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|Business |Solutions









OUTDOOR UNITS

016 - 095

MULTI V 5	
MULTI V S	
MULTI V M	

MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY)

INDOOR UNITS 96 - 177

030

050

068

074

WALL MOUNTED UNIT 104 SMART DUAL VANE CASSETTE 118 126 ROUND CASSETTE CEILING MOUNTED CASSETTE 130 CEILING CONCEALED DUCT 142 FRESH AIR INTAKE UNIT 154 FLOOR STANDING UNIT 156 160 CEILING SUSPENDED UNIT CONSOLE & FLOOR STANDING UNIT 166 174

COMPATIBILITY / FEATURE FUNCTIONS

HOT WATER SOLUTION

178 - 185

HYDRO KIT

180



VENTILATION **SOLUTIONS** 186 - 201

188

200

ERV ERV WITH DX COIL INDIVIDUAL CONTROL CENTRALIZED CONTROL INTEGRATION DEVICE

202 - 257







228

ACCESSORIES 258 - 279

208	MECHANICAL ACCESSORIES	260
216	PIPING ACCESSORIES	268



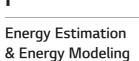
ENGINEERING TOOLS & SUPPORT

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

Dedicated to provide the best HVAC engineering support, LG Electronics Air-Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories : I. Draft Energy Estimation & Energy Modeling, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS* Program series has been developed to offer the best tool for LG HVAC systems, providing our customers a faster, easier, and a more accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

* LATS : LG Air-conditioner Technical Solution





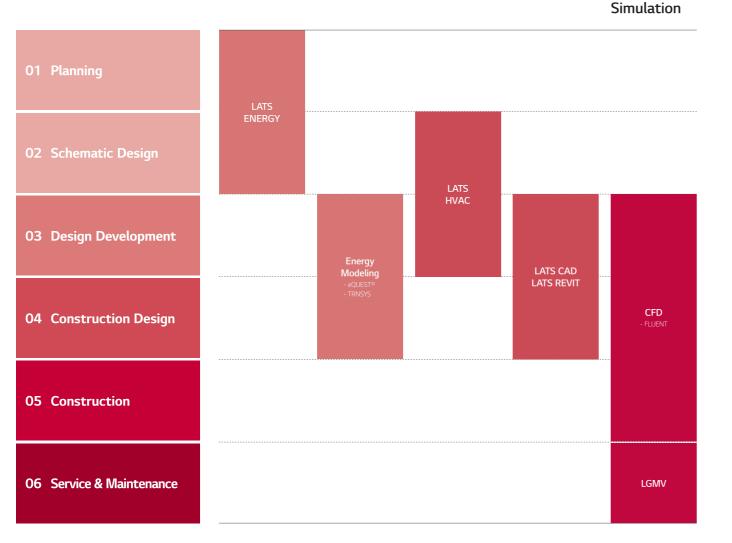
Model Selection & Design

Ш

Installation

Environment

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01 Draft Energy Estimation

LATS Energy

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

02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

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

03 Model Selection

LATS HVAC

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

04 Design

LATS CAD

LATS CAD enables faster and more accurate 2D design of LG HVAC products. It also enables modules for guotation and installation review that minimize inherent problems appearing during installation. * AutoCAD program is required.

LATS REVIT

LATS REVIT is developed to make 3D design of LG HVAC products. % AutoCAD REVIT program is required

05 Environment Simulation

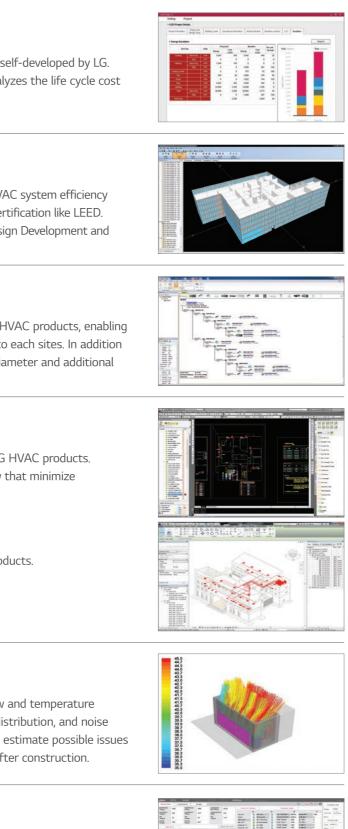
CFD Analysis

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

06 Service & Maintenance

LGMV

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



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BENEFITS OF LG MULTI V

Benefits for Building Owners



Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance.
 Requires no extra manpower does not require regular manpower for maintenance.
- With diverse control systems, maintenance cost is minimized.



Reliability Guaranteed in Every Aspect

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



Customized Comfort and Solution

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



Benefits for Developers / Construction Companies



Green Solutions

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

Maximizing Space Utilization

Large Capacity in compact size enhances space utilization.

Smart Building Solutions

- Easy interlock with Building Management System.
 Wi-Fi control available for anytime anywhere (via 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 interlocked solutions.



Professional Designing Support

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



Optimized Comfort in HVAC Designing

- Flexible and Longer piping length eases HVAC designing process.
- Meets any type of customer requirements of diverse environment, design condition, and building applications.

Benefits for End-users



Operation Cost Saving

- High efficiency is assured through all capacity and lineup.
- Maximum 31% of cost saved through MULTI V 5 Smart Load Control.*



Comfortable Cooling & Heating

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

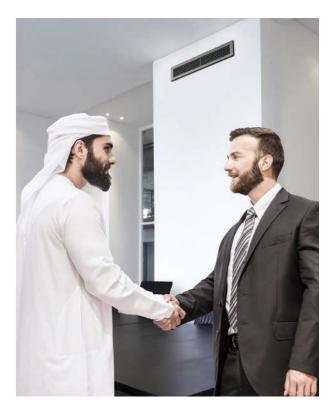


Convenient Functions

- Low-noise operation provides a restful environment.

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





APPLICATION SOLUTIONS

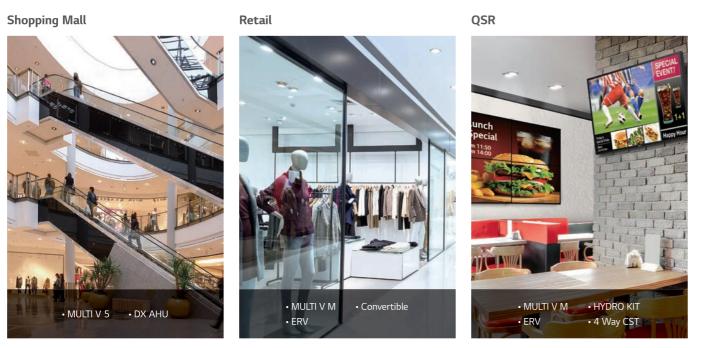
Office Supporting efficiency with flexibility

High Rise Office Building



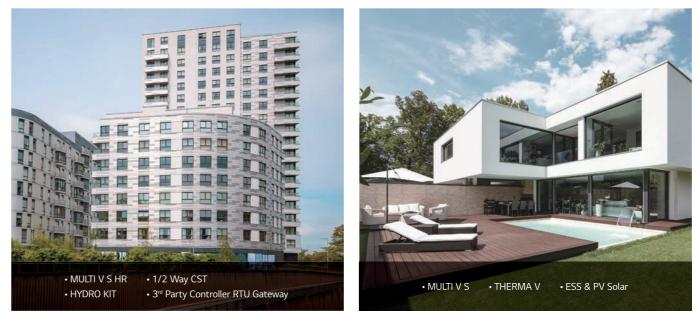
MULTI V series vitalizes the workspace with fresh air at all time, combined with its various indoor selection. The intelligent control solutions add comfort to the space.

Commercial Maximize business, minimize costs



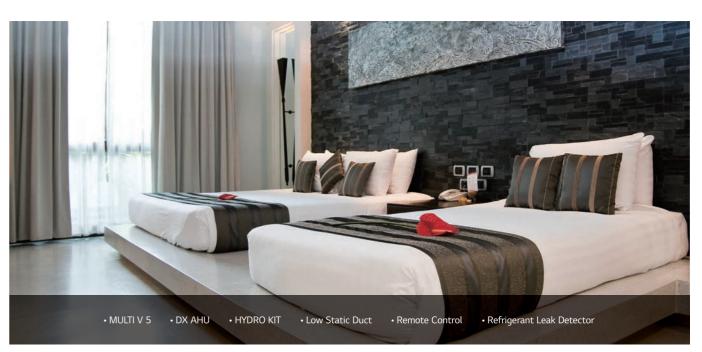
The highly efficient, energy saving MULTI V 5 and MULTI V M reduces operation costs, and provides comfort that suits any purpose and any space, helping to invest the extra space and expense to your business.

Condominium & Apartments



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

Hospitality Meeting diverse needs in every aspect



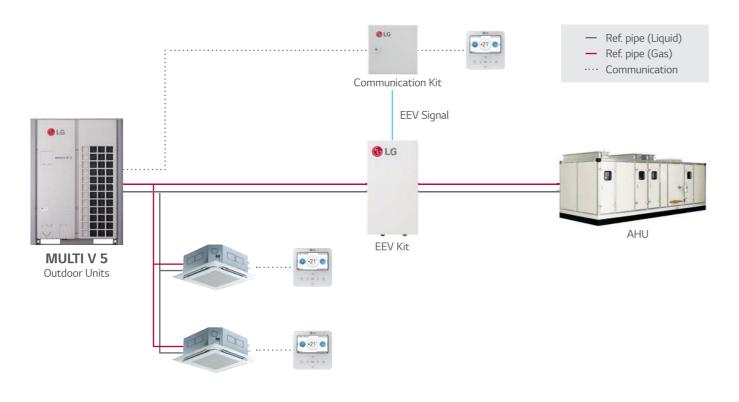
The diverse applications that can be applied to MULTI V 5 helps bring just the right solution to a sophisticated hotel business.

Single Family House & Villa

DIVERSE INTEGRATED SOLUTION

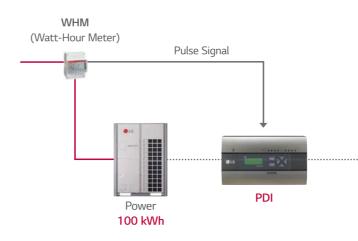
Air Handling Unit (AHU) Solution

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



Power Consumption Distribution Solution

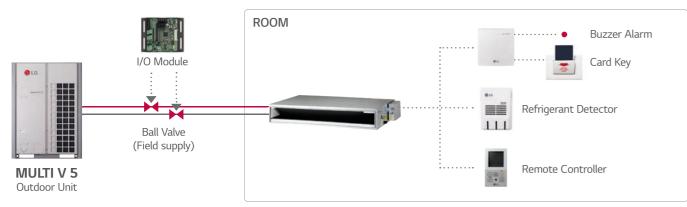
In case of shared power consumption in a building, a solution to distribute the power consumption amount per tenant might be necessary. Electricity charges can be billed to each tenant by using output from the LG Power Distributor Indicator (PDI). An administrator is able to check the power usage for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



Refrigerant Leak Detection Solution

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

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

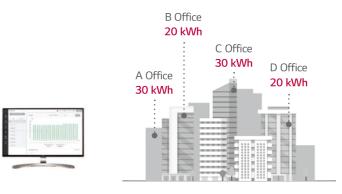


% Regulation : EN378, BREEAM, ASHRAE Std. 15 & 34

Total Control on Any of Devices

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





Mobile

DIVERSE INTEGRATED SOLUTION

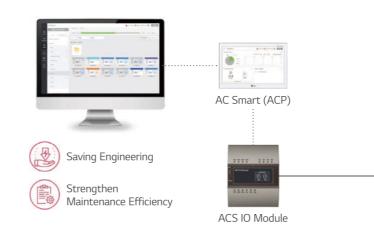
Energy Management Solution

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



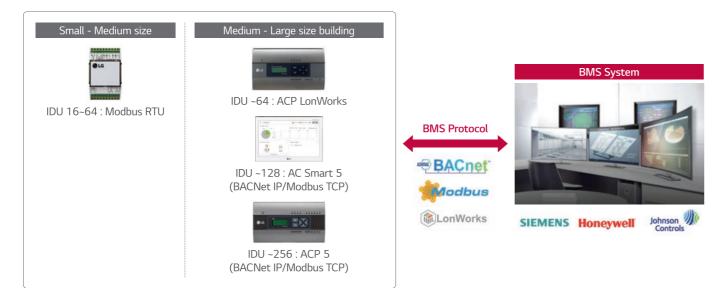
Interlocking Solution by Using ACS IO Module

It is costly to introduce a BMS system to control multiple devices or systems in a small building. With the ACS IO module, various IO contact points (DI, DO, UI, AO) can be interlocked and integrated 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.



Integration Solution with BMS

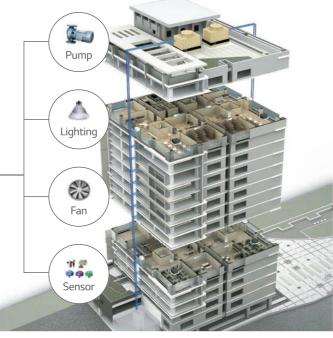
There are many BMS protocols used for the control of buildings' various systems such as HVAC, lighting, power and security. LG has a wide range of gateway products for different protocols such as BACnet, Modbus, and LonWorks. In addition, LG gateways include stand-alone central control capability to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



Interlocking Solution by Using Dry Contact

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





OUTDOOR UNITS

• MULTI V 5 • MULTI V S



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

OUTDOOR UNITS LINE-UP

Туре	Features	Appearance	4	5	6	8	10	12	14	16	18	20
MULTI V 5	 Dual sensing control Large capacity ODU Continuous Heating Black fin heat exchanger Ability to function as HP or HR 											
MOLITVS	 Flexible installation with heat recovery unit and large capacity For large space, high rise building and individual control building 											
	 Saves floor space Flexible design applications Slim, light and wide line up (4 ~ 12HP) 	0	•	•								
MULTI V S*	 (4 ~ 12HP) Combination of indoor unit (Up to 20 Units) For Small / Medium building 	0		•	•	•	•	•				
MULTI V S* Heat Recovery		0			•							
MULTI V M*	 High flexibility of installation Quiet operation Various indoor unit combinations & Long distance between modules 	9 10		•								
		15				•	•		•			•
MULTI V WATER IV	 High efficiency system regardless external conditions Indoor installation product Quiet unit noise level (No fans) For Water sourced system, High rise 									•	•	
Heat Pump / Heat Recovery	 Cooling and Aesthetic building Cooling and heating at the same time Minimizing energy cost by water sourced heat recovery system For individual control building 											

Non Tropical
 Tropical

BLACK FIN HEAT EXCHANGER

LG's exclusive "Black Fin" heat exchanger is specially designed for durable and long-lasting performance even in corrosive environments. The black coating is applied for protection from various corrosive external conditions and the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

CLG

MULTI V. 5

Black Fin

Heat Exchanger with Black Fin for Corrosion Resistance

The black coating is applied for protection from various corrosive external conditions and the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup.

> Hydrophilic Film (Water flow) 0.2 ~ 0.3µm The hydrophilic coating minimizes moisture buildup on the fin.

Epoxy Resin (Corrosion resistant) 1.6 ~ 2.0_µm The black coating provides strong protection from corrosion.

Aluminum Fin



Heat Exchange Previous Fin

Black Fin

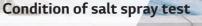
* Based on in-house testing.

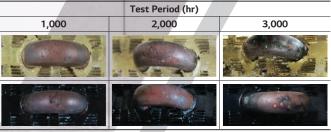
Strong Durability **Regardless of External** Environment

Corrosion Resistance Proven by Certified Tests

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

* Verification of corrosion resistance performance - ASTM B117 / ISO 9227 (10,000 hours, real time)





* Test conditions : KS (D 9502), ASTM - B117, Temp. : 35+°C / NaCl Concentration : 5% / Avg. spray rate : 1.5 + 0.5 ml / hr

DUAL SENSING CONTROL

The cooling load is based on the amount of both sensible heat load and latent heat load. Most importantly, the cooling load is keen to, and thus, greatly affected by external humidity, rather than the outdoor temperature. For this reason, MULTI V 5's Dual Sensing Control applied function senses both temperature and humidity and applies sensed data for load control in order to obtain in-depth understanding of sensible heat load and latent heat load. This helps preventing excessive cooling load supply and offers the most pleasant and comfortable cooling environment the users want combined with reduction in energy consumption.



Smart Load Control (SLC)

Smart Load Control function enables comprehensive understanding of environmental conditions in order to optimize energy efficiency and maximize indoor comfort level. This technology allows active control of discharge refrigerant temperature.

EER Up to 20% (vs. standard mode of Tropical 20HP at 35°)

EER Up to 15% ~ EER Up to 30%

temperature.

* The result is internal simulation

For low Lower load and capacity need temperature, lowe load and capacity igher evaporation are required.

in higher efficiency.



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LG

MULTI V. 5



Hot & Wet day

Humidity



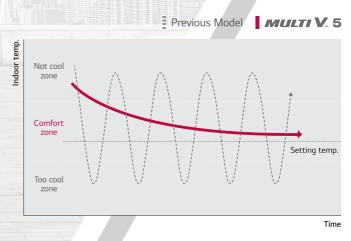
Hot & Dry day

Temperature

Energy Savings and Optimized Cooling through Temperature and Humidity Control

Comfort Cooling

Without stopping in between operations, this function allows MULTI V 5 to maintain operation at mild cooling mode around the set temperature by sensing both temperature and humidity with Dual Sensing Control. By preventing both cold draft and repeated turn On / Off previously required to match the set temperature, users can experience more comfortable indoor environment.



BIOMIMETICS TECHNOLOGY FAN

Enhanced core parts like biomimetics technology-based fans, 4-sided heat exchanger as opposed to 3-sided heat exchanger of previous model and compressor with increased efficiency and capacity allow large capacity for outdoor units. A single unit of MULTI V 5 can provide up to 26HP.



Larger Capacity ODU with Biomimetics Technology Fan



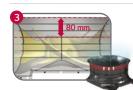




Humpback Whale Design Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increased wind power by reducing flacking.



Clam Shell Pattern Like the clam shell textures, the range difference created by moire pattern reduced noise level.

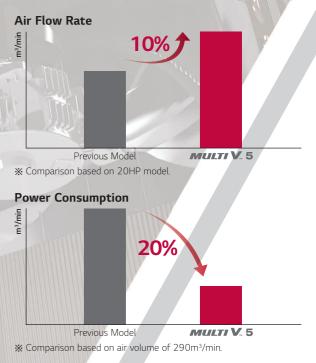


Increased Air Flow Rate With extended shroud, discharged air current is stabilized and power consumption is reduced.

Maximum Capacity and Efficiency

Enhanced Performance with Newly Developed Fan

Based on the biomimetics 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%. This eventually results in maximized performance with large capacity.



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.



01. HiPOR[™] (High Pressure Oil Return)

02. Smart Oil Management

03. Wide Operation Range from 10 to 165Hz

04. Enhanced Bearing with PEEK Material

- Up to 15% Operating time without oil supply
- Down to 3dB Noise Level (Max. Sound Pressure)

05. Vapor Injection

- 10% Improved Energy Efficiency



KEY FEATURES

AUTO DUST REMOVAL

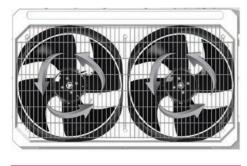
This feature in MULTI V 5 removes dust on outdoor unit heat exchanger. The outdoor unit fan(s) rotate reversely to blow off the dust. Once the accumulated dust on the heat exchanger is removed, the fan(s) rotates normally and unit goes back to normal operation.

Auto Dust Removal

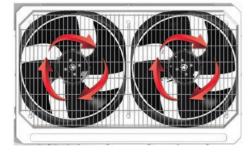
Technology Mechanism

Fan rotates reversely to run sand dust free operation.

Normal Operation



Auto Dust Removal







Enhanced Stability from Environmental Constraints





ACTIVE REFRIGERANT CONTROL **Stable Operation &** Sustaining Most Efficient Operation Part Load Efficiency % Heating Efficiency Compressor Accumulator 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. **COMFORT COOLING** Increased Indoor Comfort & Enhanced Operating Efficiency Previous Model ndoor tem MULTIV.5 Comfort zone Setting Too cool zone Time MULTI V 5's comfort control algorithm monitors the outdoor air

MULTI V 5's comfort control algorithm monitors the outdoor air temperature and humidity conditions. When changing weather conditions are favorable to raising target superheat, target superheat is moderated.

VERIFICATION BY 3rd

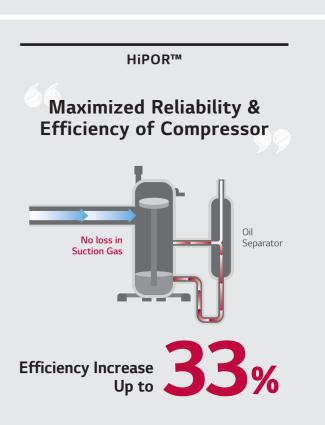
High performance & reliability for tropical region



LG Multi V 5 tropical has gotten verification of performance in hot climate condition by TUV.

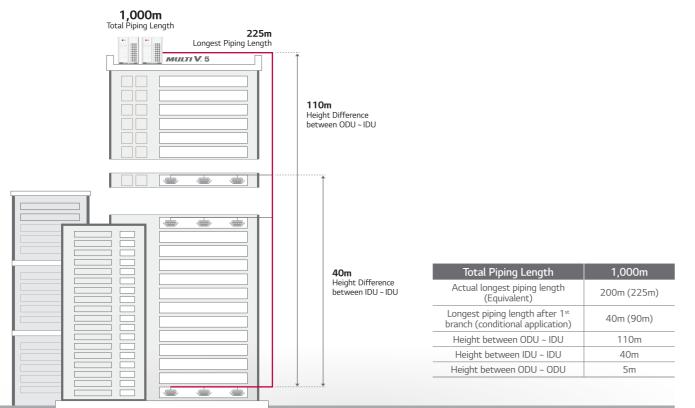
By this verification, it is more reliable to operate and make performance sufficiently in tropical condition. It is verified that Multi V 5 can operate continuously up to 55%.

Moreover, many units of Multi 5 Tropical has being operating very well in the Middle East, Gulf zone which is representative tropical region.



HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe. This does not waist energy when oil flows between the separator and the compressor.

Piping Length



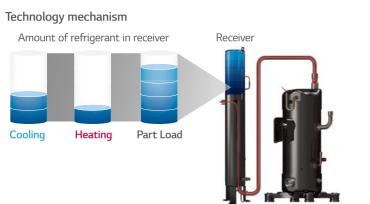
Active Refrigerant Control

Stable operation & Sustaining most efficient operation

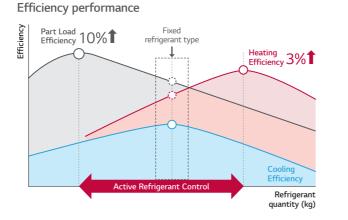
The accumulator in the outdoor unit has a storage tank mounted inside accumulator known as the receiver tank. The receiver tank is equipped with inlet and outlet valves that are electronically opened and closed. Refrigerant is being passed between the accumulator and the receiver tank on a continuous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

What are the benefits?

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

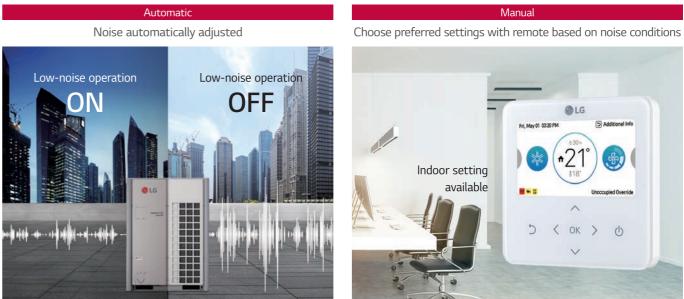


Accumulator Compressor



Low-Noise Operation

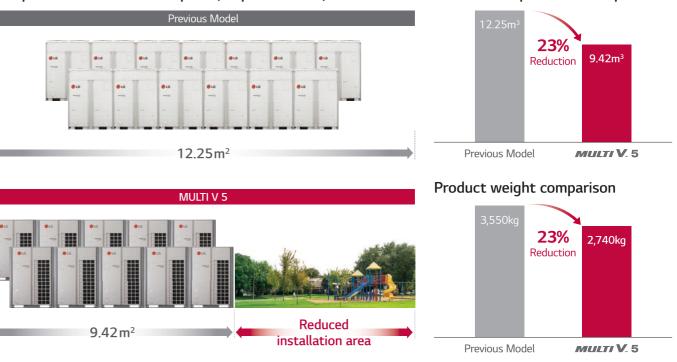
Unlike the previous model which enables low-noise operation only during night after judgment time, the low-noise operation of MULTI V 5 can function regardless of the time at the noise sensitive areas.

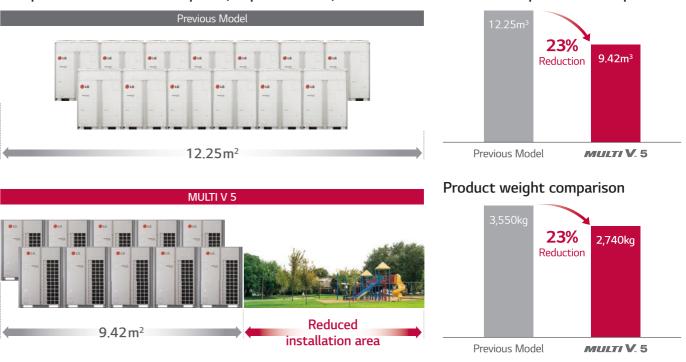


Flexible Installation Space with Large Capacity Outdoor Units

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

Comparison on installation space (Tropical 200HP)





% Indoor unit set up available with Standard III Remote Controller

Installation space area comparison

Dual Sensing SLC (Smart Load Control)

Enhanced energy saving & Increased indoor comfort

Cooling loads vary according to both temperature and humidity. With Dual sensing SLC, the proper amount of work can be exerted to meet the load not only depending on current temperature, but also on humidity. As a result, less 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, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.
- Heating Mode : By lowering the target high pressure during off-peak heating operation, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.

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A+

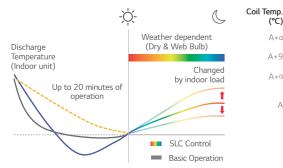
A+

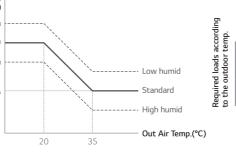
A+

Increased indoor comfort

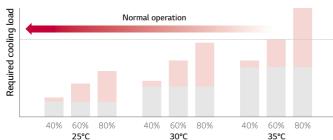
This function allows MULTI V 5 to maintain operation at mild cooling mode around the set temperature with adjusting compressor's speed by sensing both temperature and humidity.

SLC (Smart Load Control)

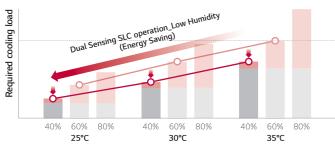




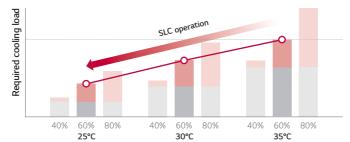
Normal operating mode



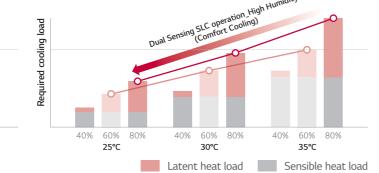
SLC operating mode - Low Humidity



SLC operating mode







Comfort Cooling

Increased indoor comfort & Enhanced operating efficiency

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

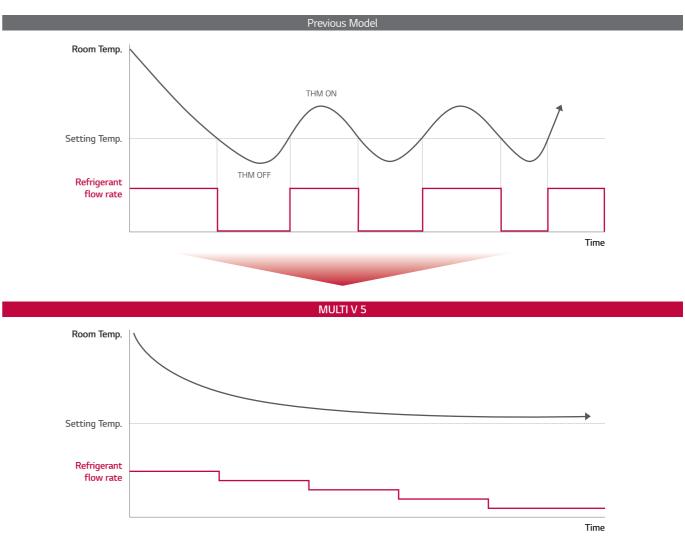
What are the benefits?

Increased indoor comfort

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

Enhanced operating efficiency

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



Intelligent Defrost

Increased heating run-hours

MULTI V 5 provides the same user selected defrost mode and method provided by LG's Intelligent Defrost based on current outdoor ambient temperature. With the addition of the outdoor air humidity sensor, MULTI V 5 Intelligent Defrost just got smarter. MULTI V 5 computes the current ambient air dew point temperature - the temperature at which frost will form on the outdoor unit coil in winter operation. MULTI V 5 makes continuous adjustments to the refrigeration cycle operating parameters to keep the outdoor coil surface temperature above actual dew point which can be calculated by using dry bulb Temp. and relative humidity. When the refrigeration cycle operating parameters can be adjusted no further without sacrificing heating comfort, further adjustment is stopped and frost is allowed to build on the coil.

What are the benefits?

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



% Increased heating operation time per day : Up to 17%

 LG Internal test result • Test condition (MULTI V 5 vs MULTI V IV, 22HP)

- Outdoor : 2/1°C, Indoor : 20/15°C - Humidity : 83%, Dew Point : -0.5°C

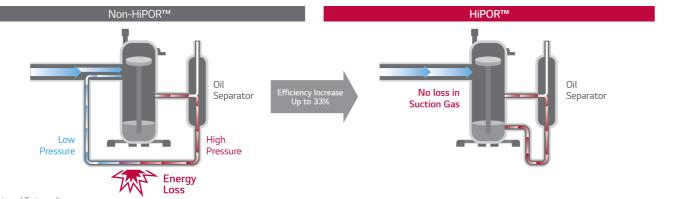
HiPOR™

Maximized reliability & Efficiency of compressor

HiPOR™ is a trademark for LG's High Performance Oil Return apparatus. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe. This does not waist energy when oil flows between the separator and the compressor. Because the operating pressure in the chamber containing the oil sump of the compressor and the pressure in the oil separator are nearly equal, there is no loss in compressor efficiency.

What are the benefits?

Maximizes reliability and efficiency of the compressor



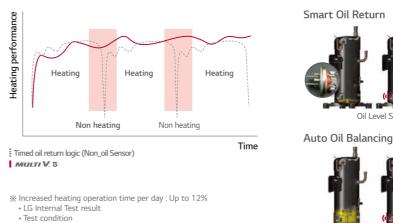
Smart Oil Management

Energy saving, Enhanced heating & Increased compressor reliability

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

What are the benefits?

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



⁻ without oil level sensor : every 8hour oil recovery operation

- with oil level sensor : non oil recovery operatio

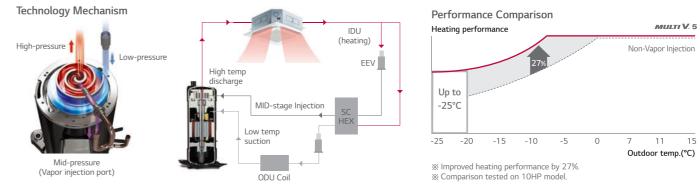
Vapor Injection

Increased heating performance

During low ambient operation down to -25°C, the sub-cooler provides medium temperature refrigerant gas to the compressor's vapor injection system. When injected into the compression chamber, system mass flow increases which stabilizes the system's suction pressure. In all cases the vapor injection increases the compressors cycle efficiency and reduces operating cost.

What are the benefits?

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



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

Black Fin

Improved durability

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

What are the benefits?

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



Hydrophilic film (Water flow) The Hydrophilic coating minimizes moisture buildup on the fin. Epoxy resin (Corrosion resistant)

The Black coating provides strong protection from corrosion Aluminum fin



Condition of gas exposure test

Condition of salt spray test

	Temperature	35°C		Tomp	Relative	Gas Volume Fraction		
-	· Mist of 5% NaCl (Ma	ass fraction) solution	_	Temp.	Humidity	NO ₂	SO ₂	
-	Misc of 570 Naci (Mi		-	25°C	95%	10 x 10 ⁻⁶	5 x 10 ⁻⁶	

Biomimetic Fan

Maximized performance

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

What are the benefits?

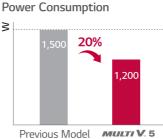
Based on the biomimetic technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20% when compared with the fan blade design on MULTI V IV. This eventually results in maximized performance with large capacity.





10%

Previous Model MULTI V. 5 * Comparison based on 20HP model

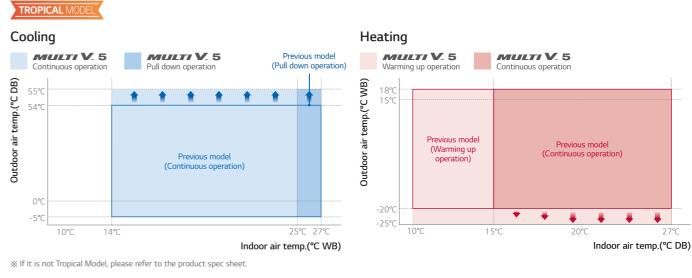


※ Comparison based on air volume of 290m³/mir

Wider Operation Range

Able to operate at extreme conditions

With enhanced inverter compressor and control technology coming from improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 extended range of cooling and heating operations. For heating, it can operate at as low as -25°C to perform properly even at very cold environment. It is improved perfectly to fully function at extreme conditions such as performing cooling operation at -15°C, making the product adequate for uses in specialized venues like technical rooms. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C.



Simple Test Run via LGMV

Increased overall efficiency in installation

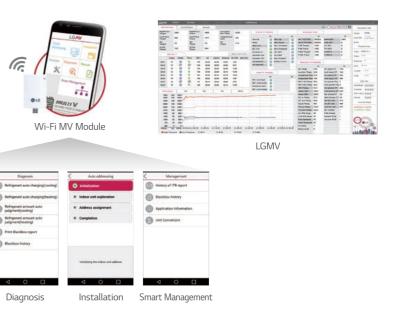
To make sure that the product functions properly, conducting a test run is recommended. For previous product, professional engineer who is well aware of more than 40 different functional settings and more than 200 error codes had to check main parts in order to make sure that the test run had succeeded.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





Cycle Monitoring

038 | 039





TROPICAL MODEL

ARUN080LTH5 / ARUN100LTH5 / ARUN120LTH5 / ARUN140LTH5



HP			8	10	12	14
	Combination Unit		ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
Model Name			ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
	Independent Unit	-	1	1	1	1
		RT	6.4	8.0	9.5	11.1
	*Cooling (Rated)	kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
		RT	5.6	7.1	8.9	10.5
Capacity	**Cooling (Rated)	kW	19.8	25.0	31.2	36.8
	5.	Btu/h	67,600	85,300	106,500	125,600
		RT	7.2	8.6	10.7	12.5
	Heating (Rated)	kW	25.2	30.3	37.8	43.9
	ricating (nated)	Btu/h	86,000	103,400	129,000	149,900
	*Cooling (Rated)	kW	5.00	7.00	8.00	9.30
nput	**Cooling (Rated)	kW	6.37	8.33	9.54	11.20
nput						
	Heating (Rated)	kW	5.80	7.30	8.06	9.69
	*Cooling (Rated)	kW	4.48	4.00	4.20	4.22
OP	**Cooling (Rated)	kW	3.11	3.00	3.27	3.29
	Heating (Rated)	kW	4.34	4.15	4.69	4.53
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gra
leat Exchange	r		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scr
	Piston Displacement	cm³/rev	62.1	62.1	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600	3,600	3,600
 - -	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1	5,300 × 1
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
		m³/min	240 x 1	240 x 1	240 x 1	320 x 1
an	Air Flow Rate(High)	ft³/min	8,476 x 1	8,476 x 1	8,476 x 1	11,301 x 1
	External Static Pressu	ıre (Max, Pa)	80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
Connctions	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
	,	mm	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) >
Dimensions (W	(x H x D)	inch	(36-5/8 x 66-17/32 x 29-29/32) x 1	(36-5/8 x 66-17/32 x 29-29/32) x 1	(36-5/8 x 66-17/32 x 29-29/32) x 1	(48-13/16 x 66-17/3) x 29-29/32) x 1
1		kg	173 × 1	171 × 1	188 × 1	220 × 1
Vet Weight		lbs	381 × 1	377 × 1	414 × 1	485 × 1
Sound	Cooling	dB(A)	58.0	58.5	59.0	60.0
Pressure Level	Heating	dB(A)	60.0	60.5	60.0	61.0
Sound Power	Cooling	dB(A)	78.0	79.0	79.0	82.0
evel	Heating	dB(A)	80.0	80.0	80.0	84.0
Communicatio	-	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5			
	Refrigerant name	((((1) 30)	R410A	R410A	R410A	R410A
		. ka	4.7	4.7	10.0	13.0
Refrigerant	Precharged Amount ir factory	lbs	10.4	10.4	22.0	28.7
		105			Electronic Expansion Valve	28.7 Electronic Expansion Val
	Control		Electronic Expansion Valve	Electronic Expansion Valve	,	
ower Supply		Ø, V, Hz	3, 380 ~ 415, 50 3, 400, 60			
112						

TROPICAL MODEL

ARUN160LTH5 / ARUN180LTH5 / ARUN200LTH5 / ARUN220LTH5

HP			16	18	20	22
	Combination Unit		ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
Model Name			ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
	Independent Unit		1	1	1	1
		RT	12.7	14.3	15.9	17.5
	*Cooling (Rated)	kW	44.8	50.4	56.0	61.6
	5. /	Btu/h	152,900	172,000	191,100	210,200
		RT	11.4	12.4	13.6	14.1
Capacity	**Cooling (Rated)	kW	40.3	43.6	48.0	49.6
	/	Btu/h	137,500	148,800	163.800	169,100
		RT	14.2	16.1	17.9	19.7
	Heating (Rated)	kW	50.0	56.7	63.0	69.3
	······	Btu/h	170,600	193,500	215,000	236,500
	*Cooling (Rated)	kW	10.80	11.20	13.00	14.84
Input	**Cooling (Rated)	kW	13.15	14.39	15.77	16.72
input	Heating (Rated)	kW	11.36	11.98	15.52	17.54
	*Cooling (Rated)	kW	4.15	4,50	4,31	4,15
COP	**Cooling (Rated)	kW	3.06	3.03	3.04	2.96
001	Heating (Rated)	kW	4.40	4.73	4.06	3.95
Power Factor	Rated		0.93	0.93	0.93	0.93
Casing	Color	-	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gra
Heat Exchange			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Heat Excilalitye			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scro
	Type Piston Displacement	cm3/rou	62.1	62.1 x 1 + 43.8 x 1	62.1 x 2	62.1 x 2
	Number of Revolution		3,600	3,600 x 2	3,600 x 2	
Compressor	Motor Output x	W x No.	5,300 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2	3,600 x 2 5,300 x 2
	Number		Direct On Line	Direct On Line	Direct On Line	Direct On Line
-	Starting Method		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Type Motor Output x Number	W	900 x 2	900 x 2	900 x 2	900 x 2
	Number	m³/min	320 x 1	320 x 1	320 x 1	320 x 1
Fan	Air Flow Rate(High)	ft³/min	11,301 x 1	11,301 x 1	11,301 x 1	11,301 x 1
	External Static Pressu		80	80	80	80
	Drive	ie (ivian, i a)	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
		Cido / Top	TOP	TOP	TOP	TOP
	Discharge Liquid Pipe	Side / Top mm (inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Pipe Connctions	Gas Pipe		28.58 (1-1/8)		28.58 (1-1/8)	
	Gas Fipe	mm (inch) mm	(1,240 x 1,690 x 760) x 1	28.58 (1-1/8) (1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	28.58 (1-1/8) (1,240 x 1,690 x 760) x
Dimensions (W	(x H x D)		(1,240 x 1,090 x 700) x 1 (48-13/16 x 66-17/32	(1,240 x 1,050 x 700) x 1 (48-13/16 x 66-17/32	(1,240 x 1,030 x 700) x 1 (48-13/16 x 66-17/32	(1,240 x 1,090 x 700) x (48-13/16 x 66-17/32
`	,	inch	x 29-29/32) x 1	x 29-29/32) x 1	x 29-29/32) x 1	x 29-29/32) x 1
Nat 10/-:		kg	220 × 1	260 × 1	274 × 1	274 × 1
Net Weight		lbs	485 × 1	573 × 1	604 × 1	604 × 1
Sound	Cooling	dB(A)	60.5	61.0	62.0	64.5
Pressure Level	Heating	dB(A)	61.5	62.0	64.5	65.5
Sound Power	Cooling	dB(A)	83.0	85.0	86.0	86.0
Level	Heating	dB(A)	85.0	86.0	87.0	88.0
Communicatior	n Cable	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name	. ,	R410A	R410A	R410A	R410A
	Precharged Amount in	kg	13.0	13.0	14.0	14.0
Refrigerant	factory	lbs	28.7	28.7	30.9	30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Val
			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 400, 60	3, 400, 60	3, 400, 60	3, 400, 60
			, -,	, -,	, -,	,



TROPICAL MODEL

ARUN240LTH5 / ARUN260LTH5 ARUN280LTH5 / ARUN300LTH5



НР			24	26	28	30	
ΠP	Combination II it						
	Combination Unit		ARUN240LTH5	ARUN260LTH5	ARUN280LTH5	ARUN300LTH5	
Model Name	Independent Unit		ARUN120LTH5 ARUN120LTH5	ARUN140LTH5 ARUN120LTH5	ARUN160LTH5 ARUN120LTH5	ARUN160LTH5 ARUN140LTH5	
	independent offic	-	2	2	2	2	
		RT	19.1	20.7	22.3	23.9	
	*Cooling (Rated)	kW	67.2	72.8	78.4	84.0	
		Btu/h	229,300	248,400	267,500	286,600	
		RT	17.7	19.3	20.3	21.9	
Capacity	**Cooling (Rated)	kW	62.4	68.0	71.5	77.1	
	/	Btu/h	212,900	232,000	244,000	263,100	
		RT	21.5	23.2	24.9	26.7	
	Heating (Rated)	kW	75.6	81.7	87.8	93.9	
	ricating (nated)	Btu/h	257,900	278,800	299,600	320,500	
	*Cooling (Dated)	kW	16.00	17.30	18.80	20.10	
Immute	*Cooling (Rated)		19.08	20.74	22.69	24.35	
nput	**Cooling (Rated)	kW					
	Heating (Rated)	kW	16.12	17.75	19.42	21.05	
	*Cooling (Rated)	kW	4.20	4.21	4.17	4.18	
COP .	**Cooling (Rated)	kW	3.27	3.28	3.15	3.17	
	Heating (Rated)	kW	4.69	4.60	4.52	4.46	
Power Factor	Rated	-	0.93	0.93	0.93	0.93	
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gra	
Heat Exchange	r		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scr	
	Piston Displacement	cm ³ /rev	62.1 x 2	62.1 x 2	62.1 x 2	62.1 x 2	
	Number of Revolution	rev/min	3,600 x 2	3,600 x 2	3,600 x 2	3,600 x 2	
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 2	
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line	
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	
	Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan	
	Motor Output x Number	W	1,200 x 2	(900 × 2) + (1,200 × 1)	(900 x 2) + (1,200 x 1)	900 x 4	
		m³/min	240 x 2	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	320 x 2	
Fan	Air Flow Rate(High)	ft³/min	8,476 x 2	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)	11,301 x 2	
	External Static Pressure (Max, Pa)		. 80	80	80	80	
	Drive	~ / /	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	
	Discharge	Side / Top	ТОР	ТОР	ТОР	TOP	
Dipo	Liquid Pipe	mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	
Pipe Connctions	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	
		mm	(930 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x	
Dimensions (W	x H x D)	inch	(36-5/8 x 66-17/32 x 29- 29/32) x 2	(48-13/16 x 66-17/32 x	(48-13/16 x 66-17/32 x 29-29/32) x 1 + (36-5/8 x 66- 17/32 x 29-29/32) x 1	(48-13/16 x 66-17/3 x 29-29/32) x 2	
		kg	188 × 2	(220 × 1) + (188 × 1)	(220 × 1) + (188 × 1)	220 × 2	
Net Weight		lbs	414 × 2	(485 × 1) + (414 × 1)	(485 × 1) + (414 × 1)	485 × 2	
Sound	Cooling	dB(A)	62.0	62.5	62.8	63.3	
Pressure Level		dB(A)	63.0	63.5	63.8	64.3	
	-	dB(A)	82.0	83.8	84.5	85.5	
Sound Power	Cooling						
	Heating	dB(A)	83.0	85.5	86.2	87.5	
Communication		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	
	Refrigerant name		R410A	R410A	R410A	R410A	
Refrigerant	Precharged Amount in		10.0 + 10.0	13.0 + 10.0	13.0+ 10.0	13.0+ 13.0	
	factory	lbs	22.0 + 22.0	28.7 + 22.0	28.7 + 22.0	28.7 + 28.7	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Val	
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	
Swei Suppry		2, V, 112	3, 400, 60	3, 400, 60	3, 400, 60	3, 400, 60	

TROPICAL MODEL

ARUN320LTH5 / ARUN340LTH5 / ARUN360LTH5

HP			32	34	36
	Combination Unit		ARUN320LTH5	ARUN340LTH5	ARUN360LTH5
Model Name	Independent Unit		ARUN160LTH5 ARUN160LTH5	ARUN180LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5
			2	2	2
		RT	25.4	27.0	28.6
	*Cooling (Rated)	kW	89.6	95.2	100.8
		Btu/h	305,700	324,800	343,900
		RT	22.9	23.8	25.1
Capacity	**Cooling (Rated)	kW	80.6	83.9	88.3
		Btu/h	275,000	286,300	301,300
		RT	28.4	30.3	32.1
	Heating (Rated)	kW	100.0	106.7	113.0
		Btu/h	341,200	364,100	385,600
	*Cooling (Rated)	kW	21.60	22.00	23.80
Input	**Cooling (Rated)	kW	26.30	27.54	28.92
	Heating (Rated)	kW	22.72	23.34	26.88
	*Cooling (Rated)	kW	4.15	4.33	4.24
СОР	**Cooling (Rated)	kW	3.06	3.05	3.05
	Heating (Rated)	kW	4.40	4.57	4.20
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchange	r		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 2	(62.1 x 2) + (43.8 x 1)	62.1 x 3
Compressor	Number of Revolution	rev/min	3,600 x 2	3,600 x 3	3,600 x 3
	Motor Output x Number	W x No.	5,300 x 2	(5,300 × 2) + (4,200 × 1)	5,300 x 3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 4	900 x 4	900 x 4
	Air Flow Data (Lick)	m³/min	320 x 2	320 x 2	320 x 2
Fan	Air Flow Rate(High)	ft³/min	11,301 x 2	11,301 x 2	11,301 x 2
	External Static Pressu	re (Max, Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	ТОР	TOP	ТОР
Pipe	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connctions	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	41.3 (1-5/8)
D:		mm	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2	(1,240 x1,690 x 760) x 2
Dimensions (W	(XHXD)	inch	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x
		kg	220 × 2	(260 × 1) + (220 × 1)	(274 × 1) + (220 × 1)
Net Weight		lbs	485 × 2	(573 × 1) + (485 × 1)	(604 × 1) + (485 × 1)
Sound	Cooling	dB(A)	63.5	63.8	64.3
Pressure Level	Heating	dB(A)	64.5	64.8	66.3
Sound Power	Cooling	dB(A)	86.0	87.1	87.8
Level	Heating	dB(A)	88.0	88.5	89.1
Communicatio		No. x mm ² (VCTF-SB)		2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name	(R410A	R410A	R410A
	Precharged Amount in	ka	13.0 + 13.0	13.0 + 13.0	14.0 + 13.0
Refrigerant	factory	lbs	28.7 + 28.7	28.7 + 28.7	30.9 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Control		3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
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Number of Maximum Connectable Indoor Units

TROPICAL MODEL

ARUN380LTH5 / ARUN400LTH5 / ARUN420LTH5



64

64

HP			38	40	42
THE	Combination Unit		ARUN380LTH5	ARUN400LTH5	ARUN420LTH5
			ARUN220LTH5	ARUN200LTH5	ARUN220LTH5
Model Name	Independent Unit		ARUN160LTH5	ARUN200LTH5	ARUN200LTH5
			2	2	2
		RT	30.2	31.8	33.4
	*Cooling (Rated)	kW	106.4	112.0	117.6
		Btu/h	363,000	382,100	401,300
		RT	25.5	27.3	27.7
Capacity	**Cooling (Rated)	kW	89.9	96.0	97.6
		Btu/h	306,600	327,600	332,900
		RT	33.9	35.8	37.6
	Heating (Rated)	kW	119.3	126.0	132.3
		Btu/h	407,100	429,900	451,400
	*Cooling (Rated)	kW	25.64	26.00	27.84
Input	**Cooling (Rated)	kW	29.87	31.54	32.49
	Heating (Rated)	kW	28.90	31.04	33.06
	*Cooling (Rated)	kW	4.15	4.31	4.22
COP	**Cooling (Rated)	kW	3.01	3.04	3.00
	Heating (Rated)	kW	4.13	4.06	4.00
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchange	er		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 3	62.1 x 4	62.1 x 4
	Number of Revolution	rev/min	3,600 x 3	3,600 × 4	3,600 x 4
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 4	5,300 x 4
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 4	900 x 4	900 x 4
_	Air Flow Date(Lligh)	m³/min	320 x 2	320 x 2	320 x 2
Fan	Air Flow Rate(High)	ft³/min	11,301 x 2	11,301 x 2	11,301 x 2
	External Static Pressu	ire (Max, Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	ТОР	ТОР	TOP
Pipe	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connctions	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Dimensione (M	(mm	(1,240 x1,690 x 760) x 2	(1,240 ×1,690 × 760) × 2	(1,240 x1,690 x 760) x 2
Dimensions (W	(XHXD)	inch	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 2
NI-+) 0/-:		kg	(274 × 1) + (220 × 1)	274 × 2	274 × 2
Net Weight		lbs	(604 × 1) + (485 × 1)	604 × 2	604 × 2
Sound	Cooling	dB(A)	66.0	65.0	66.4
Pressure Level	Heating	dB(A)	67.0	67.5	68.0
Sound Power	Cooling	dB(A)	87.8	89.0	89.0
Level	Heating	dB(A)	89.8	90.0	90.5
Communicatio	n Cable	No. x mm ² (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
D.C.	Precharged Amount in	kg	14.0 + 13.0	14.0 + 14.0	14.0 + 14.0
Refrigerant	factory	lbs	30.9 + 28.7	30.9 + 30.9	30.9 + 30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
D 0 /		<i>a</i>	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 400, 60	3, 400, 60	3, 400, 60
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61

