

MULTI V™ 5 Plus



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2024

LG AIR SOLUTION

MULTI V™ 5 Plus



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ENGINEERING TOOLS & SUPPORT

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

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

* LATS : LG Air-conditioner Technical Solution



I

Energy Estimation
& Energy Modeling



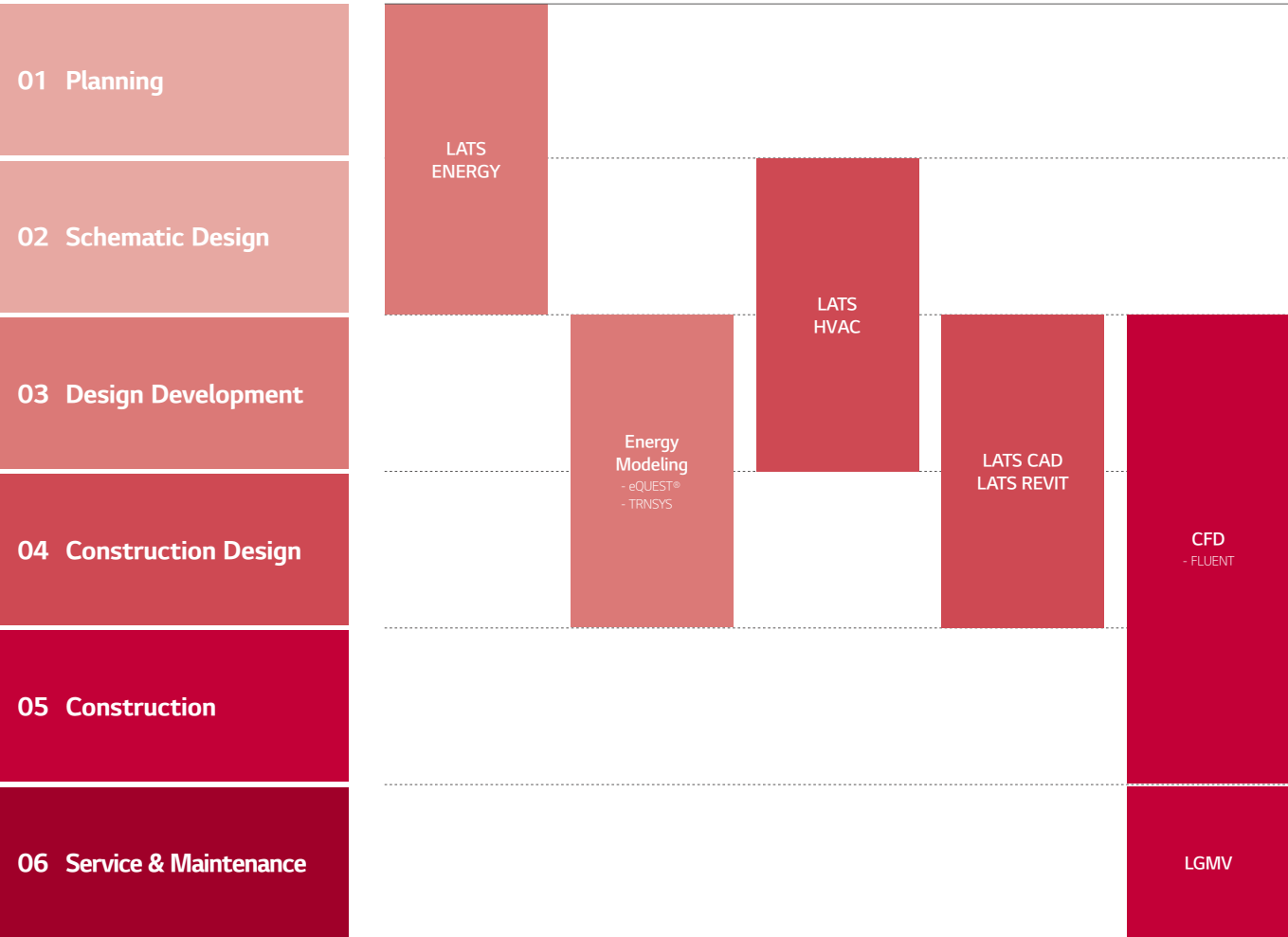
II

Model Selection
& Design



III

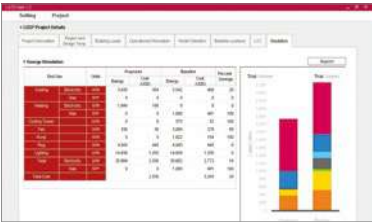
Installation
Environment
Simulation



01 Draft Energy Estimation

LATS Energy

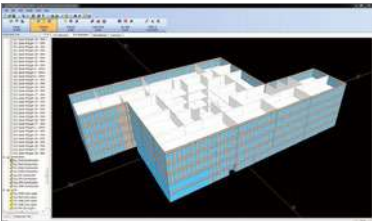
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project.



02 Building Energy Modeling

eQuest, EnergyPro, Trace700 and More

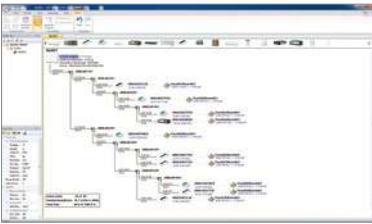
These are certified commercial programs which assess the HVAC system efficiency and building's annual energy saving for building standard or certification like LEED. LG HQ supports these programs for the project stages of Design Development and Construction Design wherein the overall designing is finished.



03 Model Selection

LATS HVAC

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



04 Design

LATS CAD

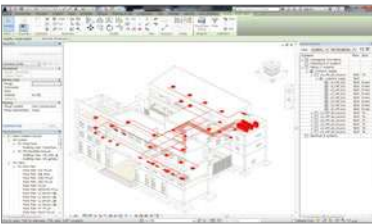
LATS CAD enables faster and more accurate 2D design of LG HVAC products. It also enables modules for quotation and installation review that minimize inherent problems appearing during installation.

※ AutoCAD program is required.

LATS REVIT

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

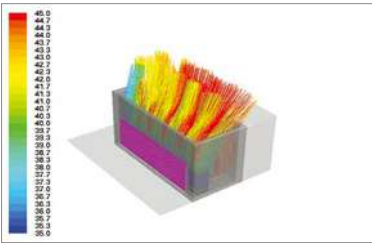
※ AutoCAD REVIT program is required.



05 Environment Simulation

CFD Analysis

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



06 Service & Maintenance

LGMV

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



BENEFITS OF LG MULTI V

Benefits for Building Owners



Efficient Management & Cost Reduction

- Fault Detection Diagnosis enables easy maintenance.
- Requires no extra manpower 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 II for harsh condition operations.
- Smart Oil management (Active Oil return) decreases compressor damage.



Benefits for Consultants



Versatile Solutions

- Air-cooled, Water-cooled, Heating, and Air Handling 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 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 End-users



Operation Cost Saving

- High efficiency is assured through all capacity and lineup.



Comfortable Cooling & Heating

- With powerful and durable compressor, The comfortable environment is provided to customers.



