / High / Low		Super-high / High / Low		
	Current	SH/H/L	А	2.13 / 1.75 / 1.00	2.92 / 2.38 / 1.40	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80	
	Power Input	SH/H/L	W	328 / 266 / 144	463 / 370 / 208	660 / 530 / 290	926 / 740 / 420	
	Air Flow	SH / H / L	m³/h	800 / 800/ 660	1,000 / 1,000 / 800	1,500 / 1,500 / 1,200	2,000 / 2,000 / 1,600	
ERV Mode	External Static Pressure	SH/H/L	Pa	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	
EKV IVIOGE	Temperature Exchange Efficiency	SH/H/L	%	82 / 82 / 83	80 / 80 / 81	82 / 82 / 83	80 / 80 / 81	
	Enthalpy Exchange	Heating (SH / H / L)	%	73 / 73 / 76	71 / 71/ 73	73 / 73 / 76	71 / 71/ 73	
	Efficiency	Cooling (SH / H / L)	%	66 / 66 / 70	64 / 64 / 67	66 / 66 / 70	64 / 64 / 67	
	Sound Pressure Level	SH / H / L	dB(A)	40 / 36 / 32	40 / 37 / 33	43 / 39 / 35	43 / 40 / 36	
	Sound Power Level	SH / H / L	dB(A)	56 / 53 / 47	59 / 56 / 52	59 / 56 / 50	62 / 59 / 55	
	Operating Step			Super-high	/ High / Low	Super-high /	/ High / Low	
	Current	SH/H/L	А	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	
Bypass Mode	Air Flow	SH/H/L	m³/h	800 / 800/ 660	1,000 / 1,000 / 800	1,500 / 1,500 / 1,200	2,000 / 2,000 / 1,600	
	External Static Pressure	SH/H/L	Pa	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	160 / 100 / 50	
	Sound Pressure Level	SH/H/L	dB(A)	41 / 37 / 33	41 / 38 / 34	44 / 40 / 36	44/41/37	
Duct Work		Qty	EA	4		4 + 2		
DUCE WOLK		Size (Ø)	mm	Ø250		Ø250 + Ø350		
Supply Air Fan		Qty	EA	1		2		
Supply All Fall		Туре		Direct-Dri	ve Sirocco	Direct-Drive Sirocco		
Exhaust Air Fan	Qty		EA	1		2		
EXIIdUST AIF FAN	Туре			Direct-Drive Sirocco		Direct-Drive Sirocco		
		Qty	EA	2		4		
Filters	Туре			Cleanable fibrous fleeces		Cleanable fibrous fleeces		
	Size (W x H x D)		mm	1,148 x 6 x 245		1,148 x 6 x 245		

Note:

1. ERV mode: Total Heat Recovery Ventilation mode

2. Refer to dimensional drawings.

3. Noise level:

- The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.

4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature: 26.5°C DB, 64.5% RH, Outdoor Temperature: 34.5°C DB, 75% RH

5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature: 20.5°C DB, 59.5% RH, Outdoor Temperature: 5°C DB, 65% RH

6. Temperature Exchange efficiency is tested at heating condition.

Accessories

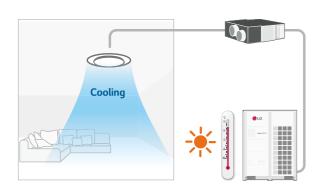
CHASSIS	LZ-H080GBA5 LZ-H100GBA5 LZ-H150GBA5 LZ-H200GBA5
Drain Pump	-
Cassette Cover	-
Refrigerant Leakage Detector	-
EEV Kit	-
Multi-tenant Power Module	-
Robot Cleaner	-
Pre Filter (Washable)	-
Ion Generator	-
CO ₂ Sensor	0
Ventilation Kit	-
IR Receiver	-
Zone Controller	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)
External Input (1 point)	-
Wi-Fi	-

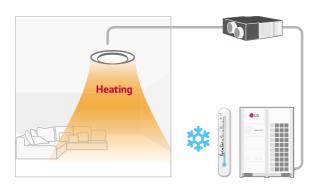
※ ○ : Applied, - : Not applied Option : Refer to model name in table

ERV WITH DX COIL

Providing Cool & Warm Fresh Air

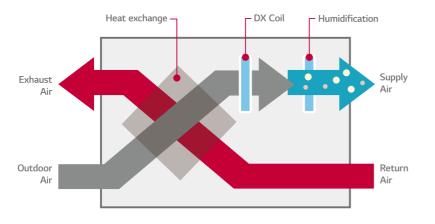
During the summer, ERV DX can transform outdoor warm air into cool air for indoors, and it can prevent cold draft during the winter by supplying warm air.





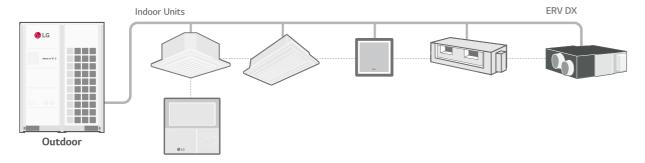
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



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



	MODEL		LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12
Conditioning Load	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	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50
Efficiency	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
All Flow Rate	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80	150 / 100 / 70
	System		Natural Evaporating Type			-		
Humidifier	Amount	kg/h	2.70	4.00	5.40		-	
	Pressure Feed Water	Mpa		0.02 ~ 0.49			-	
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB(A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB(A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant					R4	10A		
Power Supply Ø, V, Hz					1, 220-2	40, 50,60		
Power Input	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
(Nominal)	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	Heat Exchange Mode (SH / H / L)	А	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
Current (RLA)	Bypass Mode (SH / H / L)	Α	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				idirectional fibrous fl	eeces
Dimensions	WxHxD	mm	1,667 x 365 x 1,140 1,667 x 365 x 1,140)		
Net Weight		kg		105			98	
	Liquid	mm	Ø6.35			Ø6.35		
Piping	Gas	mm	Ø12.7			Ø12.7		
Connection	Water	mm	Ø6.35			-		
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)			Ø25 (1)		
Connection Duct Diamet	er	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

/ (cccssories	
CHASSIS	LZ-H050GXH4 LZ-H080GXH4 LZ-H100GXH4 LZ-H050GXN4 LZ-H080GXN4 LZ-H100GXN4
Drain Pump	<u>-</u>
Cassette Cover	·
Refrigerant Leakage Detector	PRLDNVS0
EEV Kit	-
Multi-tenant Power Module	
Robot Cleaner	·
Pre Filter (Washable)	-
Ion Generator	·
CO ₂ Sensor	AHCS100H0
Ventilation Kit	-
IR Receiver	-
Zone Controller	·
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)
External Input (1 point)	0
Wi-Fi	-

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

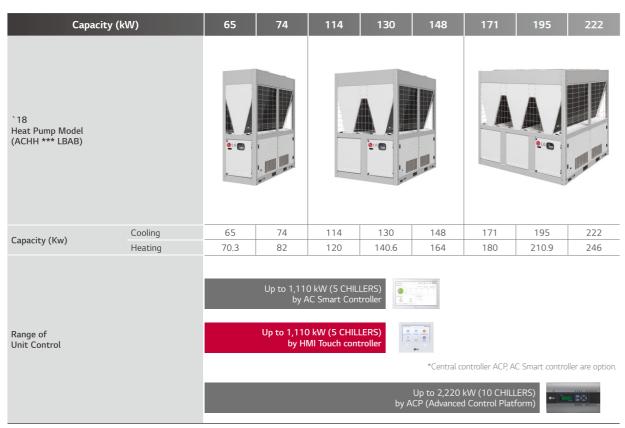
214-243

CHILLER



CHILLER 214 I 215

INVERTER SCROLL CHILLER



FCU

	(kW)*		2.7	3.2	4.1	6	7.2	9	10.5	13
	(kBtu/h)	6k	9k	11k	14k	20k	24k	30k	36k	44k
	4 Way Cassette	•	•	•	•	•	•	•	•	•
Ceiling Mounted Cassette	Body Size (W×H×D, mm)	57	0 × 214 × 5	570	570 × 256 × 570	840 × 20	04 × 840	840 × 246 × 84		440
	Front Panel	PT-UQC	, F	PT-QCHW0 (U-Style)			PT	-UMC	j	

		(kW)*	1.5	1.8	2.5	3.2	3.9	5.5	6.6
(kBtu/h)			4k	6k	9k	11k	13k	17k	22k
Ceiling Mounted	Low ESP Duct		•	•	•	•	•	•	•
Duct	Body Size (W×H×	D, mm)	700 × 19	90 × 700	900 × 19	90 × 700	1,	100 × 190 × 70	00

ACCESSORIES & PARTS FOR WATER PIPES CONNECTION

Remote Controller	Day Contact	ETC.	Not Offered b Purchased	y LG and to be Separately
Remote Controller	Dry Contact	EIC.	Parts for Water Pipes Connection	Installation Parts











LINE-UP

Premium PREMTA000(A/B) PDRYCB000 (Simple)

Remote Temperature Sensor

Rubber Packing (4EA, OD23 ×ID15 × t3.2) PQRSTA0

Ball Valve (2EA, FPT ¾", 20A)



Standard III 1) PREMTB100 (White) PREMTBB10 (Black)



PDRYCB400 (2 points)



Wi-Fi Modem PWFMDD200



Flexible Pipe (2EA, FPF 3/4", 350mm/500mm Ordered Specification)



Nipple (2EA, MPT ¾", MPF ¾")



Standard II PREMTB001 (White) PREMTBB01 (Black)



PDRYCB320 (for Thermostat)



Multi-tenant Power Module PINPMB001



(2EA, MPT ¾", MPF ¾")



(1EA, FPF ¾", #30)



Simple
PQRCVCLOQ(W)
PQRCHCAOQ(W) (for Hotel)



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



Group Control Wire PZCWRCG3



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



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



2-Remo. Control Wire PZCWRC2



Valve insulation Material (1EA)



Extension Wire PZCWRC1



Drain Hose 3) (1EA, 5m)

216 I 217

 [#] All lineups are for 2 pipes type only.
 * Based on Cooling Capacity. Cooling Capacity testing condition: Inlet/Outlet Water Temperature 7°C / 12°C, Indoor Air Temperature 27°CDB / 19°CWB

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



INVERTER SCROLL CHILLER

WHY LG INVERTER

SCROLL CHILLER

ULTIMATE INVERTER COMPRESSOR

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

All Inverter

Provide high efficiency with low vibration and low noise

Six By-pass Valves

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

01. Vapor Injection

Wide operating range via two-stage compression

02. Enhanced Bearing with PEEK Material

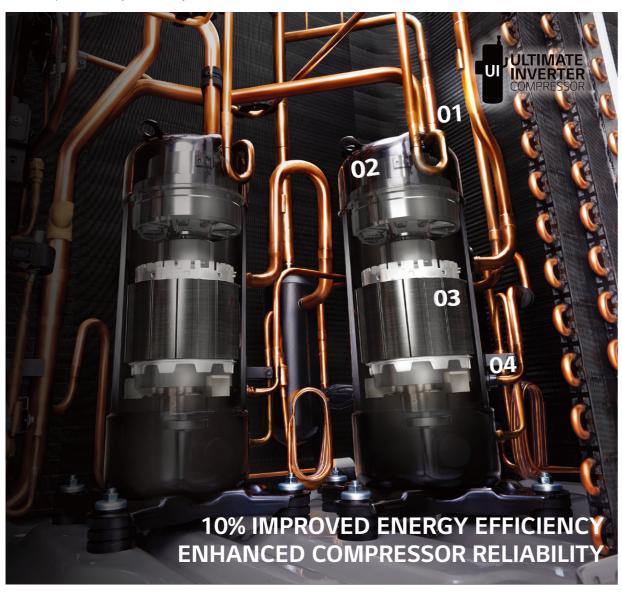
Newly invented system motivated by PEEK (Polyetheretherketone) bearing used for aero engine to increase operation range and durability

03. Wide Operation Range from 30 to 130 Hz

Improved part load efficiency at all operation ranges

04. HiPOR™ (High Pressure Oil Return)

Resolve compressor efficiency loss caused by oil return



Smart Farm



Small Industry (Process Water)



Hotel / Office



WHY LG INVERTER SCROLL CHILLER

TECHNOLOGIE

EFFICIENT INVERTER

All Inverter Scroll Compressor

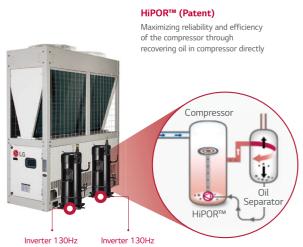
All inverter scroll compressor with HiPOR™ (Patent) is applied to improve full load and part load energy efficiency.

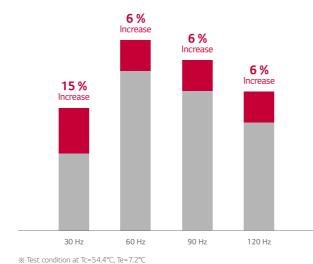
All Inverter System

Wide operation frequency range 30 ~ 130Hz

Compressor Efficiency

Compressor efficiency by Hz is increased through HiPOR™ application

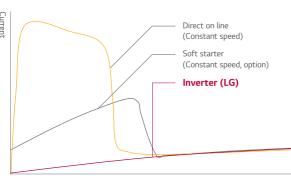




App. Inverter Comp. vs Constant Speed Comp.

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

Comparison of starting type



Elapse

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

^{*} FLA : Full load ampere

Inverter's feature & benefits

When starting	
Reduce starting torque below full load torque Mechanical wear	
Decrease starting current under FLA → Circuit breaker capacity↓	
When operating	
Low electric loss due to high value of the power factor** → Energy efficient	
Low power input in part load	

➡ High SEER

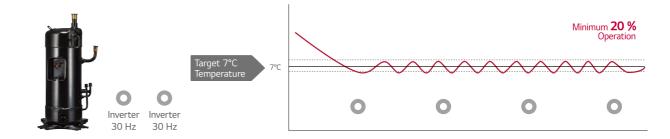
Continuously adjust compressor output according to the load (Compressor 15~125Hz)

⇒ Save energy

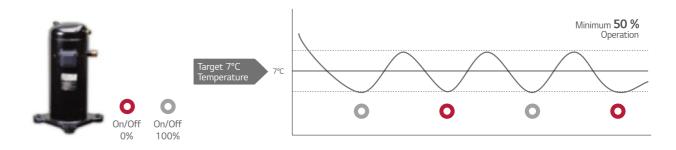
Lower Load Operation

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

LG Inverter Scroll Compressor

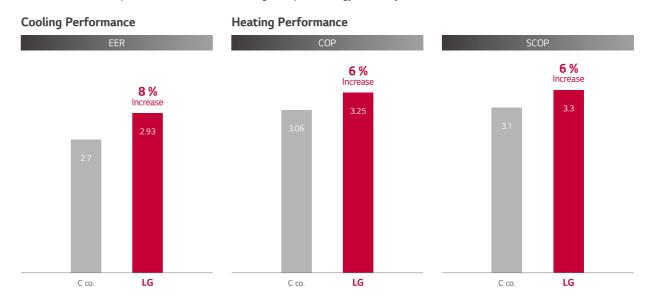


Normal On/Off Multi Compressor System



High Energy Efficiency

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



% 65 kW Heat pump model comparison

INVERTER SCROLL CHILLER KEY FEATURES

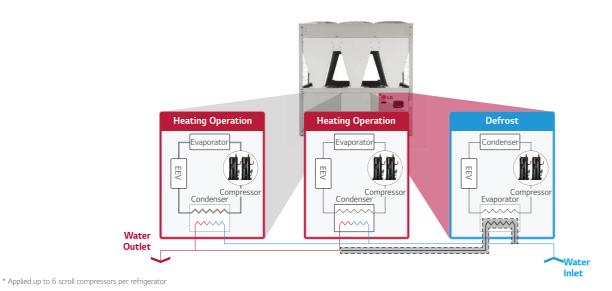
^{**} Power factor : Ratio between active power(kW) and total power(kVA)

RELIABILITY &

Continuous Heating Operation

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

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



Back Up Operation

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

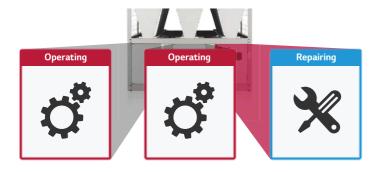
All Inverter System





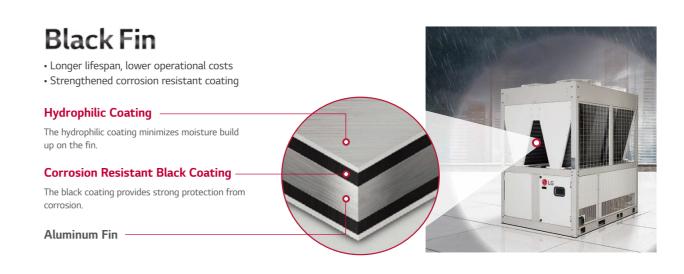


Cycle back up



Corrosion Resistance (Black Fin)

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



Black Box Function

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

Without Black Box Function

Check many failure causes and error codes in person



ke much service time and undergo trial and error

With Black Box Function

Search for the failure cause conveniently using recorded data



Save service time and diagnose it more accurately

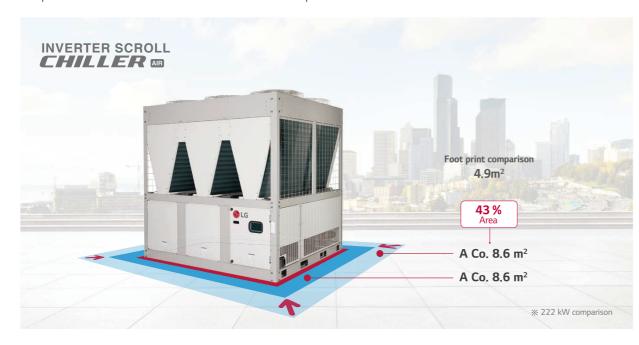


INVERTER SCROLL CHILLER KEY FEATURES

CONVENIENCE

Compact Size

Compact size reduces concern about installation and service space.



Low Noise Level

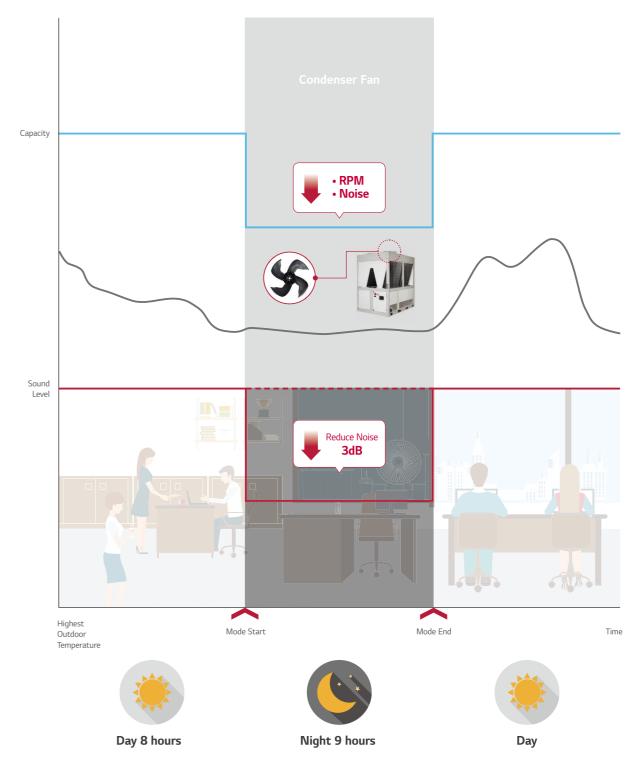
Lower noise can reduce noise pollution and provide a quieter environment.

Noise Comparison



Silent Operation Function (Cooling Mode)

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



INVERTER SCROLL CHILLER KEY FEATURES

ACHH020LBAB / ACHH023LBAB ACHH033LBAB / ACHH040LBAB







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

Heat pump model

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

Notes:

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

2. Capacities and Inputs are based on the following conditions
Cooling: Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C
Heating: Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C

3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured ISO 9614:2009 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.