TROPICAL MODEL

ARUN440LT	H5 / ARUN460LTH	15 / ARUN480LTH	5		
НР			44	46	48
	Combination Unit		ARUN440LTH5	ARUN460LTH5	ARUN480LTH5
Model Name	Independent Unit		ARUN220LTH5 ARUN220LTH5 2	ARUN160LTH5 ARUN160LTH5 ARUN140LTH5 3	ARUN160LTH5 ARUN160LTH5 ARUN160LTH5
		RT	35.0	36.6	3
	*Cooling (Rated)	kW	123.2	128.8	134.4
	cooling (Nated)	Btu/h	420,400	439,500	458,600
		RT	28.2	33.3	34,3
Capacity	**Cooling (Rated)	kW	99.2	117.4	120.9
Capacity	cooling (Nated)	Btu/h	338,200	400,600	412,500
		RT	39.4	400,000	412,500
	Heating (Rated)	kW	138.6	143.9	42.6
	rieating (Rateu)	Btu/h	472,900	491,000	511,800
	*Cooling (Rated)	kW	29.68	30.90	32.40
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Input	**Cooling (Rated) Heating (Rated)	kW kW	33.44 35.08	37.50 32.41	39.45 34.08
	*Cooling (Rated)	kW	4.15	4.17	4.15
COP	**Cooling (Rated)	kW	2.97	3.13	3.06
COF	Heating (Rated)	kW	3.95	4.44	4.40
Power Factor	Rated	-	0.93	0.93	0.93
	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Casing Heat Exchange			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Heat Excilallye			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Type Piston Displacement	cm ³ /rov	62.1 x 4	62.1 x 3	62.1 x 3
	Number of Revolution		3,600 x 4	3,600 x 3	3,600 x 3
Compressor	Motor Output x Number	W x No.	5,300 x 4	5,300 x 3	5,300 x 3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 4	900 x 6	900 x 6
		m³/min	320 x 2	320 x 3	320 x 3
Fan	Air Flow Rate(High)	ft³/min	11,301 x 2	11,301 x 3	11,301 x 3
	External Static Pressu	re (Max, Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	ТОР	ТОР
Pipe	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connctions	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
D: ()A	(mm	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3
Dimensions (W	(XHXD)	inch	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3
NI . 147 * I .		kg	274 × 2	220 × 3	220 × 3
Net Weight		lbs	604 × 2	485 × 3	485 × 3
Sound	Cooling	dB(A)	67.5	65.1	65.3
Pressure Level	Heating	dB(A)	68.5	66.1	66.3
Sound Power	Cooling	dB(A)	89.0	87.5	87.8
Level	Heating	dB(A)	91.0	89.5	89.8
Communicatio	n Cable	No. x mm ² (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
Defi	Precharged Amount in	kg	14.0 + 14.0	13.0 + 13.0 + 13.0	13.0 + 13.0 + 13.0
Refrigerant	factory	lbs	30.9 + 30.9	28.7 + 28.7 + 28.7	28.7 + 28.7 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
		<i>a.</i>	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 400, 60	3, 400, 60	3, 400, 60



TROPICAL MODEL

ARUN500LTH5 / ARUN520LTH5 / ARUN540LTH5



HP			50	52	54
	Combination Unit		ARUN500LTH5	ARUN520LTH5	ARUN540LTH5
Model Name	Independent Unit		ARUN180LTH5 ARUN160LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5 ARUN160LTH5	ARUN220LTH5 ARUN160LTH5 ARUN160LTH5
			3	3	3
		RT	39.8	41.4	42.9
Capacity	*Cooling (Rated)	kW	140.0	145.6	151.2
		Btu/h	477,700	496,800	515,900
		RT	35.3	36.5	37.0
	**Cooling (Rated)	kW	124.2	128.6	130.2
		Btu/h	423,800	438,800	444,200
		RT	44.5	46.3	48.1
	Heating (Rated)	kW	156.7	163.0	169.3
		Btu/h	534,700	556,200	577,700
	*Cooling (Rated)	kW	32.80	34.60	36.44
Input	**Cooling (Rated)	kW	40.69	42.07	43.02
input	Heating (Rated)	kW	34.70	38.24	40.26
		kW	4.27	4.21	40.26
COD	*Cooling (Rated)				
COP	**Cooling (Rated)	kW	3.05	3.06	3.03
	Heating (Rated)	kW	4.52	4.26	4.21
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchange	r		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	(62.1 x 3) + (43.8 x 1)	62.1 x 4	62.1 x 4
	Number of Revolution	rev/min	3,600 x 4	3,600 × 4	3,600 × 4
Compressor	Motor Output x Number	W x No.	(5,300 x 3) + (4,200 x 1)	5,300 × 4	5,300 × 4
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 x 6
		m³/min	320 x 3	320 x 3	320 x 3
Fan	Air Flow Rate(High)	ft³/min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressu	ire (Max, Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	ТОР	TOP
Pipe	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connctions	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
	0001100	mm	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3
Dimensions (W	(xHxD)	inch	(48-13/16 x 66-17/32 x 29-29/32) x 3		
			(260 × 1) + (220 × 2)	(274 × 1) + (220 × 2)	(274 × 1) + (220 × 2)
Vet Weight		kg Ibs	(573 × 1) + (485 × 2)	(604 × 1) + (485 × 2)	(604 × 1) + (485 × 2)
	Cooling	dB(A)	65.4	65.8	67.0
Sound Pressure Level					
	-	dB(A)	66.4	67.5	68.0
Sound Power	Cooling	dB(A)	88.5	89.0	89.0
	Heating	dB(A)	90.1	90.5	91.0
Communication		No. x mm ² (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		13.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0
	factory	lbs	28.7 + 28.7 + 28.7	30.9 + 28.7 + 28.7	30.9 + 28.7 + 28.7
Refrigerant			Electronic Europeier Melus	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant	Control		Electronic Expansion Valve		Liectionic Expansion valve
Refrigerant Power Supply	Control	Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50

TROPICAL MODEL

ARUN560LTH5 / ARUN580LTH5 / ARUN600LTH5

HP			56	58	60
	Combination Unit		ARUN560LTH5	ARUN580LTH5	ARUN600LTH5
Model Name	Independent Unit		ARUN200LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN220LTH5 ARUN160LTH5
			3	3	3
		RT	44.5	46.1	47.7
	*Cooling (Rated)	kW	156.8	162.4	168.0
Capacity	cooling (Nated)				
		Btu/h	535,000	554,100	573,200
		RT	38.7	39.2	39.6
	**Cooling (Rated)	kW	136.3	137.9	139.5
		Btu/h	465,100	470,500	476,000
		RT	50.0	51.8	53.6
	Heating (Rated)	kW	176.0	182.3	188.6
		Btu/h	600,500	622,000	643,500
	*Cooling (Rated)	kW	36.80	38.64	40.48
Input	**Cooling (Rated)	kW	44.69	45.64	46.59
	Heating (Rated)	kW	42.40	44.42	46.44
	*Cooling (Rated)	kW	4.26	4.20	4.15
COP	**Cooling (Rated)	kW	3.05	3.02	2.99
0		kW	4.15	4.10	4.06
Douver Factor	Heating (Rated)	-	0.93	0.93	0.93
Power Factor	Rated	-			
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchange	er		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 5	62.1 x 5	62.1 x 5
	Number of Revolution	n rev/min	3,600 x 5	3,600 × 5	3,600 x 5
Compressor	Motor Output x Number	W x No.	5,300 x 5	5,300 x 5	5,300 x 5
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 x 6
		m³/min	320 x 3	320 x 3	320 x 3
Fan	Air Flow Rate(High)	ft³/min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressu	ure (Max. Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	ТОР	ТОР	ТОР
	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Pipe Connctions					. ,
connectoris	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Dimensions (W	/ x H x D)	mm	(1,240 x1,690 x 760) x 3	(1,240 ×1,690 × 760) × 3	(1,240 x 1,690 x 760) x 3
		inch	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x
Net Weight		kg	(274 × 2) + (220 × 1)	(274 × 2) + (220 × 1)	(274 × 2) + (220 × 1)
Net Weight		lbs	(604 × 2) + (485 × 1)	(604 × 2) + (485 × 1)	(604 × 2) + (485 × 1)
Sound	Cooling	dB(A)	66.3	67.4	68.3
Pressure Level	Heating	dB(A)	68.5	68.9	69.3
Sound Power	Cooling	dB(A)	90.0	90.0	90.0
Level	Heating	dB(A)	91.2	91.6	92.0
Communicatio		No. x mm ² (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
		- ka	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0
Refrigerant	Precharged Amount in factory				
		lbs	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
			3, 400, 60	3, 400, 60	3, 400, 60

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TROPICAL MODEL

ARUN620LTH5 / ARUN640LTH5 / ARUN660LTH5

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HP			62	64	66
	Combination Unit		ARUN620LTH5	ARUN640LTH5	ARUN660LTH5
Model Name	Independent Unit		ARUN220LTH5 ARUN200LTH5 ARUN200LTH5	ARUN220LTH5 ARUN220LTH5 ARUN200LTH5	ARUN220LTH5 ARUN220LTH5 ARUN220LTH5
			3	3	3
		RT	49.3	50.9	52.5
Capacity	*Cooling (Rated)	kW	173.6	179.2	184.8
		Btu/h	592,300	611,400	630,500
		RT	41.4	41.8	42.3
	**Cooling (Rated)	kW	145.6	147.2	148.8
		Btu/h	496,800	502,200	507,700
		RT	55.5	57.3	59.0
	Heating (Rated)	kW	195.3	201.6	207.9
		Btu/h	666,400	687,900	709,400
	*Cooling (Rated)	kW	40.84	42.68	44.52
Input	**Cooling (Rated)	kW	48.26	49.21	50.16
	Heating (Rated)	kW	48.58	50.60	52.62
	*Cooling (Rated)	kW	4.25	4.20	4.15
COP	**Cooling (Rated)	kW	3.02	2.99	2.97
	Heating (Rated)	kW	4.02	3.98	3.95
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchange	r		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 6	62.1 x 6	62.1 x 6
	Number of Revolution	rev/min	3,600 x 6	3,600 x 6	3,600 x 6
Compressor	Motor Output x Number	W x No.	5,300 × 6	5,300 × 6	5,300 x 6
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 × 6
_	Air Flow Rate(High)	m³/min	320 x 3	320 x 3	320 x 3
Fan	All Flow Rate(Flight)	ft³/min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressu	re (Max, Pa)	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Connctions	Gas Pipe	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)
Dimensions (W		mm	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3
	X11XD)	inch	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) >
Not Woight		kg	274 × 3	274 × 3	274 × 3
Net Weight		lbs	604 × 3	604 × 3	604 × 3
Sound	Cooling	dB(A)	67.8	68.6	69.3
Pressure Level	Heating	dB(A)	69.6	70.0	70.3
Sound Power	Cooling	dB(A)	90.8	90.8	90.8
Level	Heating	dB(A)	92.1	92.5	92.8
Communicatior	n Cable	No. x mm ² (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
Define	Precharged Amount in	kg	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0
Refrigerant	factory	lbs	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50 3, 400, 60	3, 380 ~ 415, 50	3, 380 ~ 415, 50

NOTE

- 1. Capacities are based on the following conditions (ISO 15042) Cooling Temperature :
 - *Cooling (T1): Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F)
 - **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB
- Heating Temperature :
- Indoor 20°C(68°F) DB / 15°C(59°F) WB
- Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
- Piping Length : Interconnected Pipe Length = 7.5m
- Height difference between outdoor unit and indoor unit : Om
- 2. The Maximum combination ratio is 130%.
- 3. 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.
- 4. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- 5. Power factor could vary less than ±1% according to the operating conditions.

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



Suitable for residences and small offices



Customer Benefits

- Energy saving

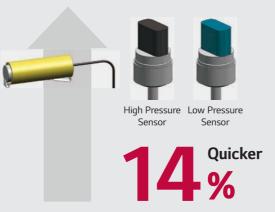
- High reliability

- Improved user convenience



CONVENIENT PIPE DIRECTION DESIGN Free Design & Installation Way Piping LG Sufficient pipes length limitation in Design and Installation of immense variety of building. SMART CONTROL Accurate and Easy Control

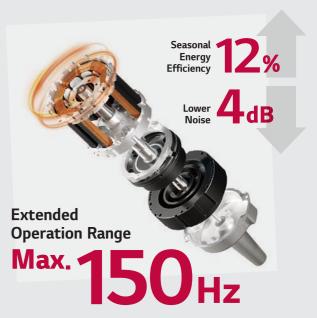
Temperature + Pressure Control



Pressure Control applied for smart, quick, and precise responds of temperature that user requests.



High-Efficiency & Reliability



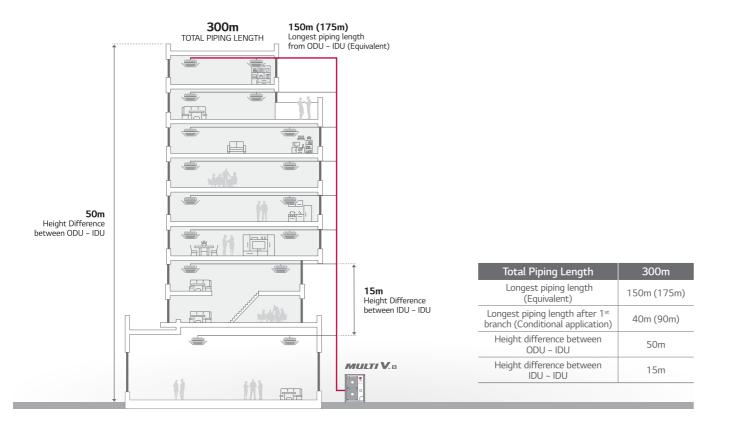
Revolutionary Scroll Compressor is applied for high-efficiency and reliability. This type of compressor is more advanced compared to the conventional one.



(Size 40%↓, Weight 25%↓)

With biomimetic fan design newly developed fan blows higher air volume also operating noise is decreased. This technology enables a highly efficient compact model.

Piping Length



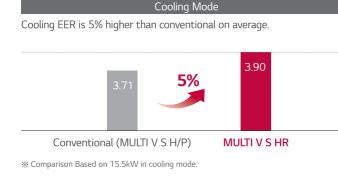
EER / COP / Part load

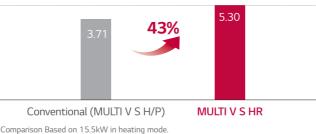
Saving Energy Cost with High Efficient Product

Heat Pump



Heat Recovery





Heating Mode



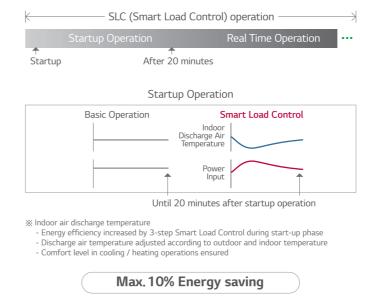


* Comparison Based on 15.5kW in heating mode

Smart Load Control Applied

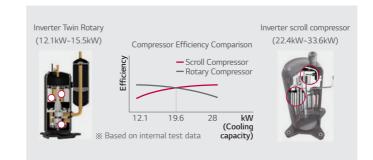
Increase comfortable sensation and Max. 23% energy saving thanks to MULTI V load control

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



Inverter Twin Rotary & Inverter Scroll Compressor

Adapted High Efficient Compressor according to Capacity



Inverter Twin Rotary

Concentrated Winding Motor

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



Twin Rotary Rotor

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

Surface Coating

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



OUTDOOR UNITS

052 | 053



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.
- * ESEER(European seasonal energy efficiency Ratio) conditions based on 15.5kw unit Outdoor temperature condition EER 100% / 75% / 50% / 25% = 35°C(DB) / 30°C(DB) / 25°C(DB) / 20°C(DB)
- Indoor temperature condition : 27°C(DB) / 19°C(WB) * Dual sensing (Temparature & humidity) smart load control is possible with Remote
- controller PTEMTB100 (White) /PREMTBB10 (Black)

Inverter Scroll Compressor

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

6 By-pass Valve

Compressor reliability is maximized with

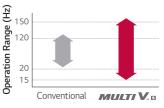
- 6 By-pass Valve
- Prevent compressor damage due to excessively compressed refrigerant more fficiently than 4 by-pass valve

Direct Oil Injection

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

Scroll Profile

- The enhanced reliability by increasing the thickness of scroll central part within largest pressure
- Efficiency increases by expanding 96% bypass area and 17% improved volume ratio by non uniform scroll thickness



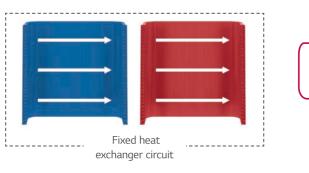
Variable refrigerant temperature

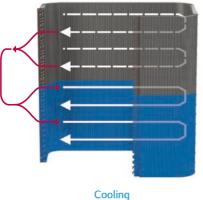


Optimal Heat Exchanger

Maximize Efficiency according to different Heat Exchanger path by cooling and heating (LG's own technology)

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

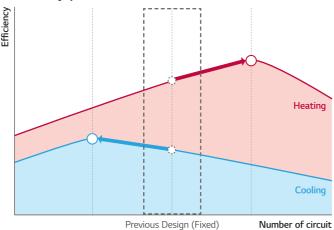




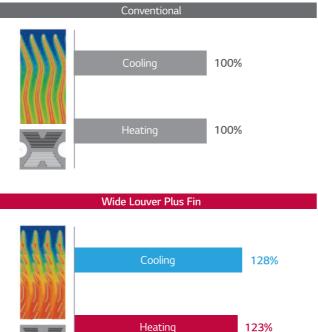


Heating

Efficiency performance



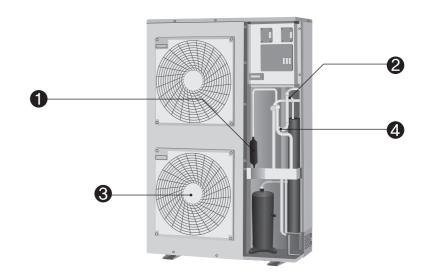
Efficiency up due to Fin shape



High Reliability of Refrigerant Components

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

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



Cyclonic Oil Separator

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



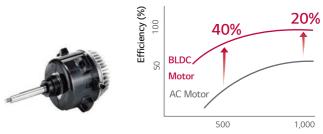
Large Volume Accumulator

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

Accumulator

BLDC Fan Motor

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



Motor Speed (RPM)

Ouble Sub-cool Interchanger

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

* Based on equivalent pipe length.



Double Sub-cool Interchanger

Smart Control

Pressure Control applied for smart, quick, and precise responds of temperature that user requests

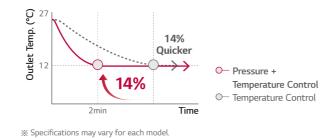
Temperature + Pressure Control

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



Quick Operating Response

Pressure control takes up to 14% less time in cooling mode, to reach the desired temperature. The indoor environment can be controlled more accurately and more comfortable.



Heat Exchanger with Black Fin for Corrosion Resistance

Strong Durability against high salinity and heavily polluted air

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



Corrosion Resistance Proven by Certified Tests

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

Condition of salt spray test

Certified protection



condition of sale spray t						
Temperat	ure	35°C				
Mist	of 5% sodium chloride s	olution				
Condition of gas exposu	re test					
R.H.	NO ₂	SO ₂				
95%	10 x 10 ⁻⁵	5 x 10 ⁻⁶				

Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories. 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.



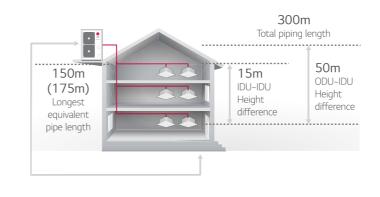
Hydrophilic film (Water flow) The Hydrophilic coating minimizes moisture buildup on the fin. Epoxy resin (Corrosion resistant) The Black coating provides strong protection from corrosion. Aluminum fin

Sufficient Pipe Length Limit

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

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

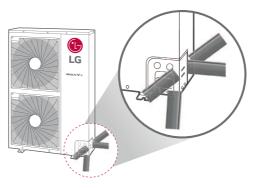
Piping Capabilities



4 Way Piping

Free design and installation by 4 way piping

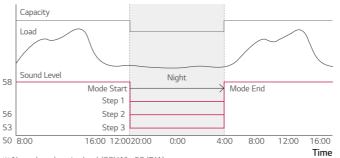
At night mode, noise reduced maximum 14% compared to normal mode.



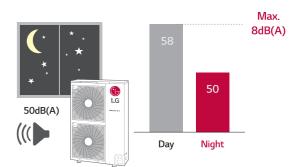
Low Noise Operation

Free from noise at any time with low noise operation function

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



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

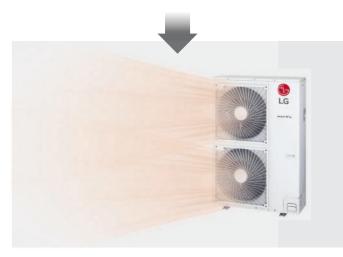


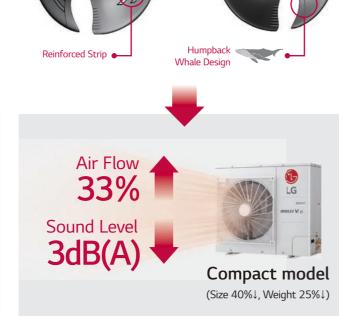
Biomimetic Fan

With biomimetic fan design, newly developed fan blows higher air volume, also operating noise is decreased. This technology enables a highly efficient compact model.

General fan design

• Sound pressure level 53.1dB(A) (110CMM / 2 fan) • Max. Air flow up to 60 CMM (800RPM / 124W Motor x 1EA)





New

• Max. Air flow up to 86CMM* (1,000RPM / 200W Motor x 1EA)

Clam Shell

• Sound pressure level 49.6dB(A) (110CMM / 2 fan)

* The value is based on 5,6HP model.

Biomimetic fan design

Fan Technology and RPM Control

External static pressure control for outdoor unit fan to adapt more flexibly to various installation conditions of outdoor units For efficient operation, newly developed fan blows higher air volume and has more high static pressure, also operating noise is

decreased.

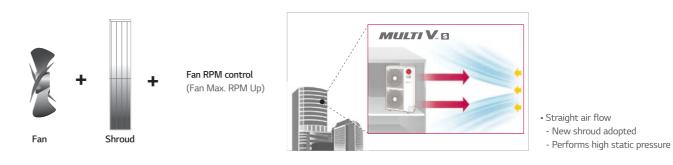
Fan Technology

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



Fan RPM Control

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



Upgraded Fault Detection and Diagnosis

Easy and convenient maintenance with self-diagnosis

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

- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up

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



(3Ø) 10 / 12HP Super canon fan



Grooved suction surface

Tip vortex suppressor



OUTDOOR UNITS SPECIFICATION



Non TROPICAL MODEL

HEAT PUMP

ARUN040GSS0 / ARUN050GSL0



Non	TROPICAL MODEL

HEAT PUMP

ARUN050GSS0 / ARUN060GSS0



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

HP			5	6
Model Name	Combination Unit		ARUN050GSS0	ARUN060GSS0
	Cooling	kW	14.0	15.5
Capacity (Rated)	Heating	kW	16.0	18.0
Input (Rated)	Cooling	kW	3.33	3.97
input (Rated)	Heating	kW	2.77	3.40
EER			4.20	3.90
СОР			5.77	5.30
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
C	Piston Displacement	cm ³ /rev	44.2	44.2
Compressor	Motor Output	W	4,000	4,000
	Starting Method		DC Inverter Starting	DC Inverter Starting
	Туре		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 2	124 x 2
Fan	Air Elaus Data (Lijah)	m³/min	110	110
	Air Flow Rate (High)	ft³/min	3,885	3,885
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
D: C	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x [))	mm	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	94	94
	Cooling	dB(A)	51	52
Sound Pressure Level	Heating	dB(A)	53	54
	Cooling	dB(A)	72	72
Sound Power Level	Heating	dB(A)	76	77
Communication Cable		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name		R410A	R410A
	Durahaward American	kg	3.0	3.0
Defricance	Precharged Amount	lbs	6.6	6.6
Refrigerant	GWP		2,087.5	2,087.5
	t-CO ₂ eq		6.3	6.3
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Compressor Oil	Туре		FVC68D (PVE)	FVC68D (PVE)
Compressor Oil	Charge	сс	1,300	1,300
Deven Comela		a vul-	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Number of Maxmum (Connectable Indoor Units		10	13

Model Name	Combination Unit		ARUN040GSS0	ARUN050GSL0
(Composition (Dontro d))	Cooling	kW	12.1	14.0
Capacity (Rated)	Heating	kW	12.5	15.0
land the design of the design	Cooling	kW	3.78	4.38
Input (Rated)	Heating	kW	2.10	2.65
EER			3.20	3.20
COP			5.94	5.66
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
Compressor	Piston Displacement	cm ³ /rev	44.2	44
Compressor	Motor Output	W	4,000	4,000
	Starting Method		DC Inverter Starting	DC Inverter Starting
	Туре		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 1	124 x 1
Fan	Air Flow Rate (High)	m³/min	60	60
Fan	Air Flow Rate (High)	ft³/min	2,119	2,119
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Dine Coursettiens	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
Dimensions (W x H x D))	mm	950 x 834 x 330	950 x 834 x 330
Net Weight		kg	70	73
Sound Pressure Level	Cooling	dB(A)	50	52
Sound Pressure Level	Heating	dB(A)	52	58
Sound Power Level	Cooling	dB(A)	72	72
Sound Power Level	Heating	dB(A)	75	75
Communication Cable		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name		R410A	R410A
	Precharged Amount	kg	1.8	2.4
Refrigerant	Precharged Amount	lbs	4.0	5.3
Reingerant	GWP		2,087.5	2,087.5
	t-CO ₂ eq		3.8	5.0
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Compressor Oil	Туре		FVC68D (PVE)	FVC68D (PVE)
Compressor Oil	Charge	СС	1,300	1,300
Douver Supply		(1) / I =	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Number of Maxmum C	onnectable Indoor Units		10	10

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.
- Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
 Performances are based on the following conditions :

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

 The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%)
 Wiring cable size must comply with the applicable local and national codes.
 Due to our policy of innovation some specifications may be changed without notification.
 Sound Level Values are measured at Anechoic chamber. 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)

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

2. Performances are based on the following conditions : - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB

- Heating temperature : Indoor 20°C(48°F) UB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) UB / 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 Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)



Non TROPICAL MODEL

HEAT PUMP

ARUN040LSS0 / ARUN050LSS0 / ARUN060LSS0



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

HP			4	5	6
Model Name	Combination Unit		ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
	Cooling	kW	12.1	14.0	15.5
Capacity (Rated)	Heating	kW	12.5	16.0	18.0
	Cooling	kW	2.37	3.33	3.97
Input (Rated)	Heating	kW	1.93	2.77	3.40
EER			5.10	4.20	3.90
COP			6.49	5.77	5.30
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
C	Piston Displacement	cm ³ /rev	44.2	44.2	44.2
Compressor	Motor Output	W	4,000	4,000	4,000
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 2	124 x 2	124 x 2
F ==	Air Flass Data (Liah)	m³/min	110	110	110
Fan	Air Flow Rate (High)	ft³/min	3,885	3,885	3,885
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe Connections	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x [))	mm	950 x 1,380 x 330	950 x 1,380 x 330	950 x 1,380 x 330
Net Weight		kg	96	96	96
Sound Pressure Level	Cooling	dB(A)	50	51	52
Sound Pressure Level	Heating	dB(A)	52	53	54
Sound Power Level	Cooling	dB(A)	72	72	72
Sound Power Level	Heating	dB(A)	76	76	77
Communication Cable		No. x mm ² (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
	Precharged Amount	kg	3.0	3.0	3.0
Defrigerant		lbs	6.6	6.6	6.6
Refrigerant	GWP		2,087.5	2,087.5	2,087.5
	t-CO ₂ eq		6.3	6.3	6.3
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Comprossor Oil	Туре		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Compressor Oil	Charge	сс	1,300	1,300	1,300
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Fower supply		⊎, v, ⊓z	3, 380, 60	3, 380, 60	3, 380, 60
Number of Maxmum C	onnectable Indoor Units		8	10	13

Non TROPICAL MODEL

HEAT PUMP

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0



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

PERFORMANCE	Check ongoing validity of ce : www.eurovent-certification	rtification .com			
HP			8	10	12
Model Name	Combination Unit		ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
	Cooling	kW	22.4	28.0	33.6
Capacity (Rated)	Heating	kW	24.5	30.6	36.7
. (5)	Cooling	kW	8.30	8.75	14.00
nput (Rated)	Heating	kW	6.60	8.12	7.46
EER			2.70	3.20	2.40
COP			3.71	3.77	4.92
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
^	Piston Displacement	cm ³ /rev	43.8	62.1	62.1
Compressor	Motor Output	W	4,200	5,300	5,300
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	124 x 2	250 x 2	250 x 2
_	Air Flow Rate (High)	m³/min	140	190	190
an		ft³/min	4,944	6,710	6,710
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
:	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Pipe Connections	Gas	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1 1/8)
Dimensions (W x H x D))	mm	950 x 1,380 x 330	1,090 x 1,625 x 380	1,090 x 1,625 x 380
Net Weight		kg	115	144	157
	Cooling	dB(A)	57	58	60
Sound Pressure Level	Heating	dB(A)	57	58	60
	Cooling	dB(A)	81	80	81
Sound Power Level	Heating	dB(A)	84	84	85
Communication Cable		No. x mm ² (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
	Precharged Amount	kg	3.5	4.5	6.0
	Prechargeu Amount	lbs	7.7	9.9	13.2
Refrigerant	GWP		2,087.5	2,087.5	2,087.5
	t-CO ₂ eq		7.3	9.4	12.5
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Compressor Oil	Туре		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
Compressor Oil	Charge	сс	2,400	2,600	3,400
Douvor Cupplu		(A) / 11=	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60
Number of Maxmum C	onnectable Indoor Units		13	16	20

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification regulation for more detail test conditions.

- Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
- 2. Performances are based on the following conditions : Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
- 3. The maximum combination ratio is 160% (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.
- 6. Sound Level Values are measured at Anechoic chamber. 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)

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

2. Performances are based on the following conditions : - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB 3. The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%)

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 Level Values are measured at Anechoic chamber. 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)



OUTDOOR UNITS SPECIFICATION



Non TROPICAL MODEL

HEAT RECOVERY

ARUB060GSS4





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

НР				6	
Model				ARUB060GSS4	
Canadity (Dated)	Cooling	Nom	kW	15.5	
Capacity (Rated)	Heating	Nom	kW	18.0	
Power Input (Rated)	Cooling	Nom	kW	3.97	
Power Input (Rated)	Heating	Nom	kW	4.10	
EER				3.90	
СОР				4.39	
ESEER				7.15	
SLC ESEER				8.05	
	Туре			Hermetically Sealed Scroll	
C	Piston Displacement		cm ³ /rev	43.8	
Compressor	Motor Output		W	4,200	
	Starting Method			DC Inverter Starting	
	Туре			Axial Flow Fan	
	Motor Output x Number		W	124 x 2	
Fee.	· · · · · · · · · · · · · · · · · · ·		m³/min	110	
Fan	Air Flow Rate (High)		ft³/min	3,885	
	Drive			DC INVERTER	
	Discharge		Side / Top	Side	
	Liquid		mm (inch)	Ø9.52 (3/8)	
Pipe Connections	Low Pressure Gas		mm (inch)	Ø19.05 (3/4)	
	High Pressure Gas		mm (inch)	Ø15.88 (5/8)	
Dimensions (W x H x D)			mm	950 x 1,380 x 330	
Net Weight			kg	118	
Sound Pressure Level	Cooling		dB(A)	56	
Sound Pressure Level	Heating		dB(A)	58	
Sound Power Level	Cooling		dB(A)	69	
Sound Power Level	Heating		dB(A)	71	
Communication Cable			No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	
	Refrigerant Name			R410A	
Refrigerant	Precharged Amount		kg	3.5	
	t-CO ₂ eq			7.3	
	Control			Electronic Expansion Valve	
Compressor Oil	Туре			FVC68D (PVE)	
			<i>a</i>	1, 220 ~ 240, 50	
Power Supply			Ø, V, Hz	1, 220, 60	
Number of Maxmum Conn	ectable Indoor Units			13	

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
Performances are based on the following conditions:

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

The maximum combination ratio is 160% (the maximum combination ratio of ARUN050GSL0 is 130%)
Wiring cable size must comply with the applicable local and national codes.
Due to our policy of innovation some specifications may be changed without notification.
Sound Level Values are measured at Anechoic chamber. 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)

TROPICAL MODEL

HEAT PUMP

ARUN040LSH5 / ARUN050LSH5 /ARUN060LSH0

HP			4	5	6
Model Name	Independent Unit		ARUN040LSH5	ARUN050LSH5	ARUN060LSH0
		RT	3.2	4.0	4.4
	*Cooling - T1 35°C	kW	11.2	14.0	15.5
		Btu/h	38,200	47,800	52,900
		RT	2.7	3.4	3.8
Capacity (Rated)	**Cooling - T3 46°C	kW	9.5	11.9	13.2
		Btu/h	32,400	40,600	45,000
	Heating	RT	3.6	4.5	5.1
		kW	12.5	16.0	18.0
		Btu/h	42,700	54,600	61,400
	*Cooling - T1 35°C kW		2.60	3.38	3.96
Input (Rated)	**Cooling - T3 46°C	kW	2.80	3.66	4.26
	Heating	kW	2.75	3.52	4.09
	*Cooling - T1 35°C	kW / kW	4.31	4.14	3.91
COP	**Cooling - T3 46°C kW / kW		3.40	3.25	3.10
	Heating kW / kW		4.55	4.55	4.40
Power Factor	Rated	-	0.93	0.93	0.93
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
i loue Esteriariger	Туре		LG Inverter Scroll	LG Inverter Scroll	DC Inverter Rotary
	Piston Displacement cm ² /rev		31.6	31.6	44.2
	Number of Revolution	rev/min	3.600	3,600	3,600
Compressor	Motor Output x Number		3,198 x 1	3,198 x 1	4,000 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting	Inverter
	Oil Type		FW68D	FW68D	FVC68D (PVE)
	Туре		Axial Flow Fan	Axial Flow Fan	Propeller fan
	Motor Output x Number W		200 x 1	200 x 1	124 x 2
		m³/min	80	80	110
Fan	Air Flow Rate (High)	ft³/min	2.824	2,824	3,885
	Drive		DC Inverter	DC Inverter	DC Inverter
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø 19.05 (3/4)
	Uds		950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330
Dimensions (W x H x	D)	mm inch	37-13/32 x 32-27/32 x 13		37-13/32 x 54-11/32 x 13
				-27/32 x 13 37-13/32 x 32-27/32 x 13 37- 72	
Net Weight		kg	72	159	96
	Cooling	lbs dB(A)			212
Sound Press Level	Cooling	dB(A)	50	51	52.0
Council Doug 1	Heating	dB(A)	52	53	54.0
Sound Power Level		dB(A)	70~74	70~74	67
Communication Cable		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount	kg	2.4	2.4	3.0
		lbs	5.3	5.3	6.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
		, .,	3, 400, 60	3, 400, 60	3, 400, 60

- Height difference between outdoor unit and indoor unit 10m
2. The Maximum combination ratio is 130%.
3. 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.
4. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
5. Power factor could vary less than ±1% according to the operating conditions.
6. Due to our policy of innovation some specifications may be changed without notification.



Note : 1. Capacities are based on the following conditions (ISO 15042) - Cooling Temperature : *Cooling (T1) : Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB / Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB / Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB - Piping Length : Interconnected Pipe Length = 7.5m - Height difference between outdoor unit and indoor unit : 0m 2 The Maximum combinetion patient and 120%

OUTDOOR UNITS SPECIFICATION



TROPICAL MODEL

HEAT PUMP

ARUN080LSH0 / ARUN100LSH0

НР			8	10
Model Name	Independent Unit		ARUN080LSH0	ARUN100LSH0
		RT	6.4	8.0
	*Cooling - T1 35°C	kW	22.4	28.0
	5	Btu/h	76,400	95,900
		RT	5.4	7.1
Capacity (Rated)	**Cooling - T3 46°C	kW	19.0	25.0
oupacity (nation)	econing to to e	Btu/h	64,900	85,300
		RT	7.2	9.0
	Heating	kW	25.2	31.5
	ricuting	Btu/h	86,000	107,500
	*Cooling - T1 35°C	kW	5.60	7.09
Input (Rated)	**Cooling - T3 46°C	kW	5.94	7.94
input (Nateu)	Heating	kW	5.86	7.41
	*Cooling - T1 35°C	kW / kW	4.00	3.95
COD				
COP	**Cooling - T3 46°C	kW / kW	3.20	3.15
	Heating	kW / kW	4.30	4.25
Power Factor	Rated	-	0.93	0.93
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ² /rev	62.1	62.1
Compressor	Number of Revolution	rev/min	3,600	3,600
- compressor	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1
	Starting Method		Inverter	Inverter
	Oil Type		FVC68D (PVE)	FVC68D (PVE)
	Туре		Propeller fan	Propeller fan
	Motor Output x Number	W	250 x 2	251 x 2
	Air Flow Data (Liab)	m³/min	190	190
Fan	Air Flow Rate (High)	ft³/min	6,707	6,707
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Piping Connections	Gas	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
Dimensions (W x H x D)		mm	(1,090 x 1,625 x 380)	(1,090 x 1,625 x 380)
		inch	42-29/32 x 63-31/32 x 14-31/32	42-29/32 x 63-31/32 x 14-31/32
Net Weight		kg	144	144
		lbs	317	317
Sound Press Level	Cooling	dB(A)	57.0	58.0
	Heating	dB(A)	57.0	58.0
		dB(A)	68	69
Communication Cable	e	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name	(((((((((((((((((((((((((((((((((((((((R410A	R410A
		kg	4.5	4.5
	Precharged Amount	lbs	9.9	9.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve
	Control		3, 380 ~ 415, 50	
Power Supply		Ø, V, Hz		3, 380 ~ 415, 50
			3, 400, 60	3, 400, 60

Note : 1. Capacities are based on the following conditions (ISO 15042) - Cooling Temperature : *Cooling (T1) : Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB / Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB / Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB - Piping Length : Interconnected Pipe Length = 7.5m - Height difference between outdoor unit and indoor unit : 0m 2 The Maximum combination patie in 200/

2. The Maximum combination ratio is 130%.

Number of Maxmum Connectable Indoor Units

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.

13

16

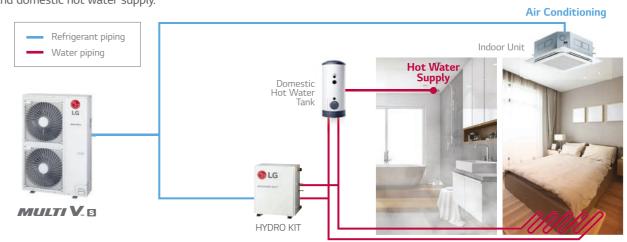
Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
 Power factor could vary less than ±1% according to the operating conditions.
 Due to our policy of innovation some specifications may be changed without notification.

OUTDOOR UNITS FEATURE

MULTI V S APPLICATION GUIDE

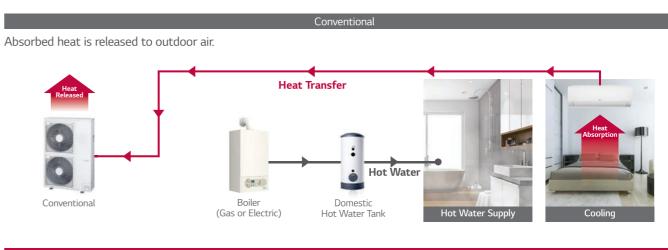
System Diagram

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



Energy Saving

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



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



Floor Heating

MULTI V S with HYDRO KIT



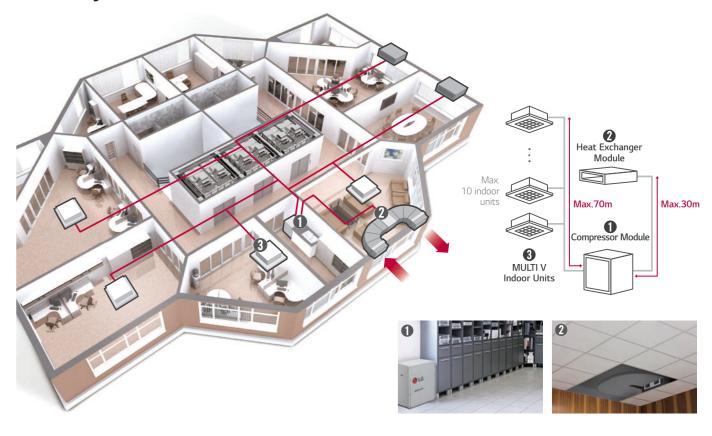
- Flexible design & installation

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

OUTDOOR UNITS FEATURE

MULTI V MODULAR

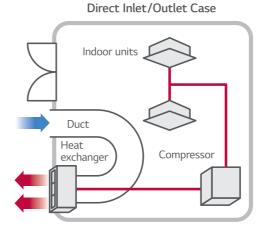
Bird's-Eye View



High Flexibility of Installation

Outdoor unit split by compressor and heat exchanger module

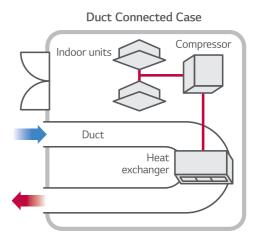
Split unit can make installation much more flexible. Compressor module can be installed at any place inside such as storage room, or in a kitchen. Heat exchanger module can be installed in a false ceiling spaces in both case of direct inlet/outlet and ducted inlet / outlet. Higher maximum external static pressure can make Installation more flexible.



Lighter & smaller units can make installation much more easier

Ease and flexibility of installation Ease and flexibility of installation thanks to the high static pressure available and adjustable and the reduced weight.





Make the most of your local space thanks to its small size.

Regulatory compliance

Regulatory compliance thanks to the 3,600 CMM of exhausted air.

MULTI V MODULAR

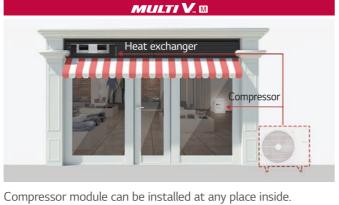
Increased Freedom of Design

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



Heat exchanger module can be installed in false ceiling spaces.







0.826 m

0.603

0.494 m

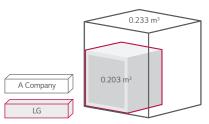
Volume (Heat Exchanger Module)

A Company

B Company

Space Saving & Convenient Installation

Volume (Compressor Module)

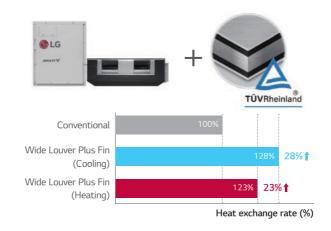


E.S.P. (External Static Pressure) Control



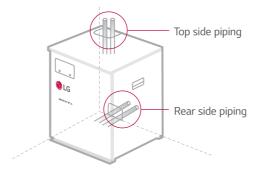
Wide Louver Plus Fin + Corrosion Resistance

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



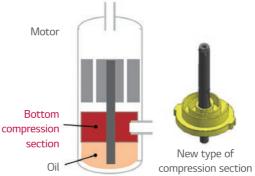
Flexible Piping Location

Neat & easy installation by flexible piping location piping.



New Type Scroll

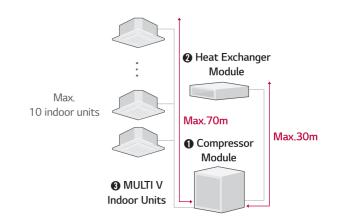
MULTI V M ensures world's best class energy efficiency with innovative technology including the LG's New Type Scroll compressor.



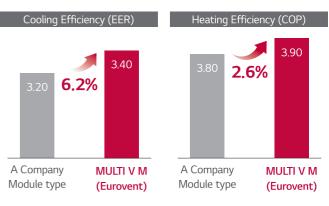
Module Type

Increased freedom of design

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

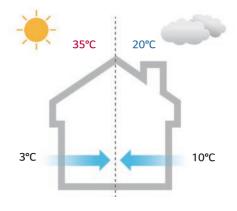


Flexible Piping Location



Smart Load Control

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



MULTI V MODULAR

ARUN050LMC0

LG

% Below spec can be revised until PDB distributed.

			Compressor Module
НР			5
Model Name	Independent Unit		ARUN050LMC0
	- h /- h	kW	14.0
	Cooling (Rated)	kcal/h	12,000
Capacity		kW	14.0 / 16.0
	Heating (Rated / Max.)	kcal/h	12,000 / 13,800
	Cooling (Rated)	kW	4.12
Input (Rated)	Heating (Rated / Max.)	kW	3.59 / 4.32
EER (Based on Rated capa	-		3.40
COP (Based on Rated capa			3.90
COP (Based on Max. capac			3.70
Power Factor	Rated	-	0.93
Casing Color			Morning Gray
Heat Exchanger			-
	Туре		Hermetic Motor Compressor
	Piston Displacement	cm ³ /rev	31.6
	Number of Revolution	rev/min	3,600
Compressor	Motor Output	W	3,200
Compressor	Starting Method		DC Inverter Starting
	Oil Type		FVC68D (PVE)
	Oil Charge		1,000
	Type		-
	Motor Output x Number	W	-
	Air Flow Rate (High)	m³/min	-
Fan		ft³/min	
	Drive	10,711111	
	Discharge	Side / Top	-
	Nominal (Rated, Factory Set)	mmAq (Pa)	
External Static Pressure	Max.	mmAq (Pa)	-
Pipe Connections	Liquid / Gas	mm (inch)	Ø9.52 (3/8) - IDU / Ø15.88 (5/8) - IDU
		mm	580 x 700 x 500
Dimensions (W x H x D)		inch	22-27/32 x 27-9/16 x 19-11/16
		kg	69
Net Weight		lbs	152
Sound Pressure Level	Cooling / Heating	dB(A)	45/45
	High Pressure Protection	-	High pressure sensor
Protection Devices	Compressor / Fan	-	Over-heat protection
Trotection Devices	Inverter	-	Over-heat protection / Over-current protection
Communication Cable		No. x mm ² (VCTF)	2C x 1.0 ~ 1.5
Communication Cable	Refrigerant Name	NO. A MILL (VCIF)	R410A
		kg	2.0
Refrigerant	Precharged Amount	lbs	4.4
Nenngerant	t-CO ₂ eq	ius	4.4
			4.2
Dowor Supply	Control	Ø, V, Hz	3, 380 - 415, 50
Power Supply	aastabla Indoor Unita	ю, V, ПZ	
Number of Maximum Conr	lectable indoor Units		10

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification programme for more detail test conditions.

- Refer to EUROVENT certification programme 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
 Heat Exchanger Module Compressor Module = 5m
 Compressor Module Indoor Unit = 7.5m

- Compressor Module Indoor Unit = 7.5m
 3. The maximum combination ratio is 130%.
 4. Wiring cable size must comply with the applicable local and national codes.
 5. Due to our policy of innovation some specifications may be changed without notification.
 6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
 7. Power factor could vary less than ±1% according to the operating conditions.
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP (Global warming potential) = 2087.5)

ARUN050GME0

% Below spec can be revised until PDB distributed.

			Heat Exchanger Module
НР			5
Model Name	Independent Unit		ARUNOSOGMEO
Noder Nume		kW	-
	Cooling (Rated)	kcal/h	
Capacity		kW	-/-
	Heating (Rated / Max.)		
		kcal/h	-/-
Input (Rated)	Cooling (Rated)	kW	-
	Heating (Rated / Max.)	kW	- / -
EER (Based on Rated capa	-		-
COP (Based on Rated capa			-
COP (Based on Max. capac	ity)		· ·
Power Factor	Rated	-	-
Casing Color			Galvanized Steel Plate
Heat Exchanger			Wide Louver Plus
	Туре		-
	Piston Displacement	cm ³ /rev	-
	Number of Revolution	rev/min	
Compressor	Motor Output	W	
,	Starting Method		-
	Oil Type		
	Oil Charge		
	Type		Sirocco Fan
	Motor Output x Number	W	400 x 2
	Motor Output x Number	m³/min	60
Fan	Air Flow Rate (High)		
	Drive	ft³/min	2,119
	Drive		Direct
	Discharge	Side / Top	Side
External Static Pressure	Nominal (Rated, Factory Set)		3 (29)
	Max.	mmAq (Pa)	16 (157)
Pipe Connections	Liquid / Gas	mm (inch)	Ø12.7 (1/2) - Comp. Module / Ø19.05 (3/4) - Comp. Module
Dimensions (W x H x D)		mm	1,562 x 460 x 688
		inch	61-1/2 x 18-1/8 x 27-3/32
Net Weight		kg	84
Net Weight		lbs	185
Sound Pressure Level	Cooling / Heating	dB(A)	45 / 45
	High Pressure Protection	-	
Protection Devices	Compressor / Fan	-	Fan driver overload protector
	Inverter	-	-
Communication Cable		No. x mm ² (VCTF)	2C x 1.0 ~ 1.5
	Refrigerant Name		-
		kg	-
Refrigerant	Precharged Amount	lbs	
	t-CO ₂ eq		
	Control		Electronic Expansion Valve
Dowor Supply	Control		
Power Supply	nectable Indoor Units	Ø, V, Hz	1, 220 ~ 240, 50

Note : 1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct. - Refer to EUROVENT certification programme for more detail test conditions.