Convenient Functions

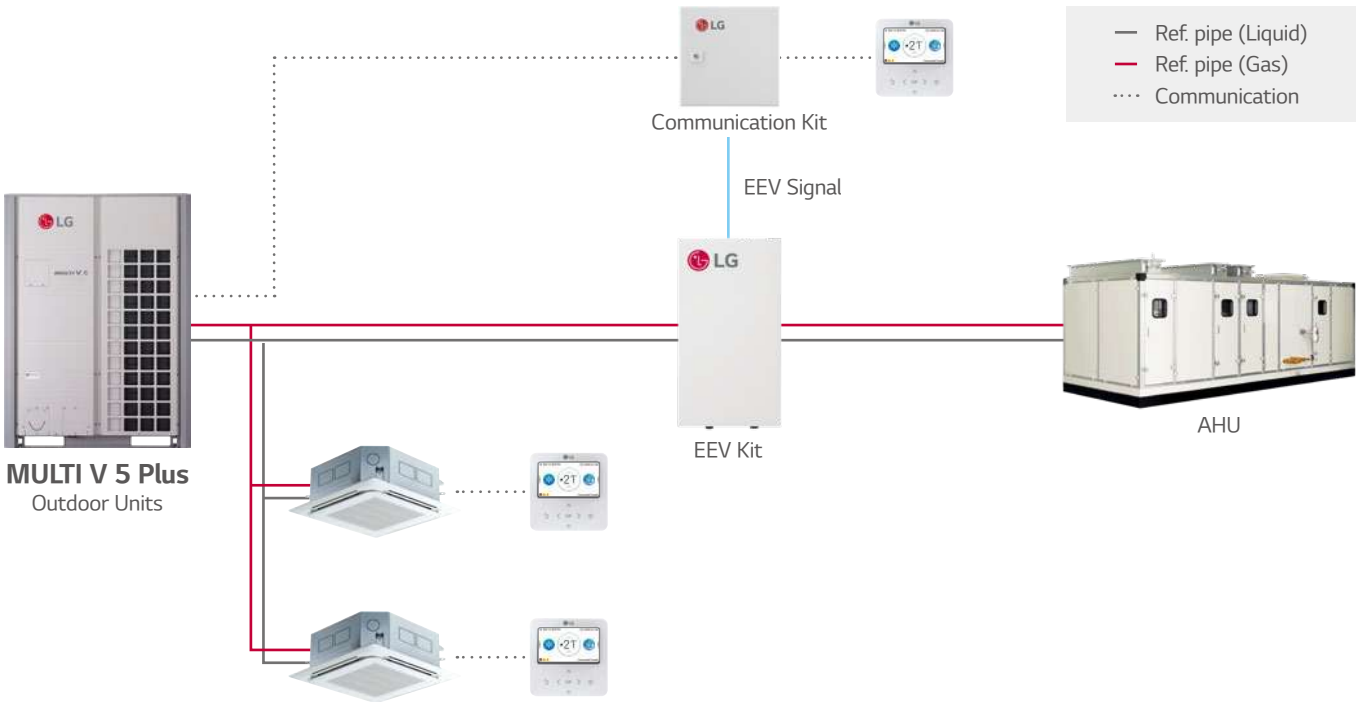
- Low-noise operation provides a restful environment.



DIVERSE INTEGRATED SOLUTION

Air Handling Unit (AHU) Solution

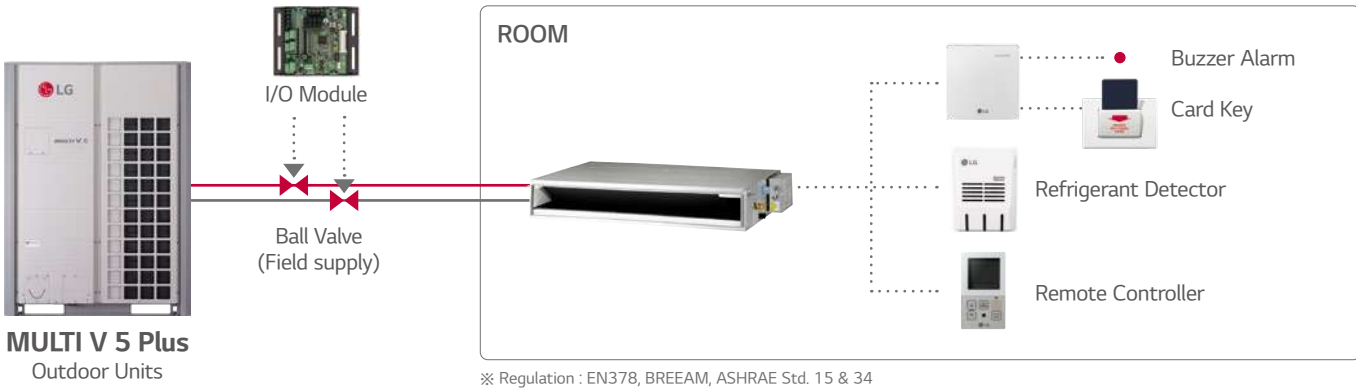
An AHU is a solution that can control all air conditioning factors in a large space. With an LG AHU Comm. Kit (for both return air / supply air control) connected to the DX coil of the AHU, LG VRF system can be applied to deliver conditioned air.