ACHH045LBAB / ACHH050LBAB ACHH060LBAB / ACHH067LBAB







LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification INVERTER

SCROLL CHILLER

Heat pump model

INVERTER SCROLL C	UILLED		ACHH045LBAB	ACHH050LBAB	ACHH060LBAB	ACHH067LBAB
INVERTER SCRULL C	HILLEK		H/P	H/P	H/P	H/P
Power		Phase,Lines,V	3,4,380~415	3,4,380~415	3,4,380~415	3,4,380~415
	Cooling	kW	148	171	195	222
put Power ax operating Current efficiency EER COP bund Pressure bund power empressor efrigrant vaporator	Cooling	RT	42.1	48.6	55.4	63.1
Сарасіту	Hastina	kW	164	180	H/P 15	246
	Heating	RT	47	51	60	70
Leave Decree	Cooling	kW	54.8	55.2	66.6	82.2
Input Power	Heating	kW	54.7	52.9	64.9	82
Max operating Current		А	96	108	117	144
Efficiency	Cooling	W/W	2.70	3.10	2.93	2.70
	Heating	W/W	3.00	3.40	3.25	3.00
SEER		W/W	4.20	4.50	4.40	4.20
SCOP		W/W	3.30	3.30	3.30	3.30
Sound Pressure		dBA	68	68	68	68
	Cooling		91	88		92
Sound power	Heating	dBA	91	88	91	92
	Туре	-	Scroll	Scroll		Scroll
	No. of Compressor	EA	4	6		6
Compressor	Oil Type	-	PVE	PVE		PVE
	Oil charge	СС	1,400 x 4	1,400 x 6		1.400 x 6
	Sump Heater	W	60 x 4	60 x 6	,	60 x 6
	Туре	-	R410A	R410A		R410A
Refrigrant	Amount of Charged	Kg	7.0 kg x 4	7.0 kg x 6		7.0 kg x 6
	Type	-	plate	plate	_	plate
	Pressure drop	kPa	28.7	18.7		28.7
Evaporator	Operating maximum pressure (Refrigrant / Water)	kg/cm ²	42/10	42/10		42/10
	Standard Flow (Cooling/Heating)	LPM	411/470	490/518	558/600	633/705
	Inlet/Outlet diameter (Water pipe)	mm	65A/65A	65A/65A	65A/65A	65A/65A
	Туре	-	BLDC	BLDC	BLDC	BLDC
	No. of Fan	EA	4	6	6	6
Fan motor	No. of Vanes	EA	4	4	4	4
	Air Flow Rate	CMM	210 x 4 @1,000 rpm	210 x 6 @1,000 rpm	210 x 6 @1,000 rpm	210 x 6 @1,000 rp
	Motor power	W	900 x 4	900 x 6	900 x 6	900 x 6
Expansion unit		-	EEV	EEV	EEV	EEV
Weight		kg	970	1,430	1,430	1,430
	W	mm	1,528	2,291	2,291	2,291
Dimension	Н	mm	2,293	2,293	2,293	2,293
	D	mm	2,154	2,154	2,154	2,154
Footprint		m ² / RT	0.078	0.101	0.089	0.078
Drotostion Davisse	High/Low Pressure	-	•			•
Protection Devices	Anti Frost	-		•	•	•
Remote Control		-	Modbus	Modbus	Modbus	Modbus
Power	Power Line	mm ²	50.0mm ² x 5C	95.0mm ² × 5C	95.0mm ² × 5C	95.0mm ² × 5C
	Cooling	°C	5~20	5~20	5~20	5~20
Outlet Temperature	Heating	°C	30~55	30~55		30~55
	Cooling	°C	-15~48	-15~48		-15~48
Ambient Temperature	Heating	°C	-30~35	-30~35		-30~35
Earth Leakage Breaker	,	A	125	200		200

Notes:

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

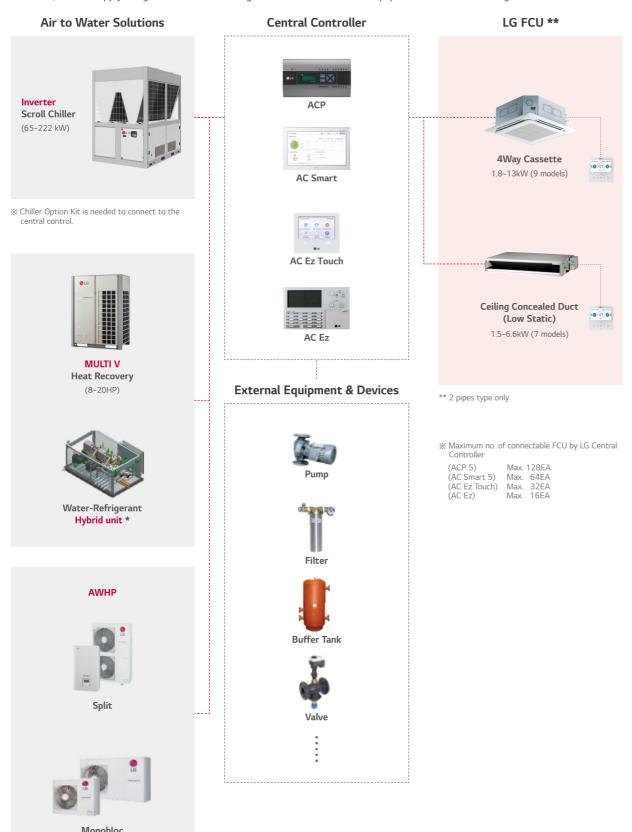
2. Capacities and Inputs are based on the following conditions
Cooling: Outdoor air temp. 35°C, Water inlet temp. 12°C, Water Outlet temp. 7°C
Heating: Outdoor air temp. 7°C, Water inlet temp. 40°C, Water Outlet temp. 45°C

3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured ISO 9614:2009 by sound intensity method. Therefore, these values can be increased owing to ambient conditions during operation.



Fan Coil Unit

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



Interlocking Control

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

What are the benefits?

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

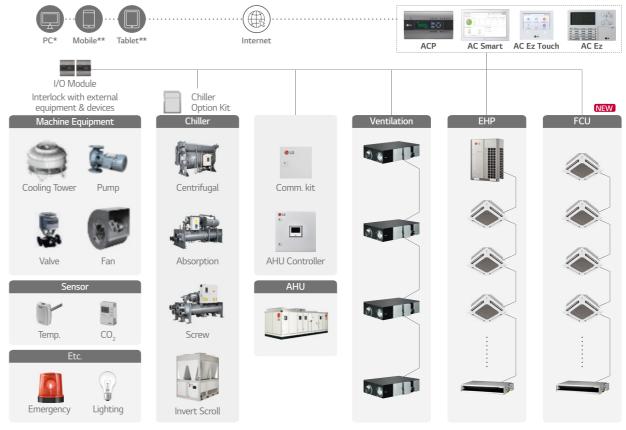


Central Controller

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

What are the benefits?

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

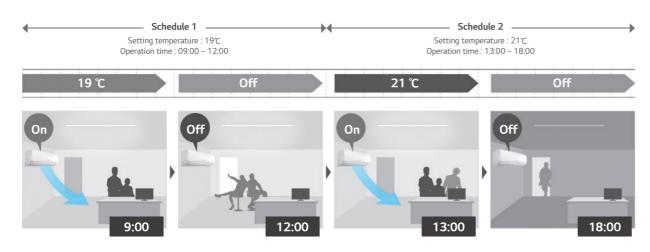


^{*} Unable to link AC Ez ** Unable to link AC Ez, AC Ez Touch

WHY LG FCU 232 | 233

Scheduled Operation

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



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

Group Control with One Remote Controller

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

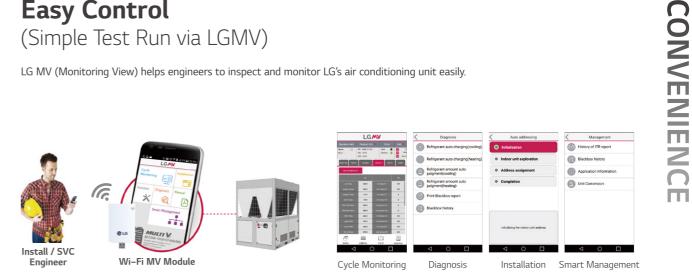


* If you set up to 'Installation Setting' > Group Control 'Enabled' in your Wired Remote Controller, you can use many more functions.

Easy Control

(Simple Test Run via LGMV)

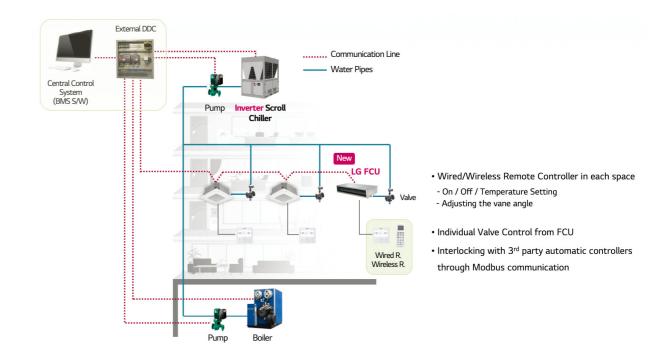
LG MV (Monitoring View) helps engineers to inspect and monitor LG's air conditioning unit easily.



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

Individual Control & External Central Control

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



FCU KEY FEATURES 234 I 235



Wi-Fi Remote Control

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



% Search "ThinQ" on Google market or App store then download the app.

* Wi-Fi modem (PWFMDD200) is required by option.

* Option of the property of the p

Access your air conditioner anytime and from anywhere

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



Simple operation for various functions

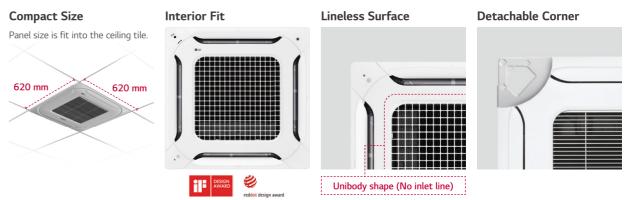
- On / Off **
- Set temperature **
- Mode Selection ** • Set fan speed **
- Current temperature ** Vane Control
- Energy Monitoring • Filter Management
- Smart Diagnosis
- ** This functions are used by Google assistant & Amazon Alexa % In some countries, the use of the Google assistant & Amazon Alexa system may be restricted.

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

Stylish Design Panel

(U-style 4Way cassette)

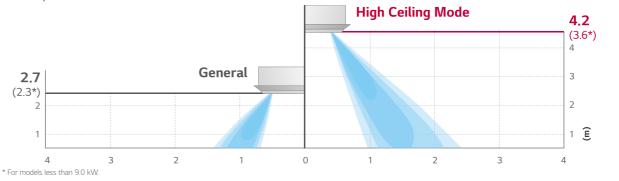
New 4 way cassette panel adapted a unibody shape and fits into the ceiling cell size.



 $\ \%$ U-Style panel corresponds to the PT-QCHW0 panel for WF4A018 / 027 / 032 / 041CG0A models

High Ceiling Mode

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



Convenient Panel Installation

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

Drain Leakage Check

Hanger Adjust

Detachable Corner Design



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

One Push Panel





FCU KEY FEATURES 236 I 237

WF4A018CG0A / WF4A027CG0A WF4A032CG0A / WF4A041CG0A WF4A060CG0A



INDOOR				WF4A018CG0A	WF4A027CG0A	WF4A032CG0A	WF4A041CG0A	WF4A060CG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60
Running Current b	y Voltage		А	0.37-0.37-0.37	0.38-0.38-0.38	0.40-0.40-0.40	0.35-0.42-0.42	0.62-0.69-0.69
		Condition A		1.8 (1,548)	2.7 (2,322)	3.2 (2,752)	4.1 (3,525)	6.0 (5,159)
	Caalina	Condition B	13/1/(lead / b)	1.2 (1,032)	1.8 (1,548)	2.2 (1,892)	2.8 (2,408)	4.0 (3,439)
Camanitus	Cooling	Condition C	kW (kcal / h)	1.5 (1,290)	2.3 (1,978)	2.8 (2,408)	3.6 (3,095)	4.9 (4,213)
Capacity		Condition D		0.7 (602)	1.2 (1,032)	230-240,	2.5 (2,150)	
	Heating	Condition A	kW (kcal / h)	1.9 (1,634)	2.7 (2,322)	3.3 (2,837)	4.5 (3,869)	7.2 (6,191)
	пеацііў	Condition B	KVV (KCal / II)	2.2 (1,892)	3.1 (2,666)	3.9 (3,353)	0, 1, 220-230-240 50/60 0, 0.35-0.42-0.42 4.1 (3,525) 2.8 (2,408) 3.6 (3,095) 1.8 (1,548) 4.5 (3,869) 5.4 (4,643) 13.5 10.8 13.5 8.1 13.5 43.7 27.8 43.7 16.4 56.5 56.5 43 0.42 Turbo Fan 12.0 / 10.0 / 8.0 BLDC CCW 43 x 1 0.42 0 570 x 256 x 570 14.0 16.3 - cooling and heating the Foamed polystren Fuse b) BSPF G 3/4" (male 48 / 43 / 38 48 / 43 / 38 48 / 43 / 38 56 / 50 / 45 56 / 50 / 45 56 / 50 / 45 56 / 50 / 45 1.0 ~ 1.5 PT-QCHWO 620 x 34 x 620 Morning fog	8.5 (7,309)
		Condition A		5.7	8.2	10.0	13.5	19.0
	Cooling	Condition B	LPM	4.6	6.6	8.0	10.8	14.4
Water Flow Rate	Cooling	Condition C	LPIVI	5.7	8.2	10.0	13.5	19.0
Water Flow Rate		Condition D		3.4	4.9	6.0	8.1	12.1
	Heating	Condition A	LPM	6.1	8.6	10.0	13.5	22.5
	Heating	Condition B	LPIVI	5.7	8.2	10.0	13.5	19.0
		Condition A		21.5	32.0	47.7	43.7	38.2
	Cooling	Condition B	kPa	13.7	20.3	30.3	27.8	23.6
Head Loss	Cooling	Condition C	Krd	21.5	32.0	47.7	43.7	38.2
Head Loss		Condition D		8.1	12.0	17.9	16.4	17.0
	Heating	Condition A	I ₂ D ₂	30.3	40.7	53.8	56.5	57.2
	Heating	Condition B	kPa	26.2	36.5	53.8	56.5	42.1
Power Input	Nominal		W	12	15	20	43	73
Running Current	Nominal		А	0.37	0.38	0.40	0.42	0.69
Fan	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Ган	Air Flow Ra	ate (H / M / L)	m³/min	6.5 / 5.5 / 5.0	7.0 / 6.5 / 6.0	8.5 / 8.0 / 7.0	12.0 / 10.0 / 8.0	19.0 / 17.0 / 15.0
	Туре		-	BLDC	BLDC	BLDC	BLDC	BLDC
Ean Motor	Drive		-	CCW	CCW	CCW	CCW	CCW
Fan Motor	Output		W x No.	30 x 1	30 x 1	30 x 1	43 x 1	40 x 1
	FLA (Full Lo	oad Ampere)	А	0.37	0.38	0.40	0.42	0.69
Dimensions	Net (W x H	l x D)	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	840 x 204 x 840
Weight	Net		kg	12.9	12.9	12.9	14.0	20.8
	Shipping		kg	15.7	15.7	15.7	16.3	24.9
Air Filter	Туре		-	-	-	-	-	-
Temperature Cont	rol		-		Microprocessor,	Thermostat for coo	oling and heating	
Sound Absorbing	/ Thermal Ins	sulation Material	-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse	Fuse	Fuse
Water	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)			
Connecting Pipes	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	,	,	BSPF G 3/4" (male)
Sound Pressure	Cooling (H	/ M / L)	dB (A)	35 / 34 / 33	38 / 37 / 35			48 / 46 / 42
Level	Heating (H	/ M / L)	dB (A)	35 / 34 / 33	38 / 37 / 35	43 / 40 / 38	48 / 43 / 38	48 / 46 / 42
Sound Power	Cooling (H	/ M / L)	dB (A)	40 / 39 / 38	44 / 42 / 40			55 / 53 / 49
Level	Heating (H		dB (A)	40 / 39 / 38	44 / 42 / 40	50 / 46 / 44	56 / 50 / 45	55 / 53 / 49
Connecting Cable	Communica (VCTF-SB)	ation Cable	mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5
	Name		-	PT-QCHW0	PT-QCHW0	,		PT-MCHW0
Decoration Panel	Dimensions	$s(W \times H \times D)$	mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620		950 x 35 x 950
#1 (Accessory)	Color		-	Morning fog	Morning fog	Morning fog	Morning fog	Morning fog
	RAL Code		-	120-4	120-4	120-4	120-4	120-4
	Name		-	-	-	-	-	-
Decoration Panel	Dimensions	$s(W \times H \times D)$	mm	-	-	-	-	-
#2 (Accessory)	Color		-	-	-	-	-	-
	RAL Code		-	-	-	-	-	-

WF4A072CG0A / WF4A090CG0A WF4A105CG0A / WF4A130CG0A



INDOOR				WF4A072CG0A	WF4A090CG0A	WF4A105CG0A	WF4A130CG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240, 50/60	1, 220-230-240 50/60
Running Current b	y Voltage		А	0.75-0.88-0.88	0.89-0.89-0.89	1.4-1.39-1.39	1.7-1.88-1.88
		Condition A		7.2 (6,191)	9.0 (7,739)	10.5 (9,028)	13.0 (11,178)
	Condition B	13.00	4.8 (4,127)	6.0 (5,159)	7.0 (6,019)	8.7 (7,481)	
Canacity	Cooling	Condition C	kW (kcal / h)	5.8 (4,987)	7.3 (6,277)	8.5 (7,309)	10.5 (9,028)
Capacity	Condition D			2.9 (2,494)	3.7 (3,181)	4.3 (3,697)	5.3 (4,557)
		Condition A		7.9 (6,793)	9.7 (8,340)	11.1 (9,544)	13.3 (11,436)
	Heating	Condition B	kW (kcal / h)	9.3 (7,997)	11.5 (9,888)	13.4 (11,522)	15.7 (13,500)
		Condition A		21.0	28.0	33.0	37.8
		Condition B		15.9	21.2	25.0	28.6
	Cooling	Condition C	LPM	21.0	28.0	33.0	37.8
Water Flow Rate		Condition D		13.4	17.8	21.0	24.1
		Condition A		24.5	28.0	33.0	39.1
	Heating	Condition B	LPM	21.0	28.0	33.0	37.8
		Condition A		45.9	56.3	80.4	68.2
		Condition B		28.4	31.5	44.0	38.9
	Cooling	Condition C	kPa	45.9	56.3	80.4	68.2
Head Loss				20.4	23.5	31.3	26.4
		Condition D		67.6	48.9	68.3	71.7
	Heating	Condition A	kPa				
		Condition B		49.6	48.9	68.3	68.3
Power Input	Nominal		W	93	103	167	246
Running Current	Nominal		А	0.88	0.89	1.39	1.88
Fan	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Air Flow Ra	ite (H / M / L)	m³/min	21.0 / 19.0 / 17.0	25.0 / 21.0 / 19.0	31.0 / 28.0 / 25.0	41.0 / 36.0 / 30.
	Туре		-	BLDC	BLDC	BLDC	BLDC
Fan Motor	Drive		-	CCW	CCW	CCW	CCW
	Output		W x No.	40 x 1	156 x 1	156 x 1	136 x 1
	FLA (Full Lo	oad Ampere)	А	0.88	0.89	1.39	1.88
Dimensions	Net (W x F	l x D)	mm	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840
Weight	Net		kg	20.8	23.2	23.2	25.1
	Shipping		kg	24.9	27.5	27.5	29.7
Air Filter	Туре		-	-	-	-	-
Temperature Cont	rol		-	Λ.	licroprocessor, Thermost	at for cooling and heatin	ng
Sound Absorbing /	Thermal In:	sulation Material	-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystren
Protection Device			-	Fuse	Fuse	Fuse	Fuse
Water	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Connecting Pipes	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure	Cooling (H	/ M / L)	dB (A)	51 / 48 / 46	51 / 47 / 43	55 / 53 / 51	57 / 53 / 50
Level	Heating (H		dB (A)	51 / 48 / 46	51 / 47 / 43	55 / 53 / 51	57 / 53 / 50
Sound Power	Cooling (H		dB (A)	57 / 55 / 52	59 / 54 / 51	63 / 61 / 58	65 / 61 / 57
Level	Heating (H	/ M / L)	dB (A)	57 / 55 / 52	59 / 54 / 51	63 / 61 / 58	65 / 61 / 57
Connecting Cable	Communica (VCTF-SB)		mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5
	Name		-	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
Decoration Panel		s (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
#1 (Accessory)	Color	, , , , , ,	-	Morning fog	Morning fog	Morning fog	Morning fog
,	RAL Code		_	120-4	120-4	120-4	120-4
	Name			-	-	-	-
		S (W x H x D)	mm	_	_	_	_
Decoration Panel #2 (Accessory)	Color	S (W X II X D)	-	_	_	_	_

FCU SPECIFICATIONS

FCU LOW ESP DUC

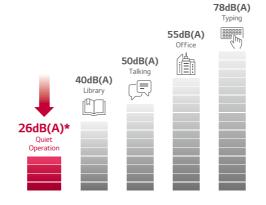


Quiet Operation

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

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

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



Two Thermistors Control

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

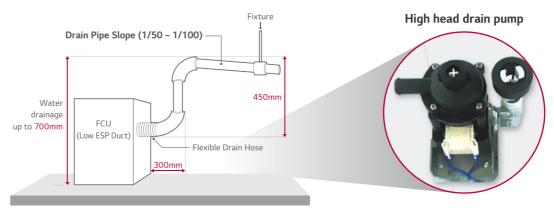
Compares temperatures sensed from different positions, and automatically selects the optimal temperature for users.

* Need to connect the wired remote controller.



High Head Drain Pump

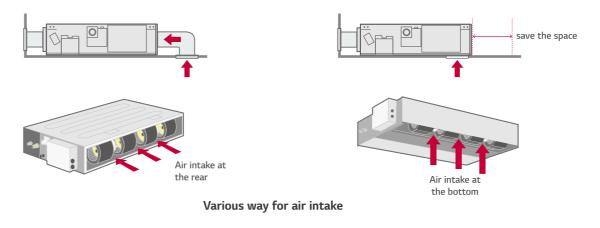
High head drain pump automatically drains water up to a height of 700mm of drain-head height.



* All of LG's FCU's have a high head drain pump built in.