- Refer to EUROVENT certification programme 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 / 19°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
 Heat Exchanger Module Compressor Module = 5m
 Compressor Module Indoor Unit = 7.5m

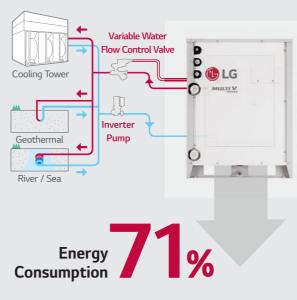
- Compressor Module Indoor Unit = 7.5m
 3. The maximum combination ratio is 130%.
 4. Wiring cable size must comply with the applicable local and national codes.
 5. Due to our policy of innovation some specifications may be changed without notification.
 6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
 7. Power factor could vary less than ±1% according to the operating conditions.
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP (Global warming potential) = 2087.5)





VARIABLE WATER FLOW CONTROL

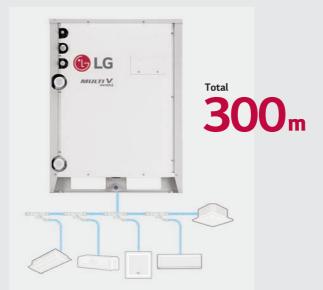
Buildings Made Eco-Friendly



LG applied Variable Water Flow Control to optimize water flow control regarding partial cooling or heating load conditions.

LONGEST PIPING LENGTH

Design and Installation of Immense Variety of Building

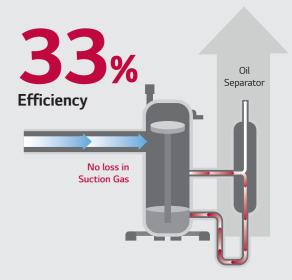


Provide flexible installation up to 300m of total piping length. As water pipes are not connected to indoor units, users are free from water leakage problems.

- Replacement of Chiller-FCU system



Maximizes Reliability and Efficiency of the Compressor



HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe. This does not waist energy when oil flows between the separator and the compressor.

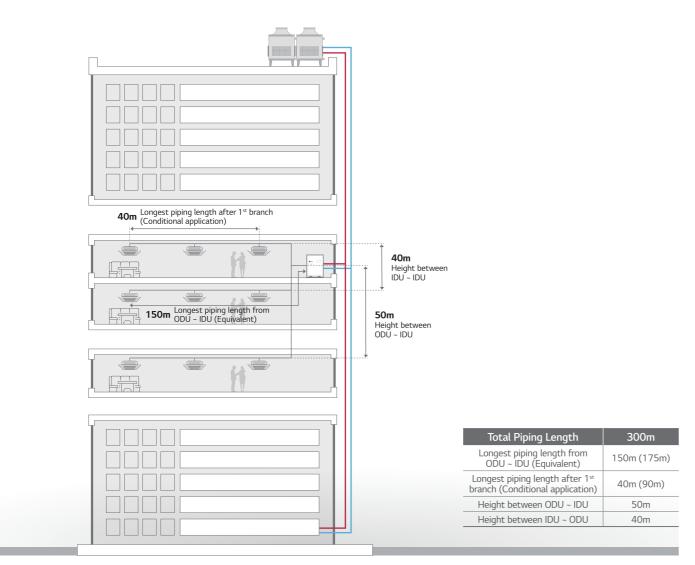
COMPACT SIZE & LIGHT WEIGHT

Easy and Unrestricted Installation with Reduced Size and Weight



LG applied Variable Water Flow Control to optimize water flow control regarding partial cooling or heating load conditions.

Piping Length



High Efficiency System Regardless of External Conditions

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

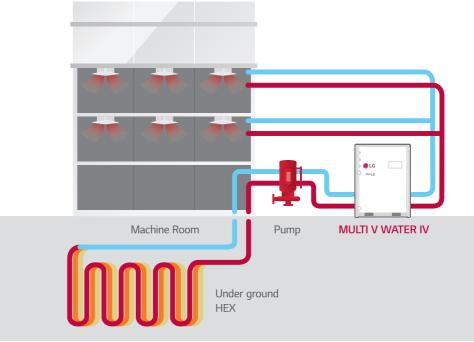


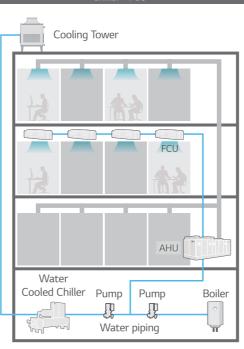
MULTI V WATER IV System for Geothermal Applications

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

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

% Please contact local LG office for application availability.

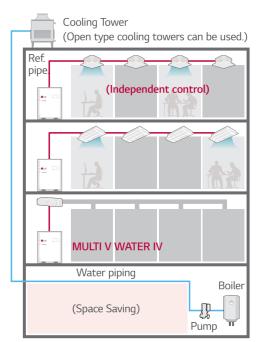




Chiller - FCI

Central control

MULTI V WATER I



Independent control

Economical, Highly Efficient System

LG's key technologies are integrated to inverter compressor

Adopting a water-based cooling method, this unit optimizes performance in comparison to compressor capacity. It also ensures heat exchange performance for high-rise buildings, thus allowing electrical-savings.



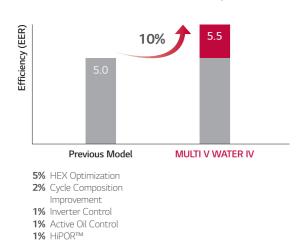
Maximum COP



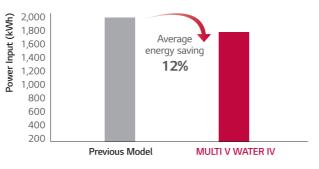
* Outdoor unit water inlet temperature : 7°C % Indoor temperature : 20°C DB / 15°C WB

* Maximum COP Condition : Cooling 40% + Heating 60% operation

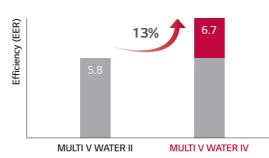
LG's 4th Generation Inverter Compressor



Economical, Highly Efficient System



Integrated Part Load Efficiency

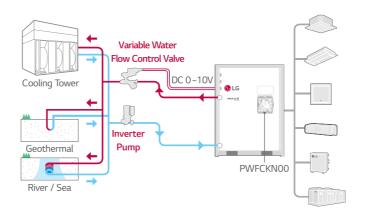


6% HEX Optimization 4% Cycle Composition Improvement 1% Inverter Control 1% Active Oil Control 1% HiPOR™

Variable Water Flow Control (Option)

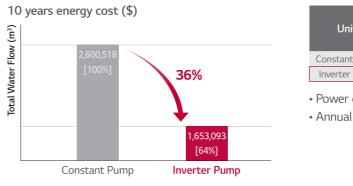
Supporting your buildings to become greener

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



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

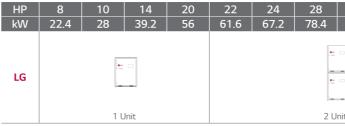
1) Inverter pump with MULTI V WATER and variable water flow control kit. 2) Constant pump (Step control) with Water cooled VRF.

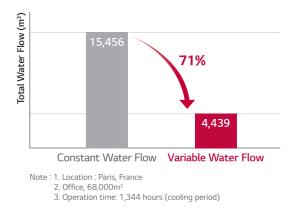


Largest Capacity

World's largest capacity makes it easy to apply to large building and large systems

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





	5 ye	ears	10 years		
nit Energy Use (kWh)		Pump Running Cost (\$)	Energy Use (kWh)	Pump Running Cost (\$)	
nt pump	7,952,040	1,142,441	15,904,080	2,600,518	
er pump	5,054,940	726,225	10,109,880	1,653,093	

• Power consumption rate : 0.13\$/kWh

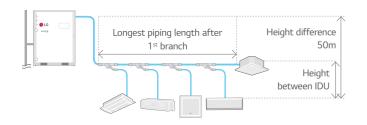
Annual power consumption rate expected to increase by 5%

30	34	40	42 ~ 60	62 ~ 80
84	95.2	112	117.6 ~ 168	173.6 ~ 224
nits			3 Units	4 Units

Longest Piping Length

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

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



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

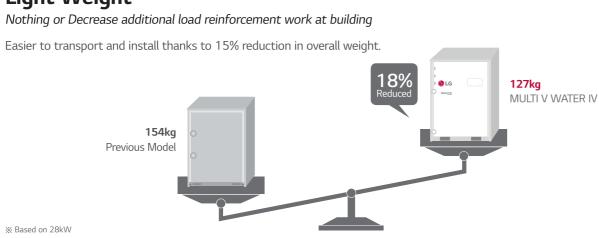
Compact Size

Significant uptake of construction space that can be used for commercial use or public space as much as possible

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



Light Weight



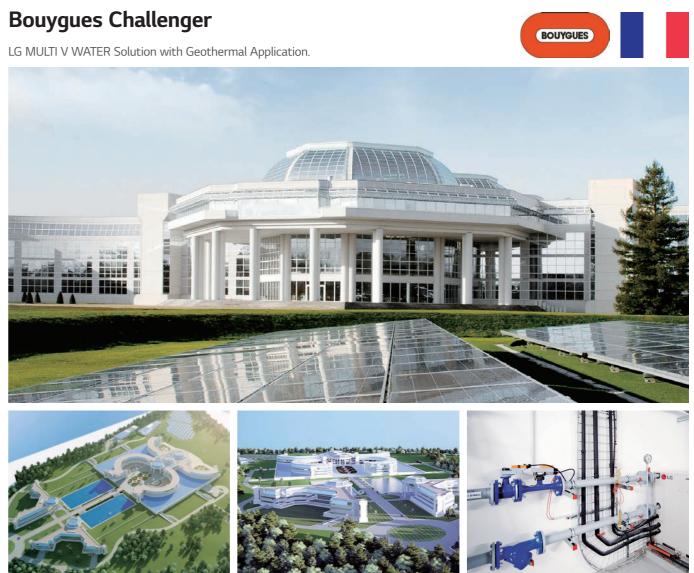
OUTDOOR UNITS

MULTI V WATER IV

Precaution of Installation

- 1. Do not install the unit at the outdoors. (Otherwise it may cause fire, electric shock and trouble.) Recommended ambient temperature of outdoor unit is between 0 ~ 40°C.
- 2. Keep the water temperature between 10 ~ 45°C. Other it may cause the breakdown. Standard water supply temperature is 30°C for Cooling and 20°C for heating.
- 3. Establish an **anti-freeze plan** for the water supply when the product is stopped during the winter.
- 4. Be careful of the water purity control. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control.)
- 5. The water pressure resistance of the water pipe system of this product is 1.98MPa.
- 6. Always install a trap so that the drained water does not back flush.
- 7. Install a pressure gauge and temperature gauge at the inlet and outlet of the water pipe.
- 8. Flexible joints must be installed not to cause any leakage from the vibration of pipes.
- 9. Install a service port to clean the heat exchanger at the each end of the water inlet and outlet.
- 10. It is recommended to install the **flow switch** to the water collection pipe system connecting to the outdoor unit. (Flow switch acts as the 1st protection device when the heat water is not supplied.)
- 11. When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product. (The minimum flow rate range of this product is **50%**.)
- 12. To protect the water cooling type product, you must install a strainer with 50 mesh or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.
 - 1) Heat water supply within the plate type heat exchanger is composed of multiple small paths.
 - 2) If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
 - 3) When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the refrigerant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
 - 4) And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
 - 5) As a result of the damage of the heat exchanger from the freezing, the refrigerant side and the heat water source side will be mixed to make the product unusable.

MULTI V WATER IV REFERENCE SITE





Site Information

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

LG Solution

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

HEAT PUMP

ARWN080LAS4 / ARWN100LAS4 / ARWN140LAS4 / ARWN200LAS4

HP			8	10	14	20
	Combination Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4	ARWN200LAS4
Model Name	Independent Unit		ARWN080LAS4	ARWN100LAS4	ARWN140LAS4	ARWN200LAS4
	Cooling	kW	22.4	28.0	39.2	56.0
Capacity	Heating	kW	25.2	31.5	44.1	63.0
	Cooling	kW	3.86	5.09	7.84	11.20
Input	Heating	kW	4.20	5.34	8.17	11.67
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray , Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Piston Displacement	cm ³ /rev	43.8	43.8	43.8	62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz			
	Motor Output	kW	4.2	4.2	4.2	5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss	kPa	10.7	15.8	28.6	30.1
	Rated Water Flow	LPM	77	96	135	192
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F
Refrigerant	Liquid Pipes	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
Connecting Pipes	Gas Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	25.4 (1)	28.58 (1-1/8)
	Inlet	mm	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)
Water Connecting Pipes	Outlet	mm	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 1			
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 1			
Net Weight		kg	127 x 1	127 x 1	127 x 1	140 x 1
Net Weight		lbs	280 x 1	280 x 1	280 x 1	309 x 1
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	5.8	5.8	5.8	3.0
	Control Device		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
rower supply		0, V, HZ	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Sound Pressure Level	Cooling	dB(A)	47	50	58	54
Sound Pressure Level	Heating	dB(A)	51	53	57	60
Sound Power Level	Cooling	dB(A)	59	62	70	66
Sound Power Level	Heating	dB(A)	63	65	69	72

ТΛ	DI	ιпл	D
	ΓL	ועוע	

ARWN220LAS4 / ARWN240LAS4 / ARWN280LAS4 / ARWN300LAS4

HP			22	24	28	30
	Combination Unit		ARWN220LAS4	ARWN240LAS4	ARWN280LAS4	ARWN300LAS4
Model Name	Independent Unit		ARWN080LAS4 ARWN140LAS4	ARWN100LAS4 ARWN140LAS4	ARWN140LAS4 ARWN140LAS4	ARWN200LAS4 ARWN100LAS4
Caracity	Cooling	kW	61.6	67.2	78.4	84.0
Capacity	Heating	kW	69.3	75.6	88.2	94.5
Innet	Cooling	kW	11.70	12.93	15.68	16.29
Input	Heating	kW	12.37	13.51	16.34	17.01
Casing Color			Warm Gray, Mornig Gray			
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Piston Displacement	cm ³ /rev	43.8 + 43.8	43.8 + 43.8	43.8 + 43.8	62.1 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz			
	Motor Output	kW	4.2+4.2	4.2 + 4.2	4.2 + 4.2	5.3 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss	kPa	28.6 + 10.7	28.6 + 15.8	28.6 + 28.6	30.1 + 15.8
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135	192 + 96
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F
Refrigerant	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connecting Pipes	Gas Pipes	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
	Inlet	mm	PT40 + PT40 (Internal)			
Water Connecting Pipes	Outlet	mm	PT40 + PT40 (Internal)			
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 2			
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 2			
Net Meiste		kg	127 x 2	127 x 2	127 x 2	(140 x 1) + (127 x 1)
Net Weight		lbs	280 x 2	280 x 2	280 x 2	(309 x 1) + (280 x 1)
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	5.8 + 5.8	5.8 + 5.8	5.8 + 5.8	3.0 + 5.8
	Control Device		EEV	EEV	EEV	EEV
D		~	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
C 10	Cooling	dB(A)	58	59	59	55
Sound Pressure Level	Heating	dB(A)	58	58	58	61
	Cooling	dB(A)	70	71	72	67
Sound Power Level	Heating	dB(A)	70	70	71	73

% This product contains Fluorinated Greenhouse Gases. (R410A)
 Note : 1. Capacities and Inputs are based on the following conditions.
 Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities.

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

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)



Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 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.)

HEAT PUMP

ARWN340LAS4 / ARWN400LAS4 / ARWN420LAS4 / ARWN440LAS4



HP			34	40	42	44
	Combination Unit		ARWN340LAS4	ARWN400LAS4	ARWN420LAS4	ARWN440LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4	ARWN200LAS4 ARWN140LAS4 ARWN080LAS4	ARWN200LAS4 ARWN140LAS4 ARWN100LAS4
Capacity	Cooling	kW	95.2	112.0	117.6	123.2
	Heating	kW	107.1	126.0	132.3	138.6
	Cooling	kW	19.04	22.40	22.90	24.13
Input	Heating	kW	19.84	23.34	24.04	25.18
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scro
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 43.8	62.1 + 62.1	62.1 + 43.8 + 43.8	62.1 + 43.8 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2 + 5.3	5.3 + 5.3	5.3 + 4.2 + 4.2	5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss	kPa	30.1 + 28.6	30.1 + 30.1	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8
	Rated Water Flow	LPM	192 + 135	192 + 192	192 + 135 + 77	192 + 135 + 96
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°
Refrigerant	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connecting Pipes	Gas Pipes	mm (inch)	34.9 (1-3/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
	Inlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)
Water Connecting Pipes	Outlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 2	(29-23/32 x 39-1/4 x 19-11/16) x 2	(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3
Net Weight		kg	(140 x 1) + (127 x 1)	140 x 2	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)
Net Weight		lbs	(309 x 1) + (280 x 1)	309 x 2	(309 x 1) + (280 X 2)	(309 x 1) + (280 X 2)
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 5.8	3.0 + 3.0	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8
	Control Device		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
		0, V, HZ	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Sound Pressure Level	Cooling	dB(A)	59	55	60	60
Sound Flessure Level	Heating	dB(A)	61	61	62	62
Sound Power Level	Cooling	dB(A)	72	68	72	72
Sound Power Level	Heating	dB(A)	74	74	74	74

HEAT PUMP

ARWN480LAS4 / ARWN500LAS4 / ARWN540LAS4 / ARWN600LAS4

HP			48	50	54	60
	Combination Unit		ARWN480LAS4	ARWN500LAS4	ARWN540LAS4	ARWN600LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	ARWN200DAS4 ARWN200DAS4 ARWN100DAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
a b	Cooling	kW	134.4	140.0	151.2	168.0
Capacity	Heating	kW	151.2	157.5	170.1	189.0
	Cooling	kW	26.88	27.49	30.24	33.60
Input	Heating	kW	28.01	28.68	31.51	35.01
Casing Color			Warm Gray, Mornig Gray			
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8	62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz			
	Motor Output	kW	5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2	5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss	kPa	30.1 + 28.6 + 28.6	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 135 + 135	192 + 192 + 96	192 + 192 + 135	192 + 192+ 192
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F
Refrigerant	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connecting Pipes	Gas Pipes	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
	Inlet	mm	PT40 + PT40 + PT40 (Internal)			
Water Connecting Pipes	Outlet	mm	PT40 + PT40 + PT40 (Internal)			
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 3			
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 3			
Net Weight		kg	(140 x 1) + (127 X 2)	(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3
iver weight		lbs	(309 x 1) + (280 X 2)	(309 x 2) + (280X1)	(309 x 2) + (280X1)	309 x 3
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0
	Control Device		EEV	EEV	EEV	EEV
Dawar Cumple		0.1/11-	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Caurd Durante Law	Cooling	dB(A)	60	58	60	56
Sound Pressure Level	Heating	dB(A)	62	63	62	62
C 10 1	Cooling	dB(A)	74	70	74	70
Sound Power Level	Heating	dB(A)	76	75	76	76

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities are net capacities.

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

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)



Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 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.)

HEAT PUMP

ARWN620LAS4 / ARWN640LAS4 / ARWN680LAS4



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
c ::	Cooling	kW	173.6	179.2	190.4
Capacity	Heating	kW	195.3	201.6	214.2
	Cooling	kW	34.10	35.33	38.08
Input	Heating	kW	35.71	36.85	39.68
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D(PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kaf/cm ²	45	45	45
Heat Exchanger	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 21.8 + 21.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192 + 135 + 77	192 + 192 + 116 + 116	192 + 192 + 135 + 135
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 116°F)
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 116°F)
Refrigerant	Liquid Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Connecting Pipes	Gas Pipes	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)
	Inlet	mm	PT40 + PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 + PT40 (Internal)	PT 40 + PT 40 + PT 40 + PT40
Water Connecting Pipes	Outlet	mm	PT40 + PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 + PT40 (Internal)	PT 40 + PT 40 + PT 40 + PT40
5 1	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(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)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x
		kg	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)
Net Weight		lbs	(309 x 2) + (280 x 2)	(309 x 2) + (280 x 2)	(309 x 2) + (280 x 2)
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Name		R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8
5	Control Device		EEV	EEV	EEV
			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60
	Cooling	dB(A)	61	61	61
Sound Pressure Level	Heating	dB(A)	64	64	63
	Cooling	dB(A)	73	73	75
Sound Power Level	Heating	dB(A)	76	76	77

HP			70	74	80
	Combination Unit		ARWN700LAS4	ARWN740LAS4	ARWN800LAS4
Model Name	Independent Unit		ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Constitut	Cooling	kW	196.0	207.2	224.0
Capacity	Heating	kW	220.5	233.1	252.0
lasut	Cooling	kW	38.69	41.44	44.80
Input	Heating	kW	40.35	43.18	46.68
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
Heat Exchanger	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
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 116°F)	10°C ~ 45°C (50°F ~ 119°F)	10°C ~ 45°C (50°F ~ 122°F)
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 116°F)	-5°C ~ 45°C (23°F ~ 119°F)	-5°C ~ 45°C (23°F ~ 122°F)
Refrigerant	Liquid Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Connecting Pipes	Gas Pipes	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Inlet	mm	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
D: . (M/ 11 D)		mm	(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)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4
		kg	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4
Net Weight		lbs	(309 x 3) + (280 x 1)	(309 x 3) + (280 x 1)	309 x 4
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Name		R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 3.0
	Control Device		EEV	EEV	EEV
			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60
c 10 · · ·	Cooling	dB(A)	59	61	57
Sound Pressure Level	Heating	dB(A)	65	63	63
	Cooling	dB(A)	71	75	71
Sound Power Level	Heating	dB(A)	77	77	77
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HEAT PUMP

ARWN700LAS4 / ARWN740LAS4 / ARWN800LAS4

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities:
3. Due to our policy of innovation some specifications may be changed without notification.
4. 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.)

% This product contains Fluorinated Greenhouse Gases. (R410A)

% This product contains Fluorinated Greenhouse Gases. (K4 IUA)
Note : 1. Capacities and Inputs are based on the following conditions.
Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
2. Capacities are net capacities.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Add an anti-freeze to circulation water when Outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

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HEAT RECOVERY

ARWB080LAS4 / ARWB100LAS4 / ARWB140LAS4 / ARWB200LAS4

HP			8	10	14	20
	Combination Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4	ARWB200LAS4
Model Name	Independent Unit		ARWB080LAS4	ARWB100LAS4	ARWB140LAS4	ARWB200LAS4
	Cooling	kW	22.4	28.0	39.2	56.0
Capacity	Heating	kW	25.2	31.5	44.1	63.0
	Cooling	kW	3.86	5.09	7.84	11.20
Input	Heating	kW	4.20	5.34	8.17	11.67
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray , Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Piston Displacement	cm ³ /rev	43.8	43.8	43.8	62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz			
	Motor Output	kW	4.2	4.2	4.2	5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре	-	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss	kPa	10.7	15.8	28.6	30.1
	Rated Water Flow	LPM	77	96	135	192
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C(23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F
	Liquid Pipes	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
Refrigerant Connecting Pipes	Low Pressure Gas Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	25.4 (1)	28.58 (1-1/8)
connecting Pipes	High Pressure Gas Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Inlet	mm	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)
Water Connecting Pipes	Outlet	mm	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)	PT40 (1-1/2, Internal)
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 1			
NI . 187 * I .		kg	127 x 1	127 x 1	127 x 1	140 x 1
Net Weight		lbs	280 x 1	280 x 1	280 x 1	309 x 1
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	5.8	5.8	5.8	3.0
	Control Device		EEV	EEV	EEV	EEV
Davian Guradu		(1) / II-	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Council Durantum Law	Cooling	dB(A)	47	50	58	54
Sound Pressure Level	Heating	dB(A)	51	53	57	60
	Cooling	dB(A)	59	62	70	66
Sound Power Level	Heating	dB(A)	63	65	69	72

HEAT	DECO	VEDV
TEAL	RELU	VERI

ARWB220LAS4 / ARWB240LAS4 / ARWB280LAS4 / ARWB300LAS4

HP			22	24	28	30
	Combination Unit		ARWB220LAS4	ARWB240LAS4	ARWB280LAS4	ARWB300LAS4
Model Name	Independent Unit		ARWB140LAS4 ARWB080LAS4	ARWB140LAS4 ARWB100LAS4	ARWB140LAS4 ARWB140LAS4	ARWB200LAS4 ARWB100LAS4
Caracity	Cooling	kW	61.6	67.2	78.4	84.0
Capacity	Heating	kW	69.3	75.6	88.2	94.5
	Cooling	kW	11.70	12.93	15.68	16.29
Input	Heating	kW	12.37	13.51	16.34	17.01
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gra
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scr
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Piston Displacement	cm ³ /rev	43.8 + 43.8	43.8 + 43.8	43.8 + 43.8	62.1 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60H
	Motor Output	kW	4.2+4.2	4.2 + 4.2	4.2 + 4.2	5.3 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss kPa		28.6 + 10.7	28.6 + 15.8	28.6 + 28.6	30.1 + 15.8
	Rated Water Flow	LPM	135 + 77	135 + 96	135 + 135	192 + 96
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113
	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipes	.ow Pressure Gas Pipes mm (inch)		34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
connecting ripes	High Pressure Gas Pipes	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
	Inlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 (Internal
Water Connecting Pipes	Outlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 (Internal
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 2			
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 2			
N=+ \N/=:===+		kg	127 x 2	127 x 2	127 x 2	(140 x 1) + (127 x 1)
Net Weight		lbs	280 x 2	280 x 2	280 x 2	(309 x 1) + (280 x 1)
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	5.8 + 5.8	5.8 + 5.8	5.8 + 5.8	3.0 + 5.8
	Control Device		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
rower supply		ю, v, пz	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Cound Dropping Laura	Cooling	dB(A)	58	59	59	55
Sound Pressure Level	Heating	dB(A)	58	58	58	61
Cound Dourse Laurel	Cooling	dB(A)	70	71	72	67
Sound Power Level	Heating	dB(A)	70	70	71	73

% This product contains Fluorinated Greenhouse Gases. (R410A)
 Note : 1. Capacities and Inputs are based on the following conditions.
 Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities:
3. Due to our policy of innovation some specifications may be changed without notification.
4. 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.)

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)



- Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 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.)

HEAT RECOVERY

ARWB340LAS4 / ARWB400LAS4 / ARWB420LAS4 / ARWB440LAS4



HP			34	40	42	44
	Combination Unit		ARWB340LAS4	ARWB400LAS4	ARWB420LAS4	ARWB440LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4	ARWB200LAS4 ARWB140LAS4 ARWB080LAS4	ARWB200LAS4 ARWB140LAS4 ARWB100LAS4
c ::	Cooling	kW	95.2	112.0	117.6	123.2
Capacity	Heating	kW	107.1	126.0	132.3	138.6
	Cooling	kW	19.04	22.40	22.90	24.13
Input	Heating	kW	19.84	23.34	24.04	25.18
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scro
	Combination		(Inverter) x 2	(Inverter) x 2	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	43.8 + 62.1	62.1 + 62.1	62.1 + 43.8 + 43.8	62.1 + 43.8 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	4.2 + 5.3	5.3 + 5.3	5.3 + 4.2 + 4.2	5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type	-	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss kPa		30.1 + 28.6	30.1 + 30.1	30.1 + 28.6 + 10.7	30.1 + 28.6 + 15.8
	Rated Water Flow	LPM	192 + 135	192 + 192	192 + 135 + 77	192 + 135 + 96
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°
	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Refrigerant Connecting Pipes	Low Pressure Gas Pipes	mm (inch)	34.9 (1-3/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
connecting ripes	High Pressure Gas Pipes	mm (inch)	28.58 (1-1/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
	Inlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)
Water Connecting Pipes	Outlet	mm	PT40 + PT40 (Internal)	PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 (Internal)
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2	(755 x 997 x 500) x 3	(755 x 997 x 500) x 3
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 2	(29-23/32 x 39-1/4 x 19-11/16) x 2	(29-23/32 x 39-1/4 x 19-11/16) x 3	(29-23/32 x 39-1/4 x 19-11/16) x 3
Net Weight		kg	(140 x 1) + (127 x 1)	140 x 2	(140 x 1) + (127 X 2)	(140 x 1) + (127 X 2)
		lbs	(309 x 1) + (280 x 1)	309 x 2	(309 x 1) + (280 X 2)	(309 x 1) + (280 X 2)
Transmission Cable (CVV-	SB)	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
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 5.8	3.0 + 3.0	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8
	Control Device		EEV	EEV	EEV	EEV
Power Supply		Ø, V, Hz	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
		D, V, 11Z	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Sound Pressure Level	Cooling	dB(A)	59	55	60	60
Sound Fressure Level	Heating	dB(A)	61	61	62	62
Sound Power Level	Cooling	dB(A)	72	68	72	72
Sound FOWER Level	Heating	dB(A)	74	74	74	74

HEAT RECOVERY

ARWB480LAS4 / ARWB500LAS4 / ARWB540LAS4 / ARWB600LAS4

HP			48	50	54	60
	Combination Unit		ARWB480LAS4	ARWB500LAS4	ARWB540LAS4	ARWB600LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB140LAS4 ARWB140LAS4	ARWB200DAS4 ARWB200DAS4 ARWB100DAS4	ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
c ::	Combination UnitARWB480LAS4ARWB500LAS4ARWB540LAS4adel NameIndependent UnitARWB200LAS4 ARWB140LAS4ARWB200DAS4 ARWB140LAS4ARWB200DAS4 ARWB1200DAS4 ARWB1200DAS4ARWB220LAS4 ARWB1200LAS4 ARWB1200DAS4apacityCoolingkW134.4140.0151.2teatingkW151.2157.5170.1outCoolingkW26.8827.4930.24ising ColorWarm Gray, Mornig GrayWarm Gray, Mornig GrayWarm Gray, Mornig GrayWarm Gray, Mornig GraympressorTypeHermetically Sealed ScrollHermetically Sealed ScrollHermetically Sealed ScrollMotro OutputkW5.3 + 6.3 + 4.3862.1 + 62.1 + 4.3862.1 + 62.1 + 4.38Motro OutputkW5.3 + 4.2 + 4.25.3 + 5.3 + 4.2Motro OutputkW0rect on LineDirect On LineInverter 3,600 at 60HzMotro OutputkW192 + 132192 + 192 + 96192 + 192 + 195eta ExchangerTypeStainless Steel PlateStainless Steel PlateMaximum Pressure Resistancekg/rm²4545HeadingskPa30.1 + 28.6 + 28.630.1 + 30.1 + 15.830.1 + 28.6 + 28.6mpressure Gas Pipesmm (inch)19.05 (3/4)19.05 (3/4)19.05 (3/4)frigerant mmetring Pipesmm (inch)19.05 (3/4)19.05 (3/4)19.05 (3/4)frigerant mmetring Pipesmm (inch)19.05 (3/4)19.05 (3/4)19.05 (3/4)frigerant mmetring Pipesmm (inch		168.0			
Capacity	Heating	kW	151.2	157.5	170.1	189.0
lagest	Cooling	kW	26.88	27.49	30.24	33.60
Input	Heating	kW	28.01	28.68	31.51	35.01
Casing Color			Warm Gray, Mornig Gray			
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scrol
	Combination		(Inverter) x 3	(Inverter) x 3	(Inverter) x 3	(Inverter) x 3
	Piston Displacement	cm ³ /rev	62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8	62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz			
	Motor Output	kW	5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2	5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45	45
Heat Exchanger	Head Loss kPa		30.1 + 28.6 + 28.6	30.1 + 30.1 + 15.8	30.1 + 28.6 + 28.6	30.1 + 30.1 + 30.1
	Rated Water Flow	LPM	192 + 135 + 135	192 + 192 + 96	192 + 192 + 135	192 + 192+ 192
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F
	Liquid Pipes	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Refrigerant	Low Pressure Gas Pipes	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
connecting ripes	High Pressure Gas Pipes	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
	Inlet	mm	PT40 + PT40 + PT40 (Internal)			
Water Connecting Pipes	Outlet	mm	PT40 + PT40 + PT40 (Internal)			
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(755 x 997 x 500) x 3			
Dimensions (W x H x D)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 3			
Net Weight		kg	(140 x 1) + (127 X 2)	(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3
iver weight		lbs	(309 x 1) + (280 X 2)	(309 x 2) + (280X1)	(309 x 2) + (280X1)	309 x 3
Transmission Cable (CVV-	-SB)	mm ²	1.0 ~ 1.5 x 2C			
	Name		R410A	R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0
	Control Device		EEV	EEV	EEV	EEV
Dowor Supply			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60	3, 380, 60
Cound Dropping Lawy	Cooling	dB(A)	60	58	60	56
Sound Pressure Level	Heating	dB(A)	62	63	62	62
Cound Douver Loud	Cooling	dB(A)	74	70	74	70
Sound Power Level	Heating	dB(A)	76	75	76	76

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 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.)

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)



Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 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.)

HEAT RECOVERY

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
C ::	Cooling	kW	173.6	179.2	190.4
Capacity	Heating	kW	195.3	201.6	214.2
	Cooling	kW	34.10	35.33	38.08
Input	Heating	kW	35.71	36.85	39.68
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm ³ /rev	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8	62.1 + 62.1 + 43.8 + 43.8
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2 + 4.2	5.3 + 5.3 + 4.2 + 4.2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Maximum Pressure Resistance	kgf/cm ²	45	45	45
Heat Exchanger	Head Loss	kPa	30.1 + 30.1 + 28.6 + 10.7	30.1 + 30.1 + 21.8 + 21.8	30.1 + 30.1 + 28.6 + 28.6
	Rated Water Flow	LPM	192 + 192+ 135 + 77	192 + 192 + 116 + 116	192 + 192 + 135 + 135
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 113°F)	10°C ~ 45°C (50°F ~ 116°F)
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 113°F)	-5°C ~ 45°C (23°F ~ 116°F)
	Liquid Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Refrigerant Connecting Pipes	Low Pressure Gas Pipes	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)
connecting ripes	High Pressure Gas Pipes	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	44.5 (1-3/4)
	Inlet	mm	PT40 + PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 + PT40 (Internal)	PT 40 + PT 40 + PT 40 + PT40
Water Connecting Pipes	Outlet	mm	PT40 + PT40 + PT40 + PT40 (Internal)	PT40 + PT40 + PT40 + PT40 (Internal)	PT 40 + PT 40 + PT 40 + PT40
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
		mm	(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)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x
		kg	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)
Net Weight		lbs	(309 x 2) + (280 x 2)	(309 x 2) + (280 x 2)	(309 x 2) + (280 x 2)
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Name		R410A	R410A	R410A
Refrigerant	Charge Amount	kg	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8 + 5.8
	Control Device		EEV	EEV	EEV
			3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60
c 10	Cooling	dB(A)	61	61	61
Sound Pressure Level	Heating	dB(A)	64	64	63
	Cooling	dB(A)	75	73	75
Sound Power Level	Heating	dB(A)	79	76	77

HEAT RECOVERY

ARWB700LAS4 / ARWB740LAS4 / ARWB800LAS4

HP			70	74	80
	Combination Unit		ARWB700LAS4	ARWB740LAS4	ARWB800LAS4
Model Name	Independent Unit		ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB100LAS4 ARWB100LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB140LAS4	ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4 ARWB200LAS4
Canadita	Cooling	kW	196.0	207.2	224.0
Capacity	Heating	kW	220.5	233.1	252.0
lanut	Cooling	kW	38.69	41.44	44.80
Input	Heating	kW	40.35	43.18	46.68
Casing Color			Warm Gray, Mornig Gray	Warm Gray, Mornig Gray	Warm Gray, Mornig Gray
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination		(Inverter) x 4	(Inverter) x 4	(Inverter) x 4
	Piston Displacement	cm³/rev	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 43.8	62.1 + 62.1 + 62.1 + 62.1
Compressor	Number of revolution	rev/min	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz	Inverter 3,600 at 60Hz
	Motor Output	kW	5.3 + 5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3 + 4.2	5.3 + 5.3 + 5.3 + 5.3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D (PVE)	FVC68D(PVE)	FVC68D (PVE)
	Туре		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Uset Friebenson	Maximum Pressure Resistance	kgf/cm ²	45	45	45
Heat Exchanger	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
Temp. range of	Cooling		10°C ~ 45°C (50°F ~ 116°F)	10°C ~ 45°C (50°F ~ 119°F)	10°C ~ 45°C (50°F ~ 122°F)
Circulation water	Heating		-5°C ~ 45°C (23°F ~ 116°F)	-5°C ~ 45°C (23°F ~ 119°F)	-5°C ~ 45°C (23°F ~ 122°F)
	Liquid Pipes	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Refrigerant Connecting Pipes	Low Pressure Gas Pipes	mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
connecting ripes	High Pressure Gas Pipes	mm (inch)	44.5 (1-3/4)	44.5 (1-3/4)	44.5 (1-3/4)
	Inlet	mm	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
Water Connecting Pipes	Outlet	mm	PT 40 + PT 40 + PT 40 + PT40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet	mm	PT20 (3/4, External)	PT20 (3/4, External)	PT20 (3/4, External)
D: . (M II D)		mm	(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)		inch	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x 4	(29-23/32 x 39-1/4 x 19-11/16) x
NI - 187 - 1 -		kg	(140 x 2) + (127 X 2)	(140 x 3) + (127 x 1)	140 x 4
Net Weight		lbs	(309 x 2) + (280 X 2)	(309 x 3) + (280 x 1)	309 x 4
Transmission Cable (CVV-	-SB)	mm ²	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Name		R410A	R410A	R410A
Refrigerant	Charge Amount	kg	5.8 + 5.8 + 3.0 + 3.0	3.0 + 3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0 + 3.0
	Control Device		EEV	EEV	EEV
		a.v.u	3, 380 ~ 415, 50	3, 380 ~ 415, 50	3, 380 ~ 415, 50
Power Supply		Ø, V, Hz	3, 380, 60	3, 380, 60	3, 380, 60
C 10 1 1	Cooling	dB(A)	59	61	57
Sound Pressure Level	Heating	dB(A)	65	63	63
C 10 1	Cooling	dB(A)	71	75	71
Sound Power Level	Heating	dB(A)	77	77	77

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
 Cooling: Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
 Heating: Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

2. Capacities:
3. Due to our policy of innovation some specifications may be changed without notification.
4. 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.)

% This product contains Fluorinated Greenhouse Gases. (R410A)

Note: 1. Capacities and Inputs are based on the following conditions.
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 Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

E BI	- Sector	La		F
2	2	2	2	1.

Capacities are net capacities.
 Due to our policy of innovation some specifications may be changed without notification.
 Add an anti-freeze to circulation water when Outdoor unit is operating under 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

INDOOR UNITS

- WALL MOUNTED UNIT
- SMART DUAL VANE CASSETTE
- ROUND CASSETTE

• CEILING CONCEALED DUCT

• FRESH AIR INTAKE UNIT

- CEILING MOUNTED CASSETTE

- FLOOR STANDING UNIT
- CEILING SUSPENDED UNIT
- CEILING & FLOOR CONVERTIBLE UNIT
- CONSOLE & FLOOR STANDING UNIT
- COMPATIBILITY
- FEATURE FUNCTIONS



hand

INDOOR UNITS LINE-UP

	kW	1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
Туре	Btu	/h 5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
	Artcool Mirror		•	•	•	•	•		•								
4 th generation Wall Mounted Unit	Artcool Gallery		•	•	•												
	Standard	•	•	•	•	•	•		•		•	•					
	Smart Dual Vane Cassette								•	•	•	•	•	•			
	Round Cassette								•			•		•			
	4 Way Cassette (570 x 570)	•	•	•	•	•	•	•									
4 th generation Ceiling Mounted	4 Way Cassette (840 x 840)								•	•	•	•	•	•	•		
Cassette	4 Way Cassette High Sensible (840 x 840)		•	•	•	•	•		•	•		•	•				
	2 Way Cassette			•	•		•		•								
	1 Way Cassette		•	•	•		•		•								
4 th generation Ceiling Concealed	High Statics		•	•	•	•	•		•	•		•	•	•	•	•	•
Duct	Low Statics	•	•	•	•	•	•	•	•								
4 th generation Fresh Air Intak	e Units															•	•
4 th generation Floor Standing	Units			•	•												
4 th generation Ceiling Suspen	ded Unit	/					•		•			•		•			
4 th generation Console			•	•	•	•											
4 th generation Floor	Floor Standing Unit with Case		•	•	•	•	•		•								
Standing Unit	Floor Standing Unit without Case)	•	•	•	•	•		•								
4 th generation	Low Temperature]											•				•
HYDRO KIT	High Temperature												•			•	
4 th generation Energy						•			•		•						
Recovery Ventilator with DX Coil	without Humidifier					•			•		•						

INDOOR UNITS FEATURE OVERVIEW

Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Rerstart Function Disable / Enable	Wi-Fi Ready
•	٠	•	٠	•	•	•	•	•	٠	•		٠	•	•	•
•	٠	•	٠	•	•	•	•	•	•	•		٠	•	•	•
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If 4th generation indoor units are combined to 2nd generation indoor units, several functions are not available. More detailed information, refer to the "MULTI V Indoor units Compatibility Table"

Advanced Air Conditioning System

COOLING WITH PURIFIED AIR



Powerful Air-purifying Performance

CAC certification guarantees powerful air purification performance to large space.

CAC certification?

Pre filter

Cleaning every 2 weeks

Washing with water

The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.



Air purification Performance Testing Result

Testing institute : Korea Institute of Machinery and Materials. Test Standard : KACA-CAC-2011, Air purification integrated air conditioner Maker : LG Electronics Model Name : RNW1450T2S(14.5kW, 48kBtu/h)

% This model name is Korean market model name

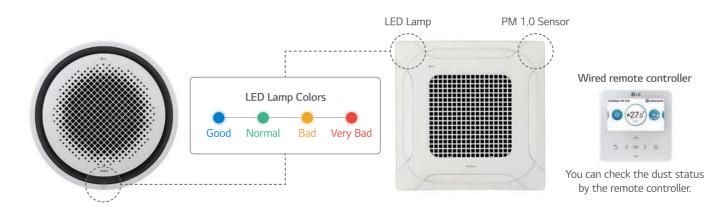
No	Testing Item	Unit	Testing Result	Standard
1	Class Air Delivery Data (CADD)	m³/min	19.1	10.0 m³/min↑
I	Clean Air Delivery Rate (CADR)	m³/h	1145	
2	Harmful Gas Removal Efficiency	%	63	
3	Ozone generation density	ppm	TR	0.01↓
4	Noise Level	dB(A)	48.9	55↓
5	Treatable Area	m²	147	



Real time Air Quality Monitoring

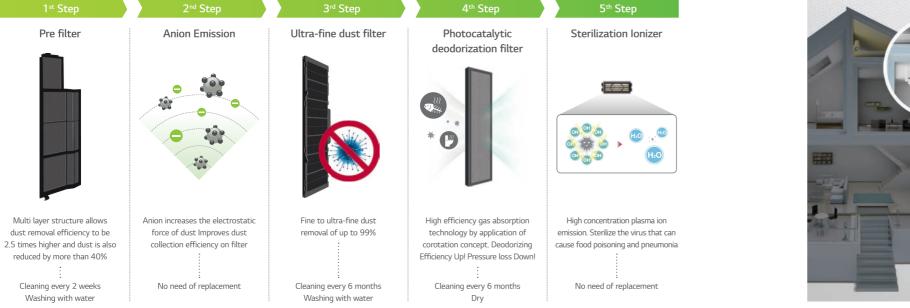
The condition of the air is displayed in different colors on the LED display. The remote control can check the dust concentration in numerical values PM 1.0 sensor detects dust density of three sizes (Fine dust, Ultra-fine dust and Micro-fine dust) You can check the indoor air condition on the cassette panel and the remote control.

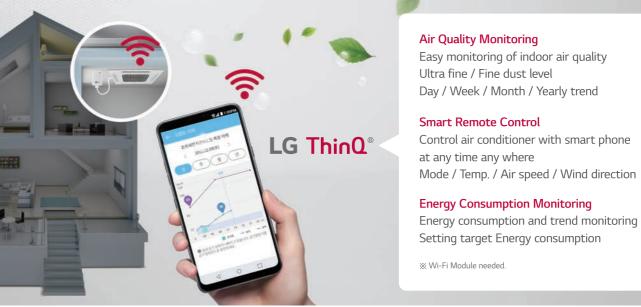
NDOOR



LG ThinQ App

Air quality monitoring and operation control can be managed easily through Wi-Fi mobile application LG ThinQ.





5-Step Air Cleaning Process

5-Step air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment.

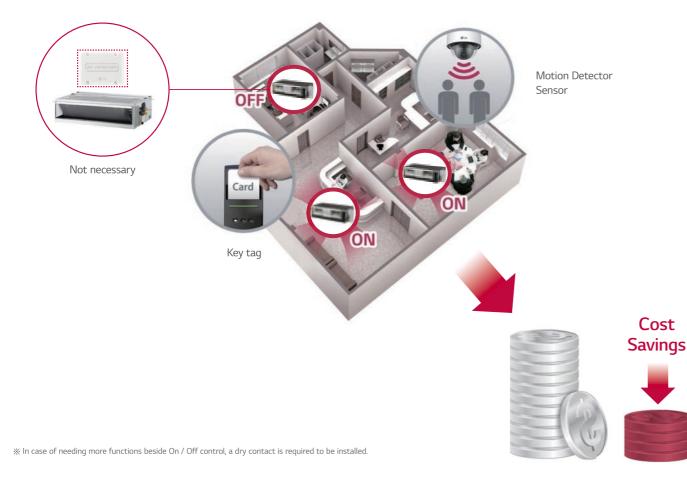
Advanced Air Conditioning Technology

ENERGY EFFICIENCY

1 Point External Input (On / Off Control)

Indoor units can control external devices without dry contact, so customer can save cost of installation.

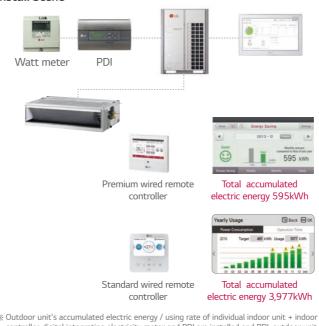
Connection between an indoor unit and external devices directly



Energy Monitoring (Accumulated Electric Energy Check)

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





** Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electric trends of an 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.

Filter Sign (Remaining Time)

convenient for users.

Remain time until indoor filter cleaning + alarm



Remain time until indoor filter cleaning 2,400hr.





Apply for Multistory Building

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

Cancel	Filter	Sign		
• good	normal	caution	severe	
\odot		1 Hr. 9 Hr.		2011 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Ŭ				Premium wired remote controll

Remain time until indoor filter cleaning 1,729hr.



Features & Benefits

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

Key Applications

 Retail • Hotel Restaurant • Multi-family Residence Office

W	all Mounted Unit	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	-	O ~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

Energy Display

LG's Energy Display panel monitors the amount of energy levels used. Save on energy consumption while enjoying the cooling by checking your energy level on the pane. % Specifications may vary for each model.

Magic Display & Remote Control

With the push of a button on the remote control, indoor unit's LCD display shows the current and total energy use, thus making the users aware of reducing energy consumption.



Normal Mode Current Setting Temp.



Fan Speed

Display	Speed
FS	High
F4	Medium-High
F3	Medium
F2	Medium-Low
Fl	Low

Electric Power Displays Current Energy Use

Sleep Mode



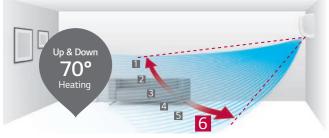
For example, setting 1hr

4 Way Swing

Cool air reaches out to the entire room regardless of where the air conditioner is installed. * Specifications may vary for each model.

6-Step Vane, Control up to 70°

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



% Angle can be different from each model and working mode

Easy and Simple Control

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



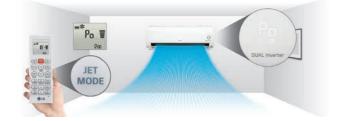
Up / Down Swing

Jet Cool

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

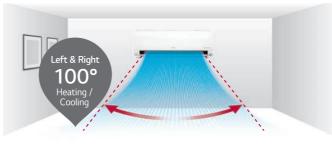
One Click "Jet Mode"

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



Control up to 100°

The louver can be adjusted by manual.



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

More Powerful Performance

is increased to 13.0 CMM.

By reducing the second vortex, which decreases airflow within

the air outlet, and enlarging the fan size, the amount of airflow

Ionizer PLUS

The powerful Ionizer protects you from bad odors and harmful and contagious particles in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, and cleaner environment. Specifications may vary for each model.Depending on the experimental conditions

Sterilization and Deodorization (Utilizes Over 3 Million Ions)

Ionizer+ reduces harmful and contagious microscopic particles by infusing the air passing through the air conditioner with over 3 million ions.





Ions are released into air

Ion Cluster Generation

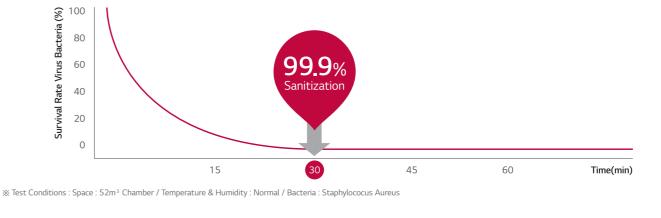
Substances H- and O- bond to harmful particles

Surrounding Harmful

OH radicles inactivate harmful substances

Sterilization Performance Evaluations

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



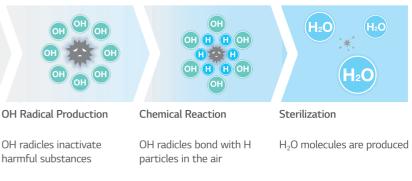
2.1 odor strength decrease in 60 minutes

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



Magnitude of Low High Velocity

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



Auto Cleaning

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

Pain Point

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



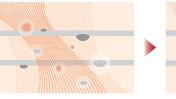
Cleans Filter with Regular Airflow

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





By dehumidifying, the auto cleaning function eliminates substances that might be harmful.