Refrigerant Leak Detection Solution

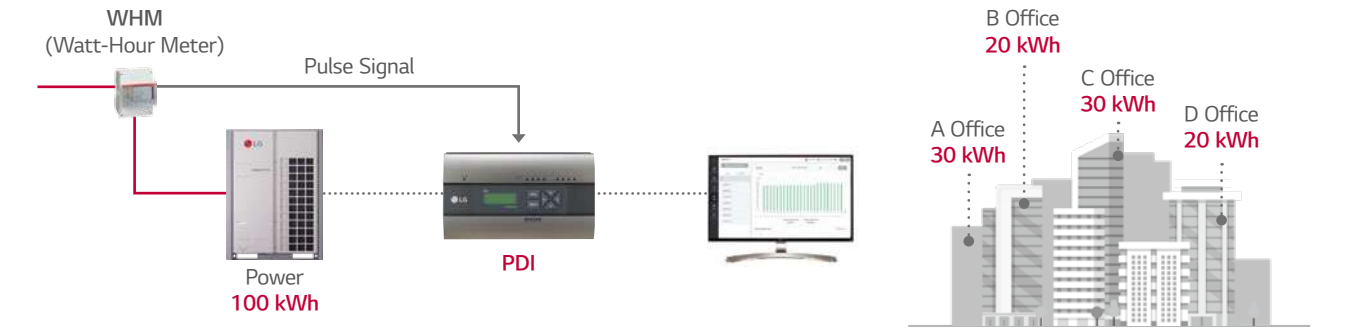
Real time refrigerant leak detection is needed for a safe environment. When the refrigerant concentration exceeds 6,000ppm for 5 seconds the indoor unit will stop operation and can also give an alarm using a buzzer or a light with the dry contact (Option). The central controller can also display an error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