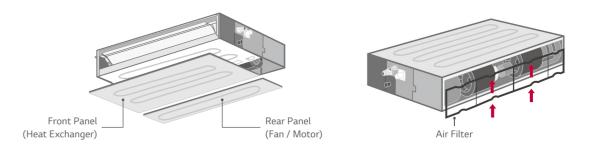
Flexible Installation

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



Easy Service & Maintenance

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



FCU KEY FEATURES 240 I 241

WFCA012RG0A / WFCA018RG0A WFCA025RG0A / WFCA032RG0A

WFCA039RG0A / WFCA055RG0A WFCA066RG0A





INDOOR				WFCA012RG0A	WFCA018RG0A	WFCA025RG0A	WFCA032RG0A
Power Supply			Ø, V, Hz	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50
Running Current b	y Voltage		A	0.29-0.29029	0.31-0.31-0.31	0.32-0.32-0.32	0.35-0.35-0.35
		Condition A		1.3 (1,118)	1.8 (1,548)	2.5 (2,150)	3.2 (2,752)
	6 1	Condition B		1.1 (946)	1.5 (1,290)	2.1 (1,806)	2.7 (2,322)
	Cooling	Condition C	kW (kcal / h)	1.2 (1,032)	1.6 (1,376)	2.2 (1,892)	2.8 (2,408)
Capacity		Condition D		0.7 (602)	0.9 (774)	1.3 (1,118)	1.6 (1,376)
		Condition A	134/4 1/13	2.0 (1,721)	2.8 (2,408)	3.2 (2,752)	3.8 (3,267)
	Heating	Condition B	kW (kcal / h)	2.1 (1,806)	3.0 (2,581)	3.6 (3,095)	4.4 (3,783)
		Condition A		4.0	5.6	7.4	9.3
	C !:	Condition B	1.014	4.0	5.6	7.4	9.3
	Cooling	Condition C	LPM	4.0	5.6	7.4	9.3
Water Flow Rate		Condition D		2.7	4.0	5.0	6.3
		Condition A	1014	6.2	8.5	9.7	11.4
	Heating	Condition B	LPM	4.0	5.6	7.4	9.3
		Condition A		1.2	3.3	7.6	11.8
	Cooling	Condition B	1.0	1.2	3.3	7.6	11.8
	Cooling	Condition C	kPa	1.2	3.3	7.6	11.8
Head Loss		Condition D		0.8	2.3	5.3	8.2
		Condition A	1.0	4.4	8.5	12.5	17.8
	Heating	Condition B	kPa	2.0	3.5	6.9	11.4
Power Input	Nominal		W	8	17	20	27
Running Current	Nominal		А	0.29	0.31	0.32	0.35
	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Air Flow Rate (H / M / L)		m³ / min	5.5 / 5.0 / 4.5	8.0 / 7.0 / 6.0	8.0 / 7.5 / 7.0	9.8 / 8.8 / 8.0
Fan	External Static Pressure (Standard mode)		mmAq	0	0	0	0
	External St (High mode	atic Pressure e)	mmAq	0	0	0	0
	Туре		-	BLDC	BLDC	BLDC	BLDC
Fan Motor	Drive		-	CW	CW	CW	CW
I all Motor	Output		W x No.	19 x 1	19 x 1	19 x 1 + 5 x 1	19 x 1 + 5 x 1
	FLA (Full Lo	oad Ampere)	А	0.29	0.31	0.32	0.35
Dimensions	Net (W x ⊢	l x D)	mm	700 x 190 x 700	700 x 190 x 700	900 x 190 x 700	900 x 190 x 700
Difficusions	Shipping (V	V x H x D)	mm	842 x 235 x 766	842 x 235 x 766	1,042 x 235 x 766	1,042 x 235 x 766
Weight	Net		kg	17.5	17.5	22.0	22.0
vveignt	Shipping		kg	21.9	21.9	26.9	26.9
Air Filter	Туре		-	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Temperature Cont	rol		-	N	licroprocessor, Thermost	at for cooling and heatir	ng
Sound Absorbing	/ Thermal In:	sulation Material	-	Foamed polystrene	Foamed polystrene	Foamed polystrene	Foamed polystrene
Protection Device			-	Fuse	Fuse	Fuse	Fuse
Water	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Connecting Pipes	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)
Sound Pressure	Cooling (H	/ M /L)	dB(A)	31 / 30 / 29	33 / 32 / 31	31 / 30 / 29	33 / 32 / 31
Level	Heating (H	/ M / L)	dB(A)	31 / 30 / 29	33 / 32 / 31	31 / 30 / 29	33 / 32 / 31
Sound Power	Cooling (H	/ M /L)	dB(A)	38 / 36 / 35	46 / 43 / 39	41 / 40 / 39	46 / 43 / 41
Level	Heating (H	/ M / L)	dB(A)	38 / 36 / 35	46 / 43 / 39	41 / 40 / 39	46 / 43 / 41
Connecting Cable	Communica (VCTF-SB)	ation Cable	mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5

INDOOR				WFCA039RG0A	WFCA055RG0A	WFCA066RG0A	
Power Supply			Ø, V, Hz	1, 220-230-240, 50	1, 220-230-240, 50	1, 220-230-240, 50	
Running Current b	y Voltage		А	0.26-0.37-0.37	0.36-0.44-0.44	0.70-0.71-0.71	
	Condition A			3.9 (3,353)	5.0 (4,299)	6.6 (5,675)	
	Cooling	Condition B	kW (kcal / h)	3.3 (2,837)	4.2 (3,611)	5.5 (4,729)	
Capacity	Cooling	Condition C	KVV (KCal / II)	3.5 (3,009)	4.4 (3,783)	5.9 (5,073)	
Сарасіту	Condition D			2.0 (1,721)	2.5 (2,150)	3.3 (2,837)	
	Condition A		kW (kcal / h)	4.2 (3,611)	5.3 (4,557)	6.6 (5,675)	
	Heating	Condition B	KVV (KCal / fl)	5.0 (4,299)	6.4 (5,503)	8.0 (6,879)	
		Condition A		13.3	17.0	21.7	
	Caalina	Condition B	LPM	13.3	17.0	21.7	
Water Flow Rate	Cooling	Condition C	LPIVI	13.3	17.0	21.7	
		Condition D		9.0	11.5	14.7	
	Heating	Condition A	LPM	13.3	17.0	21.7	
	Condition B		LPIVI	13.3	17.0	21.7	
		Condition A		21.7	39.0	53.9	
	Caalina	Condition B	kPa	21.7	39.0	53.9	
Head Loss	Cooling	Condition C	Krd	21.7	39.0	53.9	
Hedu LUSS		Condition D		5.7	27.2	37.6	
	Hastina	Condition A	kPa	30.3	48.3	71.7	
	Heating	Condition B	KPd	30.3	48.3	71.7	
Power Input	Nominal		W	29	44	81	
Running Current	Nominal		Α	0.37	0.44	0.71	
	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Air Flow Rate (H / M / L)		m³ / min	10.7 / 9.3 / 7.2	14.4 / 10.7 / 9.3	20.1 / 17.3 / 14.4	
Fan	External Static Pressure (Standard mode)		mmAq	0	0	0	
	External Static Pressure (High mode)		mmAq	0	0	0	
	Туре		-	BLDC	BLDC	BLDC	
Fan Motor	Drive		-	CW	CW	CW	
i aii iviocoi	Output		W x No.	19 x 2	19 x 2	19 x 2	
	FLA (Full L	oad Ampere)	Α	0.37	0.44	0.71	
Dimensions	Net (W x H x D)		mm	1,100 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700	
	Shipping (\	$V \times H \times D$)	mm	1,242 x 235 x 766	1,242 x 235 x 766	1,242 x 235 x 766	
Weight	Net		kg	26.2	26.2	26.2	
_	Shipping		kg	30.7	30.7	30.7	
Air Filter	Туре		-	Pre Filter	Pre Filter	Pre Filter	
Temperature Cont	rol		-	Microproc	essor, Thermostat for cooling an	_	
Sound Absorbing	/ Thermal In	sulation Material	-	Foamed polystrene	Foamed polystrene	Foamed polystrene	
Protection Device			-	Fuse	Fuse	Fuse	
Water	Inlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	
Connecting Pipes	Outlet		-	BSPF G 3/4" (male)	BSPF G 3/4" (male)	BSPF G 3/4" (male)	
Sound Pressure	Cooling (H	/ M /L)	dB(A)	28 / 27 / 26	31 / 28 / 26	38 / 34 / 31	
Level	Heating (H	I / M / L)	dB(A)	28 / 27 / 26	31 / 28 / 26	38 / 34 / 31	
Sound Power	Cooling (H	/ M /L)	dB(A)	43 / 41 / 40	47 / 42 / 41	55 / 52 / 48	
Level	Heating (H	I / M / L)	dB(A)	43 / 41 / 40	47 / 42 / 41	55 / 52 / 48	
Connecting Cable	Communica (VCTF-SB)	ation Cable	mm² x cores	1.0 ~ 1.5	1.0 ~ 1.5	1.0 ~ 1.5	

FCU SPECIFICATIONS

244-319

CONTROL SOLUTIONS

INDIVIDUAL CONTROL / CENTRALIZED CONTROL / INTEGRATION DEVICE





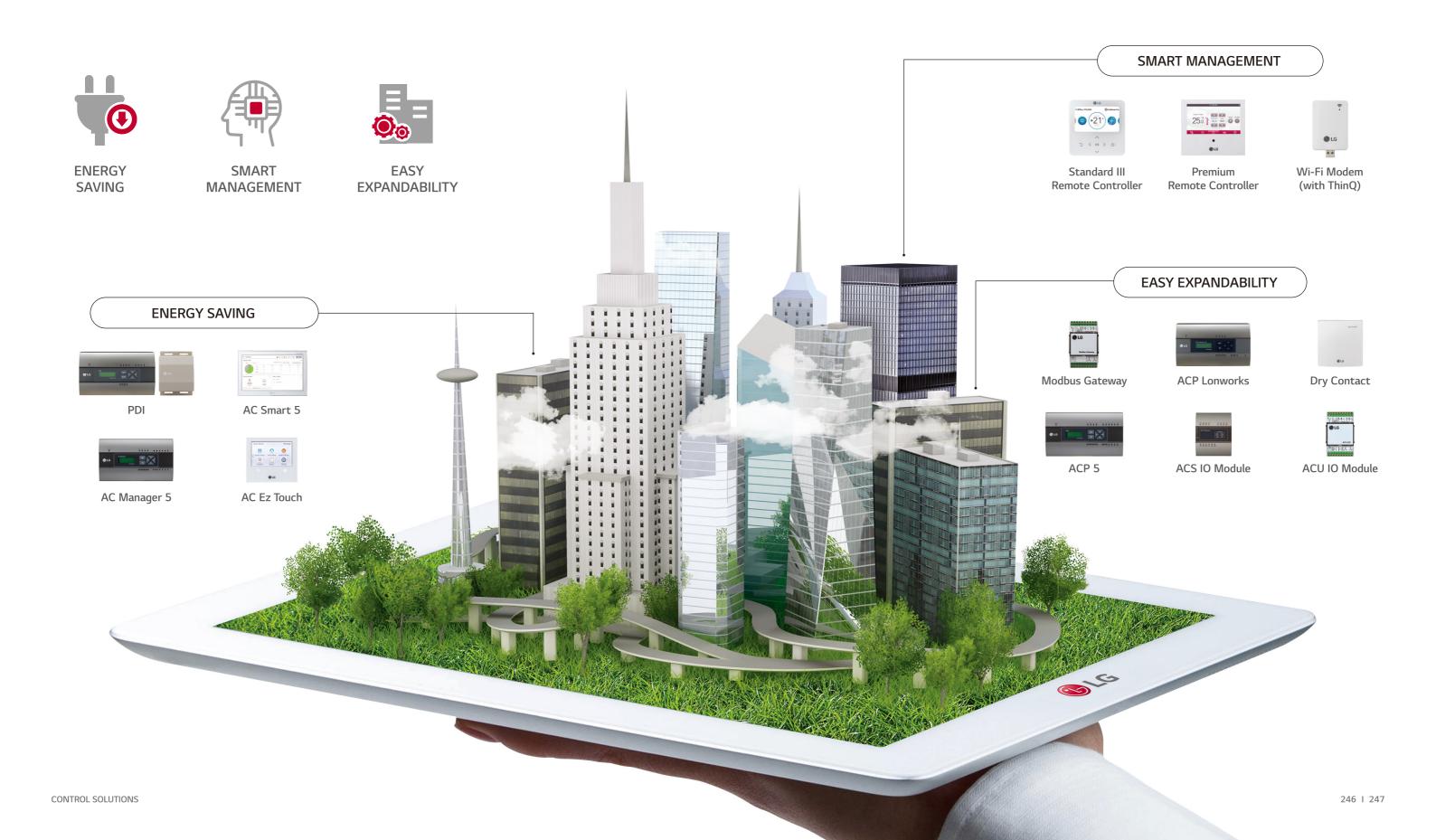
The perfect choice for innovative building management

LG BECON HVAC SOLUTION

Innovative building management solution in your hands.

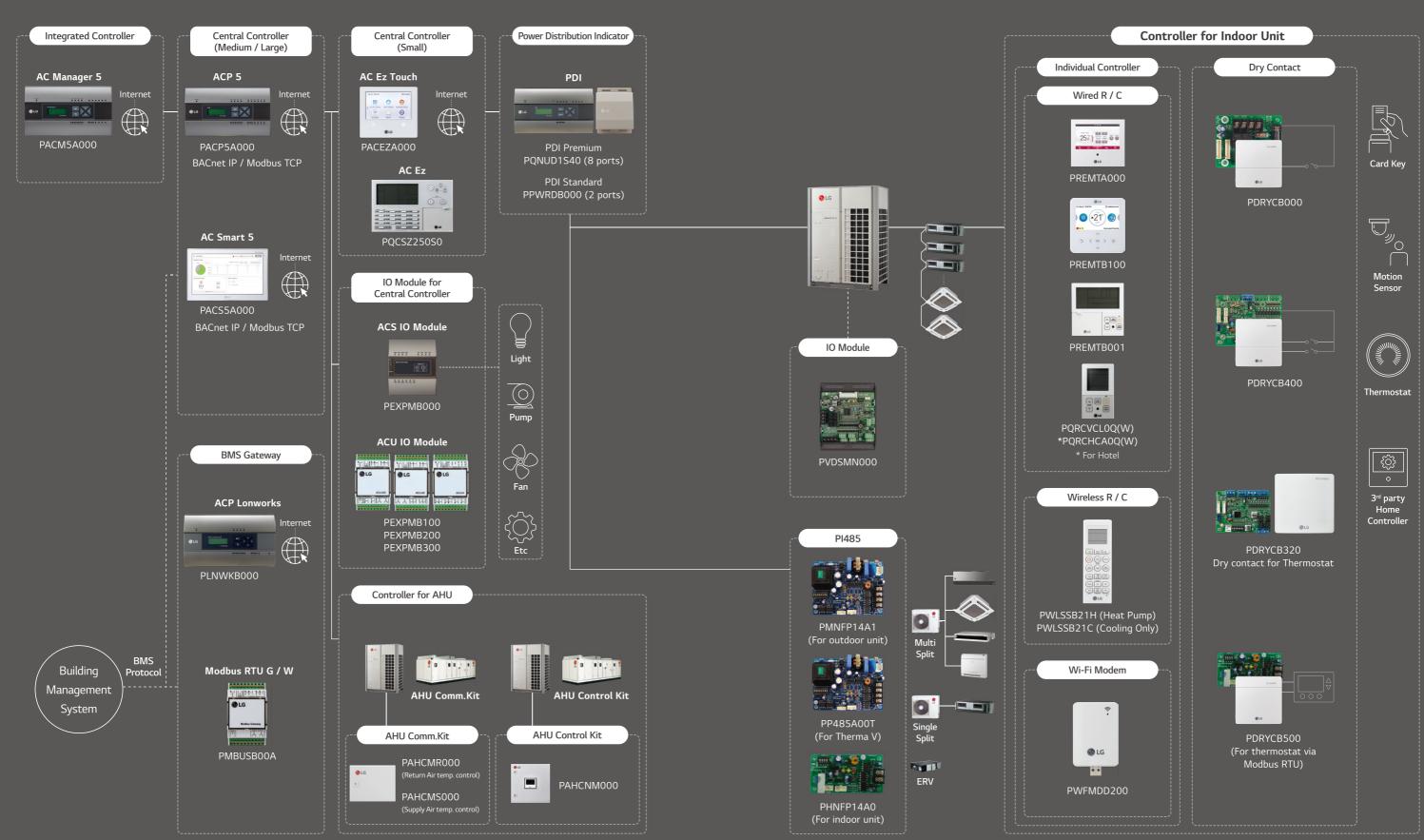
Our optimized solutions provide integrated control for customers configuration of various equipment in building and intuitive interface to maximize efficiency of operations.

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



CONTROL SYSTEM ARCHITECTURE

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





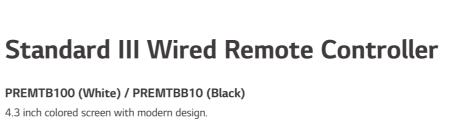
Feature Functions

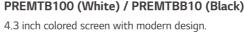
Controller Name			Wire	d Remote Cont	roller		Wireless	Wi-Fi
Controller	Ivame	Premium	Standard III	Standard II	Simple	Simple (Hotel)	Remote Controller	Modem
Model Name		250) 100 00 00 00 00 00 00 00 00 00 00 00 00	0.000					• LG
		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMDD200
	On / Off	0	0	0	0	0	0	0
	Fan Speed Control	0	0	0	0	0	0	0
	Temperature Setting	0	0	0	0	0	0	0
	Mode	0	0	0	0	-	0	0
	Auto Swing	0	0	0	0	0	0	0
	Vane Control (Louver Angle)	0	0	0	0	0	0	0
Basic	E.S.P (External Static Pressure)	0	0	0	0	0	-	-
	Electric Failure Compensation	0	0	0	0	0	-	0
	Indoor Temperature Display	0	0	0	0	0	0	0
	All Button Lock (Child Lock)	0	0	0	0	0	-	-
	Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off	Weekly
	Wi-Fi AP Mode Setting	0	0	0	0	0	0	-
	Additional Mode Setting 1)	0	0	0	-	-	-	-
	Time Display	0	0	0	-	-	0	-
	Humidity Display	0	0	-	-	-	-	-
	Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
	Filter Sign	0	0	0	-	-	-	-
Advanced	Energy Management 2)	0	0	0	-	-	-	-
	Dual Set Point	0	0	-	-	-	-	-
	Human Detection	-	0	-	-	-	-	-
	Temp, Humidity Compensation	0	0	-	-	-	-	-
	Air Purify Control	-	0	-	-	-	0	0
	Air Quality Level	-	0	-	-	-	-	0
	Dual Vane (6 Airflows mode)	-	0	-	-	-	0	0
	Operation Status LED	0	0	0	0	0	-	-
	Wireless Remote Controller Receiver	O 3)	-	○ 3)	○ 3)	○ 3)	-	-
ETC	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26	48 x 68 x 14
	Black Control for Screen Saver	0	0	-	-	-	-	-

CONTROL SOLUTIONS 250 I 251

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

CONTROL SOLUTIONS















Comfort & Reliability Modern Design (Air Purify)





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Convenience

Energy Management

LG Commercial

through QR code.

Air Solutions

information, please visit our Youtube channel

ı	nterlockin

MODEL NAME	PREMTB100 / PREMTBB10
On / Off	0
Fan Speed Control	0
Temperature Setting	0
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting 1)	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	0
Vane Control (Louver direction)	0
E.S.P (External Static Pressure) 2)	0
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	0
Electric Failure Compensation	0
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	0
Air Purify Control 4)	0
Air Quality Level 4)	0
Indoor Temperature Display	0
Indoor Humidity Display	0
Human Detection	0
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	0
Home Leave	2 set points control

- ж U : Applied, : Not Applied) The function is available in some product. (Refer to the product data Book). 2) This function is available for duct type. 3) This function requires PDI (PQNUD1540 / PPWRDB000) to be installed. 4) This function is available for indoor units that provide corresponding function.

- 1. Indoor unit needs to have functions requested by the controller.
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.



Design

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

Comfort & Air Purification

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

Energy Contents

- Power consumption monitoring
- Operation time monitoring
- Temperature setback

Comfort Level

- Time limit control

Advanced Functions

- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting

Energy Contents

- Defrost noise setting
- ODU capacity control
- Schedule functions



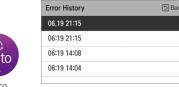












Error History

Comfort Level

This indoor unit has

been run for 1 hours,

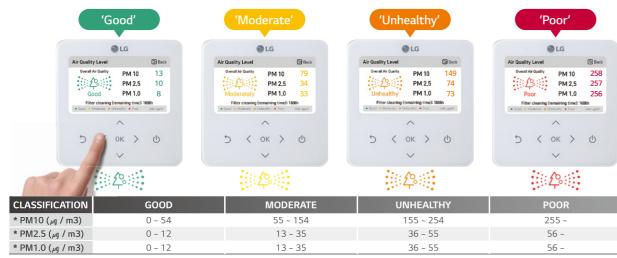
CONTROL SOLUTIONS 252 I 253

Standard III Wired Remote Controller

Air Quality Level Display

Easy check for indoor air quality

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



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

 If the dust diameter is under 10 micrometers, it is PM10. And under 2.5 micrometers, it's PM2.5.

Environment Display

Displaying environment information for the more user comfort

Temperature / Humidity / Comfort level / CO₂ concentration







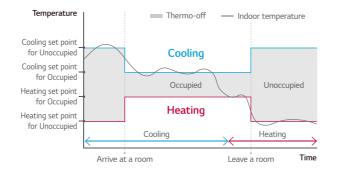
Dual Set Point

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 (PONUD1S40 / PPWRDB000) is required.