The indoor environment remains odorless with the advanced deodorizing function.

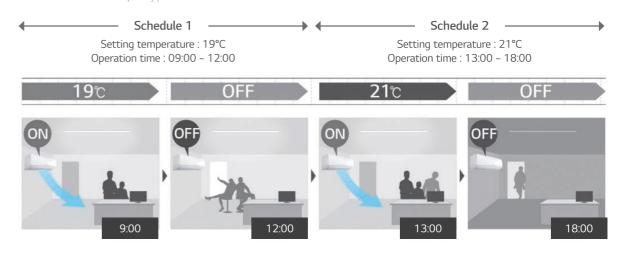


By preventing polluting of the heat exchanger caused by various germs and bacteria, the performance and life span of the air conditioner do not wither away even after a period of 10 years.

Scheduled Operation

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

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



Two Thermistors Control

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



Group Control

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



Cooling / Heating Dehumidification Fan only operating Setting temp.

Removes Harmful Particles

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





Bacteria

Prevention



Elimination

Mold Elimination

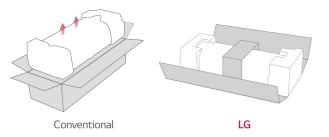


Standard Operation In Case of Group Control

Quick & Easy Installation

LG air conditioner is designed for an easy and efficient installation, making possible to install several units in a short period of time. * Specifications may vary for each model.

One Simple Packing Box



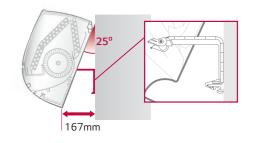
Installation Plate Improvement

LG's installation plate is larger and customized to reduce installation time.



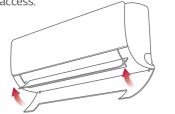
Installation Support Clip

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



Detachable Bottom Cover

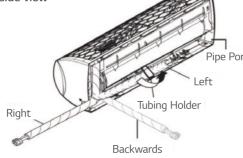
The air conditioner's bottom cover is detachable for easier Installation and access.



3 Way Flexible Installation

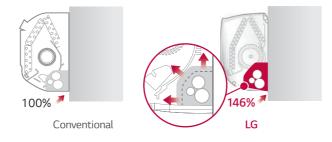
It is possible to install and connect the outdoor unit in 3 different ways (Left, Right, Back).





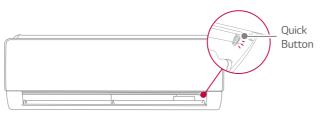
Wider Tubing Space

The space provided for tubing facilitates the whole installation process and hides the unorganized parts, making it appear clean and tidy.



Quick button for running test

The test button is conveniently located and easy to find.



Wi-Fi Control

Control your air conditioners via using the smart internet devices as Android or iOS based smartphones. This advanced technology provides you the best convenience.

LG ThinQ

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

Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Easy Registration and Log-in

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



Simple operation for various functions





On / Off, Current Temp. Mode, Set Temp. Vane Control

18.0

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



Wi-Fi Connectivity

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



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

Straight forward Management





Reservation



Energy Monitoring



Smart Diagnosis



Filter Management

ARTCOOL MIRROR

ARNU05GSJR4 / ARNU07GSJR4 / ARNU09GSJR4 ARNU12GSJR4 / ARNU15GSJR4



Model		Unit	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Cooling Capac	ity	kW	1.6	2.2	2.8	3.6	4.5
Heating Capa	tity	kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11/10/9	12/11/9	13/12/9	15/13/11	23/18/11
Exterior Color			Mirror (Black)				
RAL Code			RAL 9005				
Dimensions	Body	mm	837 x 308 x 192				
$(W \times H \times D)$	Shipping	mm	909 x 383 x 256				
	Туре		Cross Flow Fan				
F	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	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)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dower Cupply		(1) / LI=	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C				

X Nominal : Performance tested under EN14511

Rated : Max. power input allowed for fan motor
 Note : 1. 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
 2. Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4	
Drain Pump			-			
Cassette Cover			-			
Refrigerant Leakage Detector			PRLDNVS0			
EEV Kit			PRGK024A0			
Independent Power Module			PRIPO			
Robot Cleaner		· ·				
Pre Filter (Washable / Anti-fungus)		0				
Ion Generator		0				
CO ₂ Sensor						
Ventilation Kit						
IR Receiver			-			
Zone Controller			-			
Dry Contact (with Additional Accessory)			PDRYCB000 (1 point co 00 (8 points for thermos PDRYCB320 (Universi PDRYCB400 (2 points in PDRYCB500 (Modbu	nput)		
External Input (1 point)			0			
Wi-Fi			0			

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

ARNU18GSKR4 / ARNU24GSKR4

Model		Unit	ARNU18GSKR4	ARNU24GSKR4
Cooling Capac	ity	kW	5.6	7.1
Heating Capac	ity	kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Color			Mirror (Black)	Mirror (Black)
RAL Code			RAL 9005	RAL 9005
Dimensions	Body	mm	998 x 345 x 212	998 x 345 x 212
$(W \times H \times D)$	Shipping	mm	1,080 x 422 x 281	1,080 x 422 x 281
	Туре		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	58 x 1	58 x 1
Fan	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
	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 Pressur	re Levels (H / M / L)	dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power I	Levels (H / M / L)	dB(A)	63 / 57 / 54	65 / 60 / 54
Deven Correla		(1) / 1 -	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU18GSKR4	ARNU24GSKR4		
Drain Pump	-			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVS	0		
EEV Kit	PRGK024	40		
Independent Power Module	PRIPO			
Robot Cleaner	-			
Pre Filter (Washable / Anti-fungus)	0			
lon Generator	0			
CO ₂ Sensor				
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible)			
External Input (1 point)	0			
Wi-Fi	0			

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

ARTCOOL GALLERY

ARNU07GSF14 / ARNU09GSF14 / ARNU12GSF14



Model		Unit	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Cooling Capac	ity	kW	2.2	2.8	3.6
Heating Capad	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
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	8.1 / 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
	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 (15/32)	Ø12 (15/32)	Ø12 (15/32)
Weight	Body	kg	15.0	15.0	15.0
Sound Pressur	re Levels (H / M / L)	dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power	Levels (H / M / L)	dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 46 / 38
Dannan Currahu		()) / II-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511% Rated : Max. power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

Capacities are based of 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
 Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14		
Drain Pump		-			
Cassette Cover		-			
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit		PRGK024A0			
Independent Power Module		PRIPO			
Robot Cleaner		-			
Pre Filter (Washable / Anti-fungus)		0			
Ion Generator					
CO ₂ Sensor					
Ventilation Kit					
IR Receiver					
Zone Controller		-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) (NEW) PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)		0			
Wi-Fi		PWFMDD200 ²⁾			

※ ○ : Applied, - : Not applied

Option : Refer to model name in table 1) Available from April 2020

2) External installation only

Model		Unit	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Cooling Capac	ity	kW	1.6	2.2	2.8	3.6	4.5
Heating Capad	tity	kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11 / 10 / 9	12/11/9	13/12/9	15 / 13 / 11	23 / 18 / 11
Exterior Color			White	White	White	White	White
RAL Code			RAL 9016				
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 Pressur	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)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Denne Correla		Ø. 1/ 1/-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C				

% Nominal : Performance tested under EN14511

STANDARD

3. I.D : 'Internal Diameter'

*: 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			
Independent Power Module		PRIPO				
Robot Cleaner		· ·				
Pre Filter (Washable / Anti-fungus)		0				
Ion Generator		0				
CO ₂ Sensor						
Ventilation Kit						
IR Receiver						
Zone Controller						
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)			0			
Wi-Fi			0			

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

1) Available from April 2020

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

815	Seat neeter

STANDARD

ARNU18GSK*4 / ARNU24GSK*4

ARNU30GSVA4 / ARNU36GSVA4

Model

0 16	Statt Insuriar

Model		Unit	ARNU18GSK*4	ARNU24GSK*4
Cooling Capac	ity	kW	5.6	7.1
Heating Capad	tity	kW	6.3	7.5
Power Input (H / M / L)	Nominal	W	32 / 26 / 16	39 / 26 / 16
Exterior Color			White	White
RAL Code			RAL 9016	RAL 9016
Dimensions	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
_	Motor Output x Number	W x No.	58 x 1	58 x 1
Fan	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
	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 Pressur	re Levels (H / M / L)	dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power	Levels (H / M / L)	dB(A)	63 / 57 / 54	65 / 60 / 54
		<i>a.</i>	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511

Rated : Max. power input allowed for fan motor
 Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification

3. I.D.: 'Internal Diameter'
 * : 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	PRLDNVS0				
EEV Kit	PRGK024	4A0			
Independent Power Module	PRIPO)			
Robot Cleaner	-				
Pre Filter (Washable / Anti-fungus)	0				
Ion Generator	0				
CO ₂ Sensor					
Ventilation Kit					
IR Receiver	-				
Zone Controller	-				
Dry Contact (with Additional Accessory)	PDRYCB000 (1 pc PDRYCB300 (8 points for th NEW PDRYCB320 (U PDRYCB400 (2 p PDRYCB500 (1	points input)			
External Input (1 point)	0				
Wi-Fi	0				

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

1) Available from April 2020

Cooling Capacity kW 8.8 9.4 Heating Capacity kW Power Input (H / M / L) W 54 / 43 / 31 Nominal Exterior Color White RAL Code RAL 9016 Body mm 1,190 x 346 x Dimensions (W x H x D) Shipping 1,265 x 432 x mm Туре Cross Flow Fa Motor Output x Number W x No. 113 x 1 Fan Air Flow Rate (H / M / L) m³/min 23.0 / 20.0 / BLDC Motor type Air Filter Pre Filter Liquid Side mm (inch) Ø9.52 (3/8 Pipe Ø15.88 (5/8 Gas Side mm (inch) Connections Drain Pipe (Internal Dia.) mm (inch) Ø16 (5/8) 16.6 Weight Body kg Sound Pressure Levels (H / M / L) 49 / 44 / 42 dB(A) 1, 220 ~ 240, Power Supply Ø, V, Hz 1, 220, 60 1.0 ~ 1.5 x 2 Communication Cable mm² x No

Unit

※ Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor Note : 1. 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
 2. Due to our policy of innovation some specifications may be changed without notification 3. I.D : 'Internal Diameter'

ARNU30GS

Accessories

Chassis	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Independent Power Module	PRIPO	
Robot Cleaner	-	
Pre Filter (Washable / Anti-fungus)	0	
lon Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point PDRYCB300 (8 points for thern New PDRYCB320 (Unive PDRYCB400 (2 point PDRYCB500 (Moc	contact) nostat compatible) ersal input) ¹⁾ s: input) ibus)
External Input (1 point)	0	
Wi-Fi	PWFMDD200	1)

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

2) External installation only

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		_
SVA4	ARNU36GSVA4	
	10.4	
	10.8	
31	85 / 51 / 36	
	White	
6	RAL 9016	
x 265	1,190 x 346 x 265	
x 335	1,265 x 432 x 335	
Fan	Cross Flow Fan	
	113 x 1	
17.0	26.0 / 23.0 / 19.0	
	BLDC	
r	Pre Filter	
8)	Ø9.52 (3/8)	
/8)	Ø15.88 (5/8)	
3)	Ø16 (5/8)	
	16.6	
42	52 / 47 / 43	
0, 50	1, 220 ~ 240, 50	
0	1, 220, 60	
2C	1.0 ~ 1.5 x 2C	

INDOOR UNITS

SMART DUAL VANE CASSETTE



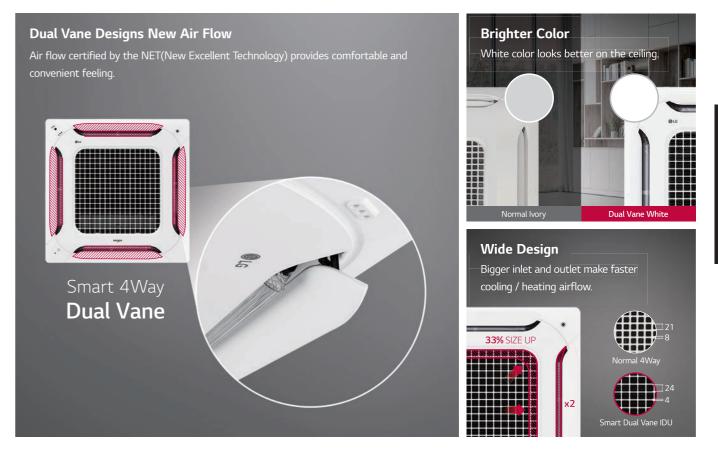
Features & Benefits

- 6 Different Discharge Angles can be Programmed via the Remote Control.
- Easily Detachable Full Surface Cover Helps Clean the Air Conditioner Flawlessly.
- Drain Pipe can be Easily Hidden from Sight.

Key Applications

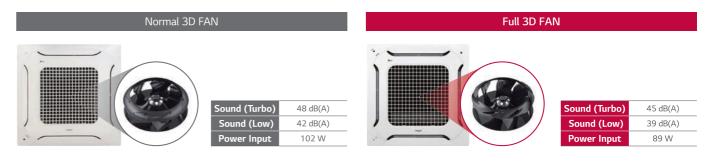
- Retail
- Restaurant
- Office
- Hotel
- Dormitory

New Design



High Air flow & Low noise with Full 3D Fan

Full 3D fan decreases air resistance, makes High Airflow and Low Sound Level.

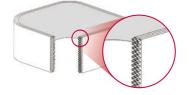


High Efficient Heat Exchanger (HEX)

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

Normal Ø7 HEX eat Tran: Area 3.32m² (100%) Tube Colu 12 Column Fin per Inch 19 Efficienc 100%

High Efficient Ø5 HEX



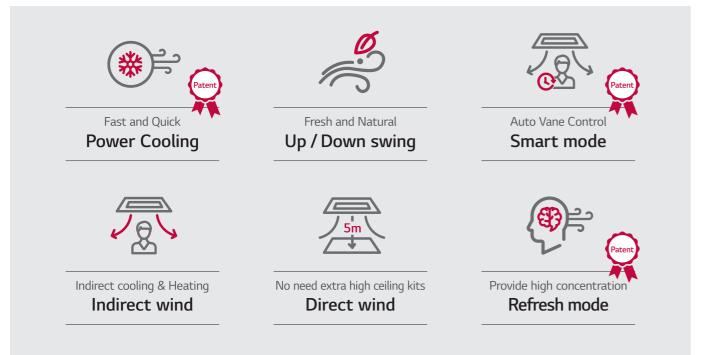
Heat Transfer Area	3.45m² (104%)	
Tube Column	18 Column	
Fin per Inch	21	
Efficiency	110%	

SMART DUAL VANE CASSETTE

Various Airflow

Dual Vane leads the new types wind

Innovative dual vane designs each of the best airflow over various spaces.

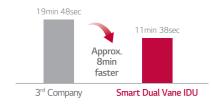


Power Cooling

Powerful airflow is always faster cooling and heating (4 Vane Control Logic).



Reached time to set temperature



<Beginning Temperature 31°C, Approaching temperature 26°C>

% Smart Dual Vane Indoor Unit 14.5kW% Data Based on actual test of LG Test Chamber, single product test result (start temp. : 33°C, Setting Temp. : 26 °C, 3rd Company : Cooling Autoswing, LG : Natural Dual Swing Mode) Up / Down swing

Up / Down swing provides fresh and uniform airflow (Dual Swing).



Cooling Temperature Distribution rate



 $< 3^{\rm rd}$ company Auto swing, LG Dual auto swing mode>

% Smart Dual Vane Indoor Unit 14.5kW% Data Based on actual test of LG Test Chamber, single product test result

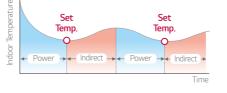
(start temp. : 33°C, Setting Temp. : 26 °C, 3rd Company : Cooling Autoswing, LG : Natural Dual Swing Mode)

Smart mode

IDU automatically controls power and indirect wind to keep feeling good. (Power \rightarrow Reached Setting Temp. \rightarrow Indirect Airquide \rightarrow Unreached Setting Temp. \rightarrow Power)



Change of airflow by Temperature



Direct wind

No need high ceiling kit, and airflow is controlled to reach the floor by angles of vane.

(3rd Company : Single Vane 70°, LG High Ceiling : Dual Vane 85°)



Comparison of flow height



% 3rd Company : High Ceiling Installation Kit Manual, LG : Direct wind

Indirect wind

Dual Vane designs indirect wind without separate airguide Kit.



Normal 4way with Air guide

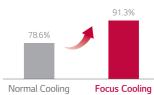
Smart Dual Vane IDU

Refresh mode

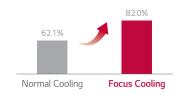
IDU controls temperature and air flow to Induce brainwave change, so that it provides high concentration.



Concentration Performance



Vocabulary Test Performance



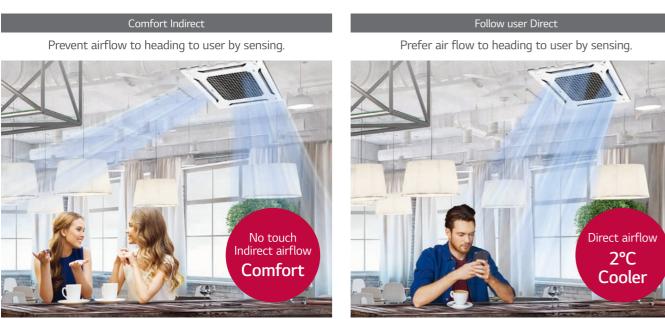
% Data based on the results of EEG measurements through the sleep polysomnograpy in Seoul Sleep Environment Research.

SMART DUAL VANE CASSETTE

Various Airflow

Human detecting Direct / Indirect airflow

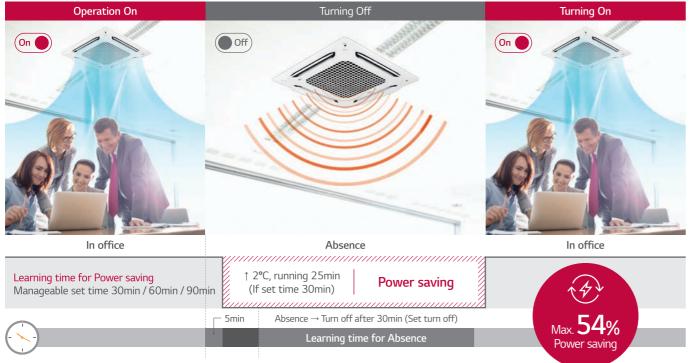
Human sensing function finds users to provide their favorite airflow.



% Available only for products with Human Detecting sensor

Human detecting On / Off Learning operation system

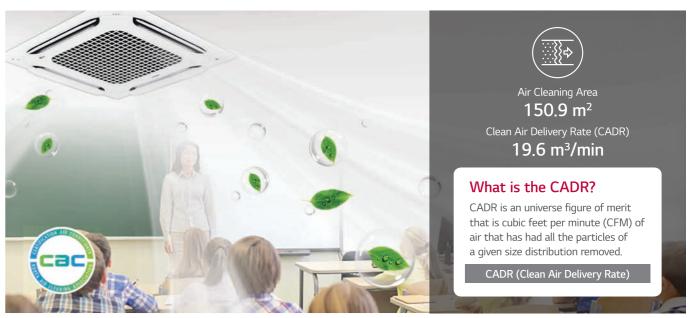
IDU senses people to switch On / Off for Max. 54% power saving.



% Data Based on actual test of LG, single product 2 hours measurement result. (cooling 26°C, strong wind)

Everyday High performance of Air cleaning

Air cleaning function makes clean spaces for everyday.



* Korean Air Cleaning Association Certification Standards (Jun, 2019)

Convenient and Powerful 5 Steps Air cleaning

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



SMART DUAL VANE CASSETTE

ARNU24GTBB4 / ARNU28GTBB4 / ARNU30GTBB4



RNU24GTBB4 ARNU28GTB ARNU30GTBB4 Unit kW 7.1 8.2 9.0 kcal/h 6,100 7,100 7,700 Cooling Capacity Btu/h 24,200 28,000 30,700 kW 8.0 9.2 10.0 kcal/h 6 9 0 0 8 0 0 0 8 6 0 0 Heating Capacity Btu/h 27,300 31,500 34,100 Casing Galvanized Steel Plate Galvanized Steel Plate Galvanized Steel Plate 840 x 840 x 204 840 x 840 x 204 840 x 840 x 204 mm Body 33.0 x 33.0 x 8 33.0 x 33.0 x 8 inch 33.0 x 33.0 x 8 Dimensions (W x D x H) Dim mm 950 x 950 x 35 950 x 950 x 35 950 x 950 x 35 Front Panel inch 37.4 x 37.4 x 1.3 37.4 x 37.4 x 1.3 37.4 x 37.4 x 1.3 3 x 8 x 21 3 x 8 x 21 Rows x Columns x FPI 3 x 8 x 21 Coil m³ 0.33 0.33 0.33 Face Area 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 0.31 0.34 0.43 Running Cuurent А CMM 18/17/15 19/17/15 21/19/16 Far Air Flow Rate (H / M / L) cfm 635 / 600 / 530 671 / 600 / 530 741 / 681 / 565 Drive Direct Direct Direct Motor Type BLDC BLDC BLDC Temperature Control Microprocessor, Thermostat for cooling and heating Sound Absorbing Thermal Insulation Material Foaned polystrene Foaned polystrene Foaned polystrene Safty Device Fuse Fuse Fuse Liquid Side mm (inch) Ø9.52 (3/8) Ø9.52 (3/8) Ø9.52 (3/8) Pipe Ø1588(5/8) Ø1588(5/8) Ø1588(5/8) Gas Side mm (inch) Connections Drain Pipe (Internal Dia.) mm (inch) 25 (1) 25(1) 25(1) Net Weight Body kg(lbs) 21 (46.3) 21 (46.3) 21 (46.3) Noise Level (Sound Press, 1.5m, H / M / L) dB(A) 39 / 37 / 35 40/38/35 43/40/36 1, 220 ~ 240, 50 1, 220 ~ 240, 50 1, 220 ~ 240, 50 Power Supply Ø, V, Hz 1, 220, 60 1, 220, 60 1, 220, 60 Refrigerant Control EEV EEV EEV Power Supply Cable (H07RN-F) mm² x cores 2.5 x 3 2.5 x 3 2.5 x 3 Connecting Cable Communication Cable mm² x cores 1.0 ~ 1.5 x 2 1.0 ~ 1.5 x 2 1.0 ~ 1.5 x 2 (VCTF-SB) Panel Color Noble White (RAL 9003) Noble White (RAL 9003) Noble White (RAL 9003) Panel Name (Accessory) PT-AAGW0 / PT-AFGW0 PT-AAGW0 / PT-AFGW0 PT-AAGW0 / PT-AFGW0 W 32 / 27 / 20 37 / 30 / 22 48/36/25 Cooling (Rate) Power Input Heating (Rate) W 32 / 27 / 20 37 / 30 / 22 48/36/25 0.31 / 0.26 / 0.21 0.34 / 0.28 / 0.22 0.43 / 0.34 / 0.25 Cooling (Rate) А Current Input Heating (Rate) А 0.31 / 0.26 / 0.21 0.34 / 0.28 / 0.22 0.43 / 0.34 / 0.25

* Available from may 2020

ARNU36GTAB4 Unit kW 10.6 Cooling Capacity kcal/h 9.100 Btu/h 36,200 kW 11.9 kcal/h 10200 Heating Capacity Btu/h 40,600 Casing Galvanized Steel Plate 840 x 840 x 288 mm Body 33.0 x 33.0 x 11.3 Dimensions (W x D x H) inch mm 950 x 950 x 35 Front Panel inch 37.4 x 37.4 x 1.3 3 x 12 x 21 Rows x Columns x FPI Coil Face Area m³ 0.5 Туре Full 3D Turbo Fan Motor Output x Number W 135 x 1 0.62 Running Cuurent А CMM 29 / 26 / 22 Fan Air Flow Rate (H / M / L) cfm 1.024 / 918 / 777 Drive Direct Motor Type BLDC Temperature Control Sound Absorbing Thermal Insulation Material Foaned polystrene Safty Device Fuse Liquid Side mm (inch) Ø9.52 (3/8) Pipe Gas Side mm (inch) Ø1588(5/8) Connections Drain Pipe (Internal Dia.) mm (inch) 25(1) Net Weight Body kg(lbs) 26 (57.3) Noise Level (Sound Press, 1.5m, H / M / L) dB(A) 43 / 40 / 37 1, 220 ~ 240, 50 Power Supply Ø, V, Hz 1, 220, 60 Refrigerant Control EEV Power Supply Cable mm² x core 2.5 x 3 (H07RN-F) Connecting Cable Communication Cable mm² x core 1.0 ~ 1.5 x 2 (VCTF-SB) Panel Color Noble White (RAL 9003) Panel Name (Accessory) PT-AAGW0 / PT-AFGW0 W 69 / 49 / 37 Cooling (Rate) Power Input Heating (Rate) W 69 / 49 / 37 0.62 / 0.46 / 0.36 Cooling (Rate) А Current Input Heating (Rate) 0.62 / 0.46 / 0.36 Α

* Available from may 2020

ARNU36GTAB4 / ARNU42GTAB4 / ARNU48GTAB4



ARNU42GTAB4	ARNU48GTAB4
12.3	14.1
10,600	12,100
42,000	48,100
13.8	15.9
11,000	13,200
47,000	54,200
Galvanized Steel Plate	Galvanized Steel Plate
840 x 840 x 288	840 x 840 x 288
33.0 x 33.0 x 11.3	33.0 x 33.0 x 11.3
950 x 950 x 35	950 x 950 x 35
37.4 x 37.4 x 1.3	37.4 x 37.4 x 1.3
3 x 12 x 21	3 x 12 x 21
0.5	0.5
Full 3D Turbo Fan	Full 3D Turbo Fan
135 x 1	135 x 1
0.85	0.95
33 / 29 / 26	34 / 30 / 28
1,165 / 1,024 / 918	1,200 / 1,059 / 988
Direct	Direct
BLDC	BLDC
Microprocessor, Thermostat for cooling and hea	ting
Foaned polystrene	Foaned polystrene
Fuse	Fuse
Ø9.52 (3/8)	Ø9.52 (3/8)
Ø15.88 (5/8)	Ø15.88 (5/8)
25 (1)	25 (1)
26 (57.3)	26 (57.3)
47 / 43 / 40	48 / 44 / 42
1, 220 ~ 240, 50	1, 220 ~ 240, 50
1, 220, 60	1, 220, 60
EEV	EEV
2.5 x 3	2.5 x 3
1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
Noble White (RAL 9003)	Noble White (RAL 9003)
PT-AAGW0 / PT-AFGW0	PT-AAGW0 / PT-AFGW0
97 / 69 / 49	110 / 76 / 61
97 / 69 / 49	110 / 76 / 61
0.85 / 0.62 / 0.46	0.95 / 0.69 / 0.56
0.85 / 0.62 / 0.46	0.95 / 0.69 / 0.56

ROUND CASSETTE



Features & Benefits

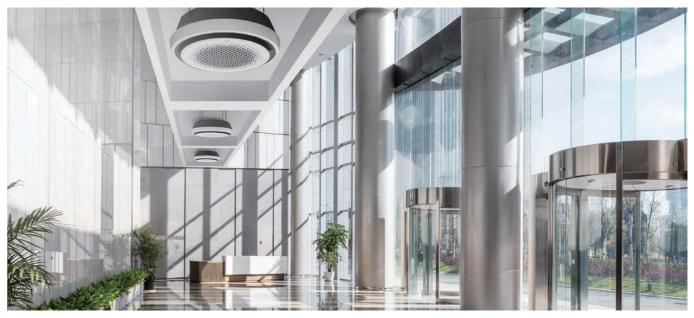
- Premium design to match your interior space
- Pleasant airflow for optimal comfort
- Air purification
- Improved and simple installation

Key Applications

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

Premium Design to Complete the Space

Subtly revealed elegance. Sense that stands out in any interior. A body design that naturally fits your space, adding class to your style. Panels styled with clean whites and modern blacks, perfecting your interior.



Comfort

Perfect Round Flow

Perfect round flow without blind spots. (This product can only be installed on an open ceiling)



Visible, Intuitive Airflow

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



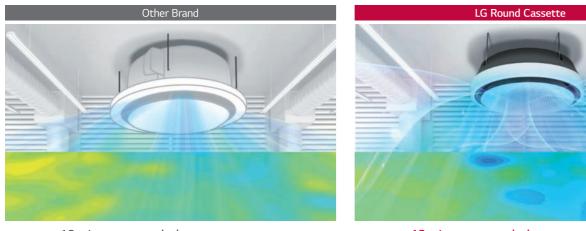


ROUND CASSETTE

Comfort

30% Faster in Cooling

With greater airflow, it gets cooler 30% faster, spreading cool air evenly without missing a spot.



18 minutes to reach the set temperature

12 minutes to reach the set temperature

Clean Air

Powerful and Convenient 5-step Air Purification

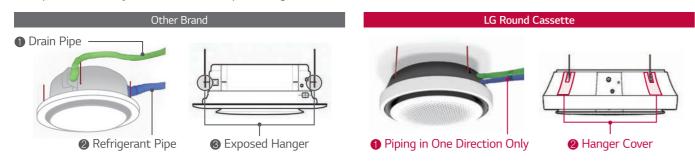
With the semi-permanent 5-step air filter, you don't have to worry about maintenance cost anymore.



Installation

Minimal exposure of installations

Pipes are brought together in one place to minimize exposure. Hanger covers hide installations to add a clean, sophisticated look. (This product can only be installed on an open ceiling)



INDOOR UNITS SPECIFICATION

ROUND CASSETTE

ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4

Model		Unit	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4		
Caaliaa Caasaitu	Rated	kW	7.1	10.6	14.1		
Cooling Capacity		Btu/h	24,200	36,200	48,100		
Unation Conneite	Rated	kW	8.0	11.9	15.9		
Heating Capacity		Btu/h	27,300	40,600	54,200		
Power Input	H/M/L	W	44 / 36 / 29	63 / 47 / 36	98 / 70 / 44		
Running Current	H/M/L	A	0.47 / 0.40 / 0.32	0.67 / 0.52 / 0.40	0.99 / 0.74 / 0.47		
	Туре	-	3D Turbo Fan	3D Turbo Fan	3D Turbo Fan		
Indoor Fan	Air Flow Rate (H / M / L)	m³/min	22/21/19	27 / 24 / 21	32 / 28 / 23		
	Туре	-	Brushless DC	Brushless DC	Brushless DC		
	Drive	-	Direct	Direct	Direct		
Indoor Fan Motor	Output	W x No.	157 x 1	157 x 1	157 x 1		
	FLA (Full Load Ampere)	A	1.97	1.97	1.97		
	(Rows x Columns x FPI) x No.	-	(3 x 12 x 21) x 1	(3 x 12 x 21) x 1	(3 x 12 x 21) x 1		
Heat Exchanger	Face Area	m ²	0.5	0.5	0.5		
	Net (W x H x D)	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050		
Dimensions	Shipping (W x H x D)	mm	1,137 x 395 x 1,132	1,137 x 395 x 1,132	1,137 x 395 x 1,132		
	Net	kg	30.0	30.0	30.0		
Weight	Shipping	kg	37.9	37.9	37.9		
Exterior	Color (RAL Code)	-	White (9003)	White (9003)	White (9003)		
Air Filter	Туре	-	Long life	Long life	Long life		
Temperature Control		-	Microprocessor, Thermostat for cooling and heating				
Sound Absorbing / Thermal Insulation Mat	terial	-		Foamed polystrene			
Protection Divice		-	Fuse	Fuse	Fuse		
	Туре	-	R410A	R410A	R410A		
Refrigerant	Control Type	-	EEV	EEV	EEV		
Drain Pipe	0.D / I.D	mm (inch)	32 / 25	32 / 25	32 / 25		
	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)		
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)		
Piping Connection	Connection Type (Liquid)	-	Flare	Flare	Flare		
	Connection Type (Gas)	-	Flare	Flare	Flare		
	Cooling (H / M / L)	dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39		
Sound Pressure Level	Heating (H / M / L)	dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39		
	Cooling (H / M / L)	dB(A)	48 / 46 / 43	52 / 48 / 46	56 / 53 / 48		
Sound Power Level	Heating (H / M / L)	dB(A)	48 / 46 / 43	52 / 48 / 46	56 / 53 / 48		
	-	Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/6		
Power Supply	Running Current by voltage	A	0.47 - 0.45 - 0.43	0.67 - 0.64 - 0.61	0.99 - 0.95 - 0.91		
Connecting Cable	Communication Cable (VCTF-SB)	mm ² x cores	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C		

% Panel integrated product% This product can only be installed on an open ceiling



CEILING MOUNTED CASSETTE



Features & Benefits

- Human detection control allowing energy savings through saving operation & comfort through wind direction operation
- New multi-functional 4 Way cassette panel for large sizes with aesthetic shape
- The independent vane operation feature allows user to control vanes by desired and perceptible comfort flow

Key Applications

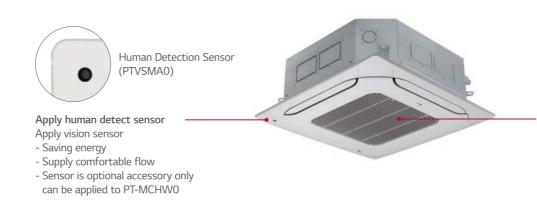
2	
• Retail	• Hotel
• School	 Dormitory
 Office 	 Restaurant

	Cassette	4 Way	2 Way	1 Way
Smart	Wi-Fi	0	0	0
Energy Efficiency	Human Detect Sensor	0	-	-
Health	Auto Cleaning	· ·	0	-
Comfort	Drain Pump	0	0	0
	Sleep Mode	0	0	0
	Timer (On / Off)	0	0	0
	Timer (Weekly)	0	0	0
	Two Thermistor Control	0	0	0
	Group Control	0	0	0

※ ○ : Applied, - : Not applied

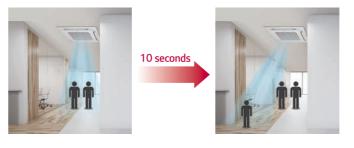
Human Detect Sensor & Humidity Sensor

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



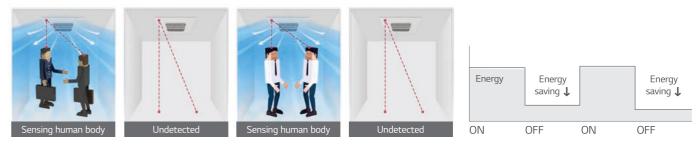
Direction control based on human motion

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



On / Off mode

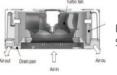
The indoor unit automatically stops when detecting absence. It runs as the s us mode when sensing human body.



Temperature control mode

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





Humidity Senso

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

Detection range



Height 3.2 (15 x 8m)



Height 3.5 (16 x 10m)

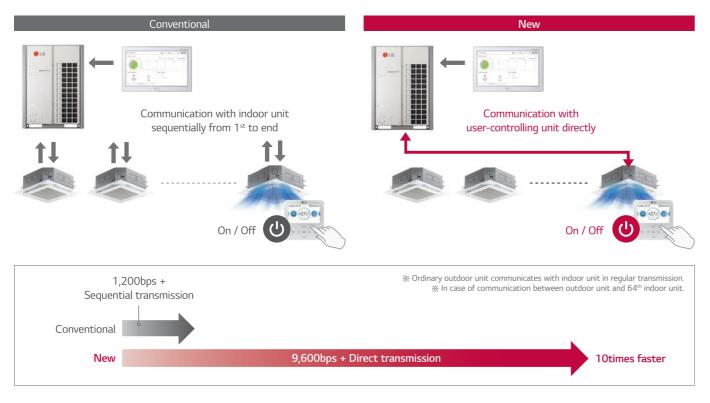


12 x 6m → 6 x 12m detecting

CEILING MOUNTED CASSETTE

Quick Control

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



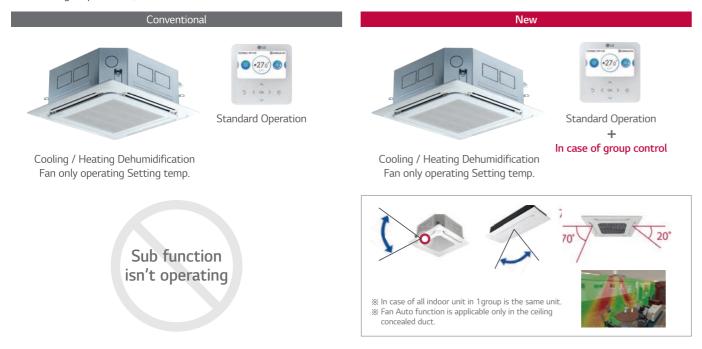
Independent Vane Control

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



Group Control

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



Auto Elevation Grille



INDOOR UNITS

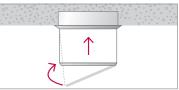
4-Point Support Structure



Memory for User's Level



Auto Leveling



Auto Stop Detection



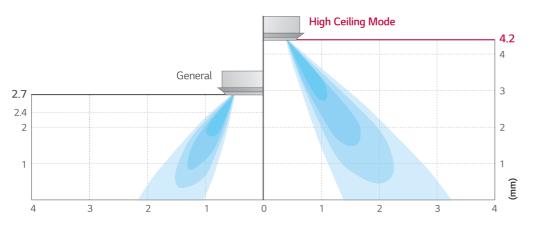
% Operating with wired remote controller (Model Name : PREMTB001, PREMTBB01) and wireless remote controller included in PTEGM0.

 Except ARNU05GTRC4, ARNU07GTRC4, ARNU09GTRC4, ARNU12GTRC4, ARNU15GTQC4, ARNU18GTQC4, ARNU21GTQC4
 Applied to Cassette panel PT-UMC1

CEILING MOUNTED CASSETTE

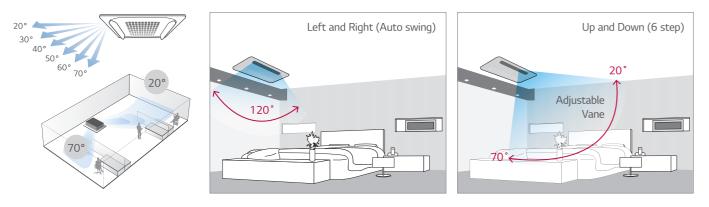
High Ceiling Mode

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



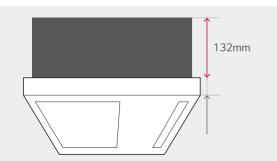
6-Step Vane Control

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



Minimized Height

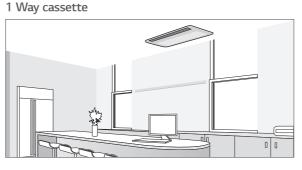
LG 1 Way cassette isn't affected by installation environment. LG 1 Way cassette height is 132mm and duct is 190mm, so it can provide ideal solution for installation in limited space.



Size Comparison (Unit : mm)					
	A company	B company	LG		
1 Way cassette	215	230	132		

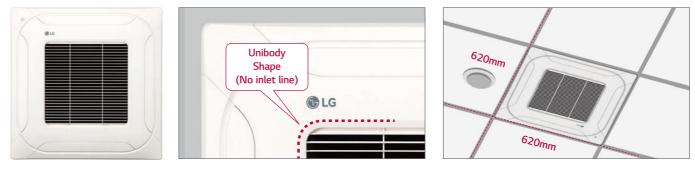
Flexible Installation

The inspection access hole doesn't require additional ducted space allowing for simple installation scene to be possible.



Compact and Stylish Design

New 4 Way cassette panel adapted unibody shape and matching with into the ceiling, panel size is fit into the ceiling tile.



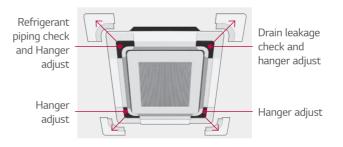
Compact Size

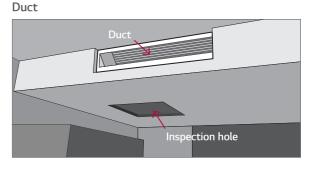
The indoor unit with slim and compact dimensions has reduced the restriction which enables successful installation in vario us spaces.

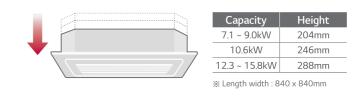
Convenient Panel Installation

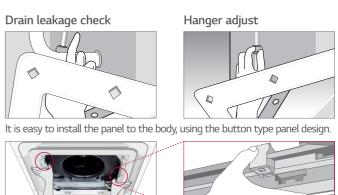
The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

Detachable Corner Design









4 Way CASSETTE (570 X 570)

ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4



Model ARNU07GTRB4 ARNU09GTRB4 ARNU12GTRB4 Unit NU05GTRB4 Cooling Capacity kW 1.6 2.2 2.8 3.6 kW Heating Capacity 1.8 2.5 3.2 4.0 Power Input W 13/12/11 13/12/11 14/13/12 17/15/13 Nominal (H / M / Ľ) 570 x 214 x 570 Body mm Dimensions $(W \times H \times D)$ Shipping mm 667 x 285 x 646 Туре Turbo Fan Turbo Fan Turbo Fan Turbo Fan 43 x 1 Motor Output x Number W 43 x 1 43 x 1 43 x 1 Fan 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 Pre Filter Pre Filter Pre Filter Pre Filter Air Filter Liquid Side mm (inch) Ø6.35 (1/4) Ø6.35 (1/4) Ø6.35 (1/4) Ø6.35 (1/4) Pine 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.) Ø25 (1) Ø25 (1) Ø25 (1) Ø25 (1) mm (inch) Weight Bodv 12.6 12.6 13.7 13.7 ka Sound Pressure Levels (H / M / L) dB(A) 29 / 27 / 26 29 / 27 / 26 30 / 29 / 27 32 / 30 / 27 Sound Power Levels (H / M / L) dB(A) 45 / 43 / 42 45/43/42 46/43/42 48/46/43 1, 220 ~ 240, 50 1, 220 ~ 240, 50 1, 220 ~ 240, 50 1, 220 ~ 240, 50 Power Supply Ø, V, Hz 1, 220, 60 1, 220, 60 1, 220, 60 1, 220, 60 Communication Cable mm² x No. 1.0 ~ 1.5 x 2C PT-UQC PT-QCHW0 PT-UOC PT-UOC PT-UOC Model Name PT-QCHW0 PT-QCHW0 PT-QCHW0 Morning Fog Morning Fog Morning Fog Morning Fog Exterior Color Decoration RAL Code RAL 9001 RAL 9001 RAL 9001 RAL 9001 Panel (Accessory) Net Dimensions 700 x 22 x700 620 x 20 x 620 mm $(W \times H \times D)$ 620 620 620 3.0 / 3.0 3.0 / 3.0 3.0 / 3.0 3.0 / 3.0 Net Weight kg

% Nominal : Performance tested under EN14511

※ Rated : Max. power input allowed for fan motor Note : 1. 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
 2. Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4	
Drain Pump	0				
Cassette Cover		PTD	CQ		
Refrigerant Leakage Detector		PRLDM	IVS0		
EEV Kit		PRGK024A0) (~4.5kW)		
Independent Power Module		PRI	PO		
Robot Cleaner		-			
Pre Filter (Washable / Anti-fungus)		C)		
lon Generator		-			
CO ₂ Sensor		-			
Ventilation Kit		PTVK	430		
IR Receiver		-			
Zone Controller		-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) (NEW) PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)	0				
Wi-Fi	PWFMDD200				

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

1) Available from April 2020

ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4 ARNU15GTQB4 / ARNU18GTQB4 / ARNU21GTQB4

Model		Unit	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Cooling Capad	city	kW	4.5	5.6	6.0
Heating Capacity		kW	5.0	6.3	6.8
Power Input (H / M / L) Nominal W		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
$(W \times H \times D)$	Shipping	mm	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
	Туре		Turbo Fan	Turbo Fan	Turbo Fan
-	Motor Output x Number	W	43 x 1	43 x 1	43 x 1
Fan	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
	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		kg	15.0	15.0	15.0
Sound Pressu	re Levels (H / M / L)	dB(A)	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power	Levels (H / M / L)	dB(A)	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
		<i>a.</i> 1111	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm² x No.	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-UQC PT-QCHW0	PT-UQC PT-QCHW0
Decoration Panel (Accessory)	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0

※ Nominal : Performance tested under EN14511

※ Rated : Max. power input allowed for fan motor Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU15GTQB4
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

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

1) Available from April 2020



ARNU18GTQB4	ARNU21GTQB4
0	
PTDCQ	
PRLDNVS0	
PRGK024A0 (~4.5kW)	
PRIPO	
-	
0	
-	
-	
PTVK430	
-	
-	
PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatil NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	ole)
0	
PWFMDD200	

4 Way CASSETTE (840 X 840)

ARNU24GTPC4 / ARNU28GTPC4 / ARNU30GTPC4 / ARNU36GTNC4



Model		Unit	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4
Cooling Capad	city	kW	7.1	8.2	9.0	10.6
Heating Capa	city	kW	8.0	9.2	10.0	11.9
Power Input (H / M / L)	Nominal	W	18 / 16 / 14	20 / 17 / 15	26 / 24 / 21	70 / 53 / 43
Dimensions	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
$(W \times H \times D)$	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 318 x 917
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
F =	Motor Output x Number	W	30 x 1	30 x 1	30 x 1	135 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	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)	Ø15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25(1)	Ø25 (1)
Weight	Body	kg	20.8	20.8	20.8	23.5
Sound Pressu	re Levels (H / M / L)	dB(A)	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37
Sound Power	Levels (H / M / L)	dB(A)	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54	56 / 53 / 51
		<i>a.v.</i>	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm² x No.	1.0 ~ 1.5 x 2C			
	Model Name		PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
Decoration Panel (Accessory)	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

※ Nominal : Performance tested under EN14511

Rated : Max. power input allowed for fan motor
 Note : 1. Capacities are based on the following conditions

Capacities are based on the following conductors
 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
 Due to our policy of innovation some specifications may be changed without notification
 I.D: 'Internal Diameter'

Accessories

Chassis	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4	
Drain Pump	0				
Cassette Cover		F	TDCM		
Refrigerant Leakage Detector		PR	LDNVS0		
EEV Kit			-		
Independent Power Module			PRIPO		
Robot Cleaner			-		
Pre Filter (Washable / Anti-fungus)	0				
lon Generator	-				
CO ₂ Sensor	- ·				
Ventilation Kit	PTVK430				
IR Receiver			-		
Zone Controller			-		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)	0				
Wi-Fi		PW	MDD200		

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

ARNU42GTMB4 / ARNU48GTMB4 / ARNU54GTMB4

Model		Unit	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Cooling Capacity		kW	12.3	14.1	15.8
Heating Capacity		kW	13.8	15.9	18.0
Power Input (H / M / L) Nominal W		W	86 / 78 / 69	89 / 84 / 78	98 / 92 / 78
Dimensions	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
$(W \times H \times D)$	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
	Туре		Turbo Fan	Turbo Fan	Turbo Fan
F =	Motor Output x Number	W	135 x 1	135 x 1	135 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	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		kg	25.6	25.6	26.5
Sound Pressu	re Levels (H / M / L)	dB(A)	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power	Levels (H / M / L)	dB(A)	58 / 55 / 50	60 / 56 / 55	60 / 58 / 55
		<i>a.v.</i>	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Model Name		PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
Decoration Panel (Accessory)	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 9 50 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

% Nominal : Performance tested under EN14511

Rated : Max. power input allowed for fan motor
 Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU42GTMC4
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

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

1) Available from April 2020



ARNU48GTMC4	ARNU54GTMC4
0	
PTDCM	
PRLDNVS0	
-	
PRIPO	
-	
0	
-	
-	
PTVK430	
-	
-	
PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatib NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	ole)
0	
PWFMDD200	

2 Way CASSETTE

ARNU09GTSC4 / ARNU12GTSC4 ARNU18GTSC4 / ARNU24GTSC4



Model		Unit	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
Cooling Capac	ity	kW	2.8	3.6	5.6	7.1
Heating Capa	city	kW	3.2	4	6.3	8
Power Input (H / M / L)	Nominal	W	16 / 14 / 11	18 / 14 / 11	19 / 16 / 14	31 / 22 / 14
Dimensions	Body	mm	830 x 225 x 600			
$(W \times H \times D)$	Shipping	mm	1,055 x 290 x 682			
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
-	Motor Output x Number	W x No.	37 x 1	37 x 1	37 x 1	37 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air 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)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø12.7 (1/2)	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)	Ø25 (1)
Weight	Body	kg	18.1	18.1	18.1	18.1
Sound Pressu	re Levels (H / M / L)	dB(A)	33 / 31 / 29	34 / 32 / 29	35 / 33 / 31	40 / 37 / 33
Sound Power	Levels (H / M / L)	dB(A)	42 / 40 / 38	43 / 41 / 39	44 / 42 / 40	48 / 45 / 40
Devery Coursela		0.111-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm² x No.	1.0 ~ 1.5 x 2C			
	Model Name		PT-USC	PT-USC	PT-USC	PT-USC
Decoration Panel (Accessory)	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690			
	Net Weight	kg	4.7	4.7	4.7	4.7

% Nominal : Performance tested under EN14511% Rated : Max. power input allowed for fan motor

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4	
Drain Pump	0				
Cassette Cover		-			
Refrigerant Leakage Detector		PRLDI	IVS0		
EEV Kit		PRGK024A0) (~5.6kW)		
Independent Power Module		PRI	PO		
Robot Cleaner		-			
Pre Filter (Washable / Anti-fungus)	0				
Ion Generator					
CO ₂ Sensor	· ·				
Ventilation Kit					
IR Receiver		-			
Zone Controller		-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) (NEW) PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)	0				
Wi-Fi		PWFME	DD200		

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

1) Available from April 2020

1 Way CASSETTE

ARNU07GTUB4 / ARNU09GTUB4 / ARNU12GTUB4 ARNU18GTTB4 / ARNU24GTTB4

Model		Unit	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Cooling Capac	tity	kW	2.2	2.8	3.6	5.6	7.1
Heating Capa	city	kW	2.5	3.2	4.0	6.3	7.1
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	38 / 28 / 24	51 / 33 / 26
Dimensions	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 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	1,499 x 259 x 538	1,499 x 259 x 538
	Туре		Cross Flow Fan				
-	Motor Output x Number	W x No.	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	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter				
	Liquid Side	mm (inch)	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)	Ø15.88 (5/8)
CONNECCIONS	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)				
Weight	Body	kg	13.6	13.6	13.6	15.6	15.6
Sound Pressu	re Levels (H / M / L)	dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power	Levels (H / M / L)	dB(A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	56 / 51 / 48	59 / 53 / 50
		~	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm² x No.	1.0 ~ 1.5 x 2C				
	Model Name		PT-UUC (Grill) PT-UUD (Panel)	PT-UUC (Grill) PT-UUD (Panel)	PT-UUC (Grill) PT-UUD (Panel)	PT-UTC (Grill) PT-UTD (Panel)	PT-UTC (Grill) PT-UTD (Panel)
Decoration Panel	Exterior Color		Noble White				
	RAL Code		RAL 9003				
(Accessory)	Net Dimensions (W x H x D)	mm	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500
	Net Weight	kg	4.6 / 5.3	4.6 / 5.3	4.6 / 5.3	5.5 / 6.5	5.5 / 6.5

% Nominal : Performance tested under EN14511

※ Rated : Max. power input allowed for fan motor Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GTUB4 ARNU09GTUB4 ARNU12GTUB4	ARNU18GTTB4 ARNU24GTTB4
Drain Pump	0	0
Cassette Cover	-	-
Refrigerant Leakage Detector	PRLDNVS0	PRLDNVS0
EEV Kit	PRGK024A0	-
Independent Power Module	PRIPO	PRIPO
Robot Cleaner	-	-
Pre Filter (Washable / Anti-fungus)	0	0
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)	0	0
Wi-Fi	-	-

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

1) Available from April 2020



CEILING CONCEALED DUCT



Features & Benefits

• E.S.P. control function can make air volume controlled easily with remote controller.