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



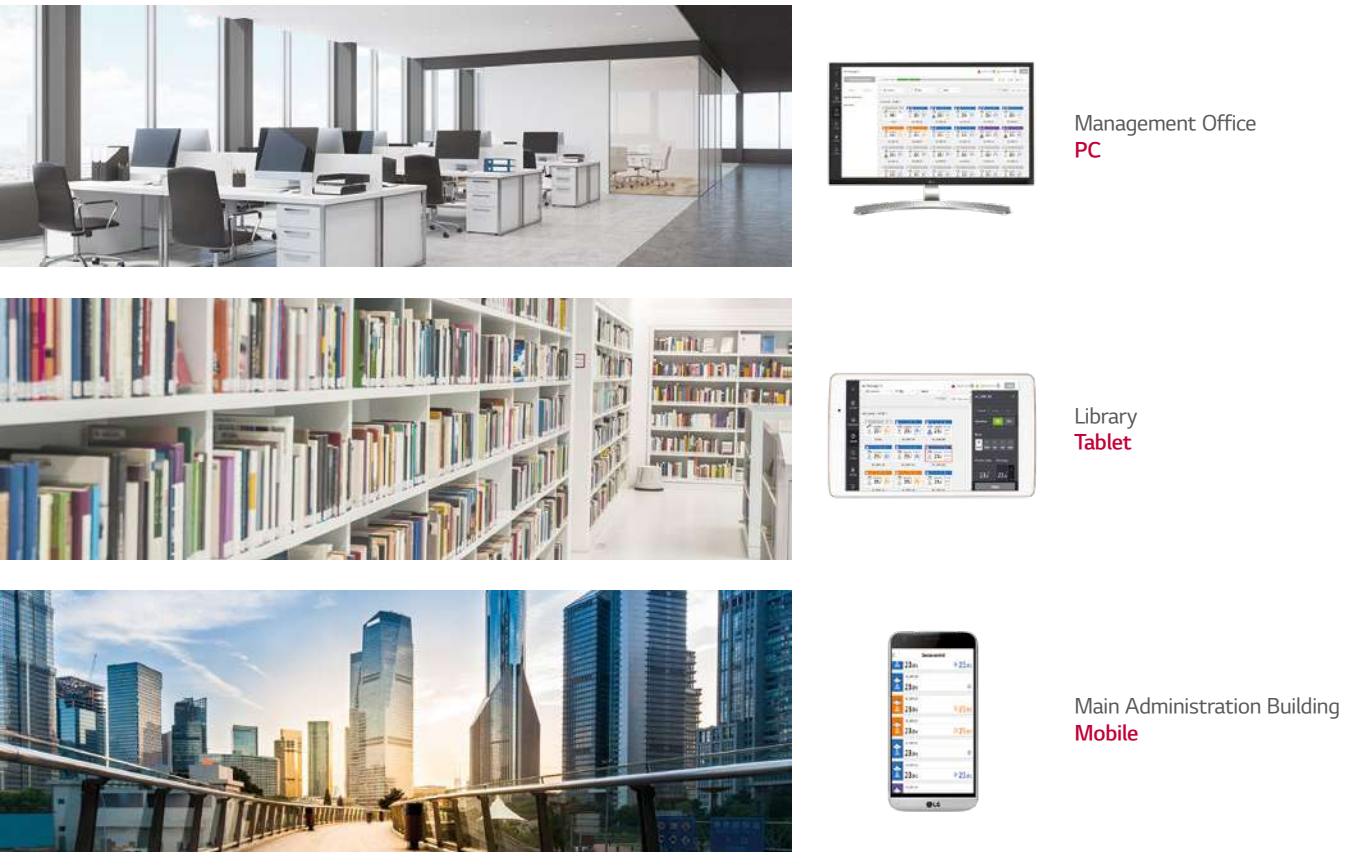
Power Consumption Distribution Solution

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



Total Control on Any 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.



DIVERSE INTEGRATED SOLUTION

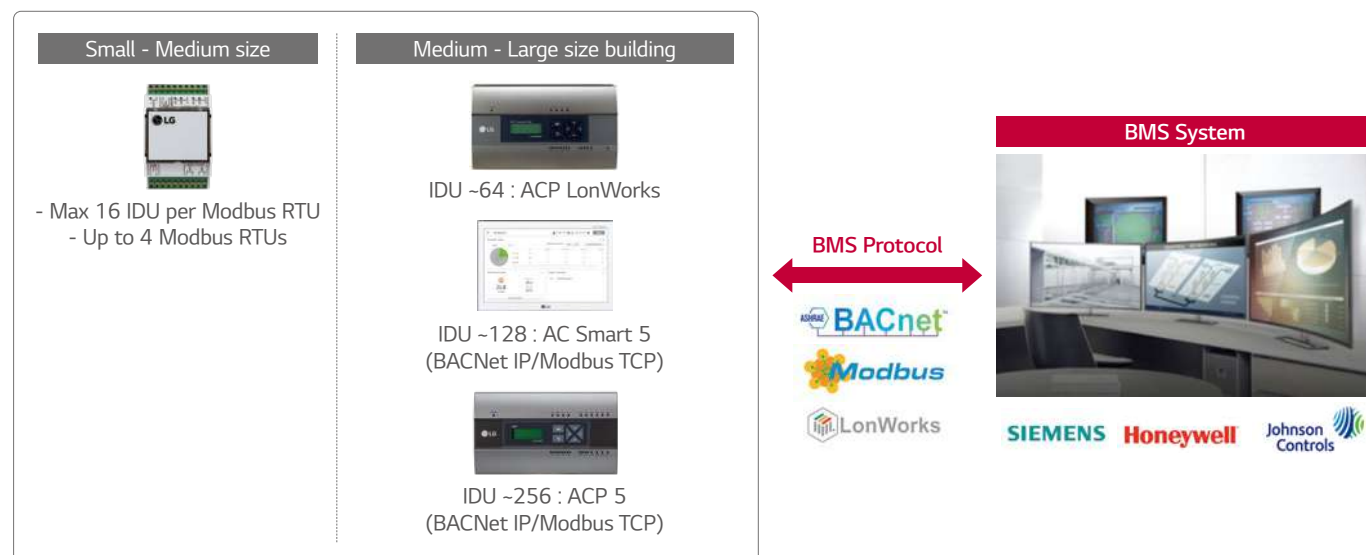
Energy Management Solution

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.