Instantaneous Power Check

Energy Usage Target Setting

Time Limit Control

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



Schedule Function

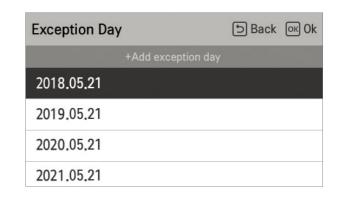
Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day Settings

Possible to set up exceptional date on regular schedule.



External Device On / Off

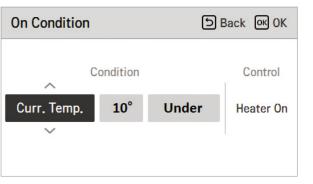
External Equipment Control

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



Customized Interlocking Control

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



Premium Wired Remote Controller





PREMTA000 1) / PREMTA000A 2) / PREMTA000B 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	0
Fan Speed Control	0
Temperature Setting	0
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting 1)	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	0
Vane Control (Louver direction)	0
E.S.P (External Static Pressure) 2)	0
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	0
Electric Failure Compensation	0
Child Lock	0
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	0
Indoor Temperature Display	0
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	0
Home Leave	2 set points control

- O : Applied, : Not Applied
 It might not be indicated or operated at the partial product.
 This function is available for duct type.
 This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
- 4) For ceiling type ducted unit
- A) For certifying you outced 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





INDIVIDUAL CONTROL

Easy Scheduling

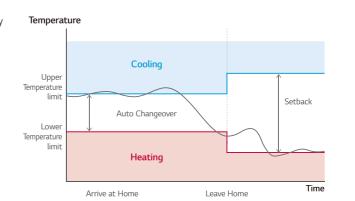
- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy





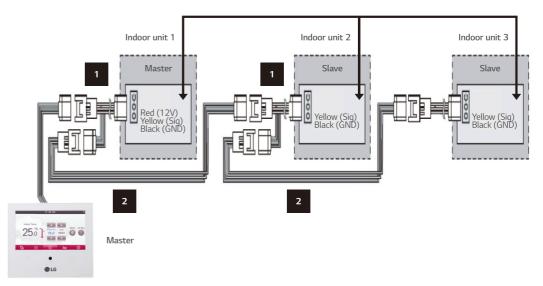
Dual Set Point

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



Group Control

- Max. 16 Indoor units by one remote controller



Standard II Wired Remote Controller

PREMTB001 / PREMTBB01

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





Features & Benefits

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

MODEL NAME	PREMTB001 / PREMTBB01
On / Off	0
Fan Speed Control	0
Temperature Setting	0
Mode	Cool / Heat / Dry / Fan / Auto
Additional Mode Setting	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	0
Vane Control (Louver direction)	0
E.S.P (External Static Pressure)	0
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	0
Electric Failure Compensation	0
Child Lock	0
Filter Sign	○ (Remain time + Alarm)
Operation Status LED	0
Indoor Temperature Display	0
Wireless Remote Controller Receiver	O 1)
Size (W x H x D, mm)	120 x 121 x 16
Black Light	0
Power Consumption Monitoring	○ ²⁾
Check Model Information	0

Simple Wired Remote Controller

PQRCVCLOQW (White) / PQRCVCLOQ (Black) / PQRCHCAOQW (White) / PQRCHCAOQ (Black)

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







Features & Benefits

· Small remote control with minimal functionality.

MODEL NAME	PQRCVCLOQW / PQRCVCLOQ	PQRCHCA0QW / PQRCHCA0Q
On / Off	0	0
Fan Speed Control	0	0
Temperature Setting	0	0
Mode	Cool / Heat / Dry / Fan / Auto	-
Auto Swing	0	0
Vane Control (Louver direction)	0	0
E.S.P (External Static Pressure)	0	0
Electric Failure Compensation	0	0
Child Lock	0	0
Indoor Temperature Display	0	0
Wireless Remote Controller Receiver	O 1)	O 1)
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Black Light	0	0

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 Temperature Setting Cool / Heat / Dry / Fan / Auto Mode Additional Mode Setting Air Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry Auto Swing 0 Vane Control (Louver direction) Reservation Time Display Indoor Temperature Display 0 Max. 7 hours Sleep Mode Auto Size (W x H x D, mm) 51 x 153 x 26

CONTROL SOLUTIONS 258 I 259

[※] O : Applied, - : Not Applied

 For ceiling type ducted unit
 This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

Note: Indoor unit needs to have functions requested by the controller.

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

Wi-Fi Modem



PWFMDD200

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



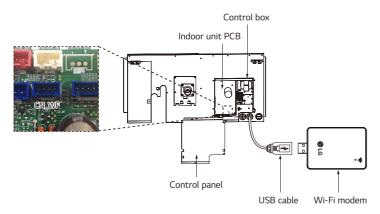
Features & Benefits

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (ThinQ) is available.
- Simple operation for various functions.
- 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	ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

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

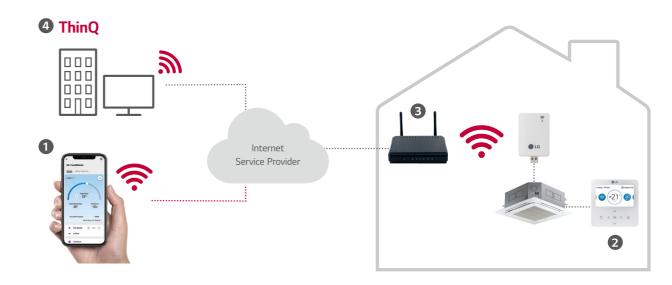


** The Wi-Fi communication distance and reliability may be vary due to the type of Wi-Fi router and the installation environment, Please refer to the manual.

ThinQ Connectivity

Connection (Pairing) Order

- Make LG account on ThinQ (Application) and login.
- 2 Select the installed product and set AP (Access Point) mode by wired / wireless remote controller.
- 3 Select the Wi-Fi network that will be used and insert the passwords.
- 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.





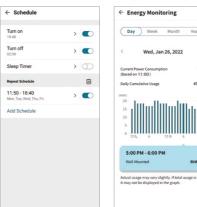




Easy Management

Reservation

Energy Monitoring



Smart Diagnosis

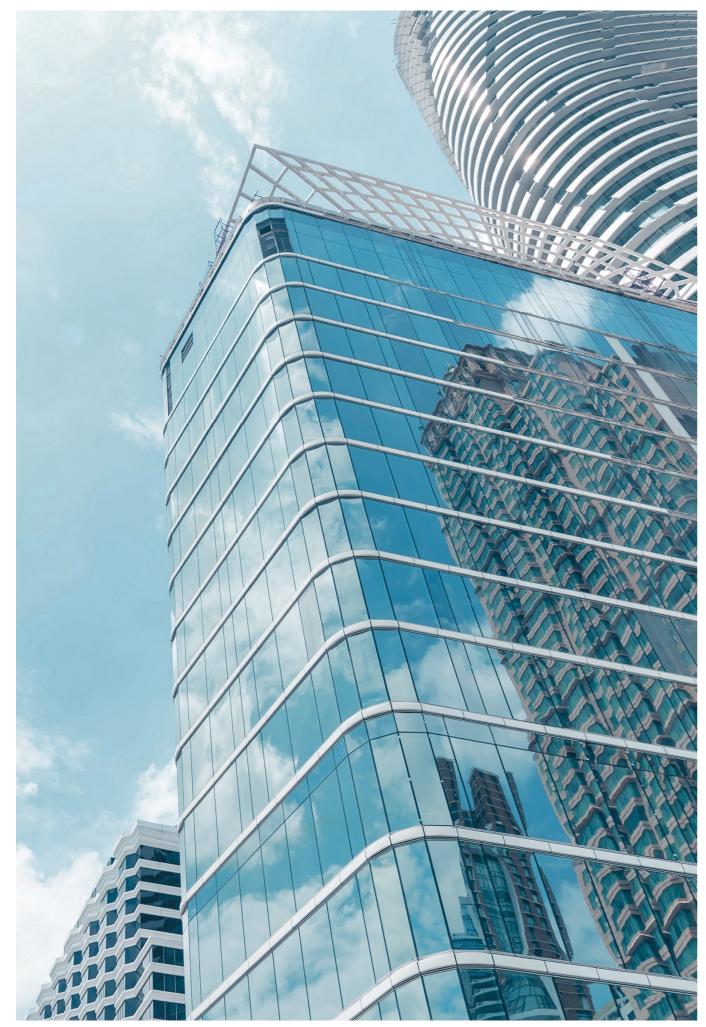


Filter Management

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

CONTROL SOLUTIONS 260 I 261

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Feature Functions

Controller Na	me		AC Ez	AC Ez Touch	AC Smart 5 6)	ACP 5 ⁶⁾	ACP Lonworks	AC Manager 5 7
Model Name		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#15 TO 10 TO	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	•4	•14 · · · · · · · · · · · · · · · · · · ·	PLS TOTAL STATE OF THE STATE OF	
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PLNWKB000	PACM5A000
	DO		-	-	2	4	2	-
	DI		-	1	2	10	2	-
		IDUs	32	64	128	256	64	8,192
Product		ERV	32	64	128	256	64	8,192
	Max. Connectable	A / C + ERV	32	64	128	256	64	8,192
	No.	AHU	-	-	16	16	16 ⁵⁾	16 x 32
		Chiller	-	-	5 Optional 4)	10 Optional 4)	-	10 x 32
		Commercial Air Purifier 1)	-	-	64	128	-	128 x 32
	Air Conditione	r	O 3)	0	0	0	0	0
	Ventilation (ER	RV / ERV DX)	O 4)	0	0	0	0	0
	Heating		-	0	0	0	0	0
Compatibility	AHU		-	-	0	0	0	0
	Chiller		-	-	O ⁵⁾	O ⁵⁾	-	0
	Commercial Air Purifier 1)		-	-	O 5)	O 5)	-	0
	ACS IO	ACS IO		-	0	0	O 5)	0
	Add Drawing		-	-	O 5)	O 5)	O 5)	0
	Group Management		-	0	O 5)	O ⁵⁾	O 5)	0
	Auto Changer Over		-	0	O 5)	O ⁵⁾	O 5)	0
	Set Back		-	0	O 5)	O 5)	O 5)	0
Additional Function	Dual Setpoint		-	0	0	0	O 5)	0
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter
	Indoor Unit Lock		O 2)	0	0	0	O 5)	-
	Cycle Monitori	ycle Monitoring		-	0	0	O 5)	0
	Air Purify		-	O 5)	O 5)	O 5)	-	0
Schedule			0	0	O 5)	O 5)	O 5)	0
		Energy & Priority Control	-	0	0	0	O 5)	0
Auto Control	Peak Control	Outdoor Unit Capacity Control	-	-	O 5)	O ⁵⁾	O 5)	0
	Time limit cont	trol	-	-	O 5)	O 5)	O 5)	0
	Interlocking		-	-	O 5)	O 5)	O 5)	0
Energy Navigat	ion		-	-	O 5)	O 5)	-	0
	Power		-	0	0	0	O 5)	0
Energy	Gas		-	-	0	0	O ⁵⁾	0
Report	Run time		-	-	O ⁵⁾	O ⁵⁾	O 5)	0
	Save to PC / U	ISB (Excel)	-	-	PC / USB ⁵⁾	PC	PC	PC
Trend Reportin	g		-	-	O ⁵⁾	O ⁵⁾	-	0
	Report (Contro	ol / Error)	-	Error	O ⁵⁾	O ⁵⁾	O 5)	0
History	Send Email		-	-	O ⁵⁾	O ⁵⁾	O 5)	0
	Save to PC / U	ISB (Excel)	-	-	PC / USB	PC	O 5)	PC
	Summer Time		-	0	O ⁵⁾	O ⁵⁾	O 5)	0
	Outdoor Unit (Oil-Return Operation	-	-	O 5)	O ⁵⁾	O 5)	-
etc	User Authority	,	-	Password	O ⁵⁾	O ⁵⁾	O 5)	0
	PC Access		-	0	O 5)	O 5)	O 5)	0

^{※ ○ :} 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.)

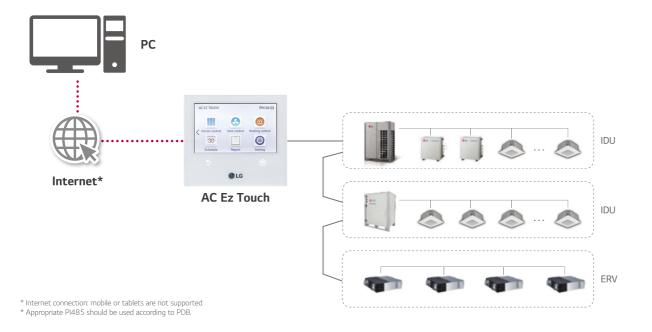
4) Except for some feature (User mode, additional function, etc.)

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.

AC Ez Touch



PACEZA000

Smart management with 5 inch touch screen for small site.



MODEL NAME	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
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	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly / Monthly / Yearly / Exception day
Remote Access	By client S/W (Neither Android nor IOS are supported)
Emergency Stop & Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation History	Error record
ODU Low Noise 1)	0
Daylight Saving Time	0
External IO Port	DI 1
IPv6 Support	0
Air Purify Control	0
Air Quality Level	0

^{※ ○ :} Applied, - : Not Applied1) It is only available in some products.

PC Access

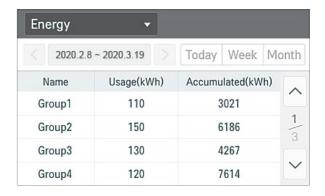
Users can control each space efficiently through PC access.



- * IPv6 supported
- Onen nort 80 & 930
- Fix public IP is mandatory. Router configuration of NAT is required.

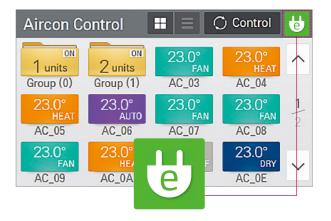
Energy Statistics (with PDI)

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

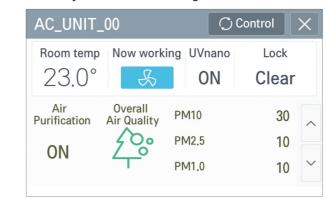


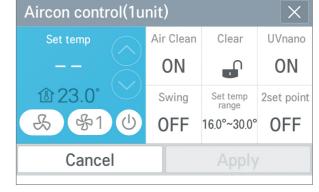
Energy Mode

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



Air Purify Control & Monitoring

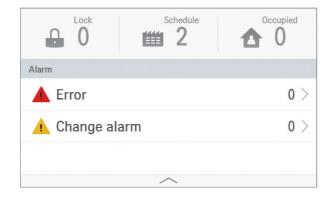




AC Ez Touch

Alarm Indicator

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



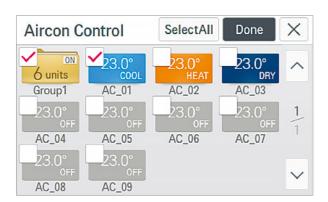
Schedule

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

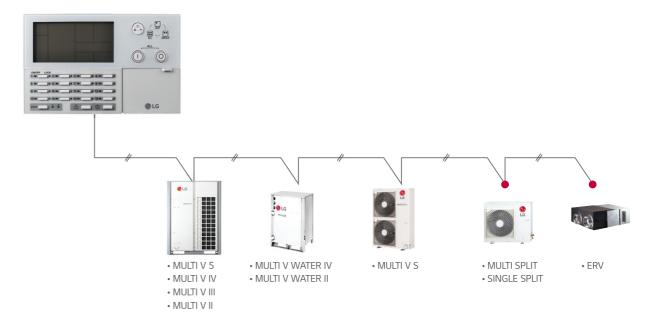
Sch	Schedule_Month ▼ ⊕ A						Add
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
28	29	1	2	3	4	5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	2020
20	21	22	23	24	25	26	03
27	28	29	30	31	1	2	
3	4	5	6	7	8	9	

Group / Individual Control

User 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 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	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly

※ ○ : Applied, - : Not Applied

AC Smart 5

PACS5A000

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









Map view

回得





For more LG Commercial

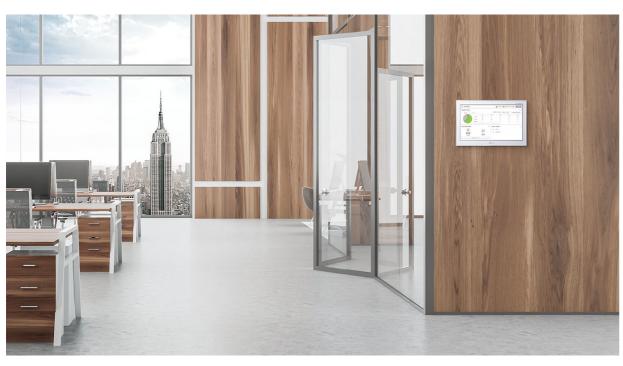
Air Solutions

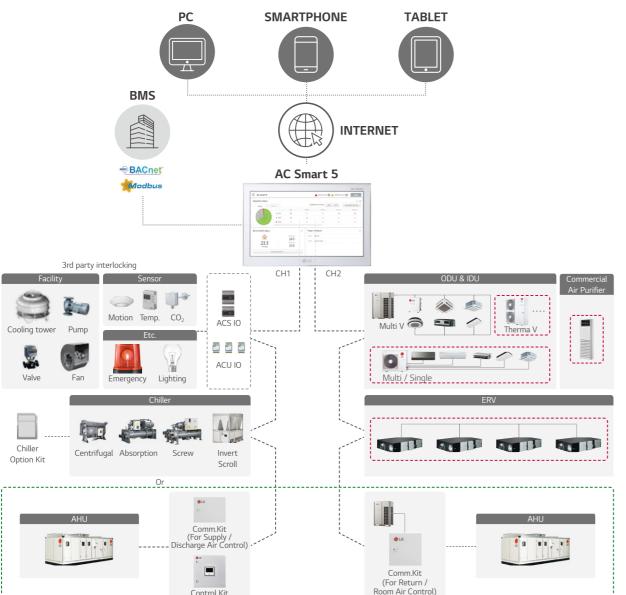
Youtube channel through QR code.

information, please visit our

MODEL NAME	PACS5A000	
Size (W x H x D, mm)	253.2 x 167.7 x 28.9	
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU Kit / LG Chiller ¹⁾ / Commercial Air Purifier	
Maximum number of units	128	
Individual / Group Control	On & Off / Mode / Temperature / Fan speed	
Individual Controller Lock	Temperature / Mode / Fan speed / All	
Advanced Function Setting and Display 2)	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO2 Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)	
Error Check	0	
Slave Mode (Interlocking with higher level controller)	0	
Schedule	Weekly / Monthly / Yearly / Exception day	
Web Access	0	
Emergency Stop & Alarm Display	0	
Power Consumption Monitoring (with PDI)	0	
Auto Changeover / Setback	0	
Temperature Limit	0	
Operation Time Limit	0	
Visual Navigation	0	
Operation Trend	0	
Air Purify Control	0	
Air Quality Level	0	
Interlock Control	0	
Virtual Group Control	0	
ODU Capacity Control	0	
Energy Navigation (with PDI)	0	
Daylight Saving Time	0	
External IO Port	DI 2 / DO 2	
BMS Integration ³⁾	BACnet IP / Modbus TCP	
IPv6 Support	0	

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





- 22 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.

CONTROL SOLUTIONS

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AC Smart 5

Air Purify Total Solution

Air Purify Control

CENTRALIZED

CONTROL





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

Air Quality Level Monitoring





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

Advanced Network Accessibility

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



Visualized Control

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



Multi Level Group Composition

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



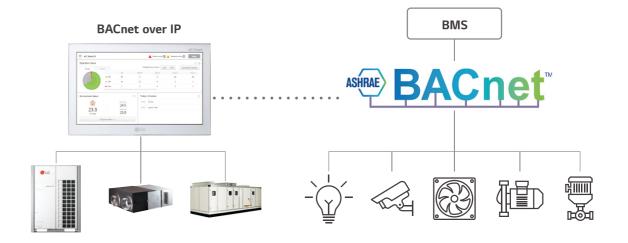
Energy Management

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



Building Management System (BMS) Integration

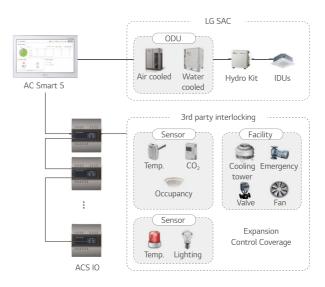
Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.



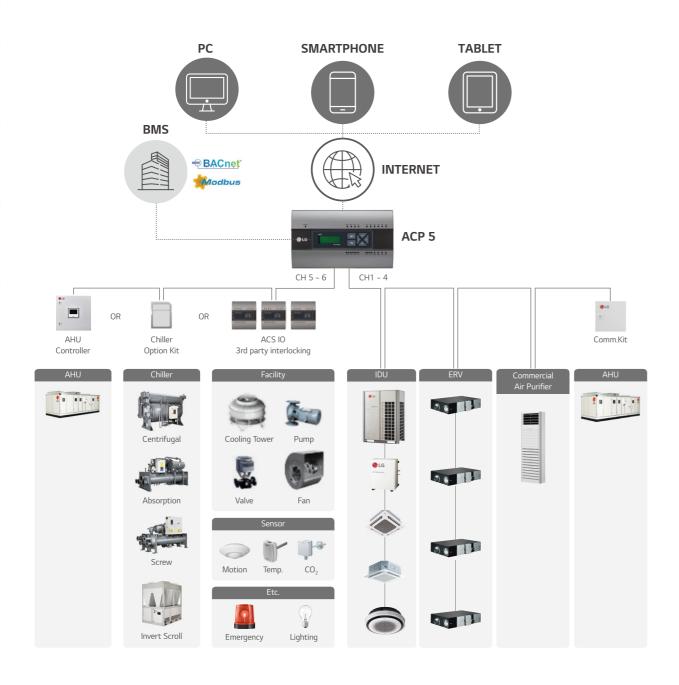
Interlocking with 3rd Party Equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module and ACU IO Module. Control coverage is expanded.