Key Applications

- Hotel / Conference Center
- Retail / Shopping Center

Restaurant

Historic Building

Church

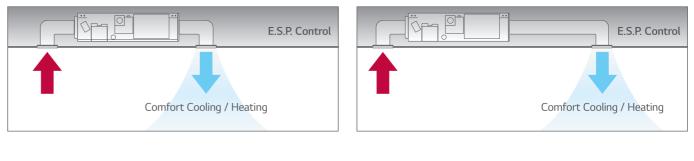
- School
- Office

	Duct	High	Middle	Low
Smart	Wi-Fi	0	0	0
Energy Efficiency	E.S.P. Control	0	0	0
Comfort	Drain Pump	0	0	0
	Timer (On / Off)	0	0	0
	Timer (Weekly)	0	0	0
	Two Thermistor Control	0	0	0
	Group Control	0	0	0

 \otimes \bigcirc : Applied, - : Not applied

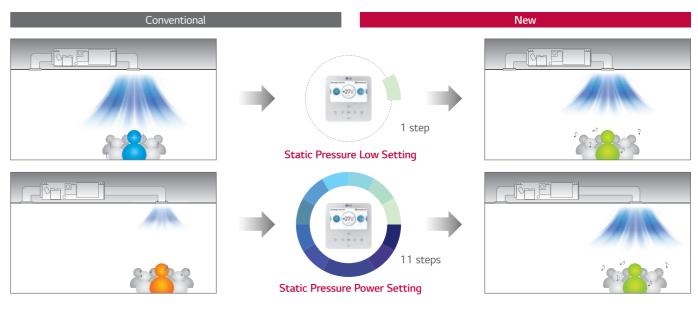
E.S.P.(External Static Pressure) Control

User has an easy access to air volume selection via remote controller secured by the E.S.P. control function. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



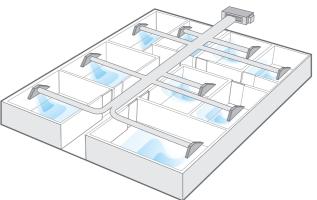
Static Pressure 11 Steps Control

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



Operation for Multiple Rooms

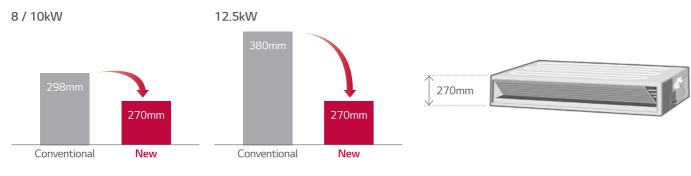
Using a spiral duct (Embedded or Flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



CEILING CONCEALED DUCT

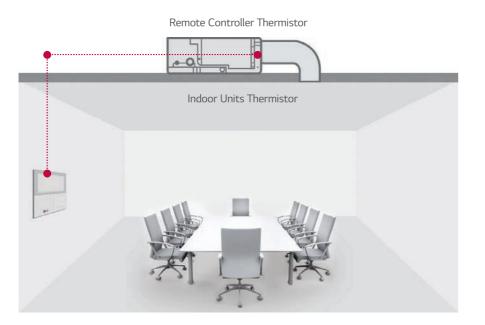
Minimized Height

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



Two Thermistors Control

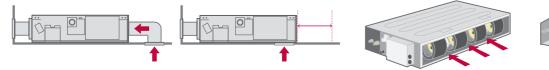
The indoor temperature can be checked using the thermi-stors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimize indoor air temperature for a more comfortable environment.



Flexible Installation (Low Static Duct Only)

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

Air intake at the rear or bottom



INDOOR UNITS SPECIFICATION

HIGH STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4

Model		Unit	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capad	ity	kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31
Dimensions	Body	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
$(W \times H \times D)$	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W × No.	136 x 1	136 x 1	136 x 1
	Air Flow Rate (H / M / L)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	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
	External Static Pressure (Standard Mode)	mmAq (Pa)	2.5 (25)	2.5 (25)	2.5 (25)
	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)	25 (1)	25 (1)	Ø25 (1)
Weight	Body	kg	25.5	25.5	25.5
Sound Pressur	re Levels (H / M / L)	dB(A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23
Sound Power	Levels (H / M / L)	dB(A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52
Downer Cum-Lu		()) / II=	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor

Note: 1. 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

 Due to our policy of innovation some specifications may be changed without notification
 D: 'Internal Diameter'
 The Courd Due to be a first the start of 2.5°C (4.5°F) the start of the first the start of 2.5°C (4.5°F) the start of the first the start of 2.5°C (4.5°F) the start of the first the start of 5.5°C (4.5°F) the start of the first the start of 5.5°C (4.5°F) t

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU07GM1A4
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

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



ARNU09GM1A4	ARNU12GM1A4
0	
-	
PRLDNVS0	
PRGK024A0 (~5.6kW)	
PRIPO	
-	
0	
-	
-	
-	
PWLRVN000	
ABZCA	
PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compa NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	tible)
0	
PWFMDD200	

HIGH STATIC

ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4



Model		Unit	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Cooling Capac	ity	kW	4.5	5.6	7.1
Heating Capa	city	kW	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58
Dimensions	Body	mm	900 x 270 x 700	900 x 270 x 700	900 x 270 x 700
$(W \times H \times D)$	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773	1,100 x 338 x 773
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	136 x 1	136 x 1	136 x 1
	Air Flow Rate (H / M / L)	m³/min	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)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	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)
	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)	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	25.5	25.5	26.5
Sound Pressu	re Levels (H / M / L)	dB(A)	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power	Levels (H / M / L)	dB(A)	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56
Devere Coursela		(1)////-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

※ Nominal : Performance tested under EN14511

* Rated : Max. power input allowed for fan motor

Note: 1. 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
 Due to our policy of innovation some specifications may be changed without notification
 I.D: 'Internal Diameter'

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4		
Drain Pump		0			
Cassette Cover		-			
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit		PRGK024A0 (~5.6kW)			
Independent Power Module		PRIPO			
Robot Cleaner		-			
Pre Filter (Washable / Anti-fungus)	0				
Ion Generator					
CO ₂ Sensor					
Ventilation Kit		-			
IR Receiver		PWLRVN000			
Zone Controller		ABZCA			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)		0			
Wi-Fi		PWFMDD200			

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

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4 ARNU48GM3A4 / ARNU54GM3A4



Model		Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Cooling Capac	ity	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
$(W \times H \times D)$	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				
	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)	Ø25(1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	38.0	38.0	39.5	44.0	44.0
Sound Pressur	re Levels (H / M / L)	dB(A)	36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39
Sound Power	Levels (H / M / L)	dB(A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Denner Correct		0.1/11-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C				

※ Nominal : Performance tested under EN14511

Nominal: Performance tested under EN14511
 Rated : Max. power input allowed for fan motor
 Note : 1. 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

 2. Due to our policy of innovation some specifications may be changed without notification
 3. [D : 'Internal Diameter'
 4. The Green d Diameter'

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU28GM2A4	ARNU3
Drain Pump		
Cassette Cover		
Refrigerant Leakage Detector		
EEV Kit		
Independent Power Module		
Robot Cleaner		
Pre Filter (Washable / Anti-fungus)		
lon Generator		
CO ₂ Sensor		
Ventilation Kit		
IR Receiver		
Zone Controller		
Dry Contact (with Additional Accessory)		
External Input (1 point)		
Wi-Fi		

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





36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
	0		
	-		
	PRLDNVS0		
	-		
	PRIPO		
	-		
	0		
	-		
	-		
	-		
	PWLRVN000		
	ABZCA		
PE PDRYCB300 New P	DRYCB000 (1 point contac 0 (8 points for thermostat PDRYCB320 (Universal in DRYCB400 (2 points input PDRYCB500 (Modbus)	ct) compatible) put) ¹⁾ t)	
	0		
	PWFMDD200		

INDOOR UNITS SPECIFICATION

HIGH STATIC

ARNU48GM3B4 / ARNU54GM3B4 / ARNU76GB8A4 / ARNU96GB8A4



Model		Unit	ARNU48GM3B4	ARNU54GM3B4	ARNU76GB8A4	ARNU96GB8A4
Cooling Capac	ity	kW	14.1	15.8	22.4	28.0
Heating Capao	tity	kW	15.9	18.0	25.2	31.5
Power Input (H / M / L)	Nominal	W	172 / 105 / 65	260 / 215 / 172	765 / 500 / 500	800 / 750 / 750
Dimensions	Body	mm	1,250 x 360 x 700	1,250 x 360 x 700	1,562 x 460 x 688	1,562 x 460 x 688
$(W \times H \times D)$	Shipping	mm	1,450 x 428 x 773	1,560 x 415 x 770	1,806 x 537 x 825	1,806 x 537 x 825
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	500 x 1	500 x 1	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	6 (59)	6 (59)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	5 (49)	5 (49)	15 (147)	15 (147)
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			-	-	Pre Filter	Pre Filter
	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
connections	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25(1)	Ø25 (1)
Weight	Body	kg	44.0	44.0	87.0	87.0
Dower Cumplu		0.1/11-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C			

※ Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor

Note : 1. 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 2. Due to our policy of innovation some specifications may be changed without notification 3. I.D : 'Internal Diameter'

4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU48GM3B4	ARNU54GM3B4	ARNU76GB8A4	ARNU96GB8A4
Drain Pump		0		
Cassette Cover		-		
Refrigerant Leakage Detector		PRLDN	/S0	
EEV Kit		0		
Independent Power Module		PRIP)	
Robot Cleaner		-		
Pre Filter (Washable / Anti-fungus)	0			
Ion Generator				
CO ₂ Sensor	-			
Ventilation Kit				
IR Receiver	PWLRVN000			
Zone Controller	ABZCA			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 point)	0			
Wi-Fi		PWFMD	0200	

※ ○ : Applied, - : Not applied

Option : Refer to model name in table 1) Available from April 2020

LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4

Model		Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Cooling Capac	ity	kW	1.7	2.2	2.8
Heating Capa	city	kW	1.9	2.5	3.2
Power Input (H / M / L)	Nominal	W	29 / 26 / 24	31 / 28 / 24	39 / 29 / 24
Dimensions	Body	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
$(W \times H \times D)$	Shipping	mm	862 x 255 x 781	862 x 255 x 781	862 x 255 x 781
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
Fan	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	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	17.5	17.5	17.5
Sound Pressu	re Levels (H / M / L)	dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power	Levels (H / M / L)	dB(A)	48 / 46 / 45	50 / 47 / 45	53 / 49 / 45
Danna Carala		0.1/11-	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511
 % Rated : Max. power input allowed for fan motor
 Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter' 4. L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

Accessories

Chassis	ARNU05GL1G4
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

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



ARNU07GL1G4	ARNU09GL1G4
0	
-	
PRLDNVS0	
PRGK024A0	
PRIPO	
-	
0	
-	
-	
-	
PWLRVN000	
ABZCA	
PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatil NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	ole)
0	
PWFMDD200	

LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4 / ARNU18GL2G4





Model		Unit	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Cooling Capac	ity	kW	3.6	4.5	5.6
Heating Capa	city	kW	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	W	41 / 34 / 29	56 / 41 / 34	71 / 56 / 41
Dimensions	Body	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700
$(W \times H \times D)$	Shipping	mm	1,062 x 255 x 781	1,062 x 255 x 781	1,062 x 255 x 781
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
Fan	External Static Pressure (High mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
	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	23.0	23.0	23.0
Sound Pressu	re Levels (H / M / L)	dB(A)	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29
Sound Power	Levels (H / M / L)	dB(A)	50 / 47 / 46	54 / 51 / 47	56 / 54 / 51
		<i>a</i>	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Nominal : Performance tested under EN14511
 Rated : Max. power input allowed for fan motor
 Note : 1. Capacities are based on the following conditions

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

D : "Internal Diameter"
 L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

Accessories

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump		0	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		0	
Independent Power Module		PRIPO	
Robot Cleaner		-	
Pre Filter (Washable / Anti-fungus)		0	
Ion Generator			
CO ₂ Sensor			
Ventilation Kit	· · ·		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	0		
Wi-Fi		PWFMDD200	

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

Model		Unit	ARNU21GL3G4	ARNU24GL3G4
Cooling Capac	ity	kW	6.2	7.1
Heating Capad	city	kW	7.0	8.0
Power Input (H / M / L)	Nominal	W	72 / 53 / 48	103 / 63 / 48
Dimensions	Body	mm	1,100 x 190 x 700	1,100 x 190 x 700
$(W \times H \times D)$	Shipping	mm	1,262 x 255 x781	1,262 x 255 x781
	Туре		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m³/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
Fan	External Static Pressure (High Mode)	mmAq (Pa)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m³/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure (Standard Mode)	mmAq (Pa)	0 (0)	0 (0)
	Motor Type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
	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)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	27.0	27.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 29 / 28	36 / 33 / 28
Sound Power	Levels (H / M / L)	dB(A)	59 / 55 / 54	63 / 59 / 55
Dannan Crima I		0.111-	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

 Nominal : Performance tested under EN14511
 Rated : Max. power input allowed for fan motor
 Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification

 D : "Internal Diameter"
 L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

Accessories

Chassis	ARNU21GL3
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

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



3G4	ARNU24GL3G4
()
PRLD	NVS0
PR	PO
C)
PWLR	/N000
ABZ	
PDRYCB000 (1 PDRYCB300 (8 points fo NEW PDRYCB320 PDRYCB400 (2 PDRYCB50	point contact) r thermostat compatible) (Universal input) ¹⁾ 2 points input) 0 (Modbus)
()
PWFM	DD200

LOW STATIC

ARNU07GL4G4 / ARNU09GL4G4 / ARNU12GL5G4

ARNU15GL5G4 / ARNU18GL5G4 / ARNU24GL6G4



Model		Unit	ARNU07GL4G4	ARNU09GL4G4	ARNU12GL5G4
		kW	2.2	2.8	3.6
Cooling Capacity kcal/h Btu/h		kcal/h	1,900	2,400	3,100
		Btu/h	7,500	9,600	12,300
		kW	2.5	3.2	4.0
Heating Capac	ity	kcal/h	2,200	2,800	3,400
		Btu/h	8,500	10,900	13,600
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions	Body	mm	700 x 190 x 460	700 x 190 x 460	900 x 190 x 460
(W x H x D)	-	inch	27.5 x 7.5 x 18.2	27.5 x 7.5 x 18.2	35.4 x 7.5 x 18.2
G :1	Rows x Columns x FPI		(2 x 6 x 14) x 2	(2 x 6 x 14) x 2	(2 x 6 x 18) x 2
Coil	Face Area	m ²	0.12	0.12	0.17
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W × EA	19 x 1	19 x 1	19 x 1+5x 1
	Running Current	A	0.4	0.4	0.76
	Air Flow Rate (H / M / L)	CMM	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
	(High Mode-Factory set) External Static Pressure	cfm	270 / 230 / 200	320 / 250 / 200	360 / 310 / 250
Fan		mmAq (Pa)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode) External Static Pressure	CMM	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
		cfm	270 / 230 / 200	320 / 250 / 200	360 / 310 / 250
		mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Drive		Direct	Direct	Direct
-	Motor Type		BLDC	BLDC	BLDC
Temperature C	Control		Microprocessor Thermostat for cooling and heating	Microprocessor Thermostat for cooling and heating	Microprocessor Thermostat for cooling and heating
Sound Absorb	ing Thermal Insulation Mater	ial	Foamed polystrene	Foamed polystrene	Foamed polystrene
Air Filter			-	-	-
Safety Filter			Fuse	Fuse	Fuse
	Liquid Side	mm (inch)	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)
connections	Drain Pipe (Internal Dia.)	mm	25.0	25.0	25.0
Net Weight		kg (lbs)	14.6 (32.2)	14.6 (32.2)	20 (44.1)
Gross Weight		kg (lbs)	17.8 (39.0)	17.8 (39.0)	22.2 (49.0)
Noise Level (S	ound Pressure, H / M / L)	dB(A)	27 / 26 / 23	30 / 26 / 23	31 / 29 / 26
Power Supply		Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Refrigerant Co	ntrol		EEV	EEV	EEV
Power Cable		mm ²	CV2.5 x 3C	CV2.5 x 3C	CV2.5 x 3C
communicatio	a Cable	mm ²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note : 1. Capacities are based on the following conditions :

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
 Heating : Indoor temp.Indoor 20°C(68°F) DB / 15°C(59°F) WB Outdoor temp. 7°C(44.6°F) DB / 6°C(42.8°F) WB
 Piping Length : Interconnected Pipe Length = 7.5m
 Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.
 Capacities are not capacition

2. Capacities are net capacities

Copacities are net capacities
 Due to our policy of innovation some specifications may be changed without prior notification
 To be added for more available Models
 EEV : Electronic Expansion Valve
 Noise Level is Standard Mode (for actual High Mode (factory set) condition,Noise level may exceed the standard level by 1.5dB(A)

Model		Unit	ARNU15GL5G4	ARNU18GL5G4	ARNU24GL6G4
		kW	4.5	5.6	7.1
Cooling Capacity		kcal/h	3,900	4,800	6,100
		Btu/h	15,400	19,100	24,200
		kW	5.0	6.3	8.0
Heating Capa	city	kcal/h	4,300	5,400	6,900
		Btu/h	17,100	21,500	27,300
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions	Body	mm	900 x 190 x 460	900 x 190 x 460	1,100 x 190 x 460
$(W \times H \times D)$		inch	35.4 x 7.5 x 18.2	35.4 x 7.5 x 18.2	43.3 x 7.5 x 18.2
Call	Rows x Columns x FPI		(2 x 6 x 18) x 2	(2 x 6 x 18) x 2	(2 x 6 x 18) x 2
Coil	Face Area	m ²	0.17	0.17	0.22
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W × EA	19 x 1+5x 1	19 x 1+5x 1	19 x 2
	Running Current	A	0.76	0.76	0.97
	Air Flow Rate (H / M / L)	CMM	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
	(High Mode-Factory set) External Static Pressure	cfm	450 / 360 / 810	530 / 450 / 360	710 / 570 / 430
Fan		mmAq (Pa)	1 (10)	1 (10)	1 (10)
	Air Flow Rate (H / M / L) (Standard Mode) External Static Pressure	CMM	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
		cfm	450 / 360 / 810	530 / 450 / 360	710 / 570 / 430
		mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Drive		Direct	Direct	Direct
h	Motor Type		BLDC	BLDC	BLDC
Temperature (Control		Microprocessor Thermostat for cooling and heating	Microprocessor Thermostat for cooling and heating	Microprocessor Thermostat for cooling and heating
Sound Absorb	oing Thermal Insulation Mater	ial	Foamed polystrene	Foamed polystrene	Foamed polystrene
Air Filter			-	-	-
Safety Filter			Fuse	Fuse	Fuse
	Liquid Side	mm (inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
Pipe Connections	Gas Side	mm (inch)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
Connections	Drain Pipe (Internal Dia.)	mm	25.0	25.0	25.0
Net Weight		kg (lbs)	20 (44.1)	20 (44.1)	22 (48.5)
Gross Weight		kg (lbs)	22.2 (49.0)	22.2 (49.0)	25.8 (56.9)
Noise Level (S	Sound Pressure, H / M / L)	dB(A)	34 / 31 / 29	36 / 34 / 31	39 / 35 / 32
Power Supply		Ø, V, Hz	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Refrigerant Co	ontrol		EEV	EEV	EEV
Power Cable		mm ²	CV2.5 x 3C	CV2.5 x 3C	CV2.5 x 3C
communication Cable		mm ²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Note : 1. Capacities are based on the following conditions :

2: 1. 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
 Heating : Indoor temp.Indoor 20°C(68°F) DB / 6°C(42.8°F) WB
 Outdoor temp. 7°C(44.6°F) DB / 6°C(42.8°F) WB
 Piping Length : Interconnected Pipe Length = 7.5m
 Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.

 Capacities are net capacities

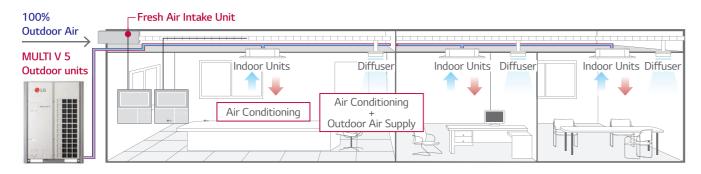
Capacities are net capacities
 Due to our policy of innovation some specifications may be changed without prior notification
 To be added for more available Models
 EEV :Electronic Expansion Valve
 Noise Level is Standard Mode (for actual High Mode (factory set) condition,Noise level may exceed the standard level by 1.5dB(A)



FRESH AIR INTAKE UNIT

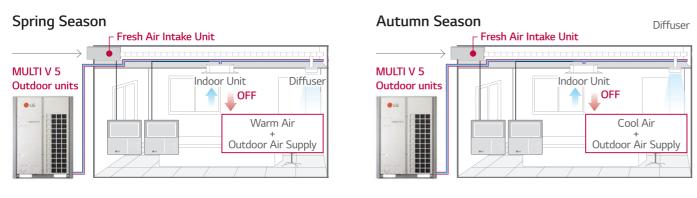
Fresh Outdoor Air Supply

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

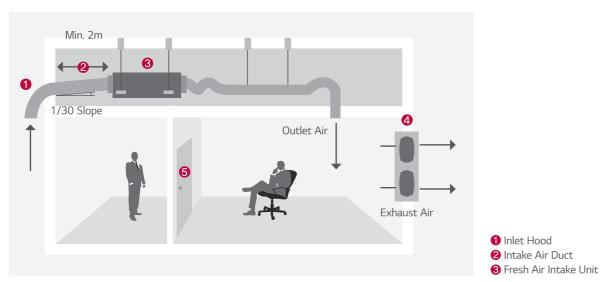


Economic Operation

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



Installation Scene



INDOOR UNITS SPECIFICATION

FRESH AIR INTAKE UNIT

ARNU76GB8Z4 / ARNU96GB8Z4

Model		Unit	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capac	ity	kW	22.4	28.0
Heating Capac	tity	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
$(W \times H \times D)$	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-Factoty 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 Pressur	re Levels (H / M / L)	dB(A)	45 / 43 / 43	47 / 45 / 45
Sound Power	Levels (H / M / L)	dB(A)	70 / 67 / 67	72 / 70 / 70
Power Supply		a.v.u	1, 220 ~ 240, 50	1, 220 ~ 240, 50
		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511% Rated : Max. power input allowed for fan motor

Note: 1. Capacities are based on the following conditions

 Cooling: Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Heating: Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 Capacities are net capacities

3. Noise Level is under standard mode [For actual High Mode (Factory set) condition, Noise Level may exceed the standard level by 1.5dB(A)] 4. Due to our policy of innovation some specifications may be changed without prior notification.

5. I.D : 'Internal Diameter'

ACAUTION

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 Combination otal capcity of fresh air intak unit should be 50 ~ 100% of outdoor unit. 2) The max quantity of fresh air intake is 4 units. or units (Standard Indoor Unit + Fresh Air Intake Unit) should be 50 ~ 100% of outdoor unit. of fresh air intake unit should be less than 30% of the total capacity of indoor units.

No	Connection Condition	
1	Fresh air intake units only are connected with outdoor units	1) The tot
2	Mixture connection with general indoor unit and fresh intake units	 The total capacity of indoor The total capacity o

Accessories

Chassis	ARNU76GE
Drain Pump	
Cassette Cover	
Refrigerant Leakage Detector	
EEV Kit	
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	
Ventilation Kit	
IR Receiver	
Zone Controller	
Dry Contact (with Additional Accessory)	
External Input (1 point)	
Wi-Fi	

Option : Refer to model name in table

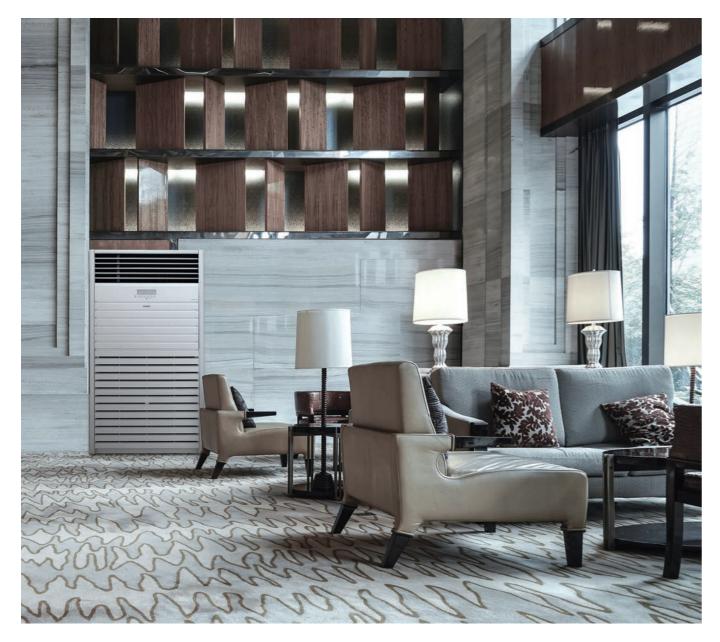
4 Exhaust Fan

6 Door



38Z4	ARNU96GB8Z4
C)
-	
PRLDI	NVS0
-	
PRI	P0
-	
C)
-	
-	
-	
PWLRV	/N000
-	
PDRYCB000 (1 PDRYCB300 (8 points for PDRYCB400 (2 PDRYCB500	point contact) thermostat compatible) 2 points input) (Modbus)
C)
PWFMD	DD200

FLOOR STANDING UNIT



Features & Benefits

• The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.

Key Applications

- Retail
- Shop
- Office
- Restaurant

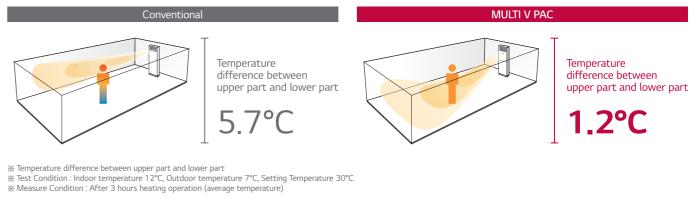
Simple & Elegant Design

With its stylish design, LG's new floor standing air conditioner enhances the overall indoor interior.



Less Temperature Difference

Power cooling and heating will minimize the temperature difference between upper part and lower part of the room.



15m Long Power Cooling

The new LG floor standing unit is efficient for using in large areas due to its powerful cooing and heating operation. The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.



% Based on 131.8m²



Туре	Floor Standing
Air Flow (m³/min)	37
Air Speed (m/s)	4.5

FLOOR STANDING UNIT

ARNU48GPTA4 ARNU96GPFA4



Model	Indepno	lent Unit		ARNU48GPTA4	ARNU96GPFA4
c ::	Cooling	Nom	kW	14.1	28.0
Capacity	Heating	Nom	kW	15.9	31.5
	Cooling	Nom	W	250	400
Deverse la sevet	Heating	Nom	W	250	400
Power Input	Cooling	Rated	W	250	400
	Heating	Rated	W	250	400
Power Supply			Ø, V, Hz	1, 220, 60	1, 220, 60
A: (I D)	Cooling	Power / H / M / L	m³/min	37 / 33 / 28 / 24	68 / 61 / - / 50
Airflow Rate	Heating	Power / H / M / L	m³/min	37 / 33 / 28 / 24	68 / 61 / - / 50
Sound Pressure		Power / H / M / L	dB(A)	54 / 51 / 49 / 45	60 / 57 / - / 53
Dimension	Body	W×H×D	mm	590 x 1,840 x 440	1,050 x 1,880 x 495
Net Weight			kg	48.0	113.0
	Liquid		mm	9.52	9.52
Piping Connection	Gas		mm	15.88	22.2
connection	Drain	I.D	mm	-	-

% This product contains Fluorinated Greenhouse Gases. (R410A)
% Nom.: Performance tested under EN14511
% Rated : Max power input allowed for fan motor
Note : 1. 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 / 19°C (56.2°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
2. Due to our policy of innovation some specifications may be changed without notification
3. I.D : 'Internal Diameter'

Accessories

Model				ARNU07GCE [*]	*4	ARM	IU09GCE*4	
Simple (1 Contact Point with Case)					PDRYCE	3000		
Dry	2 Contact Point					PDRYCE	3400	
Contact						PDRYCB300 / NE	PDRYCB320	
Modbus Communication					PDRYCE	3500		
EEV Kit fo	or MULTI V	Indoor		· ·				
IR Receive	IR Receiver					PWLRV	000	
Prem	ium	Stand	ard III	Wired Remote (Stand	Controller Iard II	Simple	Simple for Hotel	Wireless Remote Controller
253) == •				944 944				
PREMTA PREMTA PREMTA	A000A	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

CEILING SUSPENDED UNIT



Features & Benefits

• The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.

Key Applications

- Retail
- Shop
- Office
- Restaurant

Differentiated Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner exudes modern elegance appropriate for any space. The tasteful aesthetics of the air conditioner helped earn it the iF Design Award.



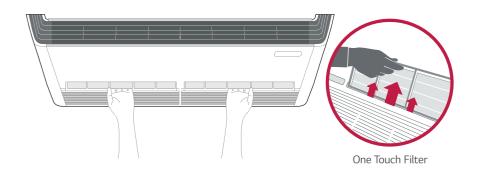
Powerful Cooling & Heating

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



One Touch & 2 Piece Filter

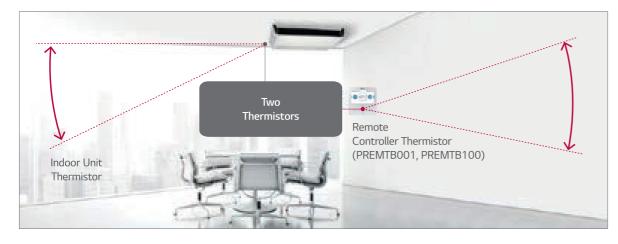
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



CEILING SUSPENDED UNIT

Two Thermistors Control

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



Wi-Fi Control

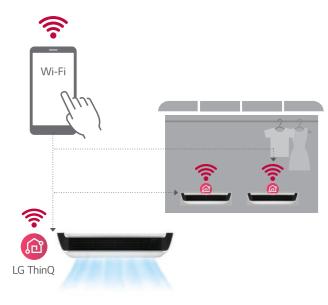
Control your air conditioners via using the smart internet devices as Android or iOS based smartphones. This advanced technology provides you the best convenience.

LG ThinQ

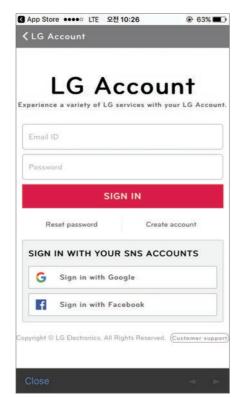


Search "LG ThinQ" on Google market or Appstore then download the app.

Access your air conditioner anytime and from anywhere



Easy Registration and Log-in Follow the easy set-up steps that will activate LG ThinQ's impressive feature.



CEILING SUSPENDED UNIT

ARNU18GV1A4 / ARNU24GV1A4 ARNU36GV2A4 / ARNU48GV2A4



Model		Unit	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Cooling Capac	ity	kW	5.6	7.1	10.6	14.1
Heating Capa	tity	kW	6.3	8.0	11.9	15.9
Power Input (H / M / L)	Nominal	W	23 / 20 / 17	25 / 21 / 17	84 / 77 / 66	91 / 79 / 66
Exterior Color			Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL code			RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions	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
$(W \times H \times D)$	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
F	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1	125 x 1	125 x 1
Fan	Air Flow Rate (H / M / L)	m³/min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0	27.0 / 24.0 / 20.0	29.0 / 24.0 / 20.0
	Motor Type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
	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	48 / 46 / 44	49 / 47 / 44
Sound Power	Levels (H / M / L)	dB(A)	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64	68 / 67 / 66
Downer Currele		(1) / 1 -	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C			

% Nominal : Performance tested under EN14511

Rated : Max. power input allowed for fan motor
 Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (86.6°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
 2. Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Drain Pump		-		
Cassette Cover		-		
Refrigerant Leakage Detector		PRLDNVSO		
EEV Kit		-		
Independent Power Module		PRI	0	
Robot Cleaner				
Pre Filter (Washable / Anti-fungus)	0			
lon Generator				
CO ₂ Sensor				
Ventilation Kit				
IR Receiver		-		
Zone Controller		-		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) (NEW) PDRYCB320 (Universal input) 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

1) Available from April 2020

CEILING & FLOOR CONVERTIBLE UNIT

ARNU09GVEA4 / ARNU12GVEA4

Model		Unit	ARNU09GVEA4	ARNU12GVEA4
Cooling Capac	ity	kW	2.8	3.6
Heating Capad	city	kW	3.2	4.0
Power Input (H / M / L)	Nominal	W	19/15/11	28 / 19 / 15
Exterior Color			Morning Fog	Morning Fog
RAL code			RAL 9001	RAL 9001
Dimensions	Body	mm	900 x 490 x 200	900 x 490 x 200
$(W \times H \times D)$	Shipping	mm	975 x 279 x 562	975 x 279 x 562
	Туре		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	27 x 1	27 x 1
Fan		m³/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
	Air Flow Rate (H / M / L)	cfm	268 / 244 / 219	325 / 268 / 244
	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)	Ø16 (5/8)	Ø16 (5/8)
Weight	Body	kg	13.3	13.3
Sound Pressur	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
		<i>a.</i> 1111	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor Note : 1. 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
 Due to our policy of innovation some specifications may be changed without notification 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU09GVEA4	ARNU12GVEA4
Drain Pump	-	
Cassette Cover		
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRGK024A0	
Independent Power Module	PRIPO	
Robot Cleaner		
Pre Filter (Washable / Anti-fungus)	0	
lon Generator		
CO ₂ Sensor		
Ventilation Kit		
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) (NEW) PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	0	
Wi-Fi	PWFMDD200	1)

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



INDOOR UNITS

CONSOLE & FLOOR STANDING UNIT



Features & Benefits

- Ideal for Installation Beneath a Window
- Unit Requires Minimal Installation Space
- Fitted with a Washable Long-life Filter

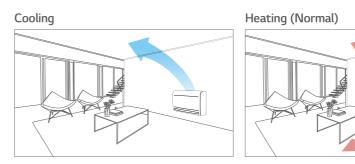
Key Applications

- School
- Office
- Church
- Historic Building

Flo	oor standing	Console	Floor Standing Unit
Smart	VVi-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

Installation Support Clip

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.



Block Cold Draft

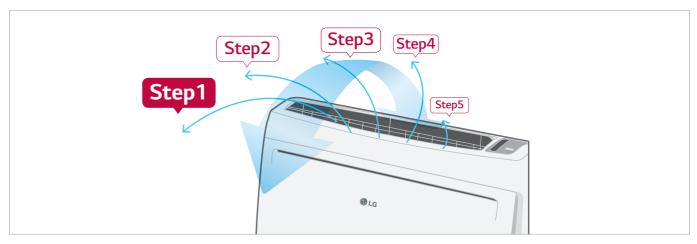
The console can block cold drafts from windows to provide a warmer environment for places such as libraries and offices.

Without Console

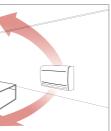


5-Step Vane Control

There are 5 different stages to control air flow direction.



※ ○ : Applied, - : Not applied



Heating (Option)



With Console

CONSOLE & FLOOR STANDING UNIT

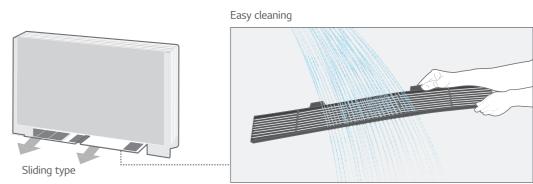
3 Way Flexible Installation

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)



Sliding Type Filter

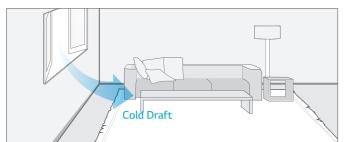
Easy maintenance and extended product life with sliding type filter.



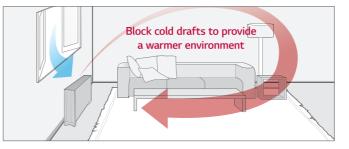
Block Cold Draft

The floor standing unit can block cold drafts from windows to provide a warmer environment for places such as libraries and offices.

Without Floor Standing

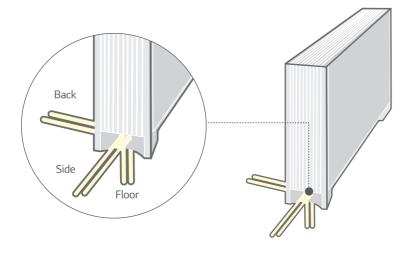






3 Way Flexible Installation

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



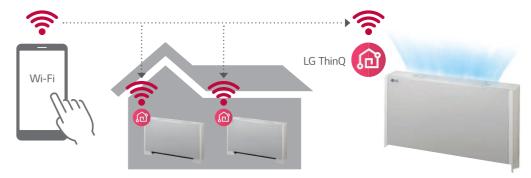
Wi-Fi Control

Control your air conditioners via using the smart internet devices as Android or iOS based smartphones. This advanced technology provides you the best convenience.

LG ThinQ

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

Access your air conditioner anytime and from anywhere







ARNU07GQAA4 / ARNU09GQAA4

ARNU12GQAA4 / ARNU15GQAA4

1	

Model		Unit	ARNU07GQAA4	ARNU09GQAA4
Cooling Capacity kV		kW	2.2	2.8
Heating Capao	tity	kW	2.5	3.2
Power Input (H / M / L)	Nominal	W	15 / 12 / 10	15/12/10
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions	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	Туре		Turbo fan	Turbo fan
Fan	Motor Output x Number	W x No.	48 x 1	48 x 1
FdII	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
	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 Pressur	re 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
Dower Cumplu		Ø. V. 11-	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

X Nominal : Performance tested under EN14511

Accessories

Chassis	ARNU07GQAA4	ARNU15GQAA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDN	VS0
EEV Kit	PRGK02	24A0
Independent Power Module	PRIPO	
Robot Cleaner		
Pre Filter (Washable / Anti-fungus)	0	
Ion Generator	0	
CO ₂ Sensor		
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) VEW PDRYCB320 (Universal input) ¹¹ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	0	
Wi-Fi	PWFMDI	D200

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

Model		Unit	ARNU12GQAA4	ARNU15GQAA4
Cooling Capac	ity	kW	3.6	4.5
Heating Capac	city	kW	4.0	5.0
Power Input (H / M / L)	Nominal	W	18 / 15 / 13	24 / 19 / 17
Exterior Color			Morning Fog	Morning Fog
RAL Code			RAL 9001	RAL 9001
Dimensions	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
F	Motor Output x Number	W x No.	48 x 1	48 x 1
Fan	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	kg	14.0	14.0
Sound Pressur	re Levels (H / M / L)	dB(A)	39 / 34 / 28	42 / 37 / 31
Sound Power	Levels (H / M / L)	dB(A)	56 / 50 / 44	58 / 53 / 50
Denne Correla		0.111-	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	on Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

% Nominal : Performance tested under EN14511

Wominal: Performance tested under EN14511
 Rated : Max. power input allowed for fan motor
 Note : 1. 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

 2. Due to our policy of innovation some specifications may be changed without notification
 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU12GQAA4	ARNU15GQAA4		
Drain Pump	-			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVSO			
EEV Kit	PRGK024A0			
Independent Power Module	PRIPO			
Robot Cleaner	-			
Pre Filter (Washable / Anti-fungus)	0			
lon Generator	0			
CO ₂ Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point of PDRYCB300 (8 points for therm (New) PDRYCB320 (Unive PDRYCB400 (2 points PDRYCB500 (Mod	contact) ostat compatible) rsal input) is input) bus)		
External Input (1 point)	0			
Wi-Fi	PWFMDD200			

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



FLOOR STANDING UNIT

ARNU07GCEA4 / ARNU09GCEA4 / ARNU12GCEA4 ARNU15GCEA4 / ARNU18GCFA4 / ARNU24GCFA4



% A : Floor Standing with case

Model		Unit	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Cooling Capac	ity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating Capac	ity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input (H / M / L)	Nominal	W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Exterior Color			Morning Fog	Morning Fog				
RAL Code			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				
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				
	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	27.0	27.0	27.0	27.0	34.0	34.0
Sound Pressur	re 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 I	Levels (H / M / L)	evels (H / M / L) dB(A)		54 / 51 / 47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Douvor Cupplu		(1) / LI=	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C				

% Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor

Note : 1. 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 2. Due to our policy of innovation some specifications may be changed without notification

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GCEA4 ARNU09GCEA4 ARNU12GCEA4 ARNU15GCEA4	ARNU18GCFA4 ARNU24GCFA4		
Drain Pump	-	-		
Cassette Cover	-	-		
Refrigerant Leakage Detector	PRLDNVS0	PRLDNVS0		
EEV Kit	PRGK024A0	-		
Independent Power Module	PRIPO	PRIPO		
Robot Cleaner	-	-		
Pre Filter (Washable / Anti-fungus)	0	0		
lon Generator	-	-		
CO ₂ Sensor	-	-		
Ventilation Kit	-	-		
IR Receiver	PWLRVN000	PWLRVN000		
Zone Controller	-	-		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB500 (Modbus)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	0	0		
Wi-Fi	PWFMDD200	PWFMDD200		

※ ○ : Applied, - : Not applied

Option : Refer to model name in table 1) Available from April 2020

ARNU07GCEU4 ARNU09G Model Unit Cooling Capacity kW 2.2 2.8 Heating Capacity kW 2.5 3.2 Power Input 24 / 17 / 14 30/24/ W Nominal (H / M / L) 978 x 639 x 190 978 x 639 x Dimensions Body mm $(W \times H \times D)$ Shipping 1,055 x 702 x 260 1,055 x 702 x mm Туре Sirocco Fan Sirocco Far 19 x 1, 5 x 1 19 x 1. 5 x Motor Output x Number W x No. Fan Air Flow Rate (H / M / L) m³/min 8.5 / 7.5 / 6.5 9.5 / 8.5 / Motor Type BLDC BLDC Air Filter Pre Filter Pre Filter Liauid Side Ø6.35 (1/4) Ø6.35 (1/4 mm (inch) Pipe Gas Side mm (inch) Ø12.7 (1/2) Ø12.7 (1/2 Connections Drain Pipe (Internal Dia.) mm (inch) Ø12 (15/32) Ø12 (15/3 Body 20.0 20.0 Weight kq Sound Pressure Levels (H / M / L) dB(A) 35 / 33 / 31 36 / 34 / 3 Sound Power Levels (H / M / L) dB(A) 52/47/43 54 / 51 / 4 1, 220 ~ 240, 50 1.220~240 Power Supply Ø, V, Hz 1, 220, 60 1, 220, 60 Communication Cable mm² x No. 1.0 ~ 1.5 x 2C 1.0 ~ 1.5 x

ARNU07GCEU4 / ARNU09GCEU4 / ARNU12GCEU4

ARNU15GCEU4 / ARNU18GCFU4 / ARNU24GCFU4

※ Nominal : Performance tested under EN14511

% Rated : Max. power input allowed for fan motor

Note : 1. 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
 2. Due to our policy of innovation some specifications may be changed without notification 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GCEU4 ARNU09GCEU4 ARNU12GCEU4 ARNU15GCEU4	ARNU18GCFU4 ARNU24GCFU4	
Drain Pump	-	-	
Cassette Cover	· ·	-	
Refrigerant Leakage Detector	PRLDNVSO	PRLDNVS0	
EEV Kit	PRGK024A0	-	
Independent Power Module	PRIPO	PRIPO	
Robot Cleaner	· ·	-	
Pre Filter (Washable / Anti-fungus)	0	0	
lon Generator	· ·	-	
CO ₂ Sensor	· ·	-	
Ventilation Kit	· ·	-	
IR Receiver	PWLRVN000	PWLRVN000	
Zone Controller	· ·	-	
PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB320 (Universal input) ¹⁾ PDRYCB400 (2 points input) PDRYCB400 (Modbus)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) NEW PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	0	0	
Wi-Fi	PWFMDD200	PWFMDD200	

※ ○ : Applied, - : Not applied

Option : Refer to model name in table 1) Available from April 2020



※ U : Floor Standing without case

CEU4	ARNU12GCEU4	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
	3.6	4.5	5.6	7.1
	4.0	5.0	6.3	8.0
17	36 / 30 / 24	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
(190	978 x 639 x 190	978 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190
x 260	1,055 x 702 x 260	1,055 x 702 x 260	1,333 x 702 x 260	1,333 x 702 x 260
an	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
x 1	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 2	19 x 2
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
	BLDC	BLDC	BLDC	BLDC
r	Pre Filter	Pre Filter	Pre Filter	Pre Filter
(4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)	Ø12 (15/32)
	20.0	20.0	26.0	26.0
32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
47	54 / 51 / 50	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
0, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50	1, 220 ~ 240, 50
50	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

COMPATIBILITY

	New		Required	Controller	
No.	Function Name (4 th generation indoor)	Function Description	Wired Remote Controller	Centralized Controller	Remarks
1	Energy Monitoring (Accumulated Electric	Monitoring accumulated power consumption by Wired Remote Controller	0	0	* Neccesary to install the PDI (Power Distribution Indicator) and central controller * Combined with MULTI V Water S outdoor unit, this function is not available.
	Energy Check)	Monitoring accumulated power consumption by Central Control Device / PDI	-	0	* Neccesary to install the PDI (Power Distribution Indicator) * To make a report, central controller must be installed
2	2 Set Point	 2 set point control by Indoor and Central controller 2) Synchronization function with remote control (Synchronization Setting and Monitoring) 	0	0	* Wired remote controller and central controller must be installed * Combined with MULTI V Water S outdoor unit, this function is not available.
3	Occupied / Unoccupied Scheduling Function (Sub Func. Enable)	 Synchronization according to occupied / unoccupied by Indoor and Central control Synchronization icon with remote controller (Synchronization Monitoring) 	0	0	 Centralized control is able to when you combine only 4th generation indoor units (Use together with 2nd generation and 4th generation indoors, only wired remote controller is able to set this function as existing way) Wired remote controller or central controller must be installed (Function can be activeated using just one control device.) Combined with MULTI V Water S outdoor unit, this function is not available.
4	Group Control	Group Control can use Additional function	0	0	* Check more details in PDB (Product Data Book) * Central controller can create and control group.
5	Test Run (Heating)	Test run mode can be operated in cooling mode and heating mode for easy service	0	-	
6	Model Information Monitoring	Product Type / Indoor Type / Indoor capacity information can be monitored by remote controller	0	-	
7	Indoor unit address checking	Wired remote controller can check indoor unit address information	0	-	
8	Refrigerant Leakage Detection	Function error sign display when refrigerant leakage occurred	0	0	 Central controller has been installed, CH230 error code can be recognized (Old/New Same) Without Central Controller, it is able to recognize with wired remote controller (CH230) Combined with MULTI V Water S outdoor unit, this function is not available. Accessory PRLDNVS0 must be separately ordered
9	Thermo On / Off range Setting (Cooling)	User can set cooling thermo On / Off range with wired remote controller for prevention overcooling	0	-	* Thermo On / Off temperature setting (3 step)
10	Thermo On / Off range Setting (Heating)	User can set heating thermo On / Off range with wired remote controller for prevention overheating. (4 Steps)	0	-	* Thermo On / Off temperature setting (4 step)
11	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	Depends on the installation environment, 4 th generation Ceiling Concealed Duct can control the static pressure by 11 steps for providing comfortable environment	0	-	* Only applied in Ceiling Concealed Duct
12	1 point External Input (On / Off control)	Indoor unit can control external devices without purchasing Dry contact as an accessory (All 4 th generation indoors)	0	-	 * Simple On / Off control by Dry Contact at Indoor [Example of Contact port by product type] * 2 Way Cassette : CN-CC Port (Wired remote controller installation function mode 41 is required) * 1 Way / 4 Way Cassette / Ceiling Concealed Duct / Wall Mounted Unit Console / FAU / Floor Standing (with case / without case) : CN-EXT Port
13	Filter Sign (Remaining Time)	The alarm activates when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen.	0	0	* The alarm activates on the central controller, but the remaining time is not displayed.
14	Auto restart function Disable / Enable	After the power failure compensation, stand by at OFF mode Restore the operation for the status before the power off	0	-	
15	Indoor Humidity display	Monitoring indoor humidity Wired Remote Controller	0	0	* Available only with MULTI V 5
16	Comfort Cooling setting	set the outdoor unit Comfort cooling operation value	0	0	* Available only with MULTI V 5
17	Smart Load Control setting	Change the outdoor unit's Smart Load Control stage value.	0	0	* Available only with MULTI V 5
18	ODU Refrigerant Noise Reduction setting	set the outdoor unit's refrigerant noise reduction function	0	0	* Available only with MULTI V 5
19	Low noise mode time setting	set the start and end time of the outdoor unit's low noise mode operation	0	0	* Available only with MULTI V 5

Note : 1. No.1, 2, 3, 8 : Functions are available to use together with 4th generation Indoor units only. If used together 2nd generation indoor unit and 4th generation indoor unit functions will not be activate. Combined with MULTI V WATER S outdoor unit this function is not available
 No. 4, 5, 6, 7, 9, 10, 11, 12, 13, 14 : If used together 2nd generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation indoor unit the set functions will be activate only in 4th generation indoor unit and 4th generation indoor unit and 4th generation indoor unit these functions will be activate only in 4th generation indoor unit and 4th generation ind

FEATURE FUNCTIONS

	Wire	d Remote Contr	oller		Centralized Controller						
Premium	Standard III	Standard II	Sim	ple							
	PREMTB100) PREMTBB10)	(PREMTBB01)	Simple for Hotel (PQRCHCA0Q /QW)	Simple (PQRCVCLOQ /QW)	AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart 5 (PACS5A000)	ACP 5 (PACP5A000)	AC Manager 5 (PACM5A000)		
0	0	0	-	-	-	0	0	0	0		
-	-	-	-	-	-	0	0	0	0		
0	0	-	-	-	-	0	0	0	0		
0	0	-	-	-	-	0	0	0	0		
0	0	0	-	-	-	-	0	0	0		
0	0	0	-	-	-	-	-	-	-		
0	0	0	-	-	-	-	-	-	-		
0	0	0	-	-	-	-	-	-	-		
0	0	0	-	-	-	-	0	0	-		
0	0	0	-	-	-	-	-	-	-		
○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	○ (3 step)	-	-	-	-	-		
0	0	0	0	0	-	-	-	-	-		
-	0	0	-	-	-	-	-	-	-		
0	0	0	-	-	0	0	0	0	0		
0	0	0	-	-	-	-	-	-	-		
-	0	-	-	-	-	-	0	0	-		
-	0	-	-	-	-	-	0	0	-		
-	0	-	-	-	-	-	0	0	-		
-	0	-	-	-	-	-	0	0	-		
-	0	-	-	-	-	0	0	0	-		

 $\circledast \bigcirc$: Applied, - : Not applied

COMPATIBILITY

<u>\</u>		Premium	Standard III	Standard II	Simple	Simple for Hotel	Wireless		Dry C	ontact	
	Controller			. 5.						1	
Produ	uct	PREMTA000 PREMTA000 PREMTA000	A PREMTBB10 PREMTB1	00 PREMTBB01 PREMTB001	PQRCVCLOQ PQRCVCOQW	PQRCHCA0Q PQRCHCA0QW	(PWLSSB21H(H/P) PWLSSB21C(C/O)	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300 (CEN) PDRYCB320 ²⁾	For Modbus PDRYCB500
	ARNUZ ARNUZ Smart Dual Vain ARNUZ	24GTBB4 28GTBB4 30GTBB4 36GTBB4 42GTBB4 48GTBB4	0	0	0	0	0	0	0	0	0
Ceiling Mounted	ARNU3	24GTYA4 36GTYA4 O 48GTYA4	0	0	0	0	0	0	0	0	0
Cassette	ARM	NU-A4 NU-C4 NU-D4	0	0	0	0	0	0	0	0	0
	2 Way / 1 Way	NU-C4 O	0	0	0	0	0	0	0	0	0
	-	NU-A4 O	0	0	0	0	Δ	0	0	0	0
Ceiling Concealed Duct	-	NU-A4 O	0	0	0	0	Δ	0	0	0	0
		NU-G4 O	0	0	0	0	Δ	0	0	0	0
FAU (Fresh Air intake Unit)	ARN	NU-Z4 O	0	0	0	0	Δ	0	0	0	0
Convertible & Ceiling Suspended Unit	ARN	NU-A4 O	0	0	0	0	0	0	0	0	0
Console	ARM	NU-A4 O	0	0	0	0	0	0	0	0	0
Floor Standing Unit		NU-A4 NU-U4	0	0	0	0	0	0	0	0	0
	ARN	NU-A4 O	0	0	0	0	0	0	0	0	0
Wall Mounted Unit	ARM	NU-R4 O	0	0	0	0	0	0	0	0	0
	ARN	NU-A4 NU-C4 NU-N4	0	0	0	0	0	0	0	0	0
HYDRO KIT ¹⁾	ARNH-A4	-	-	-	-	-	-	0	-	0	-
	Energy Recovery Ventilator	•	0	0	-	-	-	0	-	-	0
Ventilation	Energy Recovery Ventilator with DX coil	•	0	0	-	-	-	0	-	-	0
AHU Comm	unication Kit	•••	0	0	-	-	Δ	-	-	-	-

FEATURE FUNCTIONS

C			Wire	ed Remote Contro	oller		Wireless	
Controlle	r Name	Premium	Standard III	Standard II	Simple	Simple (Hotel)	Remote Controller	Wi-Fi Controller
Model Na	ıme	200 000 000					(1) (1) (1) (1) (1) (1) (1) (1)	ere ••
		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	NEW 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 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	-	-	-	-	-
	Wifi AP mode setting	0	0	0	0	0	0	-
	Operation Status LED	0	0	0	0	0	-	-
	Wireless Remote Controller Receiver	O ³⁾	-	O ³⁾	O ³⁾	O 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 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-
	Black Light Control for Screen Saver	0	0	-	-	-	-	-

©: Applied, -: Not Applied
 1) It might not be indicated or operated at the partial product
 2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
 3) For ceiling type duct
 Note: 1. Indoor unit should have functions requested by the controller
 2. If you need more detail, please refer to the manual of product. (http://partner.lge.com: Home> Doc.Library> Manual)

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

HOT WATER SOLUTIONS



• HYDRO KIT

HYDRO KIT

HYDRO KIT Features

Features & Benefits

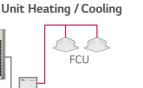
- Lower operation cost compared to fossil fuel-based systems such as boilers.
- More energy saving through MULTI V Heat Recovery system.