(Air conditioner only → Sensors, Fans, Pumps, Switches…)



ACP 5



Advanced Network Accessibility

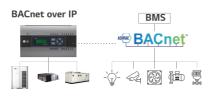


* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

Energy Navigation



BACnet IP & Modbus TCP



PACP5A000

Advanced solution for BMS integration 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 1) / Commercial Air Purifier
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display 2)	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	0
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	0
Emergency Stop & Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation Time Limit	0
Visual Navigation	0
Operation Trend	0
Air Purify Control	0
Air Quality Level	0
Interlock Control	0
Virtual Group Control	0
ODU Capacity Control	0
Energy Navigation (with PDI)	0
Daylight Saving Time	0
External IO Port	DI 10 / DO 4
BMS Integration ³⁾	BACnet IP / Modbus TCP
IPv6 Support	0

- ** O : Applied, : Not Applied

 1) Chiller Option Kit (PCHLLN000) is required.

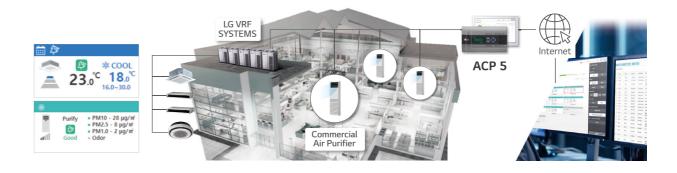
 2) It is only available in some products.

 3) For the detail point list, please refer to the installation manual.

Air Purify Control / Monitoring

Integrated Management

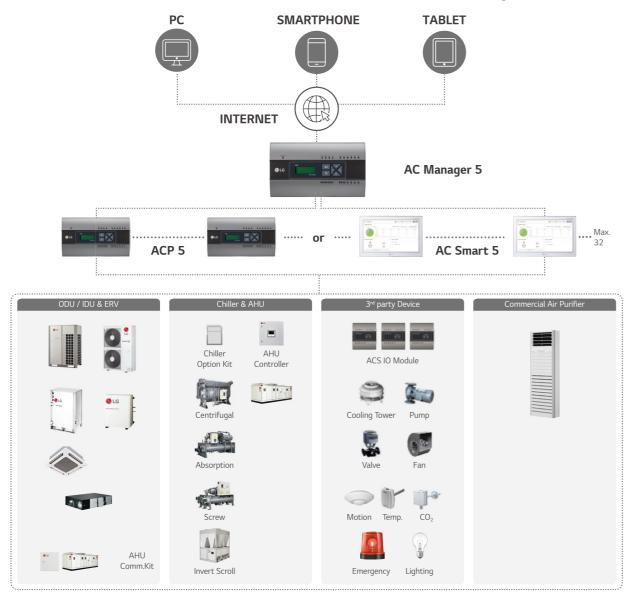
The Commercial Air Purifier can be used with LG central controller to monitor and control.

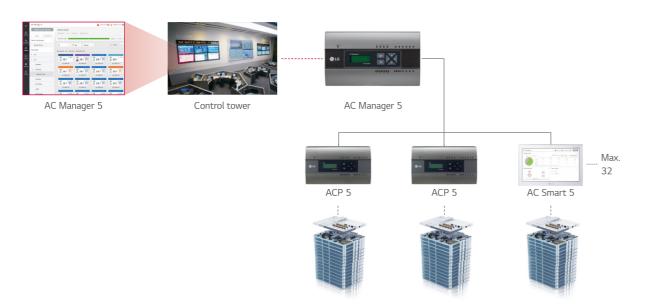


272 I 273 CONTROL SOLUTIONS

AC Manager 5







PACM5A000

Multiple ACP and AC Smart integration solution to manage multi sites 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 1) / Commercial Air Purifier
Maximum number of units	8,192 (Supports 32 ACP 5 or AC Smart 5)
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	0
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	0
Emergency Alarm Display	0
Power Consumption Monitoring (with PDI)	0
Auto Changeover / Setback	0
Temperature Limit	0
Operation Time Limit	0
Visual Navigation	0
Operation Trend	0
Air Purify Control	0
Air Quality Level	0
Interlock Control	0
Virtual Group Control	0
ODU Capacity Control	0
Energy Navigation (with PDI)	0

- % O : Applied, : Not Applied 1) Chiller Option Kit (PCHLLN000) is required for ACP 5 or AC Smart 5.
- · Note : AC Manager 5 required for ACP 5 or AC Smart 5

Up to 8,192 Connections for Indoor Units

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



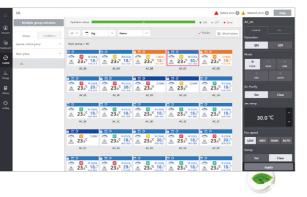
AC Manager 5

Smart Air Purify Solution

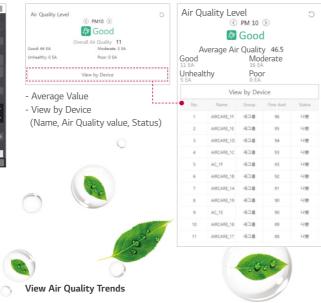
Total management of air purify function creates clean environment everyday.



Air Purify Control

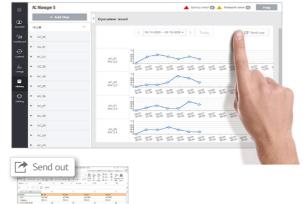


Air Quality Summary Widget





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



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

Advanced Network Accessibility & User Friendly GUI

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



Energy Navigation & Energy Usage Graph

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



Peak Control

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

Operation ratio (IDUs) Control



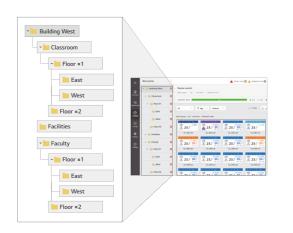
ODU Capacity Control



Compressor Hz Control

Multi Level Group Composition

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



CONTROL SOLUTIONS

reddot award

278 I 279

ACP Lonworks

PLNWKB000

Lonworks easily link LG Air conditioners and other existing building systems.

By including ACP control function, the controlling continues even when error occurs with BMS.



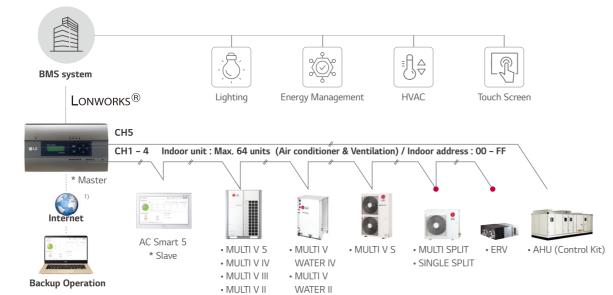
Features & Benefits

- Connect to use LonWorks protocol and LG Air conditioner protocol.
- Process ability (Max. connection): Indoor unit 64EA, AHU Control Kit: Max. 16EA
- Self installation verification using internet (Web Server Included)
- Diagnosis of communication status on LG Air conditioner network

• It offers a variety of functions as ACP
which allows the customer to efficiently
control various types of equipment from the
customer's own Integration.

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

※ ○ : Applied, - : Not Applied



1) Assignment of public IP address is required to access central controller through internet.

PI485

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

PMNFP14A1

Easy to manage up to 64 indoor units.



- Power : Single phase AC 220V 50 / 60Hz
- 1 for Each Outdoor Unit
- Multi V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
- Single Split
- Multi Split

PP485A00T



- Power : Single phase AC 220V 50 / 60 Hz
- 1 for Each Indoor Unit
- Therma V

PHNFP14A0



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

Appropriate PI485 should be used according to PDB (Product Data Book).

MODBUS RTU Gateway

PMBUSB00A

Providing Modbus RTU connection between LG Air conditioners and BMS.



CENTRALIZED CONTROL

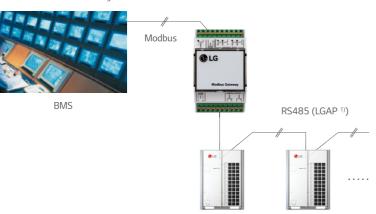
Features & Benefits

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

Installation Scene

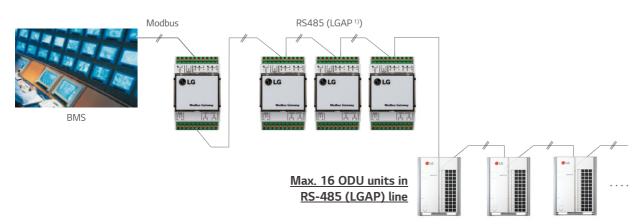
Single Module

Max. 16 indoor units with a single module



Multiple Module

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



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

Modbus Gateway Memory Map

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

Coil Register (0 x 01)

NO	DATA BIT		FUNCTION	DECICTED	
NO.	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V		REGISTER
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	
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	Register = N X 16 + ① (N = Indoor Unit Central
6	Lock Fan Speed	Lock Fan Speed 1)	Reserved	0 : UnLock / 1 : Lock	(N = Indoor Onit Central Address)
7	Lock Target Temp.	Lock Target Temp. 1)	Reserved	0 : UnLock / 1 : Lock	/ tddi 635)
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	
NO.	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V	FUNCTION	REGISTER
1	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	
2	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
3	Filter Alarm	Filter Alarm 1)	Hot Water Only ²⁾	0 : Normal /1 : Alarm Hydro Kit0 : Normal /1 : Hot Water Only	Register = N X 16 + ① (N = Indoor Unit Central Address)
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	DECICTED
NO.	AIR CONDITIONER	ERV / DX ERV	HYDRO KIT & THERMA V	FUNCTION	REGISTER
1	Operate Mode	Operate Mode	Operate Mode	O: Cooling, 1: Dehumidifying, 2: Fan, 3: Auto, 4: Heating Hydro Kit (Middle Temp. DHW) / AWHP O: Cooling, 3: Auto, 4: Heating Hydro Kit (High Temp. DHW))	Register = N X 20 + ① (N = Indoor Unit Central
2	Fan Speed	Fan Speed	Target Temp. DHW ²⁾	1 : Low, 2 : Mid, 3 : High, 4 : Auto	Address)
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	

Input Register (0 x 04)

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

CONTROL SOLUTIONS 280 I 281

^{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.

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-hom

INKNXLGE0160036 / INKNXLGE0640036

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

Key benefits

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

Key messages

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

MODEL NAME	MAX. CONNECTION INDOOR UNITS
INKNXLGE0160036	16
INKNXLGE0640036	64

Link BoxEIB Configuration Software for IntesisBox® KNX Serious

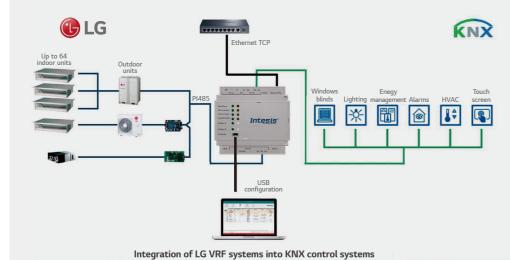
Easy to use tool for the configuration of intesisBox, in a fast and effective way.

It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.



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

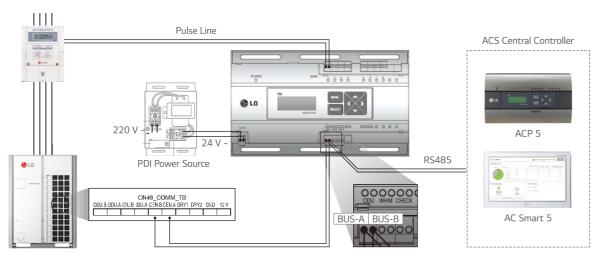
Installation Scene

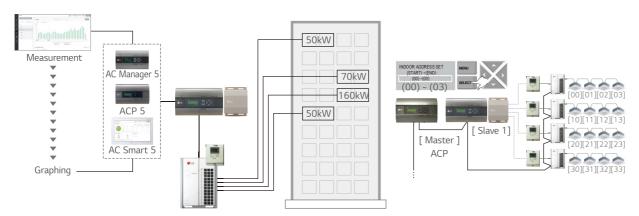












- Note:

 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 distributed power consumption of up to 128 indoor units.











Energy monitoring

ELECTRICITY / GAS DISTRIBUTION

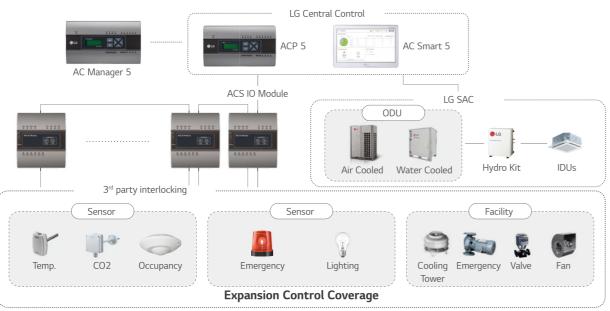
Features & Benefits

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

MODEL NAME	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 155 x 65	
Interfaceable Products	Air conditioner, ERV DX, Hydro kit, Thermal V	
Maximum Number of Power Meters	EHP : 8 Watt meter GHP : 4 Watt meter / 4 Gas meter	EHP : 2 Watt meter GHP : 1 Watt meter / 1 Gas meter
Maximum Number of Indoor Units	EHP : 128 GHP : 64	
Data Backup When Power Outage	0	
Power Input	PDI : AC 24V, Transformer : AC 220V	

※ ○ : Applied, - : Not Applied

ACS IO Module



 $\ensuremath{\mathbb{X}}$ DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output



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

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

I.	MODEL NAME	PEXPMB00	0			
Linkable Products		PACS5A000, PACP5A000				
Communication	RS-485	1 ch				
	Digital Input	3 ports				
1/0	Digital Output	3 ports				
170	Universal Input 1)	4 ports				
	Analog Output	4 ports				
VALUE SPEC		MIN.	MAX.			
	NTC 10k	0.68kΩ	177kΩ			
	PT 1000	803Ω	1,573Ω			
Analog Input	Ni 1000	871.7Ω	1,675.2Ω			
	DC (Voltage)	OV	10V			
	DC (Current)	0mA	20mA			
Analog Output	-	OV	10V			
Digital Input	Binary Input (Non Voltage)	-	-			
Digital Output	Normal open	-	30VAC / 30VDC, 2A			

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.



PEXPMB300





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.
- \bullet Applicable devices are expanded. (Air conditioner only \rightarrow Sensors, Fans,
- 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)	OV	10V	
Analog Output	DC (Voltage)	OV	10V	
Digital Input	Binary Input (Non Voltage)	-	-	
Digital Output	Normal Open	-	30VDC, 1A	

Chiller Option Kit

PCHLLN000

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



MODEL NAME	PCHLLN000
Monitoring Points	Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) / Condenser status / Generator status (Abs. chiller only)
On / Off	0
Target Temp. setting	0
Mode	Scroll chiller only
Schedule	0
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (LG Only)

※ ○ : Applied, - : Not Applied

Installation Scene

- Chiller Option Kit installation of ACP, AC Smart should be conducted by a specialized installation service engineer.
- Chiller Option Kit installation can be achieved with a SD Card.
- The SD Card can install Chiller Option Kit in one ACP, AC Smart. Insert the SD Card in the ACP, AC Smart. If a backup SD Card is inserted, replace it with a Chiller Option Kit SD Card.







Cycle Display Example

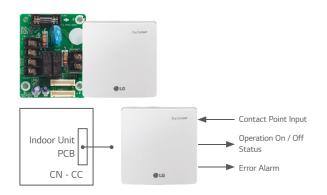


[%] O : Applied, - : Not Applied 1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

DRY CONTACT

PDRYCB000

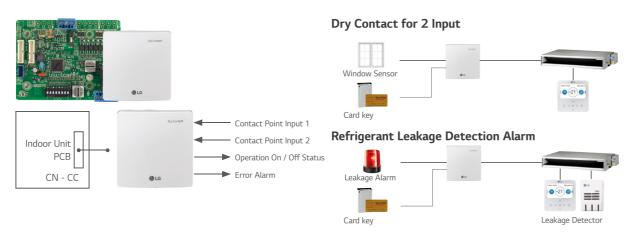
INTEGRATION DEVICE



Simple Dry Contact (1 input)



PDRYCB400

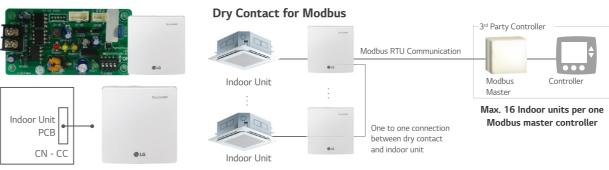


PDRYCB320



 $\ensuremath{\ensuremath{\%}}$ Please contact our regional office to have full compatible room controller list.

PDRYCB500



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

Specification

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

MODEL NAME		PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500	
Case			0	0	0	0
Input Por	t		1	2	8	-
Universal	Input port		-	-	1	-
Comm. Pr	rotocol		-	-	-	Modbus RTU
Power			AC 220V	Connect	to Indoor unit PCB (CN_CC)	: DC 12V
		On / Off	0	0	0	0
		Operation Mode	-	0	0	0
		Set Temp.	-	(Select & Fix)	(Select & Fix)	0
	IDU	Fan Speed	-	-	0	0
		Thermo-Off	-	(Select & Fix)	0	-
		Energy Saving	-	(Select & Fix)	-	-
		Lock / Unlock	-	(Select & Fix)	-	-
		On / Off	0	-	0	-
Control		DHW On / Off	-	-	0	-
Control	Haatina	Thermo-Off	-	-	0	-
	Heating	Operation Mode	-	-	0	-
		Silent Mode	-	-	0	-
		Emergency Mode	-	-	0	-
		On / Off	0	-	-	0
		Operation Mode	-	-	-	0
	ERV	Aircon Mode	-	+	-	0
		Additional Mode	-	-	-	0
		Fan Speed	-	-	-	0
		Operation Status	0	0	0	0
Output		Error	0	0	0	0
		Room Temp.	-	-	-	0

※ ○ : Applied, - : Not Applied

- XO : Applied, -: Not Applied
 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.

CONTROL SOLUTIONS 290 I 291

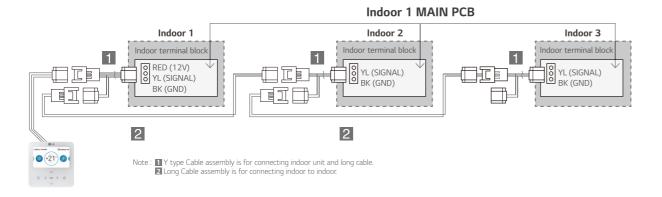
Group Control Wire

PZCWRCG3



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

Installation Scene



Remote Temperature Sensor

PQRSTA0

Sensor for detecting the room temperature.

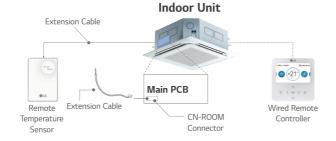


Features & Benefits

- It detects the exact room temperature instead of indoor unit's air temperature sensor.
- $\bullet \ \mathsf{Applied} \ \mathsf{to} \ \mathsf{Ceiling} \ \mathsf{Mounted} \ \mathsf{Cassette}, \mathsf{Ceiling} \ \mathsf{Concealed} \ \mathsf{Duct}, \mathsf{THERMA} \ \mathsf{V} \ \mathsf{and} \ \mathsf{Hydro} \ \mathsf{Kit}.$
- 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

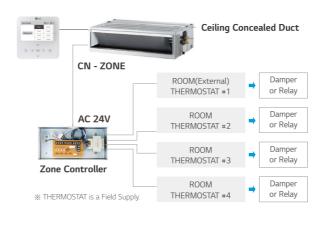
Controls air conditioning in up to 4 zones by external thermostat.

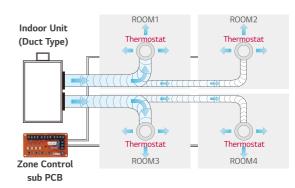


Features & Benefits

- 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





10 Module

PVDSMN000

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

IN COC.

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 5 and external IO (Input / Output Module) devices.

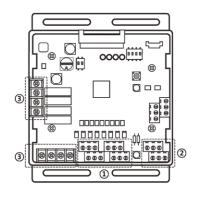
Models Applied

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

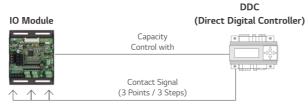


IO Module

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)





Range of Operation Rate AI 0 ~ 10V : 0%, 40% ~ 100% Contact signal (3 steps) : 0%, 40% ~ 80%

Low Noise Operation

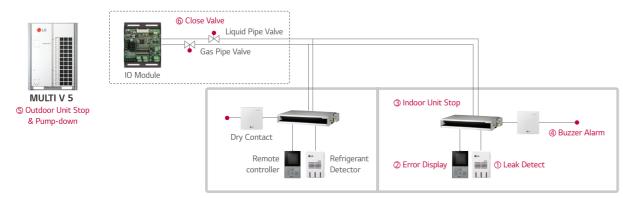
To reduce noise level, control outdoor unit's fan speed by dry contact input.



imes 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 IV)

Accessory for controlling the water flow.



Features

Function

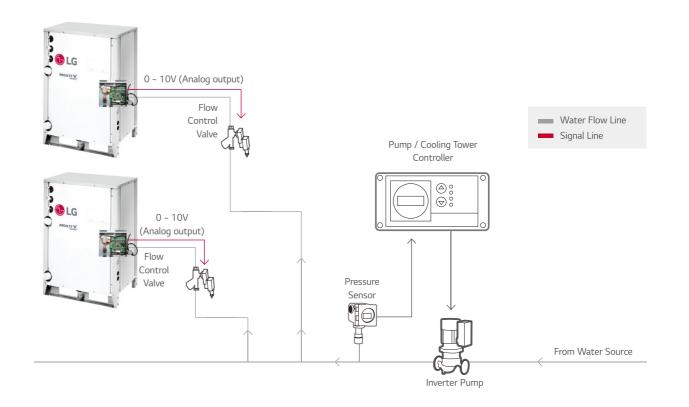
- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
 Digital output for operation, error status (AC 250V, Max. 1A)

Description

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input / output, Digital output)
- : Using Dry contact and variable water flow control function simultaneously.

Installation Scene

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



Low Ambient Kit

PRVC2

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





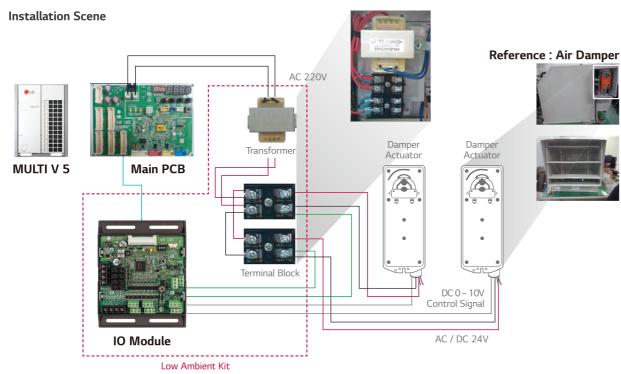
Features

- \cdot -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)

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

Models Applied

• MULTI V 5



- 1. Damper Actuator can accept only DC 24V power input.
 2. Do not input AC power. Otherwise it will cause a serious damage.
 3. The IO Module can control maximum three actuators.
- 4. Case of one valve, the slave signal connector must not use. 5. The power (AC / DC 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.

⊕ LG

Features

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

Models Applied

• MULTI V 5 • MULTI V WATER II • MULTI V WATER IV

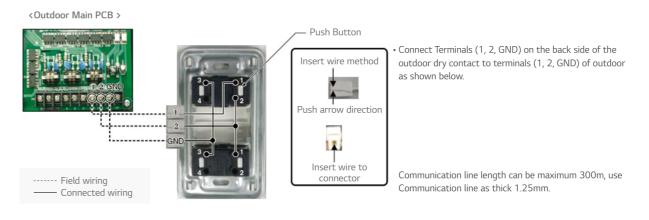
• MULTI V IV MULTI V S

• MUL TI V PLUS II, MULTI V PLUS MULTI V WATER S

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



Installation Scene



CONTROL SOLUTIONS 296 I 297

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







CONTROL KIT

PAHCNM000

PRLK048A0

PRLK096A0

PRLK396A0

⊕LG

EEV KIT

CONTROLLER MODULE





PAHCMC000

PRLK594A0

Specification

Control Application Kit

TYPE	MODEL	DIMENSIONS (MM)		POWER SUPPLY	IP RATING	DESCRIPTION	
TIPE	MODEL	W	Н	D	POWER SUPPLI	IP KATING	DESCRIPTION
Communication	PAHCMR000	300	300	155	1Ø, 220 ~ 240 V, 50 / 60 Hz	IP66	Return / Room air temperature control by DDC or LG individual / centralized controller.
Kit	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	PAHCMM000	162	90	61	DC 12V	IP20	Main Controller module
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)	CADACITY INDEX DANCE	
	INIODEL	W	Н	D	LIQUID	CAPACITY INDEX RANGE	
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.



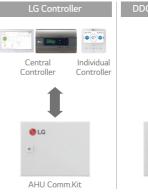
Diverse Options for Control

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







CONTROL SOLUTIONS 298 I 299

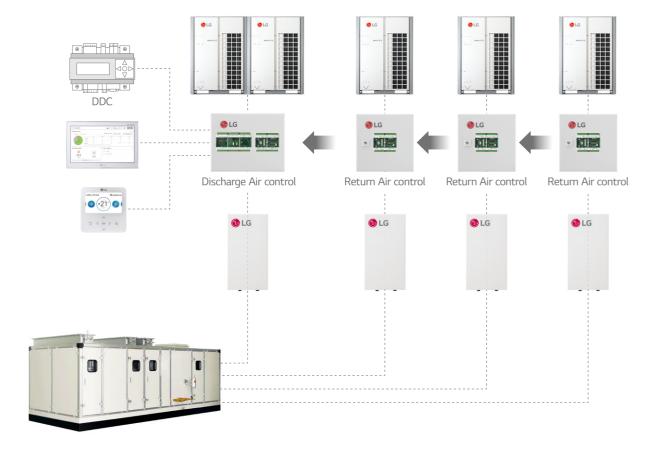
AHU Kit

Communication Kit

Expandable System Design

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

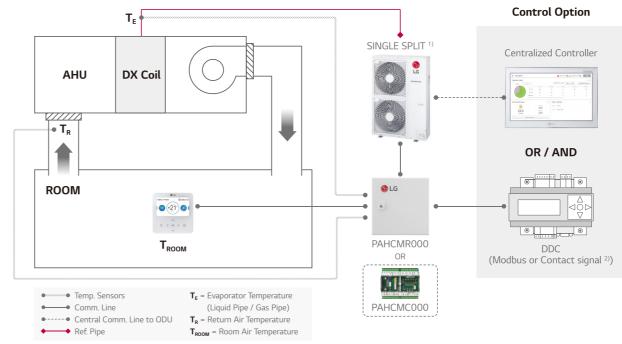
• Multiple module combination for large capacity AHU



Communication Kit & Controller Module

Single Split Application

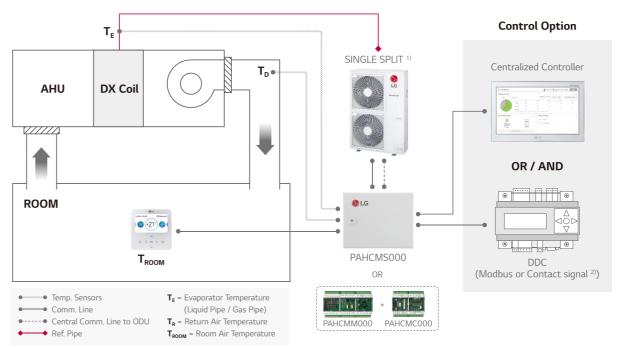
Single Split + Return / Room Air Temperature Control



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

Single Split Application

Single Split + Discharge Air Temperature Control



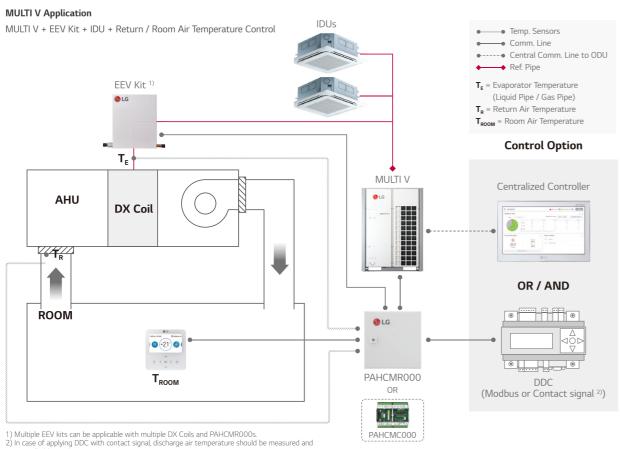
1) PI485 (PMNFP14A1) is required for centralized controller.

2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC.

Note: For more detail, please refer to the PDB.

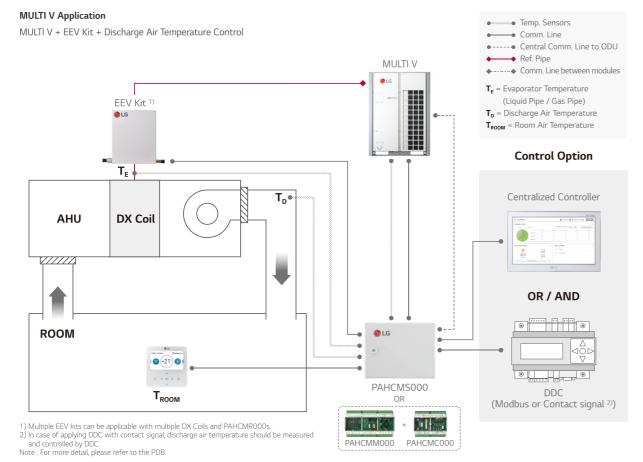
AHU Kit

Communication Kit & Controller Module



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)	ТҮРЕ	NOTE
	Operation On / Off	On / Off	On / Off	Digital Input (Non Voltage)	-
	Operation Mode	Cooling / Heating	Cooling / Heating	Digital Input (Non Voltage)	Available operation mode can vary depending on the settings of Communication Kit
	Return (Room) Air Temperature 2)	16 ~ 30 °C	-	Analog Input (DC 0 ~ 10 V / 20mA)	-
Control 1)	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)	-
	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
Monitor	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 D0 type should be set 'OFF' (Status),
	Error Alarm	arm Error / Normal		Digital Output, Relay C contact (Max.: DC 30 V / 1 A, AC 250V / 1 A)	In this case, 'fan speed' cannot be monitored by DO ports
	Compressor On / Off	-	On / Off	Digital Output, (Max. : DC 30 V / 1 A, AC 250V / 1 A)	-

¹⁾ Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.

Communication with DDC via Modbus protocol

	FUNCTION LIST	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	NOTE
	Operation On / Off	On / Off	On / Off	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
	Return (Room) Air Temperature	16 ~ 30 °C	-	
Control 1)	Discharge Air Temperature ²⁾	-	0	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	-	-	
	Operation	On / Off	On / Off	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	
	Return (Room) Air Temperature	0	-	Corresponding air temperature sensor
B. B. a. a. Stevens	Discharge Air Temperature	-	0	connected to AHU Comm.Kit is required
Monitor	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	

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.

^{**} O : Applied, - : Not Applied

1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.

2) 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	
	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	-	-	
Control 1)	Discharge Air Temperature ²⁾	-	0	Standard III : 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)	
	Operation	On / Off	On / Off	-	
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan	-	
	Return (Room) Air Temperature	0	-	-	
Monitor	Discharge Air Temperature		0	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	

- O: Applied, -: Not Applied
 Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.
 The range of setting temperature is different depending on the type of the controllers. And operation may different from setting range.
 To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
 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

	INDIVIDUAL CONTROLLER			CENTRALIZED CONTROLLER					BMS GATEWAY	PDI
	PREMIUM	STANDARD III	STANDARD II	AC EZ	AC EZ TOUCH	AC SMART 5	ACP 5	AC MANAGER 5 1)	ACP LONWORKS	PREMIUM STANDARD
CONTROLLER	258 258	**************************************	© 1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		**************************************	The state of the s	• •	
Model no.	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PACM5A000	PLNWKB000	PQNUD1S40 PPWRDB000
PAHCMR000	0	0	0	0	0	0	0	0	0	0
PAHCMS000	-	0	0	-	-	0	0	0	-	-

- ※ O: Applied, -: Not Applied
 1) AC Manager 5 is an integrator, so the installation with AC Smart 5 or ACP 5 is required.
 Note: 1. Dry contact for indoor unit (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

ТҮРЕ	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	PAHCMR000 (PAHCMC000)	-	0	0	0
(Controller Module)	PAHCMS000 (PAHCMM000 + PAHCMC000)	-	0	0	0
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		MUL	MULTI V WATER			
TIPE	MODEL	5	IV	III	S	IV	II
Communication Kit	PAHCMR000 (PAHCMC000)	0	0	0	0	0	0
(Controller Module)	PAHCMS000 (PAHCMM000 + PAHCMC000)	0	0	0	0	0	0
Control Kit	PAHCNM000	0	0	0	0	0	0

EEV Kit Compatibility

FFV KIT	CAPACITY INDEX AHU APPLICATION KITS (KW) (MAXIMUM CONNECTABLE EEV KITS					CONNECTION BY ODU SYSTEM				
MODEL	MIN.	MAX.	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	PAHCNM000	MUI HEAT PUMP	TI V HEAT RECOVERY	SINGLE SPLIT		
PRLK048A0	3.6	28	0 (1)	0 (1)	○ (6)	0	0	-		
PRLK096A0	28.1	56	0 (1)	0 (1)	○ (6)	0	O (Max. 33.7 kW)	-		
PRLK396A0	56.1	112	O(1)	○ (1)	○ (6)	0	-	-		
PRLK594A0	112.1	168	-	0 (1)	○ (3)	0	-	-		

- % 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.

304 I 305 CONTROL SOLUTIONS

AHU Kit

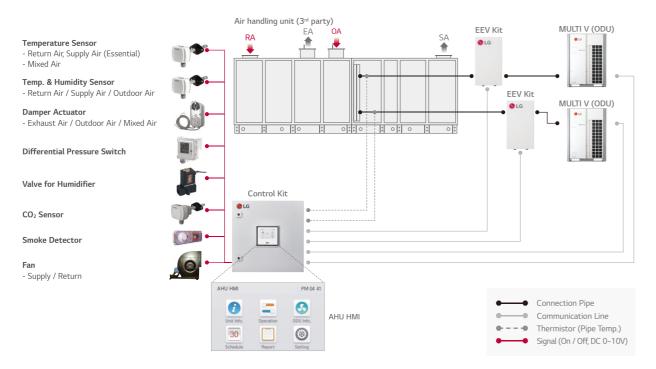
Control Kit

Field Supplied Item

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
CO₂ Sensor	- Power : AC 24 V - Output signal : DC 0 ~ 10 V - Range : 0 ~ 2,000 ppm	Return air duct
Smoke Detector	- Power : AC 24 V - Type : Contact	Return air duct

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

Field Supplied Item



Water Communication Module

PAHCMW000

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

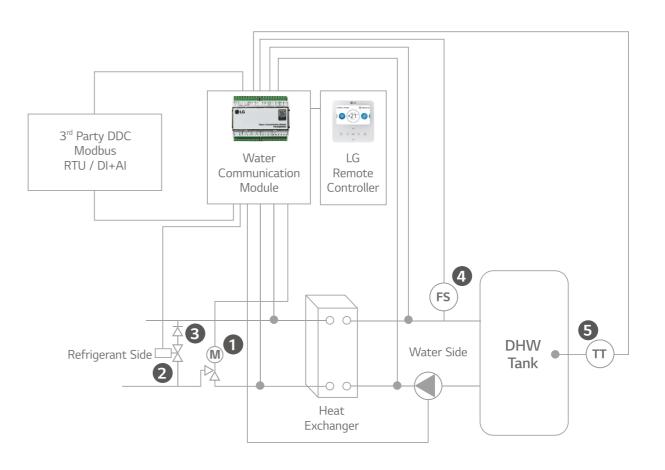


INTEGRATION DEVICE

Overview

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

- 1. EEV
- 2. Solenoid Valve (NC)
- 3. Non-Return Valve
- 4. FS : Flow Switch
- 5. TT: DHW Temperature Transmitter



^{• 3}rd party solenoid, non-return valve, heat exchanger, flow switch and DHW temperature transmitter (Optional) must be purchased separately. (Field supplied items)

CONTROL SOLUTIONS 306 I 307

Water Communication Module

Features & Benefits

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

Interlocking with 3rd Party Equipment

CONTENTS	COM	NNECTION PORT	FUNCTION
RS485	CH1 (A+ / B-)	Module Comm. Port	Communication Port Modbus
K5465	CH2 (A+ / B-)	IDU Comm. Port	Communication with Multi V Outdoor
	UI1	Flow Switch	Flow Switch Input by 3rd party
UNIVERSAL INPUT	UI2	0 ~ 10V Set Temp.	Target Temp. Setting
(Cooling / Heating Setting)	UI3	Cooling Thermostat Signal	Thermostat Cooling Signal
	UI4	Heating Thermostat Signal	Thermostat Heating Signal
	UI1	Flow Switch	Flow Switch Input by 3rd party
UNIVERSAL INPUT	UI2	0-10V Set Temp.	Target Temp. Setting
(DHW Only)	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
NIC	RI2	Water Outlet Sensor	PHEX Water Outlet Sensor
REMO	+12V / SIG / GND	LG Remote Controller	-
SINGLE	Reserved	-	-
	D01	Defrost / Mode	Output for defrost signal and / or cool mode
DIGITAL OUTPUT	D02	Pump	Output signal for pump on / off
	D03	Bypass	Output signal for PHEX Bypass Valve
NTC	RI3	Thermistor Pipe In	PHEX Ref. Inlet Pipe Sensor
NIC	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	CAPACI	DALICENAZOO			
MODEL	MIN.	MAX.	PAHCMW000		
PAEEVC000	3.6	28	HP / HR		
PRLK048A0	3.6	28	HP / HR		
PRLK096A0	28.1	56	HP		

Note:

ote . /ater communication module can accept plate heat exchangers from 3, 6 to 112 kW for combination with Multi V Outdoor units.

LG Controllers

	INDIVIDUAL CONTROLLER	CENTRALIZED	CONTROLLER	DBY CONTACT
CONTROLLER	HEATING STANDARD	AC EZ TOUCH	AC SMART 5	DRY CONTACT
	PREMTW101	PACEZA000	PACS5A000	PDRYCB000

Specification for Field supply item

 \bullet The $3^{\mbox{\tiny rd}}$ party can select the for best usable version

Solenoid valve for Bypass

CAPAC	ITY (KW)	EEV TYPE	SYSTEM	KV VALUE OF SOLENOID AND	PIPE SIZE	
MIN.	MAX.	CEVITE	STSTEIN	NON-RETURN VALVE	PIPE SIZE	
2.6	20	PAEEVC000	HP / HR	0.95	3 / 8" / 9.52mm	
3.0	3.6 28 ——		HP / HK	0.95	3/8/9.52MM	
28	56	PRLK096A0	HP	1.9	1 / 2" / 12.7mm	

Flow switch

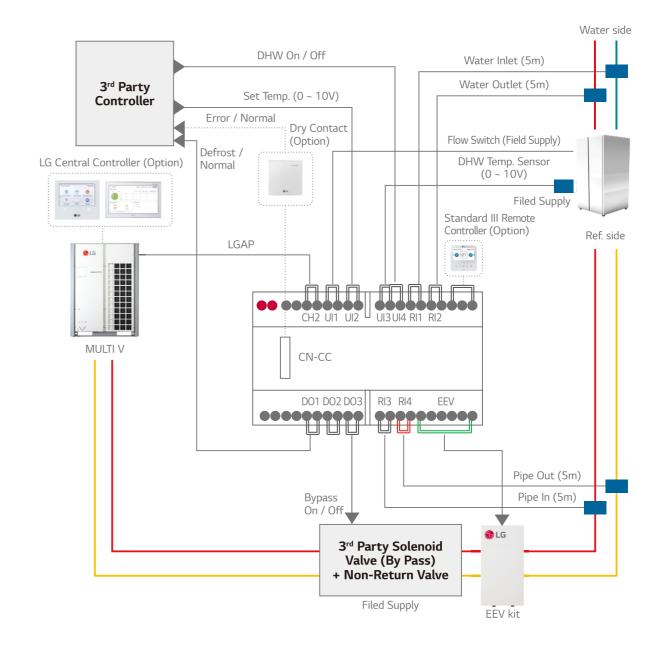
• The nominal flow and cut of flow can be calculated using the values below.