Radiant Heating / Cooling Radiator Floor heating



Fan Coil Unit Heating / Cooling

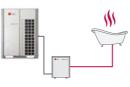


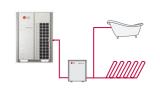
Key Applications

coil unit and chilled beam.

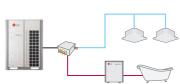


Hot water / Cooled Water





Hot water+ Radiant heating



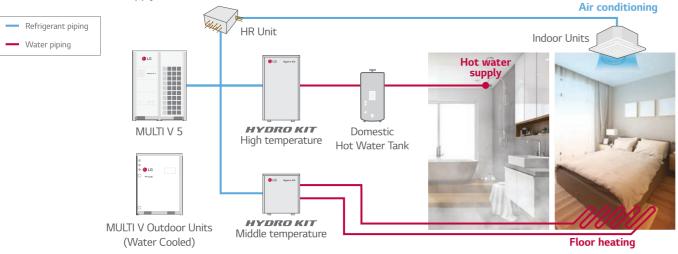
Combination

HR unit (Cooling & Hot water)



System Diagram

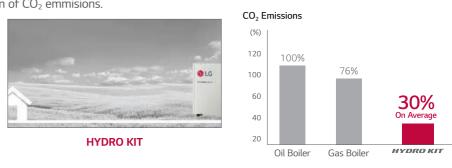
Providing a total solution by heat pump, air conditioning (Cooling by refrigerant & chilled water, Heating by refrigerant & hot water) and domestic hot water supply.



Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO₂ emmisions.





Conventional System

Saving Cost through High Efficiency

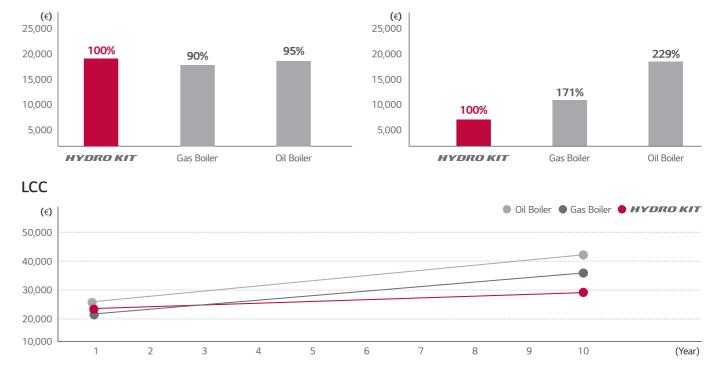
Possible to install with equivalent levels of capital cost as a boiler system and minimise energy bills thanks to lower operation costs.

1st Proposal MULTI V 5 HYDRO KIT (Air Conditioning + Hot Water Supply + Floor Heating)

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

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

Initial Costs





• Where hot water is needed such as domestic hot water, in-

floor or radiant heat. Where cold water is needed such as fan



Analysis Conditions

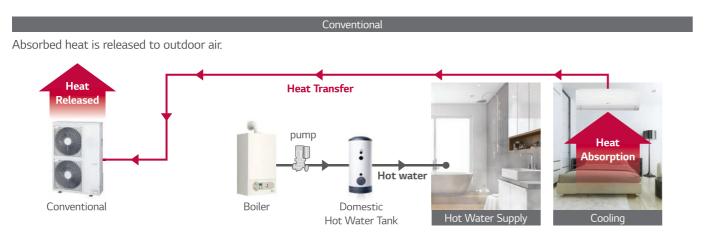
- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost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

Annual Operating Costs

HYDRO KIT

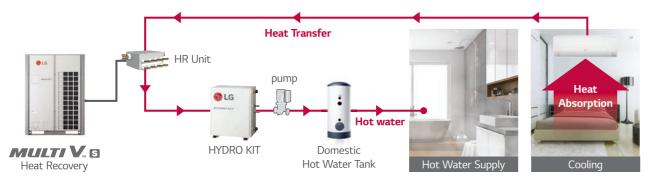
Energy Saving through MULTI V 5 Heat Recovery

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



HYDRO KIT

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



High Temperature Concept of HYDRO KIT

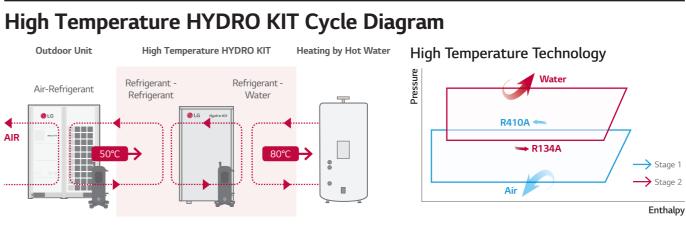
Provides high temperature up to 80°C with dual inverter cascade cycle, applicable for buildings that require large amount of hot water supply.

Dual Inverter Cascade Cycle Technology

- Max 55% improved capacity compared to mid-temp. of HYDRO KIT.
- Max 20% reduced heating operating cost compared to mid-temp. of HYDRO KIT.
- Cascade R410A to R134A BLDC compressor technology.

High Volume of Hot Water

Compared to lower temperature, storing high temperature water in a sanitary tank increases the quantity of mixed water available for the user.



Various Applications

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









Residential

Restaurant

Hotel Application

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

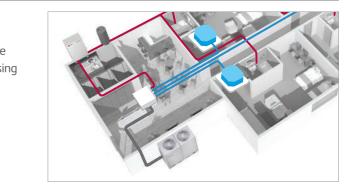
Office Application

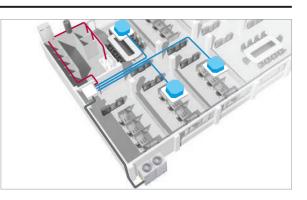
Hot water can be supplied at all times in the office by cooling the HR unit to warm up the sanitary tank, using waste energy.



Fitness

Hospital





HYDRO KIT

ARNH04GK2A4 / ARNH10GK2A4

LG

Model		Unit	ARNH04GK2A4	ARNH10GK2A4
Cooling Capac	ity	kW	12.3	28.0
Heating Capad	city	kW	13.8	31.5
Power Input	Nominal	W	10	10
Exterior Color			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
	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 Pressur	re Levels (H / M / L)	dB(A)	26	26
		<i>a.</i> 111	1, 220 ~ 240, 50	1, 220 ~ 240, 50
Power Supply		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

Ж	Nominal	: Perform	nance t	ested	under	EN1	4511	

Wominal : Performance tested under EN14511
Note : 1. Capacities are based on the following conditions :

Cooling: Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)
Heating : Indoor 20°C (68°F) DB / 15°C (59°F) WB, Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB, Water Inlet 30°C (86°F) / Outlet 35°C (95°F)

Piping Length : Interconnected Pipe Length = 7.5m
Difference Limit of Elevation (Outdoor - Indoor Unit) is Zero.
MULTI V 5 4HP (ARUN040GSSO, ARUN040LSSO) cannot be connected to HYDRO KIT.
MULTI V WATER S cannot be connected to HYDRO KIT.
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	PR	LDNVS0		
EEV Kit		-		
Independent Power Module		0		
Robot Cleaner		-		
Pre Filter (Washable / Anti-fungus)		-		
Ion Generator	- ·			
CO ₂ Sensor				
Ventilation Kit		-		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with Additional Accessory)	PDRYCB000 PDRYCB300(8 points NEW) PDRYCB3) (1 point contact) for thermostat compatible) 320 (Universal input) ¹⁾		
External Input (1 point)		0		
Wi-Fi	PWF	FMDD200		

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

Option : Refer to model name in table 1) Available from April 2020

ARNH04GK3A4/ ARNH08GK3A4

Model		Unit	ARNH04GK3A4	ARNH08GK3A4
Heating Capad	city	kW	13.8	25.2
Power Input	Nominal	W	2,300	5,000
Exterior Color			Morning Gray	Morning Gray
RAL Code			RAL 7030	RAL 7030
Dimensions	Body	mm	520 x 1,080 x 330	520 x 1,080 x 330
$(W \times H \times D)$	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 Pressur	re Levels (H / M / L)	dB(A)	43	46
Power Supply		<i>a</i>	1, 220 ~ 240, 50	1, 220 ~ 240, 50
		Ø, V, Hz	1, 220, 60	1, 220, 60
Communicatio	n Cable	mm ² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

※ Nominal : Performance tested under EN14511

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

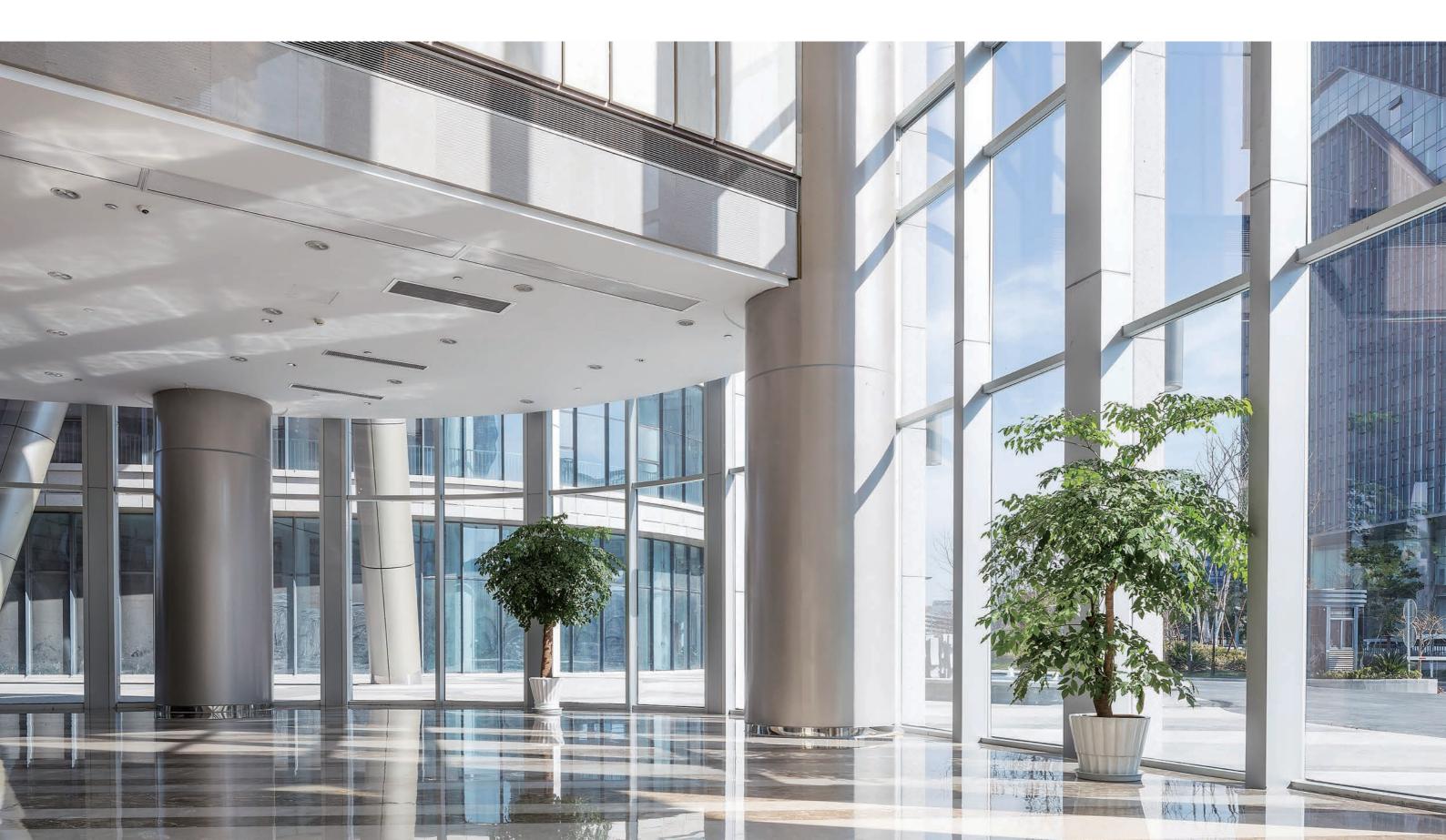
Accessories

Chassis	ARNH04GK3A4	ARNH08GK3A4			
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS	0			
EEV Kit					
Independent Power Module	0				
Robot Cleaner	-				
Pre Filter (Washable / Anti-fungus)	-				
Ion Generator	-				
CO ₂ Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with Additional Accessory)	PDRYCB000 (1 poi PDRYCB300(8 points for the NEW PDRYCB320 (Un	nt contact) ermostat compatible) iversal input) ¹⁾			
External Input (1 point)	0				
Wi-Fi	PWFMDD2	00			



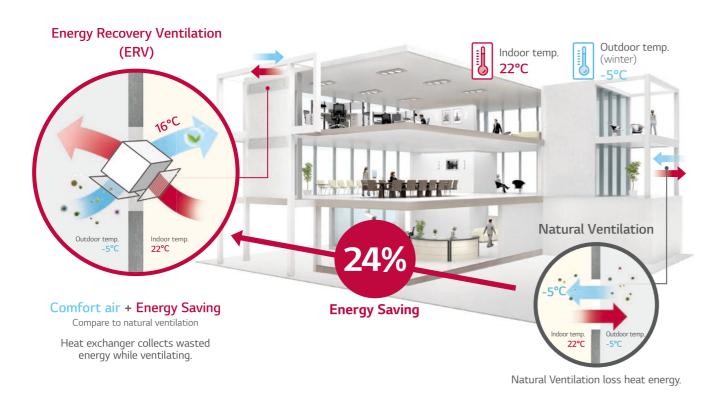
VENTILATION SOLUTIONS

• ERV • ERV WITH DX COIL

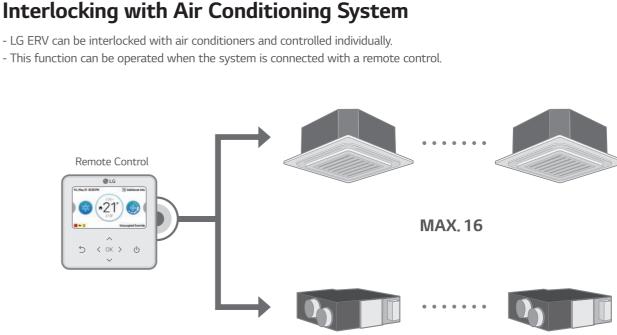


Necessity of ERV

Natural ventilation loss cooling, heating energy when exhausting polluted air inside. Heat exchanger in ERV collects the cooling, heating energy to save energy while supplying fresh air.

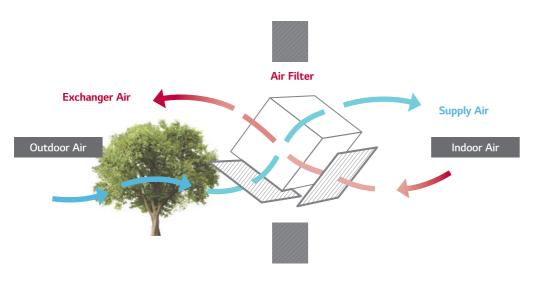


Interlocking with Air Conditioning System



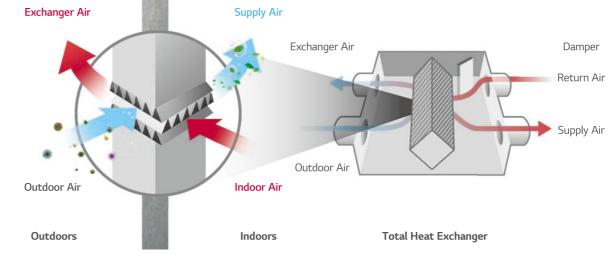
High Efficiency Heat Exchanger

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



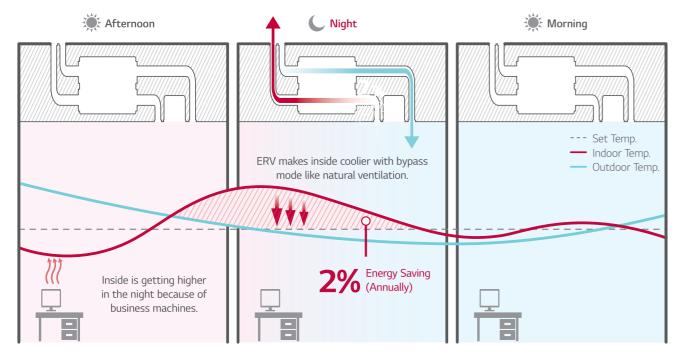
Compulsory Exhausting System

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



Night Time Free Cooling

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



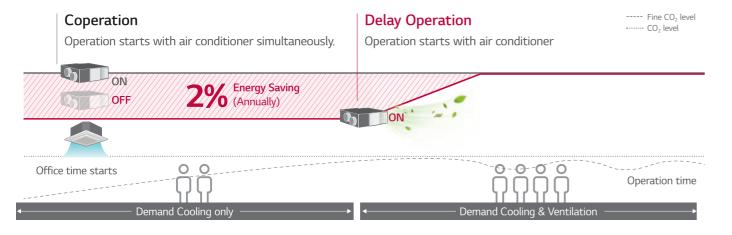
% This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
 % Energy saving ratio can be differed by weather condition.
 % Test Condition

- Office (49,000ft²) / Occupancy : 30 / Area : London, UK - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination

- Other conditions are subject to BREEAM.

Delay Operation

When you turn on the air conditioner and ERV at the same time, Delay Operation can reduce unnecessary heating and cooling energy loss slows down automatically ERV operation.



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

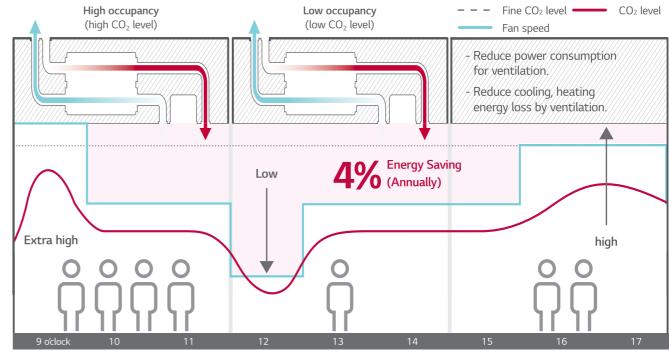
% Test Condition

- Office (49,000ft²) / Occupancy : 30 / Area : London, UK - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination

- Other conditions are subject to BREEAM.

CO₂ Auto Operation

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



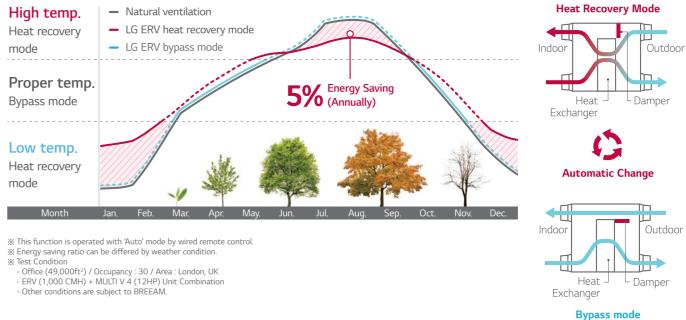
% This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only) ※ Energy saving ratio can be differed by weather condition.
※ Test Condition

- Office (49,000ft²) / Occupancy : 30 / Area : London, UK - ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination

- Other conditions are subject to BREEAM.

Seasonal Auto Operation

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





CO₂ Level Monitoring

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

CO₂ Level Visualization

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



Main Display

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

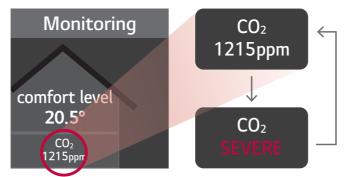


% The remote controller screen image may change. * Applicable to only Standard III, Premium remote controller



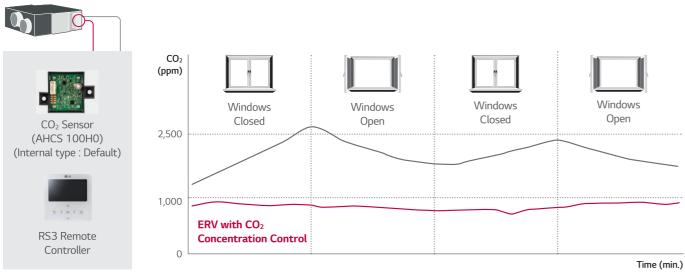
Further Information

CO₂ level and room condition are displayed continuously.



CO₂ Concentration Control

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



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.

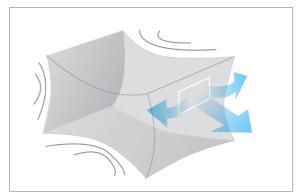
Η. M

Air Volume

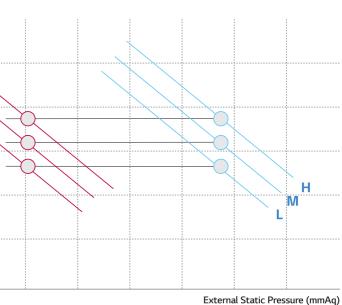
Fast Ventilation Mode

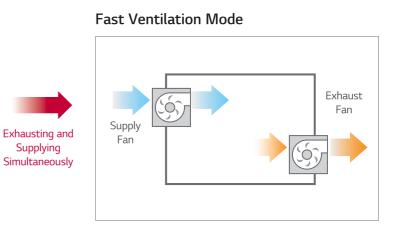
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



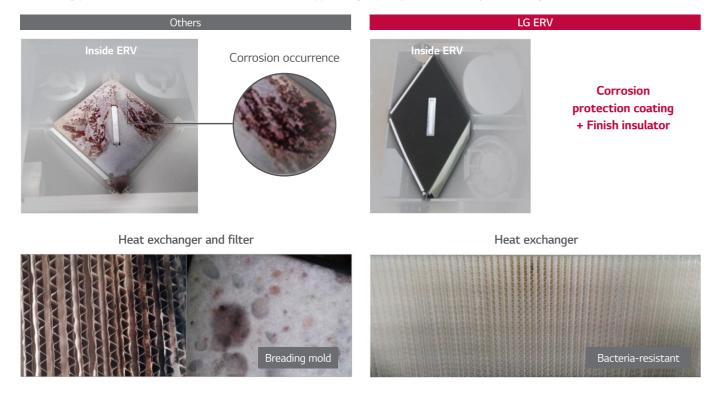
Exhausting operation causes negative indoor air pressure, and cannot fully ventilate.





High Durability

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



Group Control

One wired remote control up to sixteen ERV (Including air conditioning) you can reduce the remote installation costs and enjoy good looking interior wall effect.

Several units combination

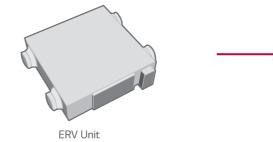
16 units group control is available with 1 remote controller.

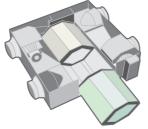


% 16 units (Including ERV, air conditioner) + 1 remote controller

Easy Cleaning and Filter Change

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





Remove Heat Exchanger

Easy Controller

Wired remote controller is easy for usage.



Easy

• Navigation buttons, easy to use • Easy installation setting



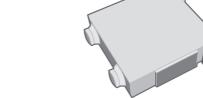
 Flexible display - Dual display with air conditioner - Zoom selected directory to increase legibility



Visible

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

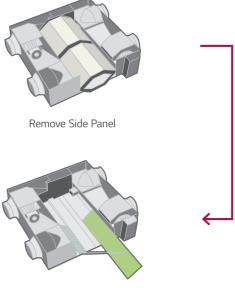






Controller & installation cost saving





Change Filter

LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4



Model				LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4
Nominal Capa	city		CMH (CFM)	250 (147)	350 (206)	500 (294)
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50 / 60		
	Step		-		SUPER-HIGH / HIGH / LOW	
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
ERV Mode	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange	Heating (SH / H / L	.) %	70 / 70 / 72	68 / 68 / 70	73 / 73 / 75
	Efficiency	Cooling (SH / H / L) %	66 / 66 / 68	63 / 63 / 65	66 / 66 / 69
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	29 / 28 / 24	32 / 30 / 27	34 / 32 / 25
	Step		-		SUPER-HIGH / HIGH / LOW	
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
Bypass Mode	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	29 / 29 / 25	32 / 30 / 27	35 / 33 / 25
Heat Exchange	er	Туре	-	Air to air cross flow heat exchange		
Net Weight			kg	44	44	44
Dimension		W×H×D	mm	1,014 x 273 x 988	1,014 x 273 x 988	1,014 x 273 x 988
Duct Work*		Qty	EA		4	
DUCL WOIK		Size (Ø)	mm		Ø200	
Supply Air For		Qty	EA		1	
Supply Air Fan		Туре	-		Direct-Drive (Sirocco Fan)	
Exhaust Air Fa	n	Qty	EA		1	
exhaust Air Fa	11	Туре	-		Direct-Drive (Sirocco Fan)	
		Qty	EA		2	2
Filters (Default	t)	Туре	-		Cleanable fibrous fleeces	
		Size (W x H x D)	mm	855 x 1	10 x 160	855 x 6 x 230
		Model	-	AHFT	035H0	AHFT050H0
	-1)	Qty	EA		2	2
Filters (Option	ai)	Туре	-		-7	F7
		Size (W x H x D)	mm	423.5 x	132 x 25	425 x 194 x 25
Dry Contact					PDRYCB000	

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 news and a construction of a construction of a construction (Acoustic absorption coefficient) of particular room in which the equipment is installed.
 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.
 Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
 Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH

Temperature Exchange efficiency is tested at heating condition.
 F7 Filter is 2 pieces in 1 filter package.



LZ-H080GBA4 / LZ-H100GBA4 LZ-H150GBA4 / LZ-H200GBA4

Model				LZ-H080GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4	
Nominal Capa	city		CMH (CFM)	800 (471)	1,000 (589)	1,500 (883)	2,000 (1,177)	
Power Supply			Ø, V, Hz		1, 220 ~ 2	40, 50 / 60		
	Step		-	SUPER-HIGH / HIGH / LOW				
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60	
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420	
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,60 (1,177 / 1,177 / 942	
ERV Mode	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20	
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78	79 / 79 / 82	77 / 77 / 78	
	Enthalpy Exchange	Heating (SH / H / L	_) %	72 / 72 / 74	70 / 70 / 72	72 / 72 / 74	70 / 70 / 72	
	Efficiency	Cooling (SH / H / L	.) %	63 / 63 / 66	59 / 59 / 63	63 / 63 / 66	59 / 59 / 63	
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	40 / 37 / 31	41 / 38 / 32	43 / 40 / 34	44 / 41 / 35	
Step		-		SUPER-HIGH	/ HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60	
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420	
Bypass Mode	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,60 (1,177 / 1,177 / 94	
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20	
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB(A)	41 / 38 / 32	41 / 39 / 33	44 / 41 / 35	44 / 42 / 36	
Heat Exchange	er	Туре	-	Air to air cross flow heat exchange				
Net Weight			kg	62 140			40	
Dimension		W×H×D	mm	1,062 x 3	65 x 1,140	1,313 x 73	38 x 1,140	
Duct Work*		Qty	EA	4		4 + 2		
Duct Work*		Size (Ø)	mm	Ø2	250	Ø250 + Ø350		
Supply Air For		Qty	EA		1		2	
Supply Air Fan		Туре	-		Direct-Drive	(Sirocco Fan)		
Exhaust Air Fa	20	Qty	EA		1		2	
		Туре	-		Direct-Drive	(Sirocco Fan)		
		Qty	EA		2		4	
Filters (Defaul	t)	Туре	-		Cleanable fil	brous fleeces		
		Size (W x H x D)	mm		1,056 x	6 x 212.5		
		Model	-		AHFT	100H0		
Filters (Onting		Qty	EA		2		4	
Filters (Option	al)	Туре	-		F	7		
		Size (W x H x D)	mm	520 x 192 x 25				
Dry Contact					PDRY	CB000		

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.

The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
 Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
 Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH

Temperature Exchange efficiency is tested at heating condition.
 F7 Filter is 2 pieces in 1 filter package.

Premium	Stand	ard III
2011		
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTBB10



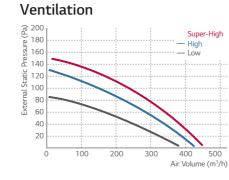


- Sound level will vary depending on a range of factors such as the construction(Acoustic absorption coefficient) of particular room in which the equipment is installed.

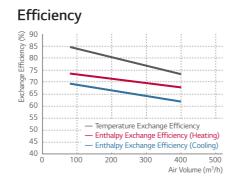


LZ-H025GBA4

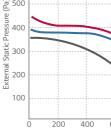




Ventilation

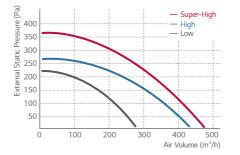


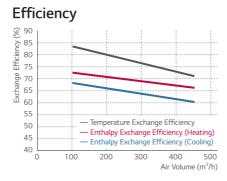










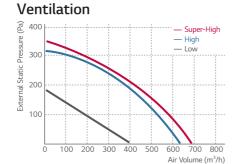




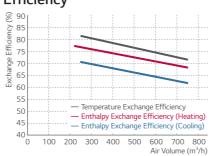


LZ-H050GBA4



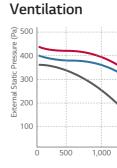


Efficiency



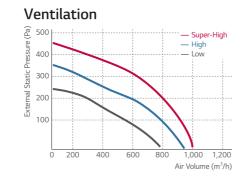
LZ-H200GBA4

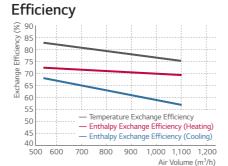


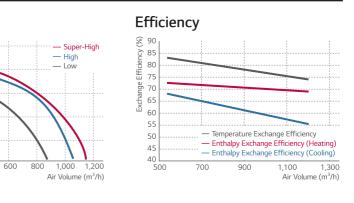


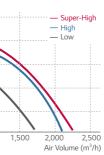
LZ-H080GBA4



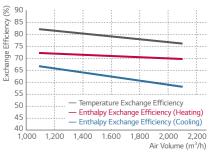








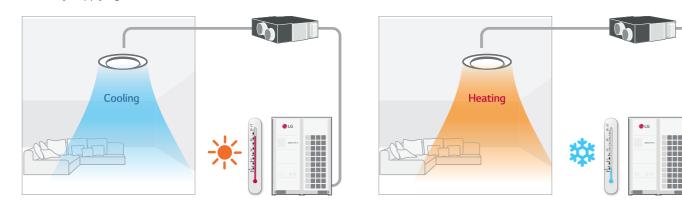
Efficiency



ERV WITH DX COIL

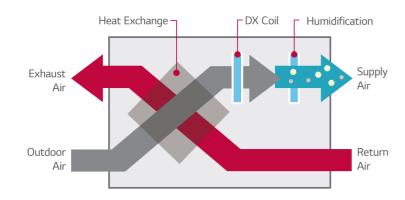
Providing Cool & Warm Fresh Air

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



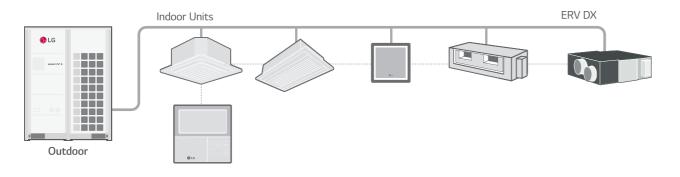
Total Air Conditioning Solution

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 controls the air indoors by cooling and dehumidifying incoming air. In winter, it can provide warm air by heating and humidifying the incoming air.



Interlocking with MULTI V

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



VENTILATION SOLUTIONS SPECIFICATION

ERV WITH DX COIL

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

Model			LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4	
Fresh Air	Cooling	kW	4.93	7.46	9.12	4.93	7.46	9.12	
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	
AIF 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		Na	atural Evaporating Ty	/pe		-		
Humidifier	Amount	kg/h	2.70	4.00	5.40		-		
	Pressure Feed Water	Mpa		0.02 ~ 0.49			-		
C 1.D	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	
Sound Pressure	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					R41	IOA			
Power Supply		Ø, V, Hz	1, 220 ~ 240, 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)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	
Current (RLA)	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	
Heat exchange syste	m			o air cross flow tota ole + latent heat) exc			o air cross flow tota ole + latent heat) ex		
Heat exchange elem	ent		Specially processed non-flammable paper			Specially processed non-flammable paper			
Air Filter			Mult	idirectional fibrous fl	leeces	Multidirectional fibrous fleeces			
Dimensions	W×H×D	mm		1,667 x 365 x 1,140)		1,667 x 365 x 1,140)	
Net Weight		kg		105			98		
	Liquid	mm		Ø6.35			Ø6.35		
Disian Compation	Gas	mm		Ø12.7			Ø12.7		
Piping Connection	Water	mm	Ø6.35				-		
	Drain Pipe (Internal Dia.)	mm (inch)		Ø25.4			Ø25.4		
Connection Duct Dian	neter	mm		Ø250			Ø250		

Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
 Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB / 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. 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.
 The specifications, designs and information here are subject to change without notice.

Accessories

Chassis	LZ-H050GXH4 LZ-H080GXH4 LZ-H100GXH4 LZ-H050GXN4 LZ-H080GXN4 LZ-H100GXN4
Drain Pump	-
Cassette Cover	· ·
Refrigerant Leakage Detector	PRLDNVSO
EEV Kit	· · · · · · · · · · · · · · · · · · ·
Independent Power Module	
Robot Cleaner	
Pre Filter (Washable / Anti-fungus)	
Ion Generator	
CO ₂ Sensor	AHCS100H0
Ventilation Kit	
IR Receiver	· · · · · · · · · · · · · · · · · · ·
Zone Controller	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB500 (Modbus)
External Input (1 point)	0
Wi-Fi	· · · · · · · · · · · · · · · · · · ·

※ ○ : Applied, - : Not applied

Option : Refer to model name in table



CONTROL SOLUTIONS

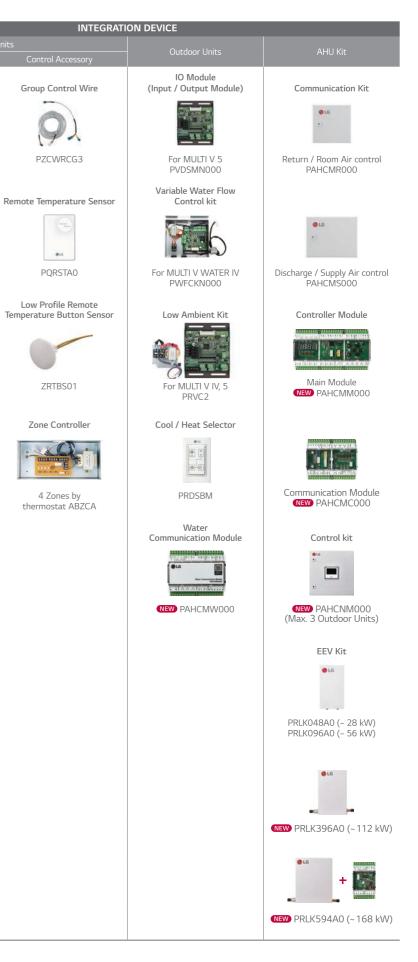
INDIVIDUAL CONTROL
 CENTRALIZED CONTROL



INTEGRATION DEVICE

LG HVAC CONTROL LINE-UP

	INDIVIDUAL CONTROL			CENTRALIZED CONTROL		CENTRALIZED CONTROL	
Wired Remc Standard	ote Controller Simple	Wireless Remote Controller	Display	Platform		Facility Integrator	Indoor Dry Contact
Standard III (White)	_	-	AC Ez	ACP 5	ACP LonWorks	PDI (Power Distribution Indicator)	
		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					
PREMTB100	PQRCVCL0QW	NEW PWLSSB21H (H/P) NEW PWLSSB21C (C/O)	PQCSZ250S0 (Indoor Unit ~32)	PACP5A000 (Indoor Unit ~256) BACnet IP/Modbus	PLNWKB000 (Indoor Unit ~64)	Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	Simple Dry Contact PDRYCB000
		Wi-Fi Controller		TCP Gateway		ACS IO Module (Input / Output Module)	
Standard III (Black)		LG Wi-Fi Modem	AC Ez Touch	AC Manager 5	Modbus RTU Gateway		
● ④ (273) ◎ (□ ([⊕]) 0		e LG				PEXPMB000	Dry Contact for Thermostat PDRYCB300
PREMTBB10	PQRCVCLOQ	For Indoor Unit PWFMDD200	PACEZA000 (Indoor Unit ~64)	PACM5A000 (Indoor Unit ~8,192)	PMBUSB00A	Chiller Option Kit	
Standard II (White)			AC Smart 5		PI-485		-
						PCHLLN000	Dry contact for Thermostat (For using universal input) (NEW) PDRYCB320
PREMTBOO1	PQRCHCA0QW		PACS5A000		For Indoor Unit (ERV)	ACU IO Module	
	(Simple for Hotel)		(Indoor Unit ~128) BACnet IP/Modbus TCP Gateway		PHNFP14A0		
Standard II (Black)						UIO PEXPMB300	2 Points Dry Contact (For Setback) PDRYCB400
						Y (174.74)	
PREMTBB01	PQRCHCA0Q (Simple for Hotel)						
Premium						UO PEXPMB200	For Modbus PDRYCB500
253]						YAN KARA	
5 0 0 4 0 1							
PREMTA000 PREMTA000A PREMTA000B						UI PEXPMB100	
Note	1			1			



LG CONTROL SOLUTIONS

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





Feature Functions

Controlle	r Name	Premium	Wird Standard III	ed Remote Contro Standard II	oller Simple	Simple(Hotel)	Wireless Remote Controller	Wi-Fi Controlle
Model Na	me	251 251 ******					· (1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-	•1.6
		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	NEW 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 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	O 3)	-	O ³⁾	O ³⁾	O 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 120 x 16	64 x 120 x 15	64 x 120 x 15	51.4 x 153 x 26	-
	Black Light Control for Screen Saver	0	0	-	-	-	-	-

Sepplied, -: Not Applied
 It might not be indicated or operated at the partial product.
 Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function.
 For ceiling type duct
 Note: 1. 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)

Standard III Wired Remote Controller

Features & Benefit

4.3 inch Color screen with a modern design.



+27.0° 5 (OK) C

PREMTBB10 (Black)

PREMTB100 (White)

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

Model Name	PREMTB100 / PREMTBB10	
On / Off	0	
Fan Speed Control	0	
Temperature Setting	0	
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	
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	
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	

※ ○ : Applied, - : Not Applied

1) It might not be indicated or operated at the partial product. 2) This function is available for duct type.

- This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
 Note : 1. Indoor unit needs to have functions requested by the controller.
- 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.

Energy Saving Function

Energy Management

- Energy Monitoring & Alarm Real-time and day / week / month / year energy usage monitoring is possible. In addition, it can set target for energy usage and operation time, and alarm will be displayed when exceeded. * PDI (PQNUD1S40 / PPWRDB000) is required.

Time Limit Control

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

2 Set Points Control

Auto Changeover (Convenience)

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

Setback (Home Leave) (Energy saving & Comfort)

- In the absence, room temperature can be kept in the range of 2 set points instead of power off. It provides comfortable indoor environment quickly when the mode is changed to occupied.

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

🕑 LG 6 (1) +27.0° * \bigcirc 5 < OK > Q - Touch Button Auto Drv Fan Coo 06.19 21:15 06:19 21:15 Heat Cool Dry Fan Auto 06:19 14:08

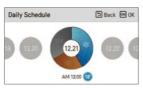


External Device On / Off



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

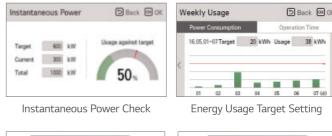
Schedule Function



Easy Checking Schedule Standard III remote controller provides clock type daily schedule.

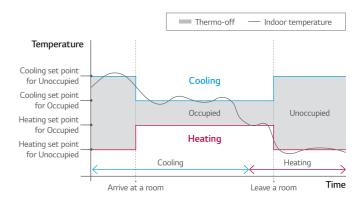
Error History

06:19 14:04











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

Exception Day	ы Back ок Ok
2016.05.21	
2017,05,21	
2018,05,21	
2019.05.21	

Exception Day Settings Possible to set up exceptional date on regular schedule.

Premium Wired Remote Controller

Features & Benefit

5 inch full touch screen with a premium design.



PREMTA000¹⁾ / PREMTA000A²⁾ / PREMTA000B³⁾

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

- Full Touch screen
- The Optimized Controller in MULTI V 5
- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost mode setting
- Design with User's Convenience
- Intuitive GUI
- Main display simple mode
- 5 inch color LCD
- Energy Saving Functions
- Instantaneous power monitor
- Energy consumption check (Power consumption, Operation time)
- Temp. Setback Timer, Time Limit Control
- Target setting (ODU Capacity, Instantaneous power--etc)
- Group Control
- Up to 16 Indoor units can be controlled with one remote control
- 2 Set Points Control
- Increase convenience and comfort
- Auto changeover, Setback (Home leave)





Easy Energy Management

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

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

2 Set points Control

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

Group Control

Max. 16 Indoor units by one remote controller.

Model Name	PREMTA000 / PREMTA000A / PREMTA000B
On / Off	0
Fan Speed Control	0
Temperature Setting	0
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
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	O 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

※ ○ : Applied, - : Not Applied

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

Standard II Wired Remote Controller

Features & Benefit

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





PREMTB001 (White)

PREMTBB01 (Black)

• Wired remote controller that can implement various functions such as schedule, filter sign.

Simple Wired Remote Controller

Features & Benefit

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





PQRCVCL0QW (White) / PQRCVCL0Q (Black)

PQRCHCA0QW (White) / PQRCHCA0Q (Black)

· Small remote control with minimal functionality.

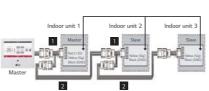
Wireless Remote Controller

Features & Benefit



NEW PWLSSB21H (H/P) NEW PWLSSB21C (C/O)

- 750 hr.
- 18.00
- Auto Changeove



Model Name	PREMTBOO1 / PREMTBBO1
On / Off	0
Fan Speed Control	0
Temperature Setting	0
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
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 120 x 16
Blacklight	0
Power Consumption Monitoring	O ²⁾
Check Model Information	0

 $\ll \bigcirc$: 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.

Model Name	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	0	0
Fan Speed Control	0	0
Temperature Setting	0	0
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	-
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)	64 x 120 x 15	64 x 120 x 15
Blacklight	0	0

※ O : Applied, - : Not Applied1) For ceiling type ducted unit.

Note : Indoor unit needs to have functions requested by the controller.

Model Name	PWLSSB21H (H/P) / PWLSSB21C (C/O)
On / Off	0
Fan Speed Control	O ¹⁾
Temperature Setting	0
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	0
Vane Control (Louver direction)	0
Reservation	Sleep / On / Off
Time Display	0
Indoor Temperature Display	0
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

※ ○ : Applied, - : Not Applied

1) For some products, you can use "slow" fan speed function.

LG Wi-Fi Modem

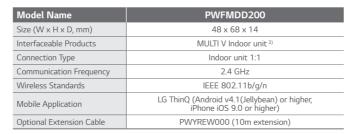
Features & Benefit

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



PWFMDD200

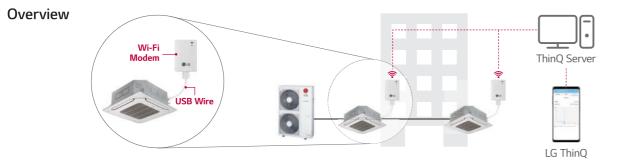
- Access LG air conditioner anytime and from anywhere with Wi-Fi equipped device.
- It is possible to check whether the air conditioner is turned off when the user goes out (energy saving), and can be operated in advance before entering the house (comfort improvement).
- LG's exclusive Home Appliances control app (LG ThinQ) is available.
- Simple operation for various functions
- On / Off
- Operation Mode
- Current/Set Temperature
- Fan Speed
- Vane Control 1)
- Reservation (Sleep, Weekly On / Off)
- Energy Monitoring²⁾
- Filter Management
- Error Check



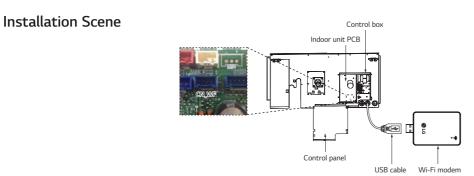
Vane Control may not be possible according to the type of Indoor unit.
 LG Centralized controller and PDI installation is required for this function.

- 3) For the compatibility with Indoor unit, please contact regional LG office. Note : 1. Functionality may be different according to each IDU model.
 - 2. User interface of application shall be revised for its design and contents improvement 3. Application is optimized for smartphone use, so it may not be well functioning with





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



% Each indoor unit has a Wi-Fi modem installation location inside the product, and it can be installed by exposure if necessary.

0 ? Internet Service Provider

Connection (Pairing) Order

Connected Diagram

LG ThinQ

Make LG account on LG ThinQ and select the Router that will use.

Mode, Set Temp

- 2 Insert passwords of selected router and do set AP by LG remote controller.
- 3 Confirm the pairing between Wi-Fi Modem and Router.

LG ThinQ

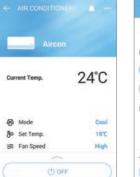
Simple operation for various functions

On / Off, Current Temp.

Vane Control

Purification

Air Flow Mode





Straight forward Management

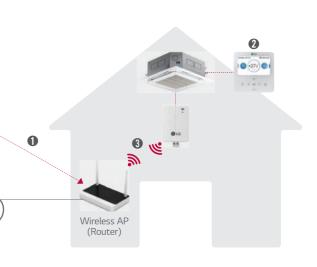
Reservation







214 | 215





Current	Temp.: 24°C
	~ ~
Left/Right Swing	Auto Swim
Additional Setting	1
244	Saving

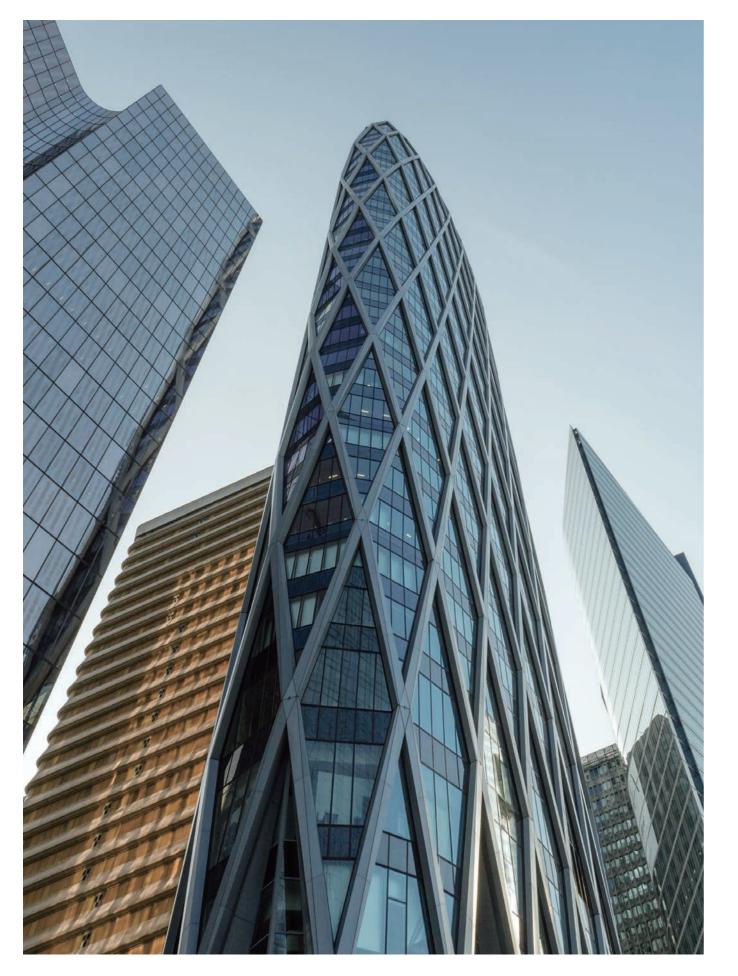


Smart Diagnosis



Filter Management





Centralized Controller Feature List

Controller Na	ame		AC Ez	AC Ez Touch	AC Smart 5 ⁵⁾	ACP 5 ⁵⁾	ACP Lonworks	AC Manager S
Model Name								
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PLNWKB000	PACM5A000
	DO		-	-	2	4	2	-
	DI			1	2	10	2	-
		Air Condotioner	32	64	128	256	64	8,192
Product		ERV	32	64	128	256	64	8,192
		A/C + ERV	32	64	128	256	64	8,192
	No.	AHU	-	-	16	16	164)	16 x 32
		Chiller	-	-	5 Optional 2)	10 Optional ²⁾	-	10 x 32
	Air Condition	er	O 1)	0	0	0	0	0
	Ventilation (E	RV / ERV DX)	O ²⁾	0	0	0	0	0
Compatibility	Heating		-	0	0	0	0	0
Compatibility	AHU		-	-	0	0	0	0
	Chiller		-	-	O ⁴⁾	O ⁴⁾	-	0
	ACS IO			-	O ⁴)	O ⁴⁾	O ⁴⁾	0
	Add Drawing			-	O ⁴⁾	O ⁴)	O 4)	0
	Group Management		-	-	O ⁴⁾	O ⁴)	O ⁴)	0
	Auto Changer Over		-	0	O ⁴⁾	O ⁴⁾	O ⁴)	0
Additional	Set Back		-	0	O ⁴⁾	O 4)	O 4)	0
Function	2 Set			0	0	0	O 4)	0
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter
	Indoor Unit Lock		-	0	0	0	O 4)	-
	Cycle			-	0	0	O 4)	0
Schedule			0	0	O ⁴⁾	O 4)	O 4)	0
		Priority Control		0	0	0	O ⁴⁾	0
Auto Control	Peak Control	Outdoor Unit Capacity Control	-	-	O ⁴)	O ⁴)	O ⁴)	0
	Time limit co	ntrol	-	-	O ⁴⁾	O 4)	O 4)	0
	InterLocking			-	O ⁴)	O ⁴⁾	O ⁴⁾	0
Energy Navigat				-	O ⁴)	O ⁴⁾	_	0
	Power		-	0	0	0	O 4)	0
	Gas		-	-	0	0	O 4)	0
Energy Report				-	O ⁴)	O ⁴⁾	O ⁴⁾	0
Energy nepore	Email			-	-	-	O ⁴⁾	-
	PC / USB		-	-	O ⁴⁾	PC	PC	PC
Trend Reportin				-	-	-	-	0
nena neportin	Report (Cont	trol / Error)	-	Error	O ⁴⁾	O ⁴)	O ⁴⁾	0
History	Send Email		-	-	O ⁴⁾	O ⁴)	O ⁴)	0
i listor y			-		-	-	O 4)	
	Save to PC /			-				-
	Summer Tim		-	0	O 4)	O 4)	O 4)	0
etc		t Oil-Return Operation	-	-	O 4)	O 4)	O 4)	-
	User Authori	ty	-	Password	O ⁴)	O ⁴)	O 4)	0
	PC Access		-	0	O ⁴)	O ⁴)	O ⁴)	0

S O : Applied, - : Not Applied
Except for some feature (Individual lock, Limit, Temp., etc.)
Except for some feature (User mode, Additional function, etc.)
ACP 5 or AC Smart 5 is required.
This function is possible to use in Web Only. (BMS Point is not applied)
Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.
ACP, ACP, ACM 5 Expected to 4Q, 2020

AC EZ Touch

Features & Benefit

Smart management with 5 inch touch screen for small site.



PACEZA000

- Remote Access with Graphical User Access Control
- Total 200 Schedule Events
- Energy saving mode
- Energy Monitoring (with PDI)
- 2 Set point function (Upper / Lower Temperature setting)
- Temperature Set points Range Limit
- Remote Controller Lock (All, Temp, Mode, Fan Speed)
- Operation History
- Change alarm (Filter change)
- Emergency stop

Overview



Model Name

Size (W x H x D, mm)

Interfaceable Products

Maximum number of units

Individual / Group Control

Individual Controller Lock

Slave Mode (Interlocking with higher level controller)

Emergency Stop & Alarm Display

Power Consumption Monitoring

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

Auto Changeover / Setback

Error Check

Schedule

(with PDI)

Temperature Limit

Operation History

Daylight Saving Time

ODU Low Noise

External IO Port

IPv6 Support

Remote Access

PACEZA000 137 x 121 x 25

MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V

64

On & Off / Mode / Temperature / Fan speed

Temperature / Mode / Fan speed / All

0

Weekly / Monthly / Yearly / Exception day

By client S/W

0

0

0

Error record

0

0

DI 1

0

Feature

PC Access

Users can control each space efficiently through PC access.



Energy Statistics (with PDI)

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

2016. 2.	8 ~ 2016. 3. 19		Today	Week	Mo	nth
Name	Usage(kV	/h)	Accumu	lated(kW	/h)	
Group1	110		3	8021		-
Group2	150		6186			1/3
Group3	130		4	267		0
Group4	120		7	614		~

Energy Mode

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



Alarm Indicator

It works when there are some errors or it's time to change the filter. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.

Lock 0	Schedule 2	
Alarm		
A Error		0 >
🛕 Change al	arm	0 >
	~	

AC EZ

Features & Benefit

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



PQCSZ250S0

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



0

Appropriate PI 485 should be used according to PDB

• MULTI V 5 • MULTI V IV MULTI V II • MULTI V II

 MULTI V S WATER IN • MUITIV WATER II

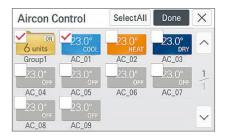
Schedule

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.

Schedule_Month •							
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	2010
20	21	22	23	24	25	26	03
27	28	29	30	31	1	2	
	4	5	6		8	9	~

Group / Individual Control

According to the situation, it can be controlled by group or each indoor unit. It is useful to monitor or control for the best fit of request.



Model Name	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	DC 12V
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	0
Slave Mode (Interlocking with higher level controller)	0
Schedule	Weekly

※ ○ : Applied, - : Not Applied



AC SMART 5

Features & Benefit

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

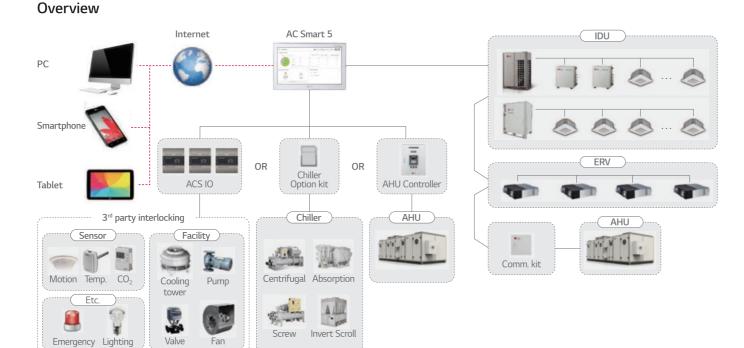


PACS5A000

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

Model Name	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller 1)
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display 2)	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	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
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

Chiller Option Kit (PCHLLN000) is required.
 It is only available in some products.
 For the detail point list, please refer to the installation manual.



Feature

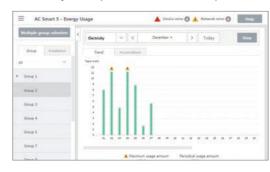
BMS Integration

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



Energy Management / Operation Trend

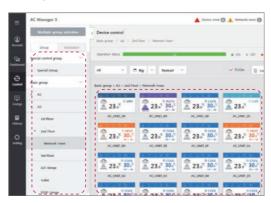
Energy navigation function allows air conditioners operation to be managed under the monthly (Weekly / Yearly) plan of energy usage. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



Multi Level Group Composition

You can freely apply layer structure such as building, floor, zone, etc. and set the group as the same as the site composition to control and monitor the devices.

Special control group You can additionally compose frequently used groups such as VIP Room, executive room, etc. regardless of the building structure.



Advanced Network Accessibility

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



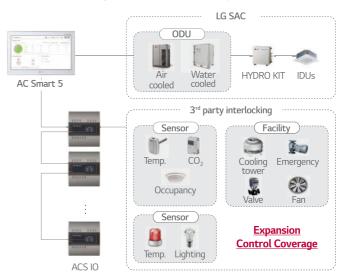
Visualized Control

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



Interlocking with 3rd party equipment

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



ACP 5

Features & Benefit

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



PACP5A000

• The central controller allows control of the LG HVAC system to various platforms. (PC, Smartphone, Tablet)

HTML5 web design

- DI :10 / DO : 4
- Max. 256 IDU control
- BACnet IP / Modbus TCP
- Schedule
- Map View (Visual Navigation)
- Time limit control / Auto change over
- Energy monitoring
- History / Operation Trend
- Interlock with 3rd party equipment
- (ACS IO, ACU IO Module is needed)
- Multi level grouping
- Emergency stop & alarm
- Error alarm by E-mail

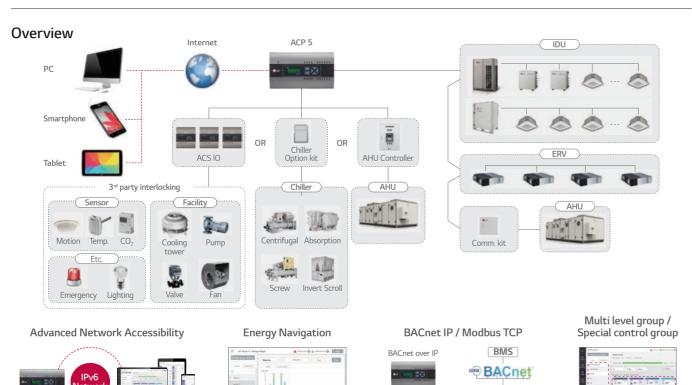
Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display $^{\scriptscriptstyle 2)}$	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
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

※ ○ : Applied, - : Not Applied

1) Chiller Option Kit (PCHLLN000) is required.

It is only available in some products.
 For the detail point list, please refer to the installation manual.

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ACP LonWorks Gateway

Features & Benefit

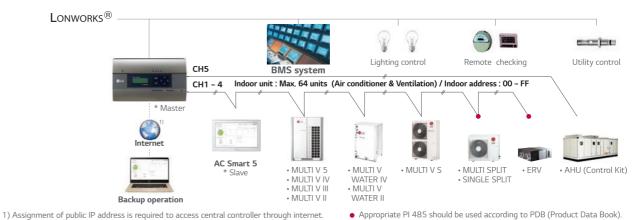
LonWorks easily link LG air conditioners and other existing building systems. By including ACP control function, the controlling continues even when error occurs with BMS.



PLNWKB000

- 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 interne. (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.

Overview



PI 485

Features & Benefit

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



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

PHNFP14A0

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

AC Manager 5

Features & Benefit

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



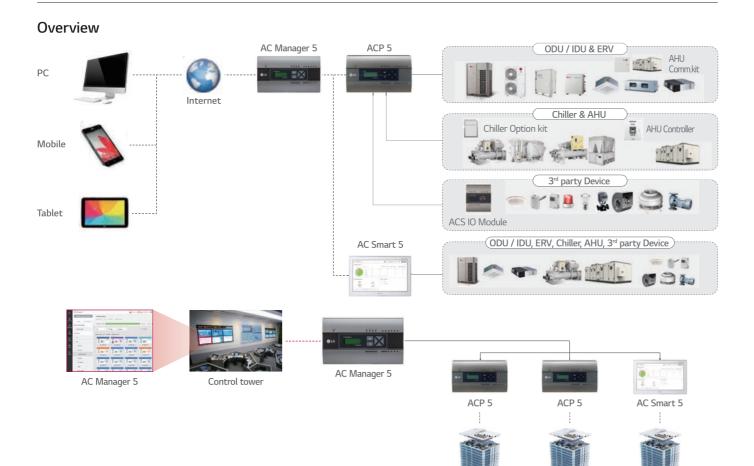
reddot award User Interface Design

PACM5A000

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

Model Name	PACM5A000
ize (W x H x D, mm)	270 x 155 x 65
nterfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾
Maximum number of units	8,192 (supports 32 ACP 5 or AC Smart 5)
ndividual / Group Control	On & Off / Mode / Temperature / Fan speed
ndividual Controller Lock	Temperature / Mode / Fan speed / All
rror Check	0
Schedule	Weekly / Monthly / Yearly / Exception day
Veb Access	0
mergency Alarm Display	0
Power Consumption Monitoring with PDI)	0
Auto Changeover / Setback	0
emperature Limit	0
Operation Time Limit	0
/isual Navigation	0
Operation Trend	0
nterlock Control	0
/irtual Group Control	0
DDU Capacity Control	0
nergy Navigation (with PDI)	0

※ ○ : Applied, - : Not Applied1) Chiller Option Kit (PCHLLN000) is required. Note : AC Manager 5 requires ACP 5 or AC Smart 5.



Feature

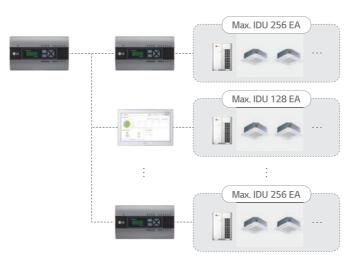
Stand-alone

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



Up to 8,192 Connections for Indoor Units

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



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.









ODU Capacity Control

Advanced Network Accessibility & User Friendly GUI (Reddot award)

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



Energy Navigation & Energy Usage Trend

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



Multi Level Group Composition

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

=	AC Manager 5		Tanta man 🔘 🕇 Balanda man 🕲				
e]€	United group advector	Device control Anic group (* A2 * 20) device ratio	ther 3 benefities				
0	Special Longs		Ng - Deingt		9 Nor 2 H		
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Modbus RTU Gateway

Features & Benefit

Providing Modbus RTU connection between LG Air conditioners and BMS.



PMBUSB00A

Function

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

Modbus Gateway Memory Map

Baud Rate : 9,600 bps, Stop Bit : 1 stop bit, Parity : None Parity

Coil Register (0 x 01)

@ N-		Data Bit	Function	Desister	
① No.	Air Conditioner	ERV / DX ERV	HYDRO KIT & THERMA V	Function	Register
1	Operate (On / Off)	Operate (On / Off)	Operate (On / Off)	0 : Stop / 1 : Run	
2	Auto Swing	Air conditioner 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
6	Lock Fan Speed	Lock Fan Speed 1)	Reserved	0 : UnLock / 1 : Lock	(N = Indoor Unit Central Address)
7	Lock Target Temp.	Lock Target Temp. 1)	Reserved	0 : UnLock / 1 : Lock	-
8	Lock IDU Address	Lock IDU Address 1)	Reserved	0 : UnLock / 1 : Lock	-
9	Reserved	Quick Ventilate	Reserved	0 : Disable / 1 : Enable	-
10	Reserved	EnergySave	Reserved	0 : Disable / 1 : Enable	-

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

Discrete Register (0 x 02)

① No		Data Bit			Desister
	Air Conditioner	ERV / DX ERV	HYDRO KIT & THERMA V	Function	Register
10001	Connected IDU	Connected IDU	Connected IDU	0 : Disconnected / 1 : Connected	
10002	Alarm	Alarm	Alarm	0 : Normal / 1 : Alarm	
10003	Filter Alarm	Filter Alarm 1)	Hot Water Only ²⁾	0 : Normal / 1 : Alarm HYDRO KIT – 0 : Normal / 1 : Hot Water Only	Register = N x 16 + ① (N = Indoor Unit Central Address)
10004	Reserved	Reserved	Target Temp. Select	0: Air / 1 : Water	
10005	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)

		Data Bit	Function	Desister	
① No	Air Conditioner	ERV / DX ERV	HYDRO KIT & THERMA V	- Function	Register
40001	Operate Mode Operate Mode Connected IDU		0 : Cooling, 1 : Dehumidifying, 2 : Fan, 3 : Auto, 4: Heating HYDRO KIT (Middle Temp. DHW)/AWHP – 0 : Cooling, 3 : Auto, 4:Heating HYDRO KIT (High Temp. DHW) – 3 : Auto, 4 : Heating	Register = N x 20 + ①	
40002	Fan Speed	Fan Speed	Target Temp. DHW 2)	1 : Low, 2 : Mid, 3 : High, 4 : Auto	(N = Indoor Unit Central Address)
40003	Target Temp.	Target Temp. 1)	Target Temp. ²⁾	16.0 ~ 30.0 [°C] x 10	
40004	Target Temp. Limit (Upper)	Target Temp. Limit 1) (Upper)	Reserved	16.0 ~ 30.0 [°C] x 10	
40005	Target Temp. Limit (Lower)	Target Temp. Limit ¹⁾ (Lower)	Reserved	16.0 ~ 30.0 [°C] x 10	
40006	Reserved	Vent. Operate Mode	Reserved	0 : HEX, 1 : Auto, 2 : Normal	

1) This register value is applied 'DX Ventilator' ONLY. 2) This value range can be between $0 - 127[^{\circ}C]$. And it would be limited by upper & lower value according to the setting of remote controller.

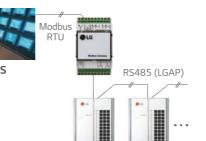
Input Register (0 x 04)

① No.	Data Bit			Function	Desister
	Air Conditioner	ERV / DX ERV	HYDRO KIT & THERMA V	Function	Register
30001	Error Code	Error Code	Error Code	0 ~ 255 % Please refer to the product error table.	
30002	Room Temp.	RA Temp.	Room Temp.	-99.0 ~ 99.0 [°C] × 10	
30003	Pipe In Temp.	OA Temp. 1)	Water Inlet Temp.	-99.0 ~ 99.0 [°C] × 10	Register = N x 20 + ① (N = Indoor Unit Central Address)
30004	Pipe Out Temp.	SA Temp. 1)	Water Outlet Temp.	-99.0 ~ 99.0 [°C] × 10	(N = Indoor Onic Central Address)
30005	Reserved	Pipe In Temp. 1)	Sanitary Tank Temp.	-99.0 ~ 99.0 [°C] × 10	
30006	Reserved	Pipe Out Temp. 1)	Solar Temp. ²⁾	-99.0 ~ 99.0 [°C] x 10	

This register value is applied 'DX Ventilator' ONLY.
 This register value is applied 'AWHP' ONLY.

Installation Scene

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



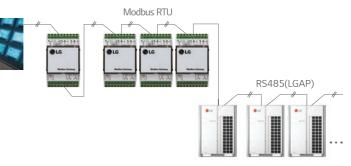
BMS

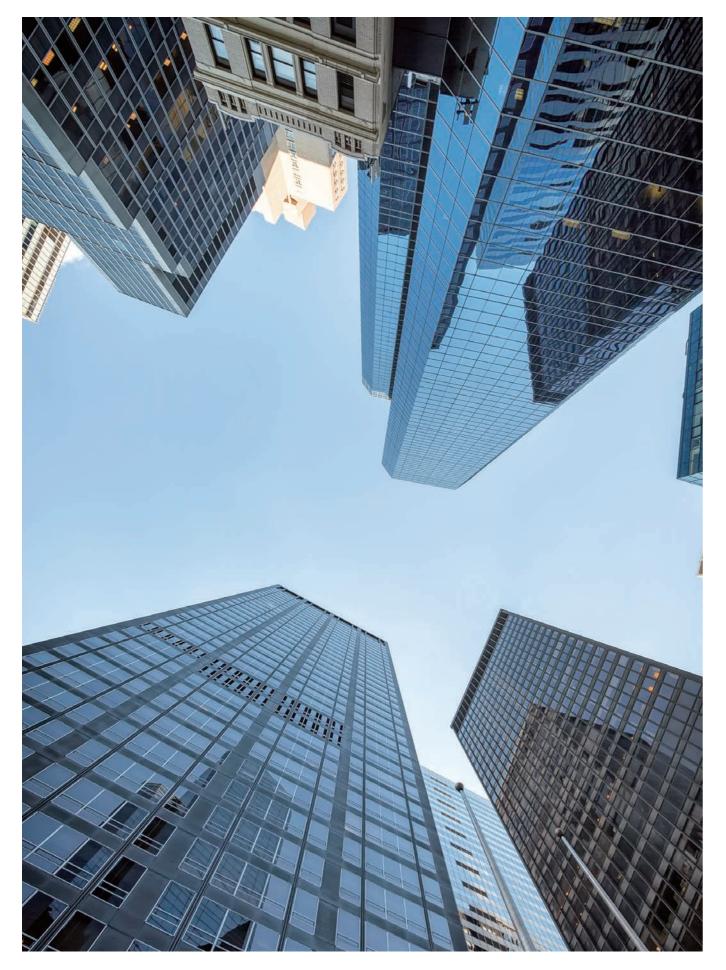


• Multiple module

BMS

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





PDI (Power Distribution Indicator)

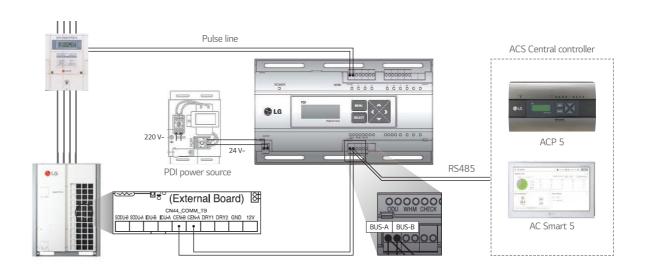
Features & Benefit

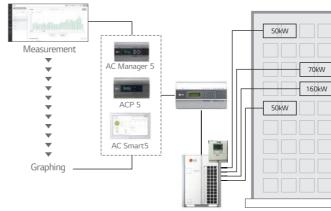
PDI shows distributed power consumption of up to 128 indoor units.



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

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



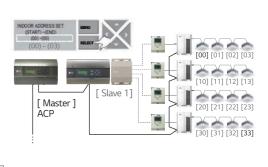


- Note : 1. Power cable and type could be different from this scene depending on the Outdoor unit's specification. Measured power consumption could be different between PDI and Watt meter.
 Applicable Central Controller : ACP 5, ACP LonWorks, AC Smart 5, AC Ez Touch.
 - (Combination : we recommend to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

Model Name	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 1	55 x 65
Interfaceable Products	Air conditio	ner, ERV DX
Maximum Number of Power Meters	EHP : 8 Watt meter GHP : 4 Watt meter / 4 Gas meter	EHP : 2 Watt meter GHP : 1 Watt meter / 1 Gas meter
Maximum Number of Indoor Units	MULTI V : 128	
Data Backup When Power Outage	0	
Power Input	PDI : AC 24V, Tran	sformer : AC 220V

※ ○ : Applied, - : Not Applied





ACS IO Module

Features & Benefit

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.



Model Name		PEXPMB000
Linkable Products		PACS48000 PACP48000 PACS5A000 PACP5A000
Communication	RS-485	1 ch.
	Digital Input	3 port
1/0	Digital Output	3 port
1/0	Universal Input 1)	4 port
	Analog Output	4 port

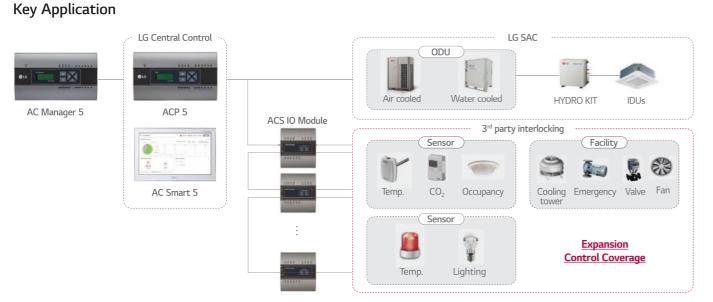
PEXPMB000

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

	, manog o acpac	, pore		
Value Spec		Min.	Max.	
	NTC 10k	0.68k Ω	177k Ω	
	PT 1000	803 Ω	1,573 Ω	
Analog Input	Ni 1000	871.7 Ω	1,675.2 Ω	
	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	

^{※ ○ :} Applied, - : Not Applied

1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

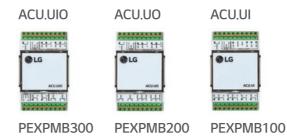


* DI : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output / Please contact our regional office to have connectable relay specification for analog output.

ACU IO Module

Features & Benefit

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.



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

Chiller Option kit

Features & Benefit

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



PCHLLN000

Cycle Display Example

ELECTRONICS verter air-cooled scroll chillers	Remote Heating	40.0°C RUN	Stop R.
	View All Cyr	cle1 Cycle2	Cycle3 Cycle4
BB	Pump Output	Pump Interlock	Flow switch
01	Outdoor Temp 13.3	Total Running current 0.0	Start-up delay Sec 0.0
	Demand control	Load water outlet Temp 38.7	Load water inlet Temp

Module Name	PEXPMB300	PEXPMB200	PEXPMB100
Linkable Products	PA	CS5A000, PACP5A0	00
Communication RS-485	2 ch. 1)	1 ch.	1 ch.
Digital Input	-	-	3port
Digital Output	2port	6port	-
Universal Input ²⁾	4port	-	6port
Analog Output	2port	4port	
Value Spec		Min.	Max.
Angles Innut		01/	101/

rade spee			inicust.
Analog Input	DC (Voltage)	OV	10V
Analog Output	DC (Voltage)	OV	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal Open	-	30VDC, 1A

※ ○ : Applied, - : Not Applied

The reserved for internal communication.
 The type of UI (Universal Input) is selectable among Digital Input and Analog Input.

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 Change	Scroll chiller only
Schedule	0
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (LG Only)

 $\ll \bigcirc$: Applied, - : Not Applied

Installation Scene

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

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



Dry Contact

Feature List

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

Model N	ame		PDRYCB000	PDRYCB400	PDRYCB300	NEW PDRYCB320*	PDRYCB500
Case			0	0	0	0	0
Input Port			1	2	8	8	-
Universal I	nput port		-	-	-	1	-
Comm. Pro	otocol		-	-	-	-	Modbus RTU
Power			AC 220V		Connect to Indoor	unit PCB (CN_CC)	
		On / Off	0	0	0	0	0
		Oper Mode	-	0	0	0	0
		Set Temp.	-	(Select & Fix)	(Select & Fix)	(Select & Fix)	0
	Air conditioner	Fan Speed	-	-	0	0	0
		Thermo-Off	-	(Select & Fix)	0	0	-
		Energy Saving	-	(Select & Fix)	-	-	-
		Lock/Unlock	-	(Select & Fix)	-	-	-
		On / Off	0	-	0	0	-
Cantual		DHW On / Off	-	-	0	0	-
Control		Thermo-Off	-	-	0	0	-
	AWHP	Oper Mode	-	-	0	0	-
		Silent Mode	-	-	0	0	-
		Emergency Mode	-	-	0	0	-
		On / Off	0	-	-	-	0
		Oper Mode	-	-	-	-	0
	Vent	Air conditioner Mode	-	-	-	-	0
		Additional Mode	-	-	-	-	0
		Fan Speed	-	-	-	-	0
		Operation Status	0	0	0	0	0
Output		Error	0	0	0	0	0
		Room Temp.	-	-	-	-	0

※ ○ : Applied, - : Not Applied

* Available from April 2020

Note : 1. Compatibility of PDRYCB300, PDRYCB320

- 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)

- AWHP : 3 series split and monobloc models 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

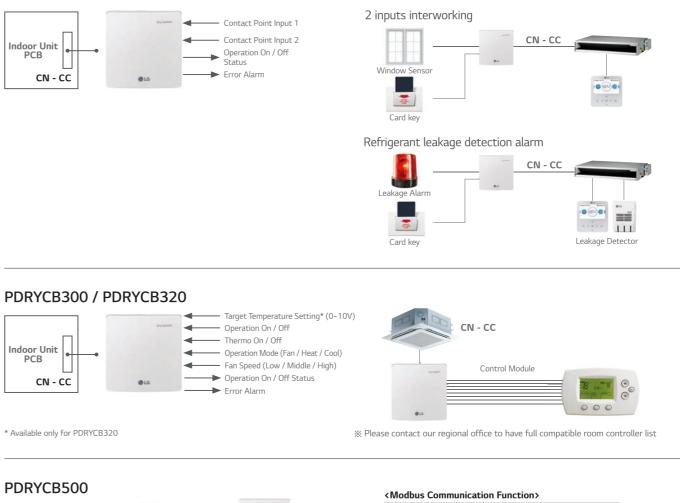
3. (Select & Fix) : This function is preset by rotary switch

PDRYCB000



PDRYCB400







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



Group Control Wire

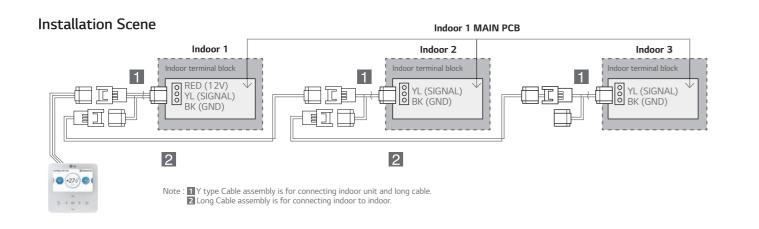
Features & Benefit

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



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

PZCWRCG3



Remote Temperature Sensor

Features & Benefit

Sensor for detecting the room temperature.



PQRSTA0

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

Installation Scene

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



Low Profile Remote Temperature Button Sensor

Features & Benefit

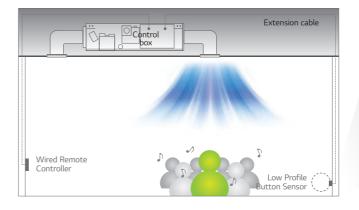
This installs easily and discreetly into a wall and then connects to indoor unit.



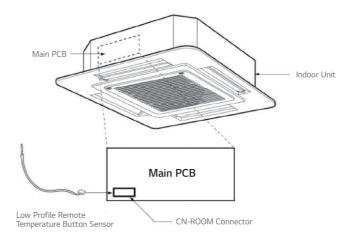
ZRTBS01

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

Key Application



Installation Scene

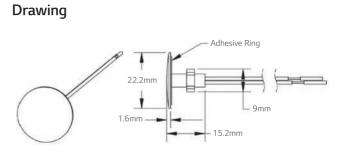


Model Nam	1e	ZRTBS01
Operation Ra	ange	-40°C to 85°C (0 to 100%RH, Non-condensing)
Sensing Elem	nent	Thermistor
Sensing Element Accuracy		0.2°C (0 to 70°C)
	Material	Etched Teflon
Wire Leads	Length	15m
	Thickness	0.33mm ²
Mounting		10mm hole, push in plastic sheath with peel off tape strip
Enclosure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

Models Applied

• LG indoor units excluding Wall-Mounted Type.





Zone Controller

Features & Benefit

Controls air conditioning up to 4 zones by external thermostat.



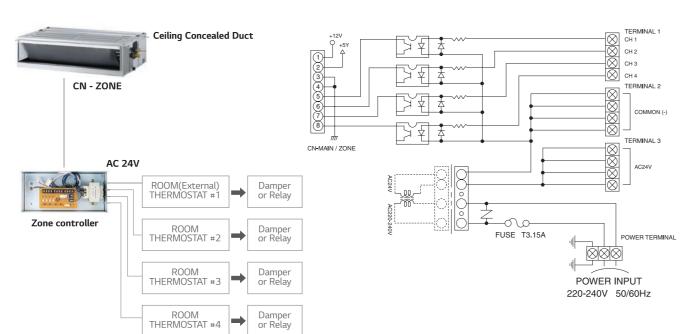
ABZCA

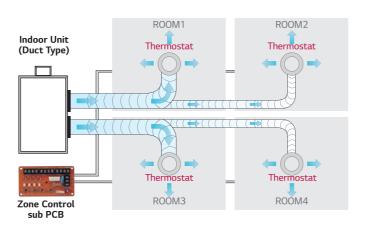
- Controls different zones (up to 4 zones) by external thermostat (AC 24V).
- Maintain proper air volume of each zone.
- · Auto variation of dampers.
- Auto control of fan speed and On / Off operation.

Models Applied

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

Wiring Diagram





IO Module

Features & Benefit

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



PVDSMN000

Function

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

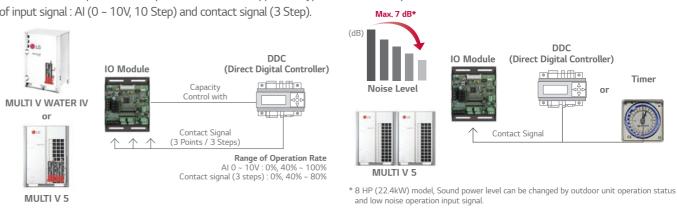
Description

• IO Module is communication interface module for connection between MULTI V 5 and external IO (Input / Output Module) devices. Note : IO Module is not compatible for MULTI V III.

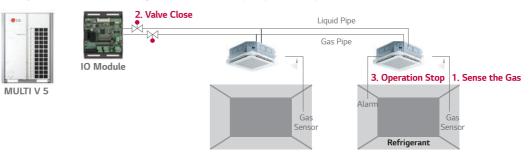
Key Application

Demand Control

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



Refrigerant Leakage detection with Pump-down For safety, IO module close refrigerant valve when pump-down operation.

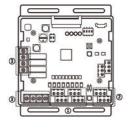


Models Applied

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

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



Low Noise Operation

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

Water Communication Module

Features & Benefit

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.



NEW PAHCMW000

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

Contents	C	onnection Port	Function
	CH1 (A+ / B-)	Module Comm. Port	Communication Port Modbus
RS485	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 3 rd 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	-
Slingle	Reserved	-	-
	DO1	Defrost / Mode	Output for defrost signal and/or cool mode
Digital Output	DO2	Pump	Output signal for pump On / Off
	DO3	Bypass	Output signal for PHEX Bypass Valve
NTC	RI3	Thermistor Pipe In	PHEX Ref. Inlet Pipe Sensor
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	Capacit	PAHCMW000			
Model	Min	Мах	PARCIWW000		
PAEEVC000	3.6	28	HP/HR		
PRLK048A0	3.6	28	HP/HR		
PRLK096A0	28.1	56	HP		

LG Controllers

C	Individual Controller	Centralized	l Controller	Dry Contact	
Controller	Standard III	AC EZ touch	AC smart 5	Dry Contact	
	PREMTW101	PACEZA000	PACS5A000	PDRYCB000	

LG Controllers

• The 3rd party can select the for best usable version.

Solenoid valve for Bypass

Capaci	ity (kW)		Sustan	Kv Value of solenoid and	Pipe Size						
Min.	Max.	EEV type	System	Non-Return Valve							
3.6	28	20	20	20	20	6 20	PAEEVC000	HP/HR	0.95	3/8" / 9.52mm	
5.0		PRLK048A0		0.95	5/6 / 9.5211111						
>28	56	PRLK096A0	HP	1.9	1/2" / 12.7mm						

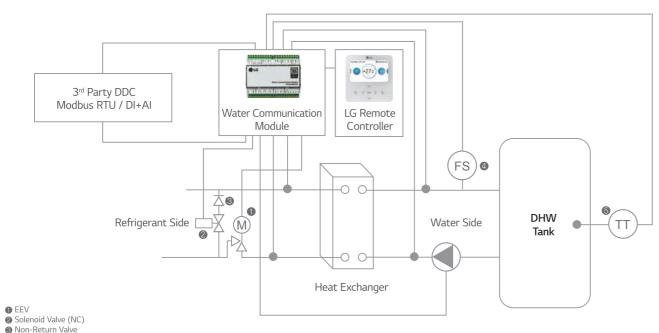
Flow switch

• 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		

 $28 \times 3.29 = 92.12$ L/min nominal flow $28 \times 1.23 = 34.44$ L/min flow switch cut off

Overview



Non-Return Valve
 FS : Flow Switch

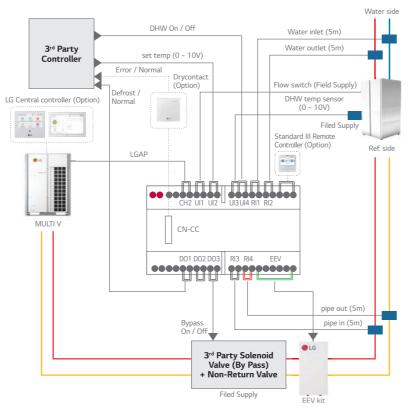
IT : DHW Temperature Transmitter

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

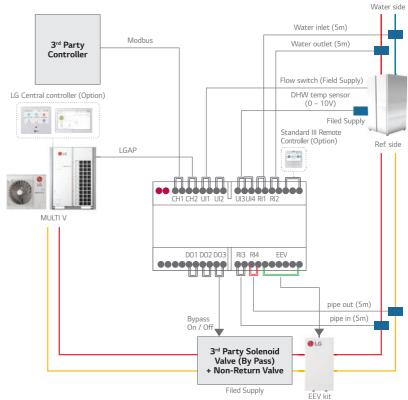
Water Communication Module Application

Installation scene with Contact connection

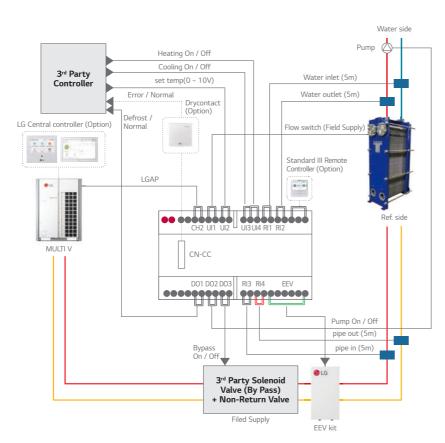
Contact signal + DHW Only Setting



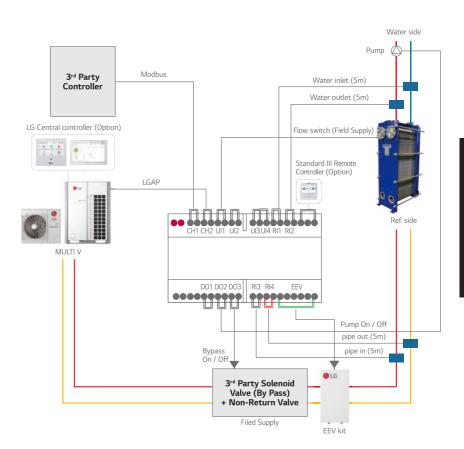




Contact signal + Heating / Cooling Setting



Modbus + Heating / Cooling Setting





Variable Water Flow Control Kit

Features & Benefit

Accessory developed for controlling the water flow.



PWFCKN000 (MULTI V WATER IV)

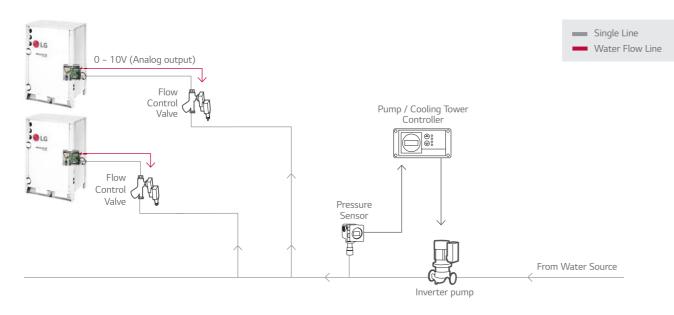
Function

- Water pump or valve control (0 ~ 10V)
- Minimum output voltage setting available
- Operation, error output (AC 250V, Max. 1A)
- Dry contact input and analog output for demand control
- Digital output for operation, error status (AC 250V, Max. 1A).

Advantage

- Water flow consumption reduction
- Pump electricity consumption reduction
- Including IO Module (Dry contact input, Analog input / output, Digital output)
- : Using Dry contact and variable water flow control function simultaneously

Wiring Diagram



% Flow control valve : Regulates the flow or pressure of a fluid, normally responding to signals generated by independent devices.
% Flow Meter : Measures mass flow rate of a fluid traveling through a tube. (The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.) % Pressure Sensor : Measures the pressure.

Low Ambient kit

Features & Benefit

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



PRVC2

Function

- -25°C Low ambient cooling operation by Low ambient kit and hood with damper (Analog output 0 ~ 10V).
- Demand control
- Low noise operation
- Output outdoor or indoor unit operation status (AC 250V, Max. 1A)
- Output error status (AC 250V, Max. 1A)

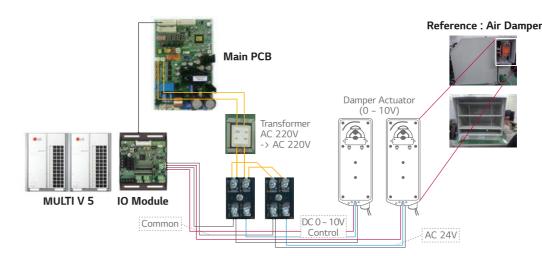
Description

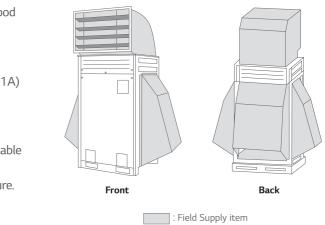
- Low ambient kit supports -25° C cooling operation by making stable condensing pressure with reducing air flow rate from hood and damper control given 0 ~ 10V proportional to condensing pressure.
- Low ambient kit provides IO Module function.
- External snow hood and air damper are required for this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

Models Applied

- MULTI V 5
- MULTI V IV

Installation Scene





Cool / Heat Selector

Features & Benefit

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



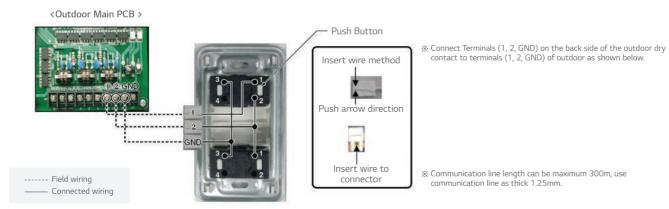
PRDSBM

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

Models Applied

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

Wiring Diagram



AHU Kits

Features & Benefit

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



Specifications

Control Application Kit

Тиро	Model	Dimensions (mm)		Power Supply	ID Dating	Description	
Туре	iniodet	w	н	D	Power Supply	IP Rating Description	
Communication Kit	PAHCMR000	300 300 155 10,220 - 240 V, S0/60 Hz IP66 Return / by DDC or LC		Return / Room air temperature control by DDC or LG individual / centralized controller			
CONTINUNICATION KIL	PAHCMS000	380	300	155	1Ø, 220 ~ 240 V, 50/60 Hz	IP66	Discharge air / Supply air temperature control by DDC or LG individual / centralized controller
Controller Module	PAHCMM000	162	90	61	DC 12V	IP20	Main Controller module
Controller Module	PAHCMC000	108	90	61	DC 12V	IP20	Communication Controller module
Control Kit	PAHCNM000	500	500	210	1Ø, 220 ~ 240 V, 50/60 Hz		Various AHU control functions with multiple DX coils (Maximum connectable ODU is 3 units)

 \otimes \bigcirc : Applied, - : Not Applied

Expansion Application Kit

	Turne	Model	Dimensions (mm)		mm)	Pipe Diameter (mm)	Capacity Index Range		
	Туре	wodet	w	н	D	Fipe Diameter (min)	Capacity index Range		
		PRLK048A0	217	404	83	12.7	3.6 ~ 28 kW		
-		PRLK096A0	217	404	83	12.7	28.1 ~ 56 kW		
	EEV Kit	PRLK396A0	349.5	345.5	180	19.05	56.1 ~ 112 kW		
		PRLK594A0	409.5	345.5	180	19.05	112.1 ~ 168 kW		

 $\otimes \bigcirc$: Applied, - : Not Applied





AHU Kits

Communication Kit

HIGH ENERGY EFFICIENCY

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

Solution benefits offer the following advantages :

- High energy efficiency inverter system
- Large range of expansion 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 system such as LG individual / central controller and DDC¹⁾. It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

• LG Individual / Central controller supported

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

1) DDC : Direct Digital Controller

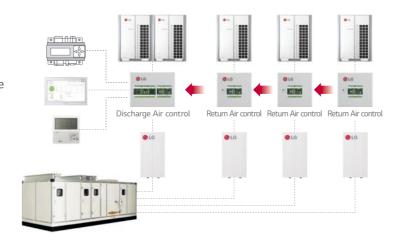
EXPANDABLE SYSTEM DESIGN

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

• Multiple module combination for large capacity AHU.