CONTROLLER	NOMINAL FLOW	FLOW SWITCH CUT OFF
L / min*kW	3.29	1.23

^{*} Example : ODU nominal Cooling Capacity 28 kW, 28 x 3.29 = 92.12 L / min. nominal flow, 28 x 1.23 = 34.44 L / min. flow switch cut off

Installation Scene with Contact Connection

Contact signal + DHW Only Setting



Water Communication Module

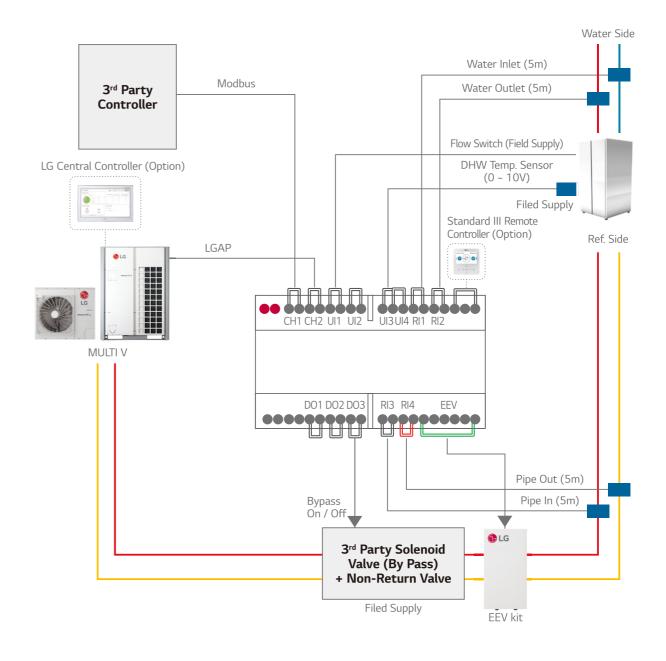
Installation Scene with Contact Connection

Contact signal + Heating / Cooling Setting

Water Side Pump Heating On / Off Cooling On / Off 3rd Party Water Inlet (5m) Set Temp. (0 ~ 10V) Controller Water Outlet (5m) Error / Normal : Dry Contact (Option) Defrost / LG Central Controller (Option) Normal Flow Switch (Field Supply) Standard III Remote Controller (Option) LGAP 0 (21) 0 CH2 UI1 UI2 UI3 UI4 RI1 RI2 Ref. Side MULTI V CN-CC RI3 RI4 DO1 DO2 DO3 999999999 Pump On / Off Pipe Out (5m) Bypass On / Off Pipe In (5m) **LG** 3rd Party Solenoid Valve (By Pass) + Non-Return Valve Filed Supply EEV kit

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + DHW Only Setting

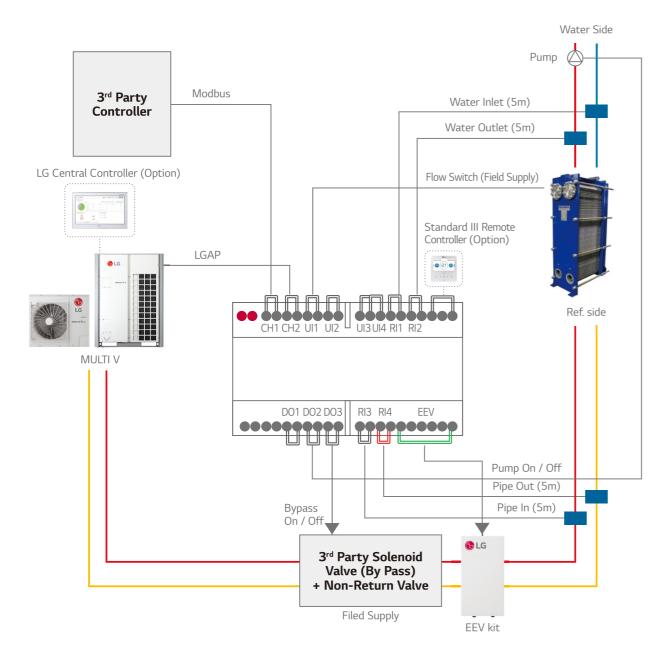


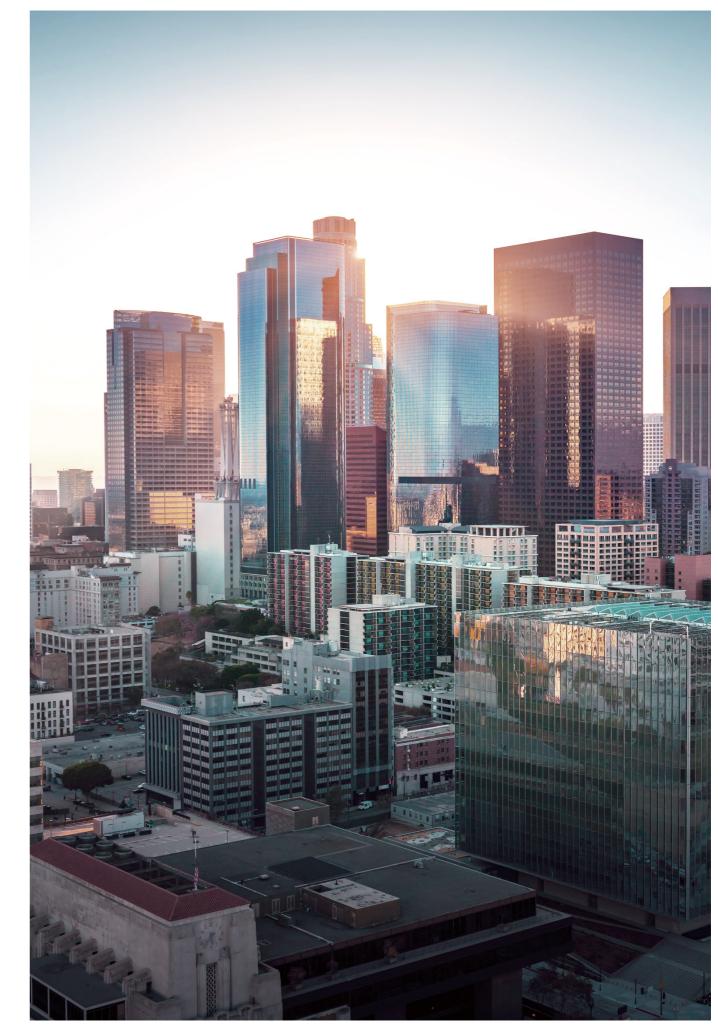
PROPOSAL CASE

Water Communication Module

Installation Scene with Modbus / LG Control (Optional) Connection

Modbus + Heating / Cooling Setting



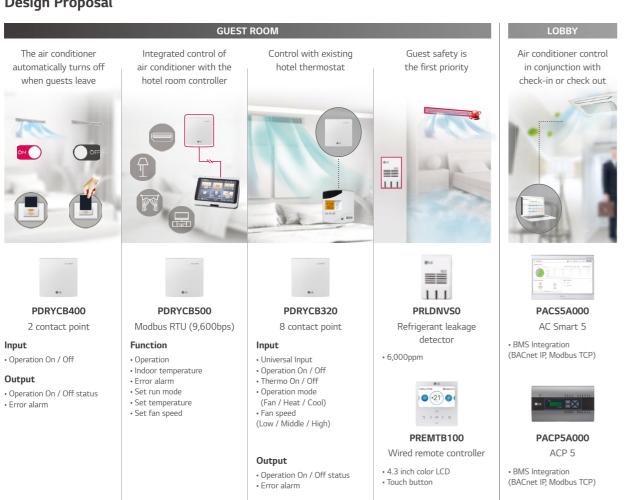


PROPOSAL

Hotel Control Solution



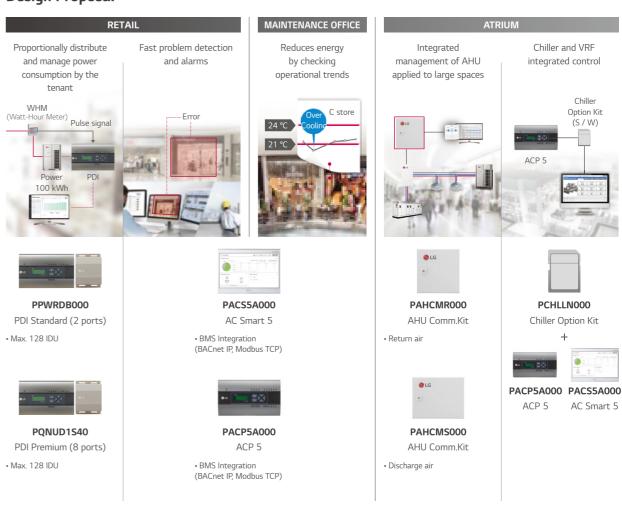
Design Proposal



Shopping Mall Control Solution



Design Proposal



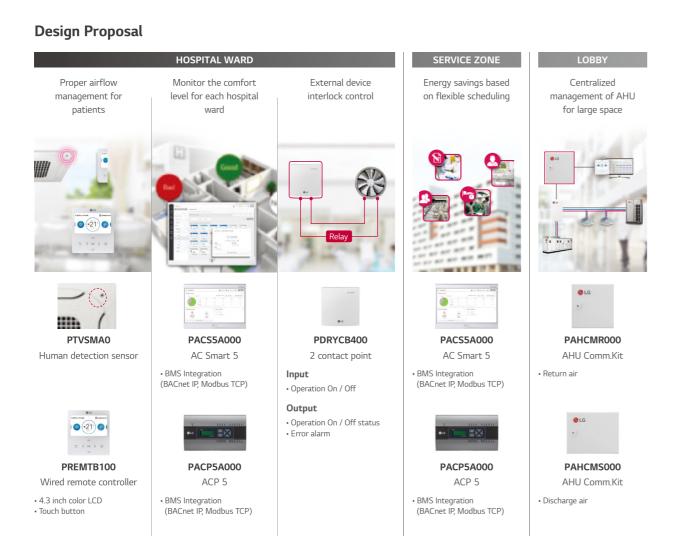
CONTROL SOLUTIONS 314 I 315

PROPOSAL

CONTROL SOLUTIONS

Hospital Control Solution





Academic Institution Control Solution



Automatically save energy in the absence of students

Central controls prevent students from arbitrary control

Lecture Hall

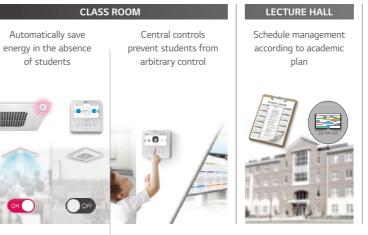
Schedule management according to academic plan

Maintenance Office

Integrated management of distributed buildings

Centralized management with multiple interfaces

Design Proposal







PTVSMA0 Human detection sensor



PREMTB100

- Wired remote controller
- 4.3 inch color LCD



AC Smart 5

(BACnet IP, Modbus TCP)

PACP5A000

(BACnet IP, Modbus TCP)



PACM5A000 AC Manager 5

CONTROL SOLUTIONS 316 I 317

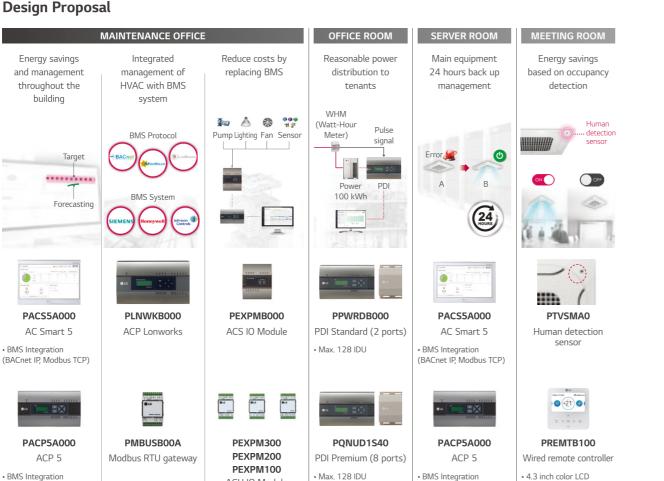
PROPOSAL

CAS

Office Control Solution



Design Proposal

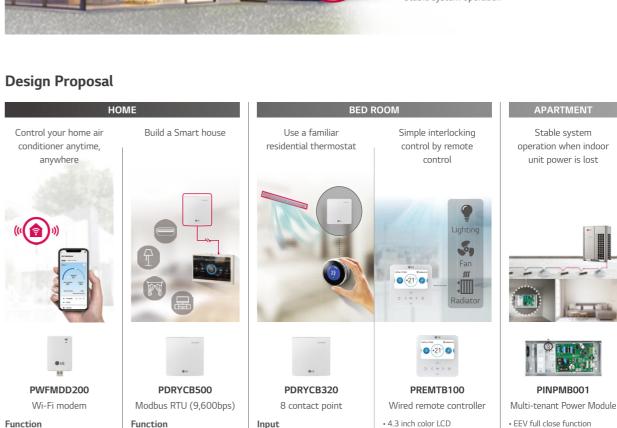


(BACnet IP, Modbus TCP)

ACU IO Module

Residential Control Solution







• EEV full close function

Output

• Universal Input Operation On / Off

Thermo On / Off

Operation mode

(Fan / Heat / Cool)

Fan speed
 (Low / Middle / High)

· On / Off

Fan speed

Operation mode

(Sleep, Weekly On / Off)

Vane control

Reservation

Error check

Operation

· Indoor temperature

Set operation mode

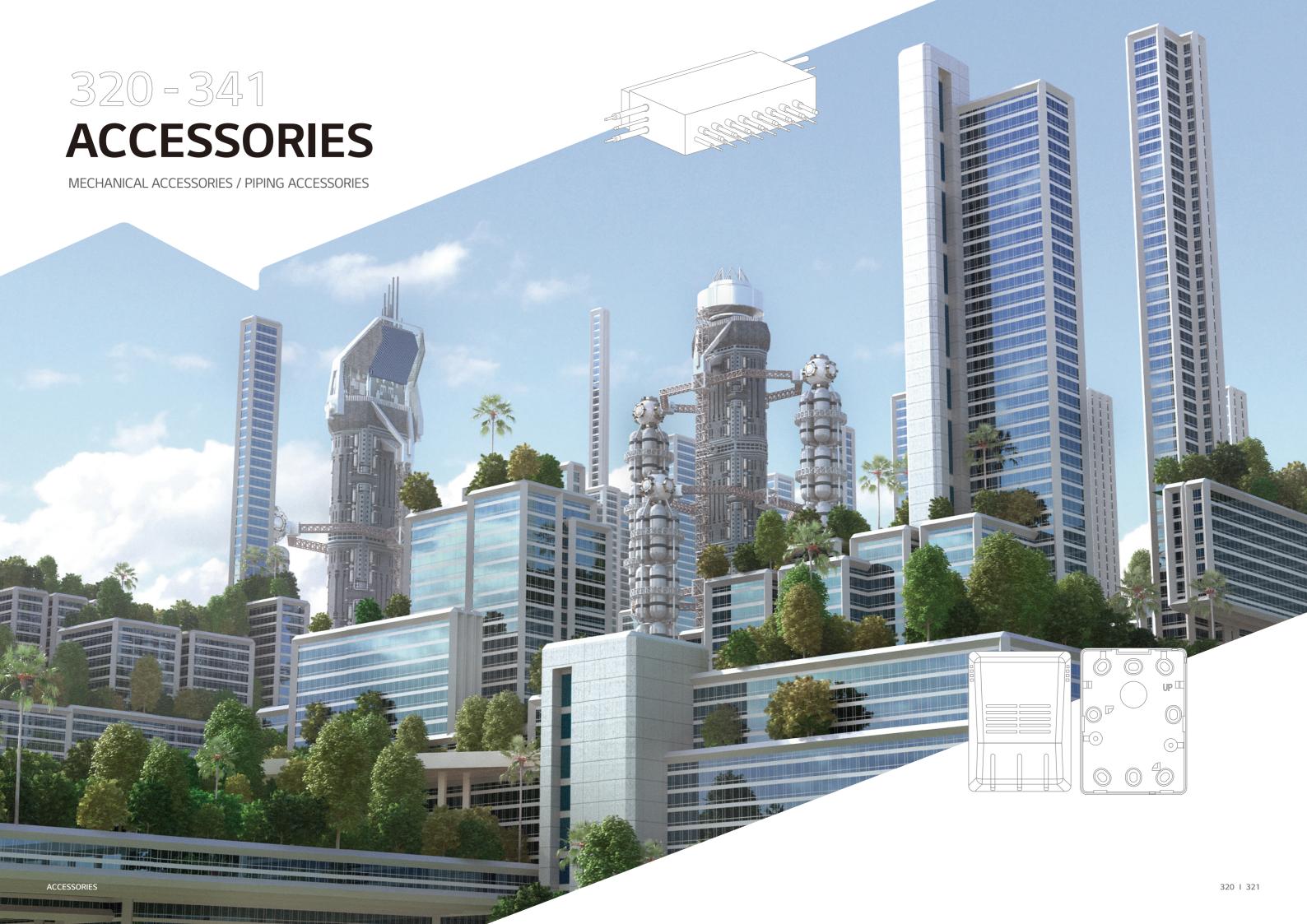
• Set temperature

Set fan speed

 Operation On / Off status • Error alarm

318 I 319

(BACnet IP, Modbus TCP)



MECHANICAL

ACCE

SSORIES

Cassette Panel

The Independent Vane Operation makes desired and comfortable air flow.



Model Name & Applied Products

4 Way Cassette (Mini, 570x570) PT-QAGW0 PT-QCHW0 PT-UQC

2 Way Cassette

PT-USC

1 Way Cassette (Grill Type)

PT-UAHG0 / PT-TAHG0 (Glossy) PT-UAHW0 / PT-TAHW0 (Non-Glossy)

1 Way Cassette (Air Purification)

PT-UPHG0 / PT-TPHG0 (Glossy)

Key Features

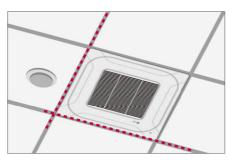
- · Independent vane operation uses separate motors, making it possible to control all 1, 2, and 4 vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain pipe and refrigerant pipes.

Compact and Stylish Design

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







Specification

		Suction	Color		Weight	Dime	nsion (mm)		Applied	l Model	Capacity	y (kW)*	
,	Model Type		(RAL)	Gloss	(kg)	w	н	D	Single	Split	Multi	Split	Mu	lti V
		.,,,,	(,		(5)	•••			R32	R410A	R32	R410A	R32	R410A
	PT-QCHW0	Grill	Morning Fog (RAL 9001)	Χ	3.0	620	35	620	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
4 Way	PT-UQC	Grill	Morning Fog (RAL 9001)	Χ	3.0	700	22	700	2.5-5.0	2.5-5.0	1.5-5.3	1.5-5.3	1.6-6.2	1.6-6.2
	PT-QAGW0	Grid	White (RAL 9003)	Χ	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	Grill	Morning Fog (RAL 9001)	X	4.7	1,100	28	690					2.8-7.1	2.8-7.1
	PT-UAHG0	Grill	White (RAL 9003)	О	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)	0	4.8	1,480	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1
1 Way	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
1 VVay	PT-TAHW0	Grill	White (RAL 9003)	X	4.5	1,420	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1
	PT-UPHG0	Grill	White (RAL 9003)	О	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)	0	4.9	1,480	34	500			2.6-3.5	2.6-3.5	5.6-7.1	5.6-7.1

Dual Vane Cassette Panel

Model Name PT-AAGW0 PT-AFGW0



Key Features

				Function		
Model	Dual Vane	Wi-Fi	Floor Temperature Sensor	Air Purification	Elevating Grille	Human Detection Sensor
PT-AAGW0	0	Optional	Optional	X	Χ	Optional
PT-AFGW0	0	Optional	Optional	Optional (Dust Sensor, Tact Switch)	Χ	Optional

Specification

Model	Suction			Color Gloss		Weight		Dimension (mm)		
Model	Туре	(RAL)	Gloss	(kg)	W	Н	D			
PT-AAGW0	Grid	White (RAL 9003)	-	7.1	950	35	950			
PT-AFGW0	Grid	White (RAL 9003)	-	7.5	950	35	950			

Air Purification Kit

Model	Туре	lmage	Model name	Dielectric Dust collecting filter	Photocatalytic Deodorizing filter	HVPS	lonizer
Air Purification Kit	4 Way		PTAHMP0	0	0	0	0
	1 Way		PTAHTP0	0	0	0	0
	Round		PTAHYP0	0	0	0	Х

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 Danol		Front Panel Weight (kg)		Dimensions (mm)		
Wodel Front Pa		ilet	NET	Gross	W	Н	D
DTDCM	PT-AAGW0 /	TB	5.9	8.8	1,157	1,157	268
PTDCM	PT-AFGW0	TA	5.9	8.8	1,157	1,157	310
DTDCO	DT LIOC	TR	5.0	7.2	907	907	268
PTDCQ	PT-UQC	TQ	5.0	7.2	907	907	310

Model Name

PTDCM / PTDCQ

Applied Products

4 Way Cassette (for chassis TA, TB, TQ, TR)

Included Parts

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

Cover C (4 units)





Cover D (4 units)



Installation Manual

ACCESSORIES

CO₂ Sensor

CO₂ sensor in ventilation system.



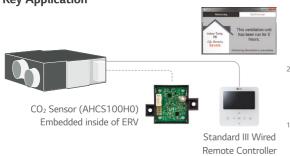
Key Features

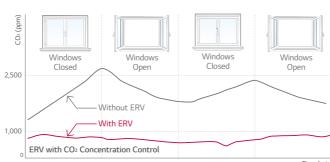
Specification

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

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

Key Application





How to Install

1. Remove a screw on the service cover. Pull the service cover fixing bracket (①), then remove the service cover(②). Remove two elements (③) and two

Model Name

Applied Products

LZ-H035GBA5 / LZ-H050GBA5

LZ-H080GBA5 / LZ-H100GBA5

LZ-H150GBA5 / LZ-H200GBA5

LZ-H050GXN0 / LZ-H080GXN0

LZ-H100GXN0 / LZ-H050GXH0

LZ-H080GXH0 / LZ-H100GXH0

Applicable Products

Dimensions (Unit:mm)

AHCS100H0

LZ-H025GBA4

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

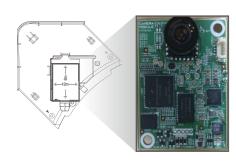
- Fig. (a) The distribute (a) into the Ch-CO₂ port of PCB.
 Airflow can be controlled by concentration of CO₂, after setting automatic operation mode at remote controller.

* Use the screwdriver whose total length is less than 250mm.