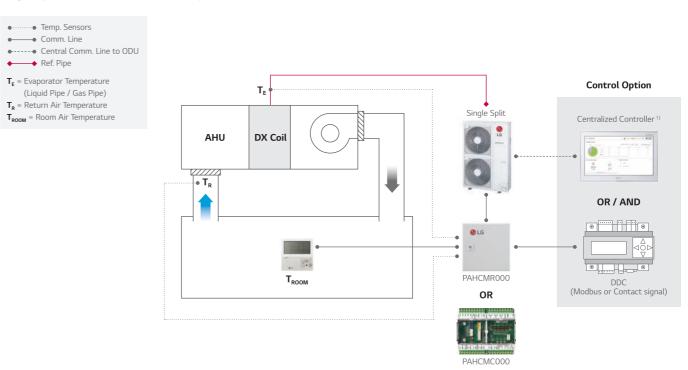




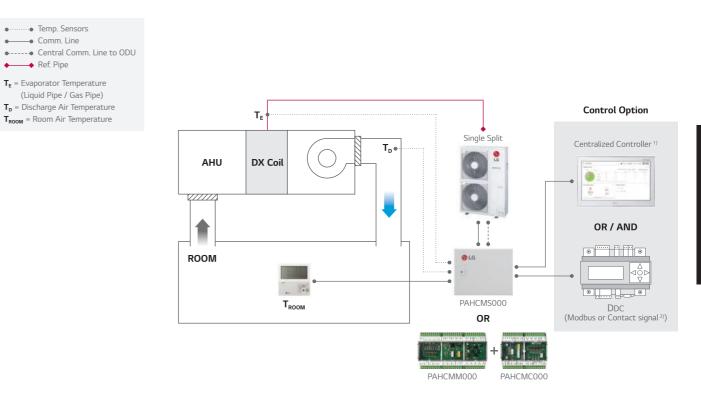


Single Split Application (Communication Kit & Controller Module)

Single Split + Return / Room Air Temperature Control



Single Split + Discharge Air Temperature Control



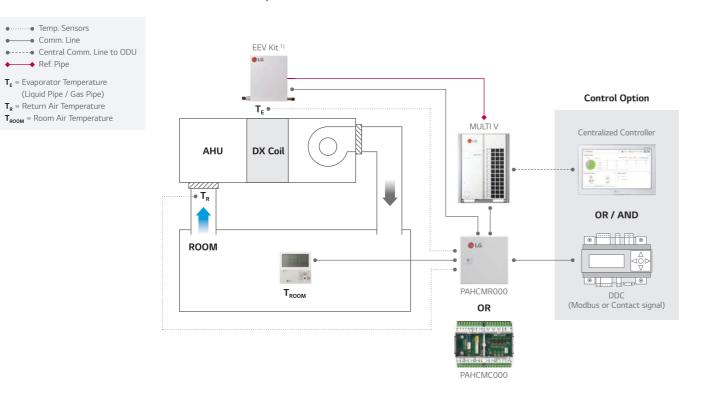
1) PI485 (PMNFP14A1) is required for centralized controller. 2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC. Note : For more detail, please refer to the PDB



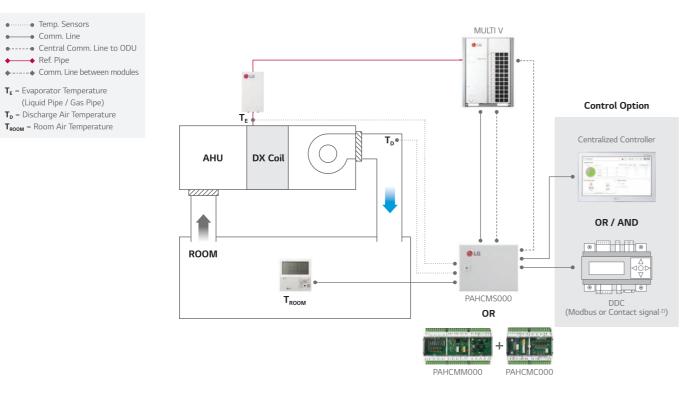
AHU Kits

MULTI V Application (Communication Kit & Controller Module)

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



MULTI V + EEV Kit + Discharge Air Temperature Control



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

Communication Kit Function

Communication with DDC via Contact Signal

Function L	ist	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	Туре	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'
Control ¹⁾	Fan Speed 3)	-	High / Middle / Low	Digital Input (Non Voltage)	-
	Forced Thermal On / Off	On / Off	-	Digital Input (Non Voltage)	-
	ODU Capacity Control	-	40 ~ 100%	Analog Input (DC 0 ~ 10 V / 20mA)	-
	Emergency Stop	-	Stop / Normal	Digital Input (Non Voltage)	-
	Operation	On / Off	On / Off	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
	Operation Mode	-	-		It needs to be checked through control signal
	Fan Speed	High / Middle / Low	High/Middle/Low	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'On' (Fan Mode) In this case, 'On / Off, defrost, error Status' cannot monitored by DO ports
Monitor	Defrost Operation	Defrost / Normal	Defrost / Normal	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
	Error Alarm	Error / Normal	Error / Normal	Digital Output, Relay C contact (Max DC 30V / 1 A, AC 250V / 1 A)	For PACHMR000, dip sw1-3 DO Type should be set 'Off' (Status), In this case, 'fan speed' cannot monitored by DO ports
	Compressor On / Off	-	On / Off	Digital Output (Max : DC 30 V / 1 A, AC 250V / 1 A)	-

1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.

2) The range of temp, is differ depending on the type of the controller.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.

Note : For more detail information, please refer to the product data book.

Communication with DDC via Modbus protocol

Function	List	PAHCMR000 (PAHCMC000)	PAHCMS000 (PAHCMM000 + PAHCMC000)	Note		
	Operation On / Off	On / Off	On / Off			
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan			
	Return (Room) Air Temperature	16 ~ 30 °C	-			
Control ¹⁾	Discharge Air Temperature 1)	-	12 ~ 50 °C	Dip SW1-2 Discharge Temp. Control Type should be set 'On'		
	Fan Speed 2)	High/Middle/Low	-			
	Forced Thermal On / Off	-	-			
	ODU Capacity Control 1)	-	40 ~ 100%	Dip SW1-2 Discharge Temp. Control Type should be set 'Off		
	Emergency Stop	-	-			
	Operation	On / Off	On / Off			
	Operation Mode	Cooling / Heating / Fan	Cooling / Heating / Fan			
	Return (Room) Air Temperature	0	-	Corresponding air temperature sensor		
	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			

※ ○ : Applied, - : Not Applied

1) In case of PAHCMS000, control type between "Discharge Air Temperature" and "ODU Capacity Control" is selectable. 2) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel. Note : For the Modbus memory map and more detail information, please refer to the product data book.

AHU Kits

Communication Kit Function

With LG Control system (Individual & Centralized Controller)

Function L	.ist	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
Control ¹⁾	Return (Room) Air Temperature ²⁾	0	-	· ·
control	Discharge Air Temperature ²⁾	-	0	Standard II : 16 ~ 30 °C / Standard III : 12 ~ 50 °C (Available in April, 2020) / Central Controllers : 12-50°C
	Fan Speed 3)	High / Middle / Low	High / Middle / 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	0	-
Monitor	Discharge Air Temperature	-	0	
IVIONITOR	Fan Speed	High / Middle / Low	High / Middle / Low	-
	Defrost Operation	On / Off	On / Off	Only with Individual Controller
	Error Alarm	Error Code	Error Code	Error code will be displayed on the screen
	Compressor On / Off	On / Off	On / Off	Only with Individual Controller

※ ○ : Applied, - : Not Applied

1) Control functions for LG individual and central controller are not available in case of using together with DDC via contact signal.

2) The range of setting temperature is different depending on the type of the controllers. And operation may different from setting range.
3) To control fan speeds, DO port of the fan speed status should be connected to the fan control panel.
4) Emergency stop can be used with DI port even though LG control system is set. (Refer to the detail information of product data book)

Note : For more detail information, please refer to the product data book.

Compatibility with LG HVAC Controllers

,	,							
	Inc	dividual Contro	ller		Cen	tralized Contro	oller	
Controller	Premium	Standard III	Standard II	AC Ez	AC Ez Touch	AC Smart 5	ACP 5	Man
Controller	2517			14 14 14 14 14 14 14 14 14 14 14 14 14 1				

		3 1 - 1 - 1				A_1.7	and with the			
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	-	O ²⁾	0	-	-	0	0	0	-	-

MS Gateway

ACP

PDI

※ ○ : Applied. - : Not Applied

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

Outdoor Unit Compatibility

For Small Size Application (~ 15 kW) - Single Split

Туре	Model	UUA1 (2.5 ~ 5.0 kW) ¹⁾	UUB1 (5.0 ~ 8.0 kW) ¹⁾	UUC1 (7.1 ~ 10.0 kW) ¹⁾	UUD1 / UUD3 (10.0 ~ 15.0 kW) ¹⁾
Communication Kit (Controller Module)	PAHCMR000 (PAHCMC000)	-	0	0	0
	PAHCMS000 (PAHCMM000 + PAHCMC000)	-	0	0	0
Control Kit	PAHCNM000	-	-	-	-

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

Туре	Model		MUI	MULTI V WATER			
	INIOGEL	5	IV	III	S	IV	II
	PAHCMR000 (PAHCMC000)	0	0	0	0	0	0
	PAHCMS000 (PAHCMM000 + PAHCMC000)	0	0	0	0	0	0
Control Kit	PAHCNM000	0	0	0	0	0	0

Expansion Application Kit Compatibility

	Capacity index (kW)		Control Applicatio	n Kit (Maximum con	nectable EEV Kits)	Connection by ODU system			
EEV Kit Model	Min.	Max.	PAHCMR000	PAHCMS000 (PAHCMM000 +	PAHCNM000	MUI	Single Split		
	IVIIII.	iviax.	(PAHCMC000)	PAHCMC000)		Heat Pump	Heat Recovery	Single Spire	
PRLK048A0	3.6	28	O (1)	0(1)	0 (6)	0	0	-	
PRLK096A0	28.1	56	0 (1)	0 (1)	0 (6)	0	0 (Max. 33.7 kW)	-	
PRLK396A0	56.1	112	O (1)	0(1)	○ (6)	0	-	-	
PRLK594A0	112.1	168	-	0(1)	0 (3)	0	-	-	

 $\otimes \bigcirc$: Applied, - : Not applied

Note: 1. Table of the outdoor unit compatibility is based on European regional model. 2. When connecting outdoor units in other areas, please check whether they are compatible or not. 3. Expansion application kit compatibility is based on capacity index of the system, it may changed according to system design condition.

Control Kit

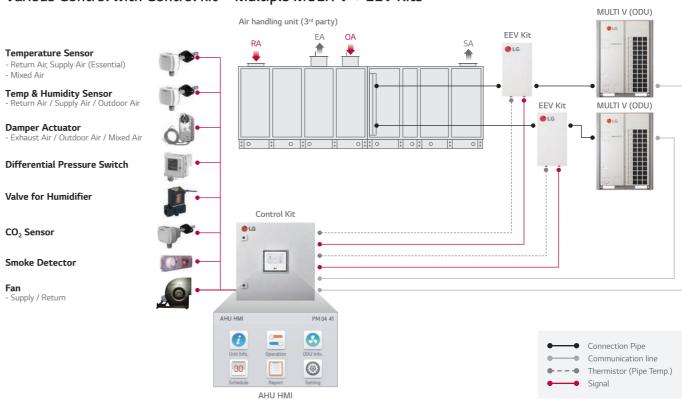
List	Required Item					
Heating / Cooling	SA / RA temperature sensor (or SA / RA temperature & humidity sensor)					
Automatic Ventilation	SA / RA temperature, CO ₂ sensor, Damper actuator (OA, EA, MA)					
Energy Saving (Cooling Mode Only)	SA temperature, OA / RA temp&humidity sensor, Damper actuator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

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

Field Supplied Item

List	Required Specification	Apply Location
Temperature Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -50 ~ 50°C	- Apply to MA, SA, RA
Temperature & Humidity Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -40 ~ 70°C - Humidity boundary : 0 ~ 95% RH	- Apply to SA, RA, OA - Can not be applied to MA
Damper Actuator	- Power : AC 24V, In/Output signal : DC 0 ~ 10V - Rotation angle : 90°	- Apply to OA, EA, MA damper
Difference Pressure Sensor (for Filter)	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1,000Pa - Switch type : Relay Open / Close	- Apply to filter
Static Pressure Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1,000pa	- Apply to SA (for inverter control)
CO ₂ Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 2,000ppm	- Apply to RA duct
Smoke Detection Sensor	- Power : AC 24V, From : Contact point type	- Apply to RA duct

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



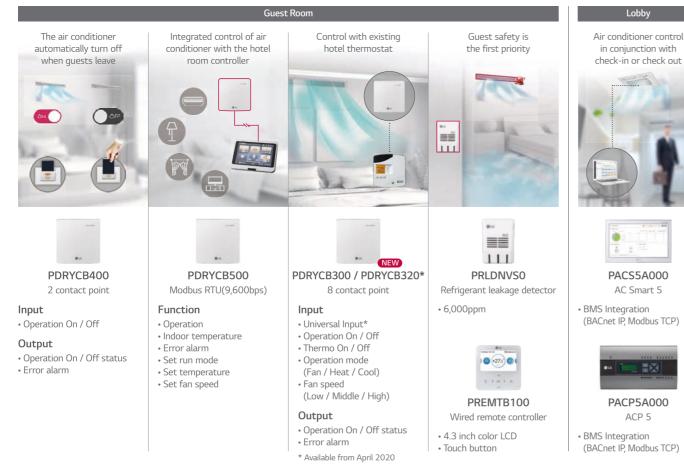
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HOTEL APPLICATION

Hotel Control Solution



Hotel Proposal / Design



SHOPPING MALL APPLICATION

Shopping Mall Control Solution



Shopping Mall Reference

e15

Dry contac

015

Dry contact

....

Dry contac or thermos

Refrigeran Leak detect

0

AC Smart 5 (Schedule)

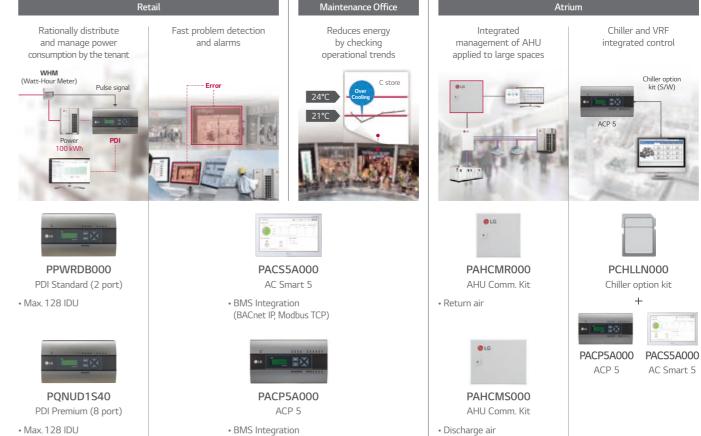
Lobby

PACS5A000

AC Smart 5

PACP5A000

ACP 5



 BMS Integration (BACnet IP, Modbus TCP)

Retail

Rationally distribute and manage the power consumption by tenants.

Fast problem detection and alarms.





Maintenance Office

Reduces energy by checking operational trends.

Atrium

Integrated management of AHU applied to large spaces.

Chiller and VRF integrated control.



@1.6

Comm Ki



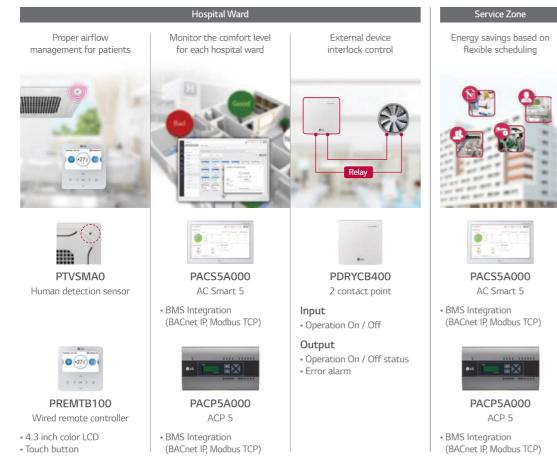


HOSPITAL APPLICATION

Hospital Control Solution



Hospital Proposal / Design



EDUCATION APPLICATION

Education Control Solution



Education Proposal / Design

Lobby

Centralized management

of AHU for large space

PAHCMR000

AHU Comm. Kit

PAHCMS000

AHU Comm. Kit

• Return air

• Discharge air







• 4.3 inch color LCD

Touch button

PREMTB100 Wired remote controller

PACS5A000

AC Smart 5

BMS Integration

 BMS Integration (BACnet IP, Modbus TCP)

Class Room

Automatically save energy in the absence of students.

Central controls prevent students from arbitrary control.

Lecture Room

Schedule management according to academic plan.

Maintenance Office

Integrated management of distributed buildings.

Centralized management with multiple









Lecture Room

Maintenance Office

Schedule management according to academic plan



Integrated management of distributed buildings

interfaces.

Centralized management with multiple interfaces





+

PACP5A000 ACP 5 (BACnet IP, Modbus TCP)



OFFICE APPLICATION

Office Control Solution



Maintenance Office

Energy savings and management throughout the building. Integrated management of HVAC with

Reduce costs by replacing BMS.

Office Room

BMS system.

Reasonable power distribution to tenants.

Server Room

Main equipment 24 hours back up management.

Meeting Room Energy savings based on occupancy detection



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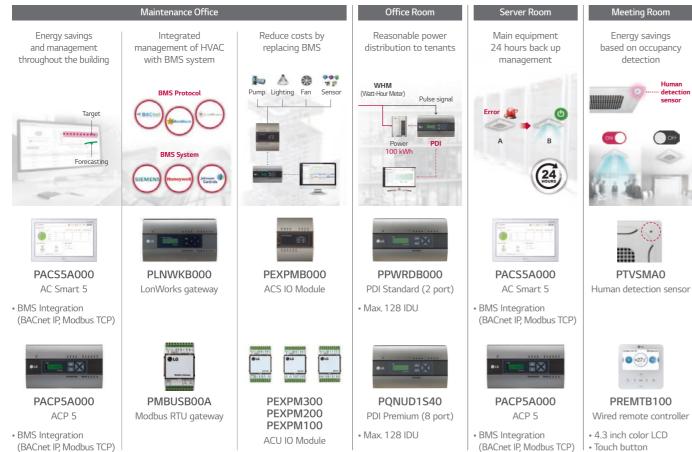
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CS IO Mod

OF

Office Proposal / Design



RESIDENTIAL APPLICATION

Residential Control Solution



Residential Proposal / Design

Living Room

Build a smart house

PDRYCB500

Modbus RTU (9,600bps)

Function

Operation

• Error alarm

Indoor temperature

Set operation mode

Set temperature

Set fan speed

Control your home air conditioner anytime. anywhere ((()))



LG Wi-Fi modem

Function • On / Off

- Fan speed Operation mode
- Vane control
- Reservation
- (Sleep, Weekly On / Off) • Error check



8 contact point

Input Universal Input*

- Thermo On / Off Operation mode
- (Fan / Heat / Cool)
- Fan speed (Low / Middle / High)

Output

 Operation On / Off status Error alarm

* Available from April 2020



ACCESSORIES

MECHANICAL ACCESSORIES



PIPING ACCESSORIES

Cassette Panel

Key Features

Stylish designed panels make more unique space by various applications.





PT-QCHW0, PT-MCHW0



PT-MCGW0,

PT-UTC / PT-UUC / PT-UUC1

PT-AAGW0, PT-AFGW0 (Air Purify)

1 Way Cassette Panel



PT-TAHW0 / PT-UAHW0



PT-TPHG0 / PT-UPHG0 (Air Purify)

• Independent vane operation uses separate motors, making it Possible to control all 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.

Specification

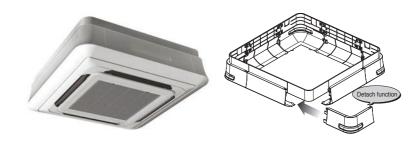
		Suction				Dimension (mm)			Applied model capacity (kW)*				
Model	Model		Color (RAL)	Gloss	Weight (kg)	w			MULTI V	Single Split		Multi Split	
		Туре	(1012)		("9/	VV	н	D	R410A	R32	R410A	R32	R410A
	PT-AAGW0	Grill	Noble White (RAL 9003)	-	7.1	950	35	950	1.6 ~ 14.5	-	-	-	-
Dual Vain	PT-AFGW0 (Air Purify)	Grill	Noble White (RAL 9003)	-	7.5	950	35	950	1.6 ~ 14.5	-	-	-	-
	PT-QCHW0	Grill	Morning Fog (RAL 9001)	-	3.0	620	35	620	1.6 ~ 6.2	2.5 ~ 5.0	2.5 ~ 5.0	1.5 ~ 5.3	1.5 ~ 5.3
	PT-MCHW0	Grill	Morning Fog (RAL 9001)	-	6.3	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	6.8 ~ 14.6	6.7	-
4 Way	PT-MCGW0	Grill	Morning Fog (RAL 9001)	-	5.0	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	6.8 ~ 14.6	6.7	6.7
	PT-MPGW0 (Air Purify)	Grill	Morning Fog (RAL 9001)	-	5.0	950	35	950	7.1 ~ 15.8	6.8 ~ 14.6	6.8 ~ 14.6	6.7	6.7
2 Way	PT-USC	Grill	Morning Fog (RAL 9001)	-	4.7	1,100	28	690	2.8 ~ 7.1	-	-	-	-
	PT-TAHW0	Grill	Ivory White	-	3.3	1,100	34	500	1.2 ~ 4.0			2.3 ~ 4.0	2.3 ~ 4.0
	PT-UAHW0	Grill	Ivory White	-	3.3	1,100	34	500	1.2 ~ 4.0			2.3 ~ 4.0	2.3 ~ 4.0
	PT-TPHG0	Grill	White	0	3.9	1,160	34	500	1.2 ~ 4.0			2.3 ~ 4.0	2.3 ~ 4.0
	PT-UPHG0	Grill	White	0	3.9	1,160	34	500	1.2 ~ 4.0			2.3 ~ 4.0	2.3 ~ 4.0
1 Way	PT-UTC	Grill	Noble White (RAL 9003)	0	5.5	1,420	34	500	5.6 ~ 7.1			-	-
	PT-UUC	Grill	Noble White (RAL 9003)	0	4.6	1,100	34	500	2.2 ~ 3.6			-	-
	PT-UUC1	Grill	Noble White (RAL 9003)	-	4.4	1,100	34	500	-			2.6 ~ 3.5	2.6 ~ 3.5
	PT-UTD	Panel	Noble White (RAL 9003)	0	5.5	1,420	34	500	5.6 ~ 7.1			-	-
	PT-UUD	Panel	Noble White (RAL 9003)	0	4.6	1,100	34	500	2.2 ~ 3.6			-	-

* Based on cooling capacity. ※ 〇 : Applied, - : Not applied

Cassette Cover

Key Features

Cover in case of exposed cassette installation.



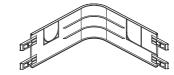
- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Included Parts

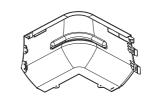
• Cover A, Cover B



Installation Manual



Cover A (4 units)



Cover C (4 units)

Specification

Model	Front	Danal	Weigh	nt (kg)	Dimensions (mm)			
Model	Front Panel		NET	Gross	W	н	D	
DTDCM	PT-UMC /	TP / TN	5.9	8.8	1,157	1,157	268	
PTDCM	PT-UMC1	TM	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	



PT-MPGW0 (Air Purify)



2 Way Cassette Panel

PT-USC

PT-UTD / PT-UUD

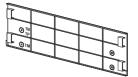
Model Name

PTDCM / PTDCQ

Applied Products

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





Cover B (4 units)



Cover D (4 units)

Screw (32 units)



Installation Manual

CO₂ Sensor

Key Features

CO₂ sensor in ventilation system.



Specification

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

Description

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

Model Name

AHCS100H0

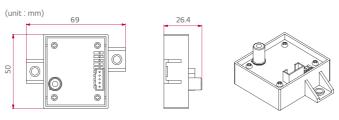
Applied products

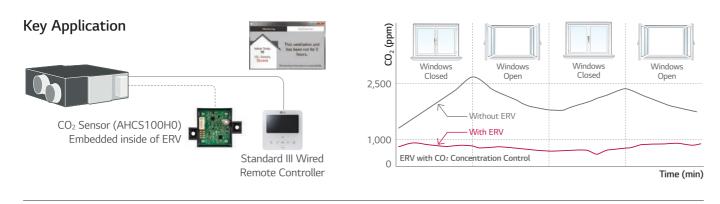
LZ-H025GBA4 LZ-H035GBA5 / LZ-H050GBA5 / LZ-H080GBA5 LZ-H100GBA5 / LZ-H150GBA5 / LZ-H200GBA5

Applicable products

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

Dimensions

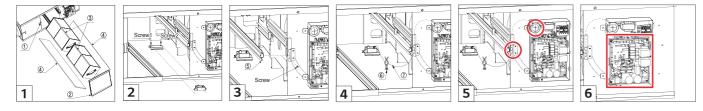




How to Intstall

- 1. Remove a screw on the service cover. Pull the service cover fixing bracket (①), then remove the service cover (②). Remove two elements (3) and two air filters (4).
- 2. Install the sensor with two screws.
- 3. Remove a screw, then remove the right side of element rail (⑤).
- 4. Press the holder (6) into the hole to fix the CO_2 sensor cable (7).
- 5. Connect the wire terminal to the $CN-CO_2$ port of PCB.

% Airflow can be controlled by concentration of CO2, after setting automatic operation mode at remote controller. % Use the screwdriver whose total length is less than 250mm



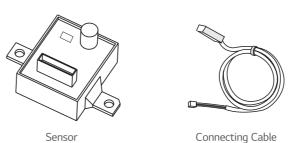
Refrigerant Leakage Detector

Key Features

R410A refrigerant leakage detector makes our space safer.

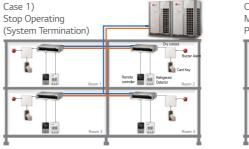


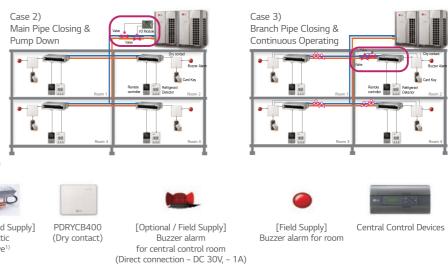
- This detector senses refrigerant leakage when the refrigerant concentration exceeds 6,000ppm. (The green and red LED lights blink simultaneously)
- Alarm is "ON" over 6,000ppm has been maintained 5 seconds, and Alarm is "OFF" under 6,000ppm has been maintained 5 seconds.
- When the alarm of the refrigerant 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.



Key Application

Refrigerant Leakage Detector has three application methods.





Accessory Specification (To realize the case 2 application)





I/O Module PVDSMN000 (Refrigerant leak detector) [Optional / Field Supply] Automatic Ball Valve^{1]}

Included Parts

Model Name

PRLDNVS0

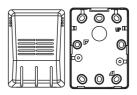
Applied Products

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

Specification

Parts	Specifications						
	Rated voltage (V)	DC 5.0 ±5%					
	Dimensions (W x H x D, mm)	31 x 44 x 20					
	Weight (g)	22					
Sensor	Detectable refrigerant	R410A					
Sensor	Detected concentration (ppm)	0 / 6,000 Alarm Off / On					
	Operating temperature range (°C)	-10 ~ 50					
	Preserved temperature range (°C)	-40 ~ 60					
	Average power consumption (mA)	35					
Connecting Cable	Cable length (m)	10					
Sensor Protective	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)



Sensor Protective Cover

EEV Kit

Key Features

Model Name

PRGK024A0

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



• Decreasing noise level of MULTI V Indoor units and easy installation.

Applied Products										
Indoor Unt	Model	Chassis	Applicable	Indoor Unt	Model	Chassis	Applicable			
	1 Way Cassette	TU	0		Floor Standing	CE CF	0			
	2 Way	TT	N/A		Convertible	VE	0			
	Cassette	TS	O(~5.6kW)		Ceiling	V1	-			
Cassette		TR	0		Suspended	V2	-			
	4 Wav	TQ	O(~4.5kW)	Etc	Wall Mounted	SJ	0			
	Cassette	TP	N/A	ELC		SK	0			
		TN	N/A			SV	-			
		TM	-		Art Cool	SF	0			
		BG	-		Console	QA	0			
	High Sensible		-		HYDRO KIT	K2	-			
		B8	-		HIDRO KII	K3	-			
	High Static	B8	-				12 11			
Duct		M1	O(~5.6kW)	※ ○: Applied, -: Not applied, N/A : Not Applicable						
Duci	Middle Static	M2	-							
		M3	-							
		L1	0							
	Low Static	L2	-							
		L3	-							

IR Receiver

Key Features

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

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0 *	00
	ON/OFF

• Designed for wireless control.

• Indication lamps (3 colors) and Self-diagnosis function.

Key Application

🕑 LG

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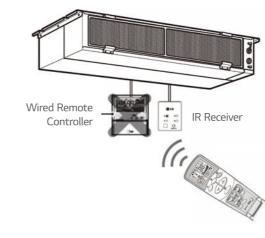
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Signal Receiver

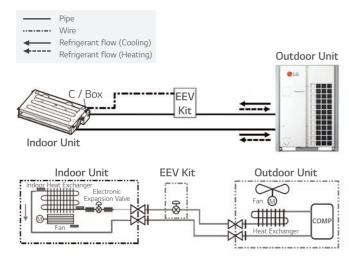


Wireless Remote Controller (Standard)

Operation of Indication Lamps

- ① Emergency Operation button Turns the indoor unit on or off when remote controller is not working. ② Signal Detector
- Receives the signal from remote controller. ③ Timer lamp (Green) :
- Lights up during the timer operation. 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.

Key Application



EEV Kit can be applied for the space which requires gutie and nosie-sensitive



Executive office

Meeting room

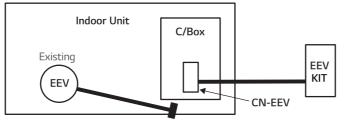
Note : If you don't use EEV of same specification, Cooling (Heating) capacity could be decreased.

How to Install

Open Indoor unit's control box cover.

- ① Open fully indoor unit's EEV through vacuum mode of ODU setting. ② Detach the Indoor unit's EEV connector from PCB and then push the
- reset button of Outdoor unit's PCB. ③ After connecting indoor unit's EEV CONNECTOR, repeat the process ① & ②. Then, connect the EEV CONNECTOR of EEV KIT in PCB of
- indoor unit. ④ Finally connect the lead wire of the EEV Kit to the indoor unit's PCB.

(5) Assemble the control box cover.



Model Name

PWLRVN000

Applied Products

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



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.

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

Independent Power Module

Key Features

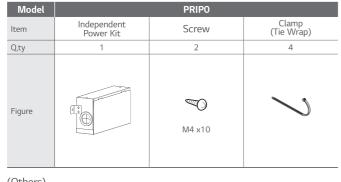
EEV fully close function in case of power cut.



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

Applied Product	TS
MULTI V Indoor Unit	S

Included Parts



(Others)

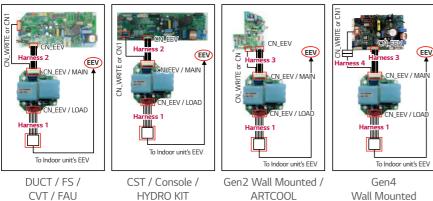
- Harness 1 (1m)
- Harness 2 (1m)
- Harness 3 (1m)
- Installation Manual
- Insulation (PE)

Key Application

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



How to Install



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

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

Auxiliary Heater Relay Kit

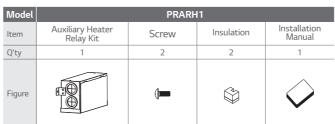
Key Features

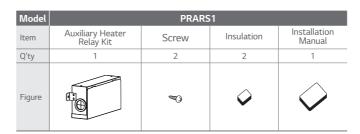
Providing an efficient way to add auxiliary heat.



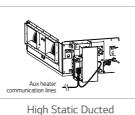
- Provides two stages of auxiliary heat for indoor unit.
- Provides ability to use the two stage auxiliary heater as the primary or secondary heating source.

Included Parts





How to Install





Low Static Ducted



1 Way Cassette

2 Way Cassette

Model Name

PRARS1

Applied Products

Wall Mounted, Art Cool Mirror, Art Cool Gallery

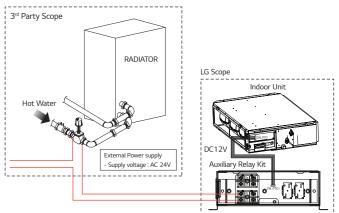
Model Name

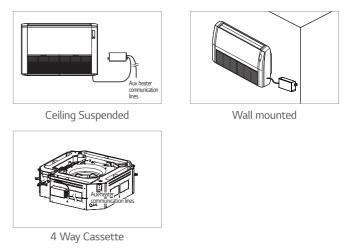
PRARH1

Applied Products

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

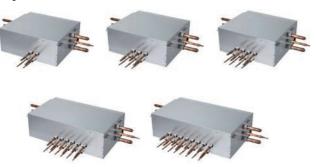
Key Application





Heat Recovery Unit

Key Features



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

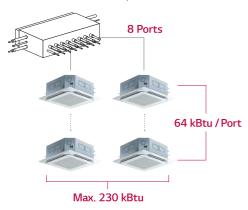
• Max. 64 indoor units can be connected. (Max. 8 indoor units per branch)

• It is easy to install due to the automatic search algorithm for piping detection.

• Subcooling cycle in HR unit makes the system efficiency maximum.

Connection Capacity

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



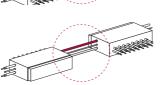
Flexible Connection

Series connection can be installed without pipes crossing.

New



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



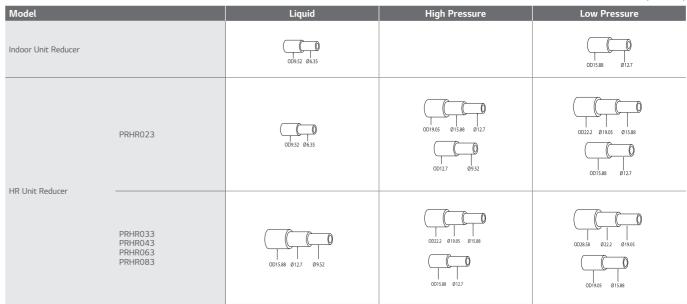
Included Parts

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

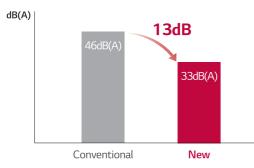
Specification

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

Reducers for Indoor Unit and HR Unit



Reduce Noise Heating \rightarrow Cooling switching operation



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 \rightarrow Heating switching operation

(Unit : mm)

Y Branch and Headerbranch

Key Features

Key Application

Heat Pump System

For refrigerant distribution of indoor units



- 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.

Model Name

Refer to specifications

Applied Products

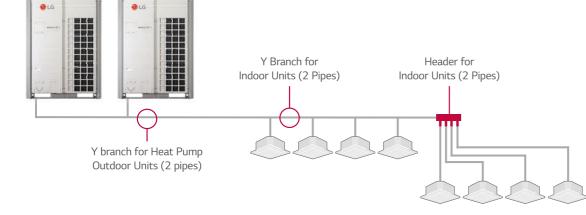
MULTI V 5 MULTI V IV MULTI V III, MULTI V Plus II, MULTI V Plus MULTI V S MULTI V Water IV MULTI V Water II

Specification

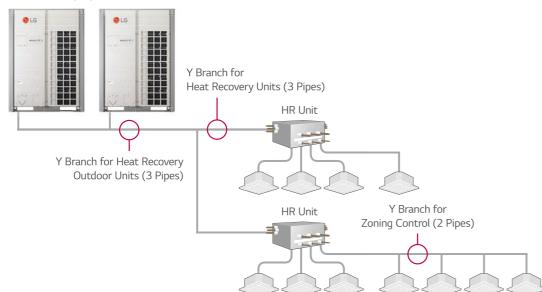
Header Branch

R410A





Heat Recovery System





ACCESSORIES

PIPING ACCESSORIES

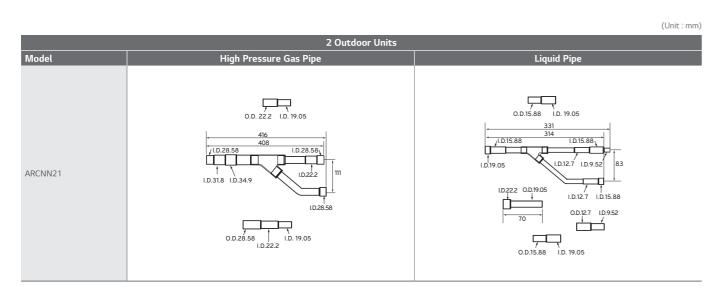
Y Branch and Header Branch

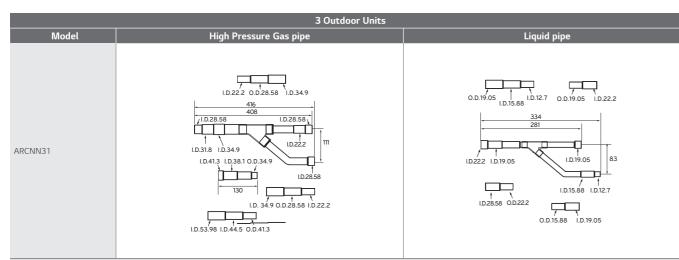
Specification

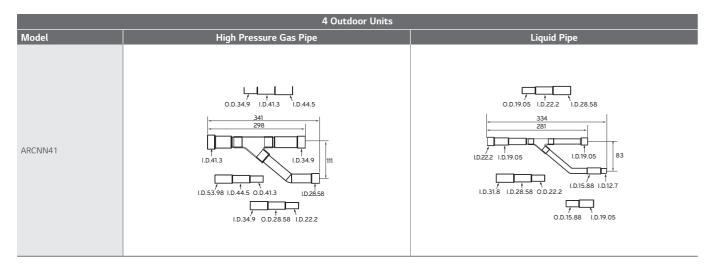
Heat Pump

R410A

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



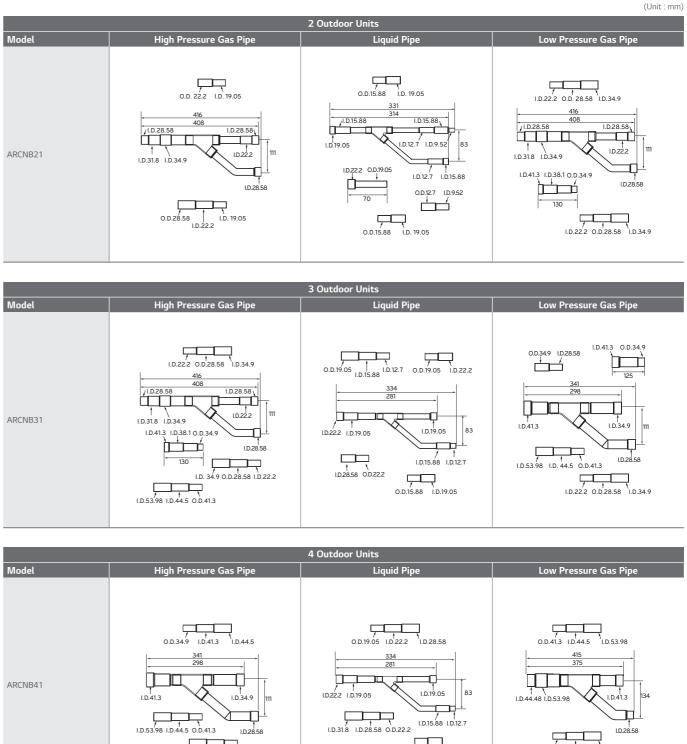


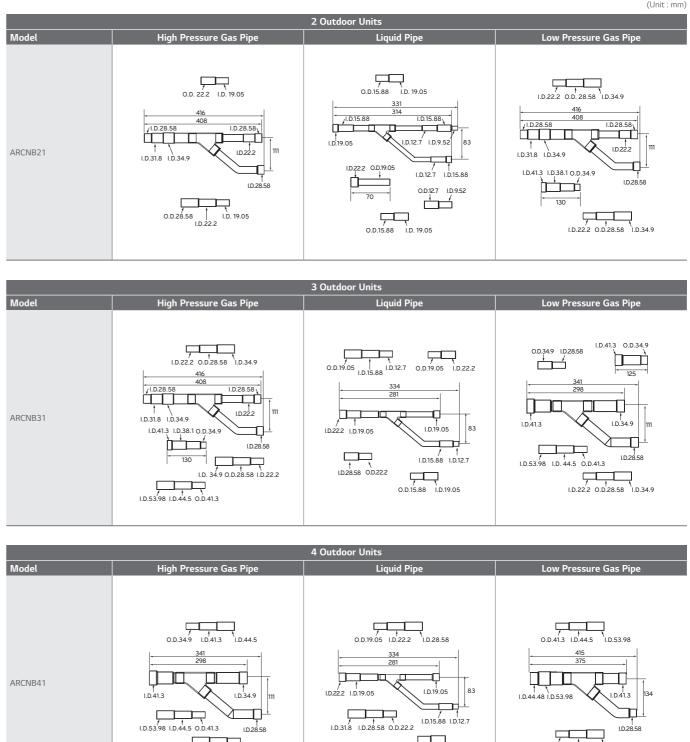


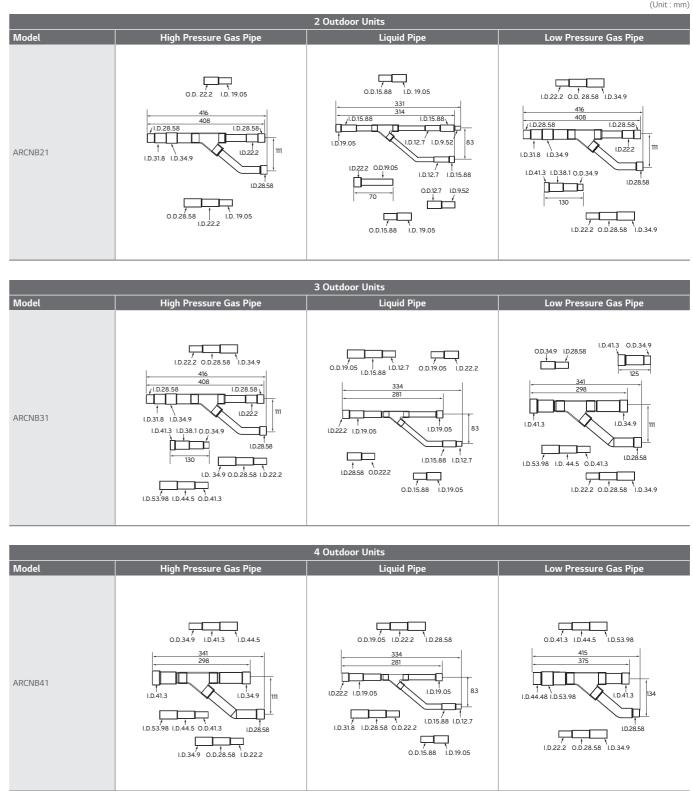
Specification

Heat Recovery R410A

MULTI V WATER II HEAT RECOVERY







MULTI V 5, MULTI V IV HEAT RECOVERY, MULTI V III HEAT RECOVERY, MULTI V WATER IV HEAT RECOVERY,

Y Branch and Header Branch

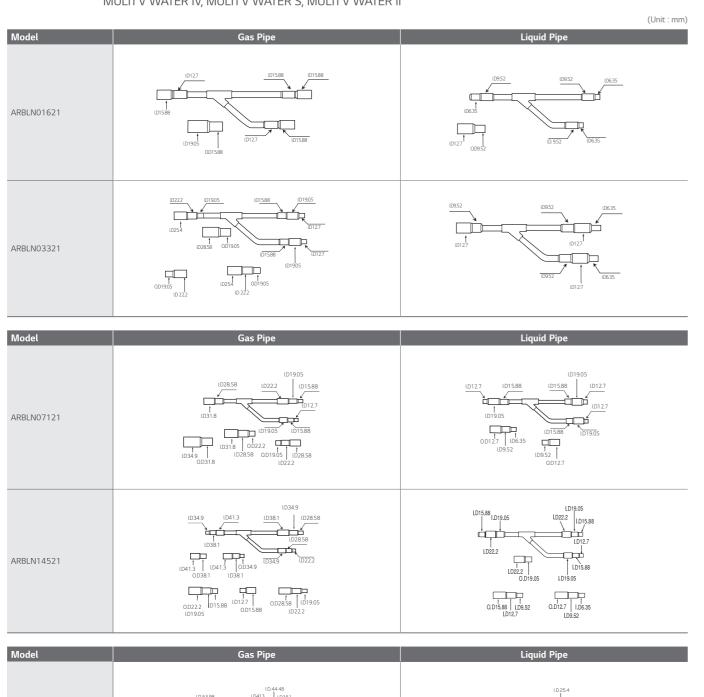
Specification

ARBLN23220

ACCESSORIES

Heat Pump, Heat Recovery Zone Control

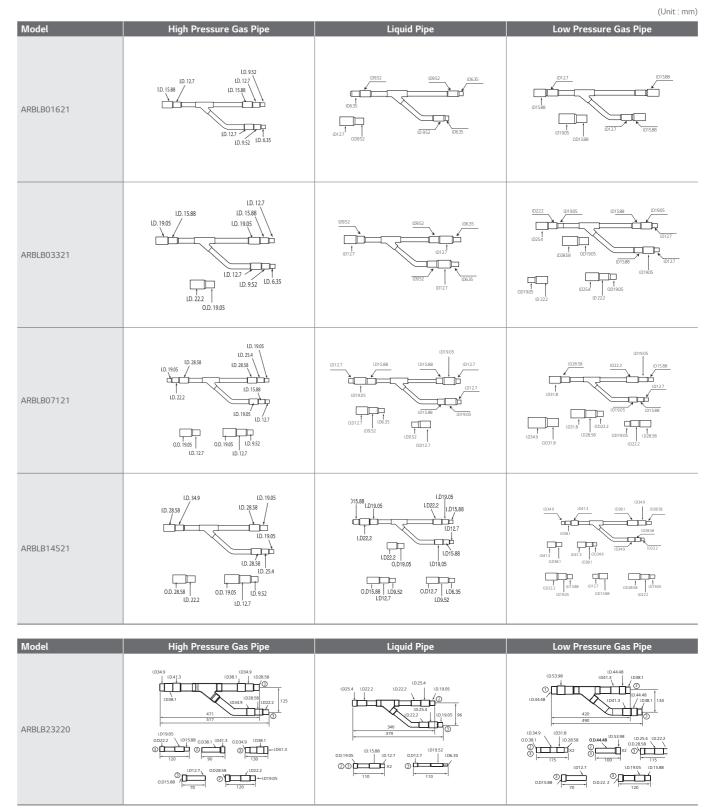
R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II



Specification

Heat Recovery R410A

MULTI V 5, MULTI V IV HEAT RECOVERY, MUL MULTI V WATER II HEAT RECOVERY



MULTI V 5, MULTI V IV HEAT RECOVERY, MULTI V III HEAT RECOVERY, MULTI V WATER IV HEAT RECOVERY,

Refrigerant Charging Kit

Key Features

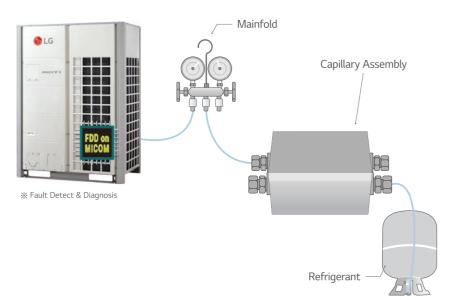
Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive.



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



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

Drain Hose

Key Features

Easy drain installation.

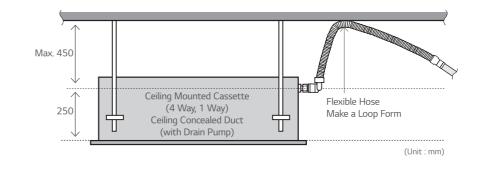


Key Features

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

Key Application

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



Specification

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

Model Name

PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Applied Products

MULTI V Indoor units

Stopper Valves

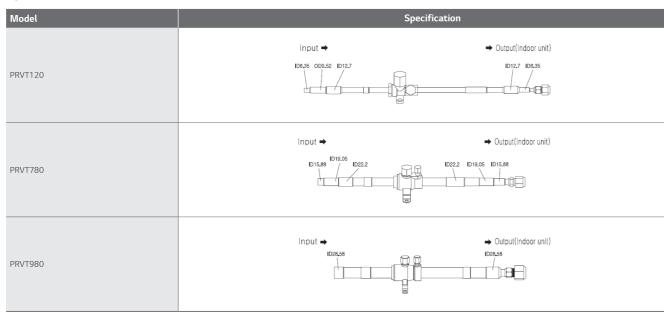


Model Name

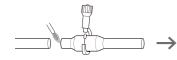
PRVT120 (Under 12.7mm) PMVT780 (Under 22.2mm) PMVT980 (Under 28.58mm)

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

Specification



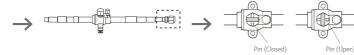
How to Install



1. Cut the inlet side of the connector, and weld the pipe.



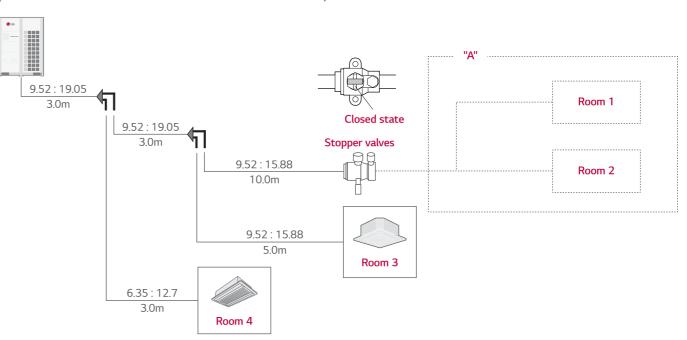
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.



4. When installing an additional indoor unit, the SVC valve should be in closed state.

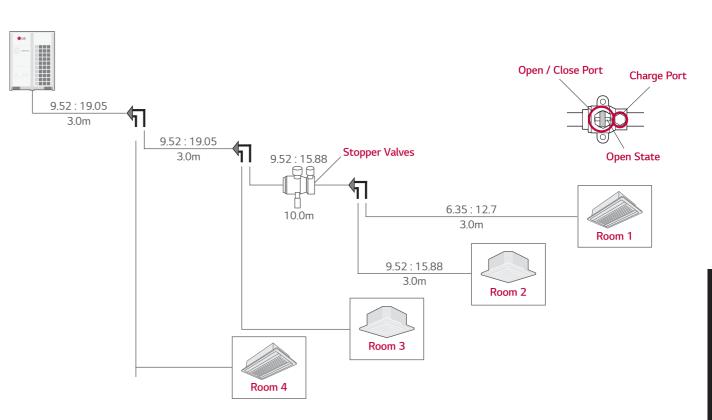
Application

(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.



% When welding, service valve should be wrapped by wet cloth