Human Detection Kit

Human Detection Kit ensures energy saving and controls wind direction.



Model Name 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 $2.7m \rightarrow Detection$ area $12m \times 6m$
- Installation Height 3.2m \rightarrow Detection area 15m x 8m
- Installation Height $4.2m \rightarrow$ Detection area $18m \times 9m$

Refrigerant Leakage Detector

R410A refrigerant leakage detector ensures room safety.



Model Name PRLDNVS0

Applied Products

Multi V IV Heat Pump & Heat Recovery Multi V Water IV

Key Features

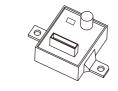
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously.)
- · Alarm is "on" when refrigerant leaks out more than
- 6,000ppm for 5 seconds. If it is reduced less than 6,000ppm for 5 seconds, alarm is "off".
- When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

Specification

Parts	Specifi	ication
	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
Sensor	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	Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.6
cover	Dimension of Backplate (W x H x D, mm)	80 x 110 x 6.5

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

Included Parts



Sensor





MECHANICAL

AC

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S

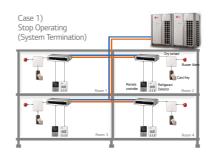
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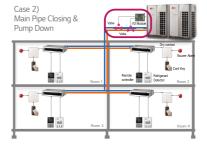
Connecting Cable

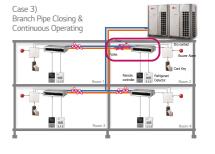
Sensor Protective Cover

Key Application

Refrigerant Leakage Detector has three application methods.







Accessory Specification (To realize the case 2 application)



LLL

PRLDNVS0 (Refrigerant leak detector)



[Optional / Field Supply] Ball Valve¹⁾

1) Please contact to subsidiary

don't provide this accessory

(Dry contact)



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







ACCESSORIES

324 I 325

MECHANICAL ACCE

EEV KIT (for Indoor Unit)

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

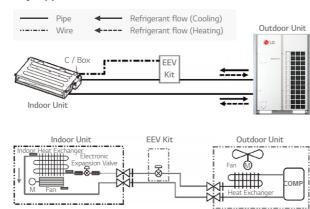


Model Name PRGK024A0

Key Features

• Decreasing noise level of Multi V Indoor units and easy installation.

Key Application



Applied Products

Indoor Unit	Model	Chassis	Applicable
	1 Way Cassette	TU	0
	2 May Cassatta	TT	N/A
Cassette	2 Way Cassette	TS	○ (~5.6kW)
		TR	0
		TQ	○ (~4.5kW)
	4 Way Cassette	TP	N/A
		TN	N/A
		TM	-
		BG	-
	High Sensible	BR	-
		B8	-
	High Static	B8	-
Duct		M1	○ (~5.6kW)
Duct	Middle Static	M2	-
		M3	-
		L1	0
	Low Static	L2	-
		L3	-
	Floor Standing	CE	0
	1 tool Stariding	CF	-
	Convertible	VE	0
	Ceiling Suspended	V1	-
	Ceiling Suspended	V2	-
Etc		SJ	0
Lic	Wall Mounted	SK	0
		SV	-
	Art Cool	SF	0
	Console	QA	0
	Hydro kit	K2	-
	TIYOTO KIL	K3	-

% \bigcirc : Applied, - : Not applied, N/A : Not Applicable

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







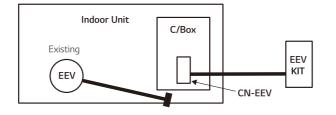
Meeting ro

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
- Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.
- ⑤ Assemble the control box cover.



IR Receiver

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



Model Name

PWLRVN000

Applied Products

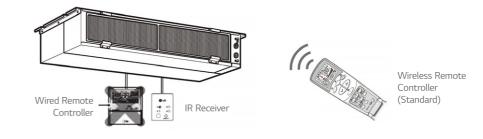
Multi V Indoors (Ceiling Concealed Duct, Floor Standing Units)

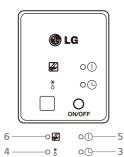
Key Features

- 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.





_____1

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.
- 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° C and the fan speed is high.

ACCESSORIES 326 I 327

MECHANICAL ACCE

SSORIES

Multi-tenant Power Module

System operation is stable when indoor unit power is lost.



Model Name PINPMB001

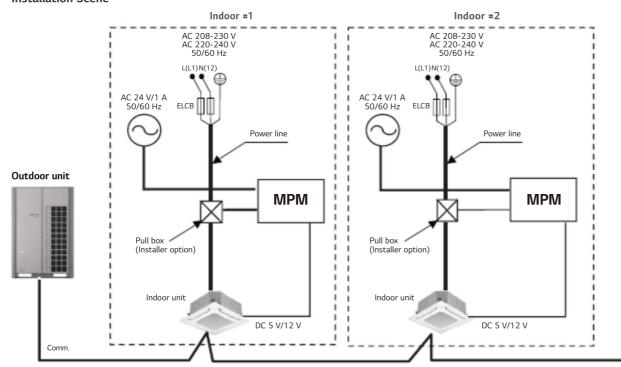
Applied Products

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.



Included Parts

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

Model		PRARS1	1	
Item	Auxliary Heater Relay Kit	Screw	Insulation	Installation Manual
Q'ty	1	2	2	1
Figure			$\hat{\wp}$	\Diamond

Model Name

PRARS1

Applied Products

Wall Mounted, Art Cool Mirror, Art Cool Gallery

Model Name

PRARH1

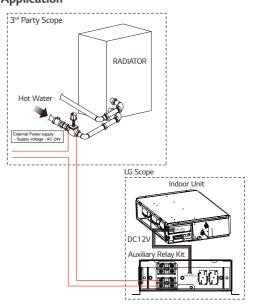
Applied Products

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

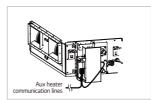
Key Features

- 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.

Key Application



How to Install

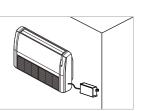


High Static Ducted

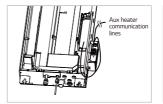


Aux he communities

Ceiling Suspended



Wall Mounted



1 Way Cassette



Low Static Ducted

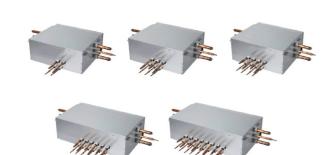


2 Way Cassette

4 Way Cassette

ACCESSORIES

Heat Recovery



Model Name

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

Applied Products

Multi V 5 Multi V IV Multi V Water IV

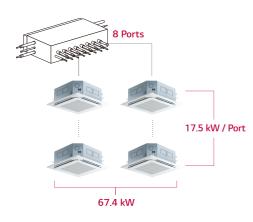
Key Features

PIPING ACCESSORIE

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

Connection Capacity

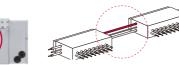
Maximum number of connectable indoor units: 64 IDUs / HR unit (in case of 8 ports model)



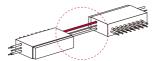
Flexible Connection

Series connection can be installed without pipes crossing.

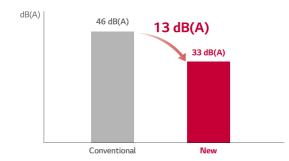




Considering the direction for Indoor units and SVC port, connection for reverse direction makes much easier



Reduce Noise



- Test Condition (ISO Standard)

 Temp.: (Cooling) 27°C DB / 19°C WB, 35°C DB / 24°C WB

 (Heating) 20°C DB / 15°C WB, 7°C DB / 6°C WB

 Operating: cooling → heating switching operation

Included Parts

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

Specification

	Mod	el		PRHR023	PRHR033	PRHR043	PRHR063	PRHR083
Number of Branch	h		EA	2	3	4	6	8
Maximum Connection Indoor Units (Per			kW	17.5 / 35	17.5 / 52.5	17.5 / 67.4	17.5 / 67.4	17.5 / 67.4
Maximum Numbe Units Per Branch	r of Connec	table Indoor	EA	8	8	8	8	8
Naminal Innut	Cooling		kW	0.040	0.040	0.040	0.076	0.076
Nominal Input	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
	Indoor	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Unit	Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Piping		Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Outdoor Unit	Low Pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Power Supply			Ø, V, Hz	1, 220-240, 50 1, 220, 60				

Reducers for Indoor Unit and HR Unit

(Unit:mm)

				(Offic. Hilli)
r	Model	Liquid	High Pressure	Low Pressure
Indoor unit reducer		009.52 Ø6.35		OD15.88 Ø12.7
HR unit reducer	PRHR023	009.52 Ø6.35	OD12.7 09.52	OD222 019.05 015.88
nk unit reducer	PRHR033 PRHR043 PRHR063 PRHR083	OD15.88 Ø12.7 Ø9.52	OD222 01905 01588	OD19.05 Ø15.88

ACCESSORIES 330 I 331

Y Branch and Header Branch

For refrigerant distribution of indoor units.



Model Name

Refer to specifications

Applied Products

Multi V 5

Multi V IV

Multi V III, Multi V Plus II, Multi V Plus

Multi V S

Multi V Water IV

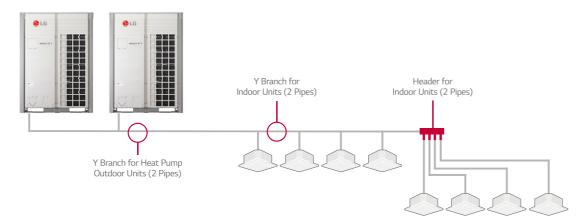
Multi V Water II

Multi V Water S

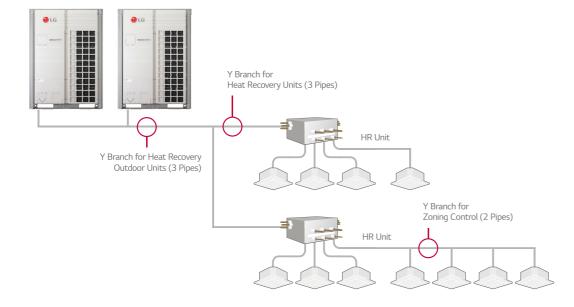
Key Features

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

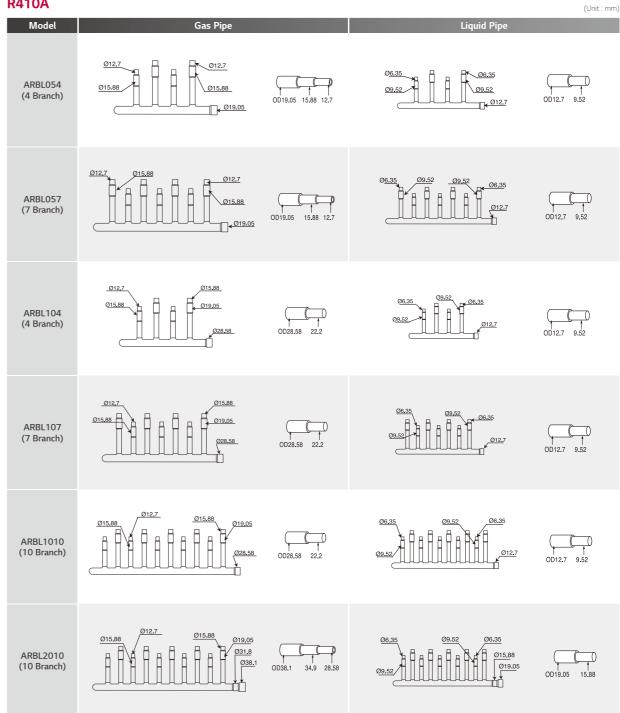
Key Application Heat Pump System



Heat Recovery System



Specification Header Branch R410A



ACCESSORIES 332 | 333

PIPING ACCESSORIE

Piping Accessories

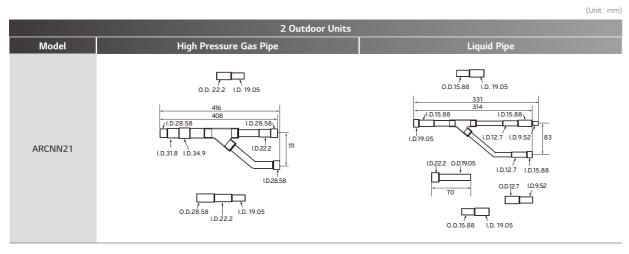
Y Branch pipe for connection of outdoor units.

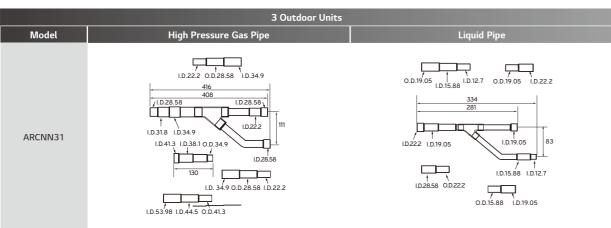
Specification

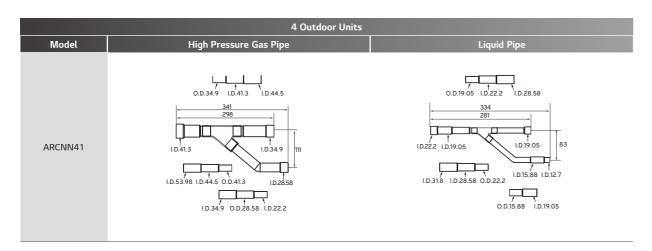
Heat Pump

R410A

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





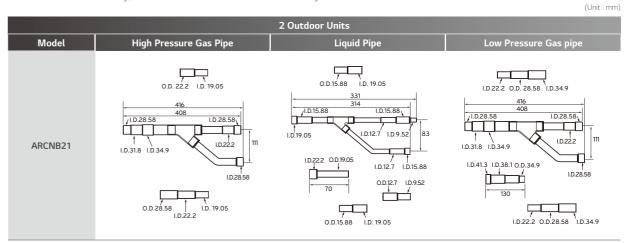


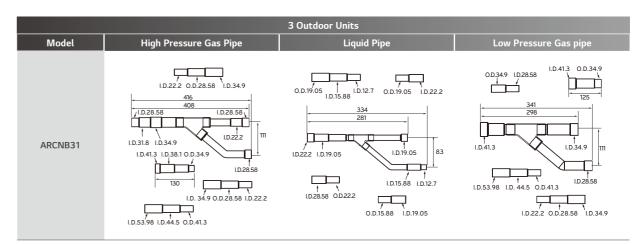
Specification

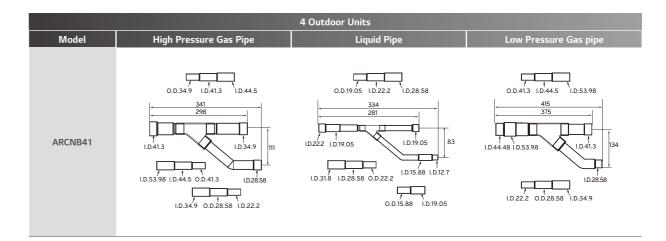
Heat Recovery

R410A

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







ACCESSORIES 334 I 335

Piping Accessories

Y Branch pipe for connection of outdoor units.

Specification

Heat Pump, Heat Recovery Zone Control

R410A

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

Model	Gas Pipe	Liquid Pipe
ARBLN01621	D15.88 ID15.88 ID15.88 ID15.88 ID15.88 ID15.88	D952 D635 D635 D635 D635
ARBLN03321	D1905 D1588	D852 D635 D635 D635 D635

Model	Gas Pipe	Liquid Pipe
ARBLN07121	D1905 ID28.58 ID222 ID15.88 ID1905 ID15.88 ID1905 ID15.88 ID1905 ID15.88 ID1905 ID15.88	UD127 LD15.88 LD15.88 LD127 LD19.05 LD12.7 LD19.05 LD15.88 LD15.88 LD12.7 LD19.05 LD15.88 LD19.05 LD19
ARBLN14521	(D349 (D41.3 (D381 (D2858 (D349 (D34	LD19,05 LD19,05 LD19,05 LD12,2 LD15,88 LD19,05 LD12,7 LD12,7 LD15,88 LD19,05

Model	Gas Pipe	Liquid Pipe
ARBLN23220	D5398	1D25.4 1D25.4 1D25.4 1D79.05 1D79.05

Specification

Heat Recovery

R410A

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

(Unit : mm

PIPING ACCESSORIES

Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB01621	ID. 15.88 ID. 12.7 ID. 15.8 ID. 15.8 ID. 12.7 ID. 15.8 ID. 1	D952 D953 D635 D952 D635 D952 D635	D1588 D1588 D1588 D1588
ARBLB03321	ID. 15.88 ID. 15.88 ID. 19.05 ID. 19	D952 D635 D127 D952 D635	D1905 D1588 D1905 D1588 D1905
ARBLB07121	ID. 19.05 ID. 28.58 ID. 28.58 ID. 28.58 ID. 28.58 ID. 19.05 ID. 19.05 ID. 12.7 ID. 19.05 ID. 12.7	ID127 ID1588 ID1588 ID127 ID12	ID1805 ID1588 ID1222 ID1188 ID1588 ID12858 ID2858 ID2858 ID2858 ID2858 ID2858
ARBLB14521	ID. 28.58 ID. 22.2 ID. 12.7	1.D19.05 1.D	10349 10413 10381 102858 102858 10381 102858 102858 10381 102858 102858 10381 102858 102858 10381 10381 102858 102858 103

Model	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB23220	1D34.9 1D38.9 1D	1D254 1D222 1D224 1D1905 96 1D254 1D1905 96 379 1D1588 1D127 0D127 1D635	1D4448 1D318 1D4448 1D381 134 420 1D381

ACCESSORIES

PIPING ACCESSORIES

Refrigerant Charging Kit

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



Model Name PRAC1

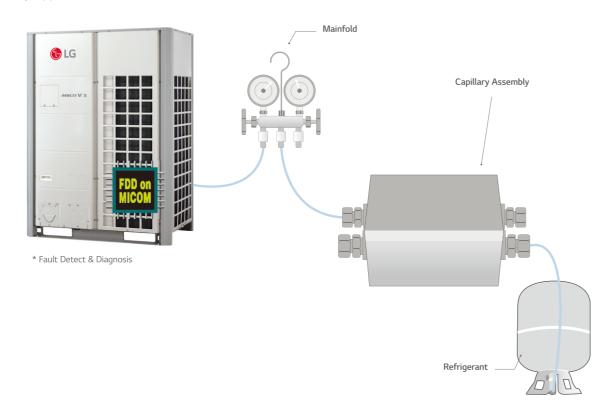
Applied Products

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

How to Use

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

Key Application



Drain Hose

Easy drain installation.



Model Name PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Applied Products

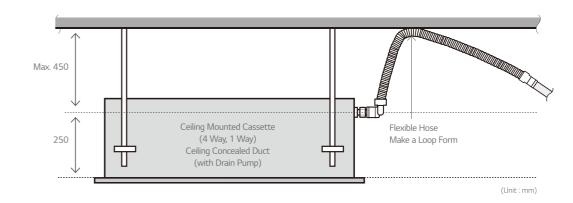
Multi V Indoor units

Key Features

- \bullet 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

ACCESSORIES 338 I 339

PIPING ACCESSORIE

Stopper Valves



Model Name

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

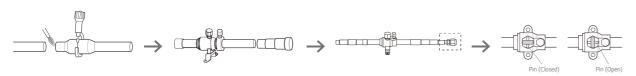
Key Features

- 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	Input → ID6.35 008.52 ID12.7	→ Output(Indoor unit) ID12.7 ID6.35	
PRVT780	Input → ID15,88 ID19,05 ID22,2	→ Output(Indoor unit) ID22.2 ID19.05 ID15.88	
PRVT980	Input →	Output(Indoor unit)	

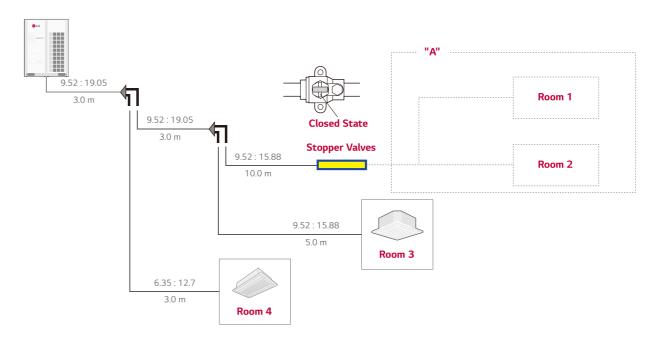
How to Install



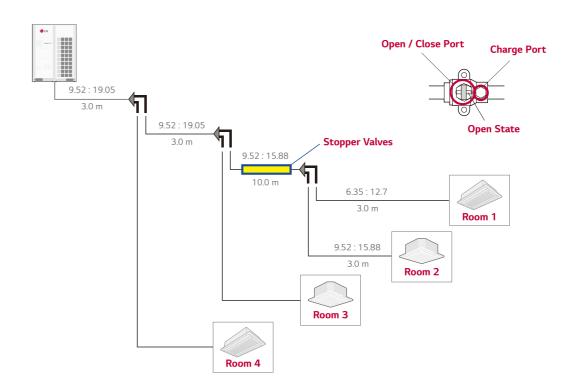
- Cut the inlet side of the connector, and weld the nine
- If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
- When installing a stopper valve, the flare part should be facing towards additional indoor unit.
- 4. When installing an additional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

Application

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



- In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
- If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
- After installation of additional indoor unit, you just need refrigerant charging for "A" section.
- Then, open the Stopper Valve.



ACCESSORIES 340 | 341

^{*} When welding, service valve should be wrapped by wet cloth.