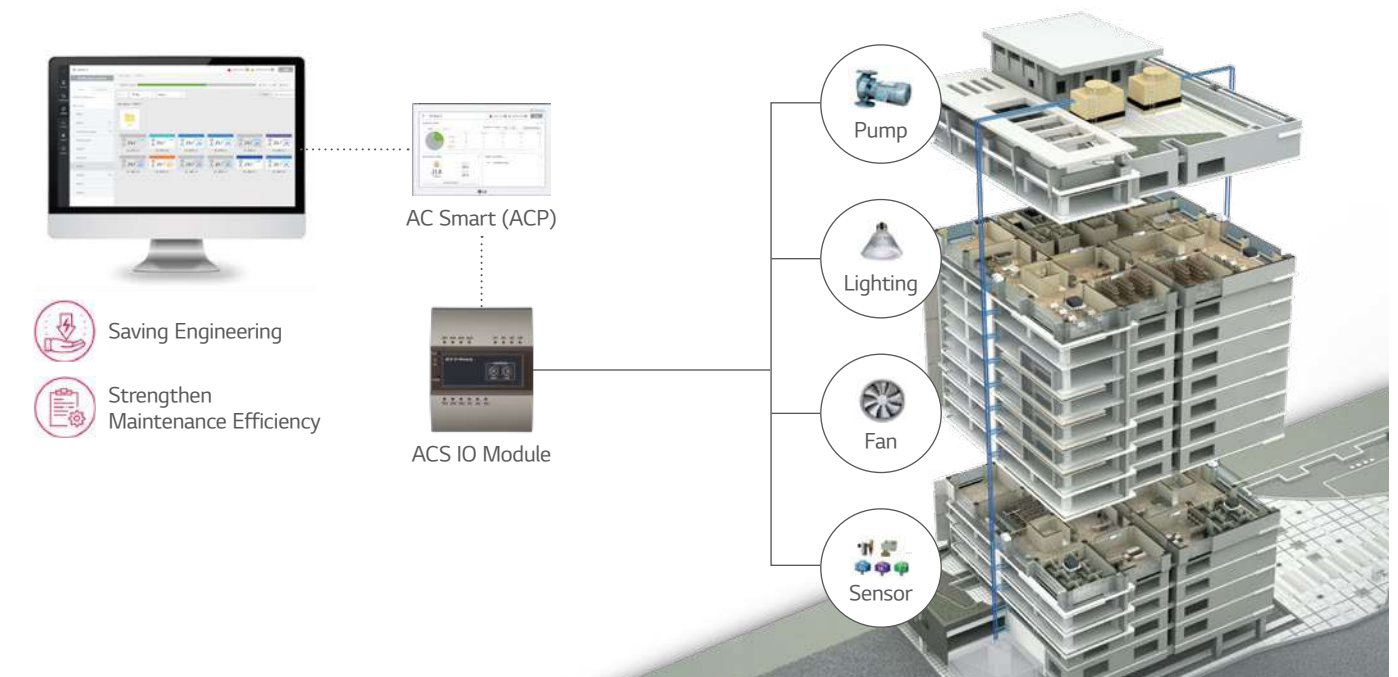
Integration Solution with BMS

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 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.



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.



BECON CLOUD

BECON cloud Digital HVAC Management Solution

BECON cloud, which manages all areas from remote management to monitoring and maintenance, is able to monitor in real time anytime and anywhere, so it is easy to prevent malfunctions and offers optimal management solutions such as excellent energy saving, differentiated service and consulting.



Dashboard

- Summary information
- Running / stopped device, device with errors, etc.



Status Monitoring

- Site temp., inflow/outflow temp., error information, etc.



History inquiry

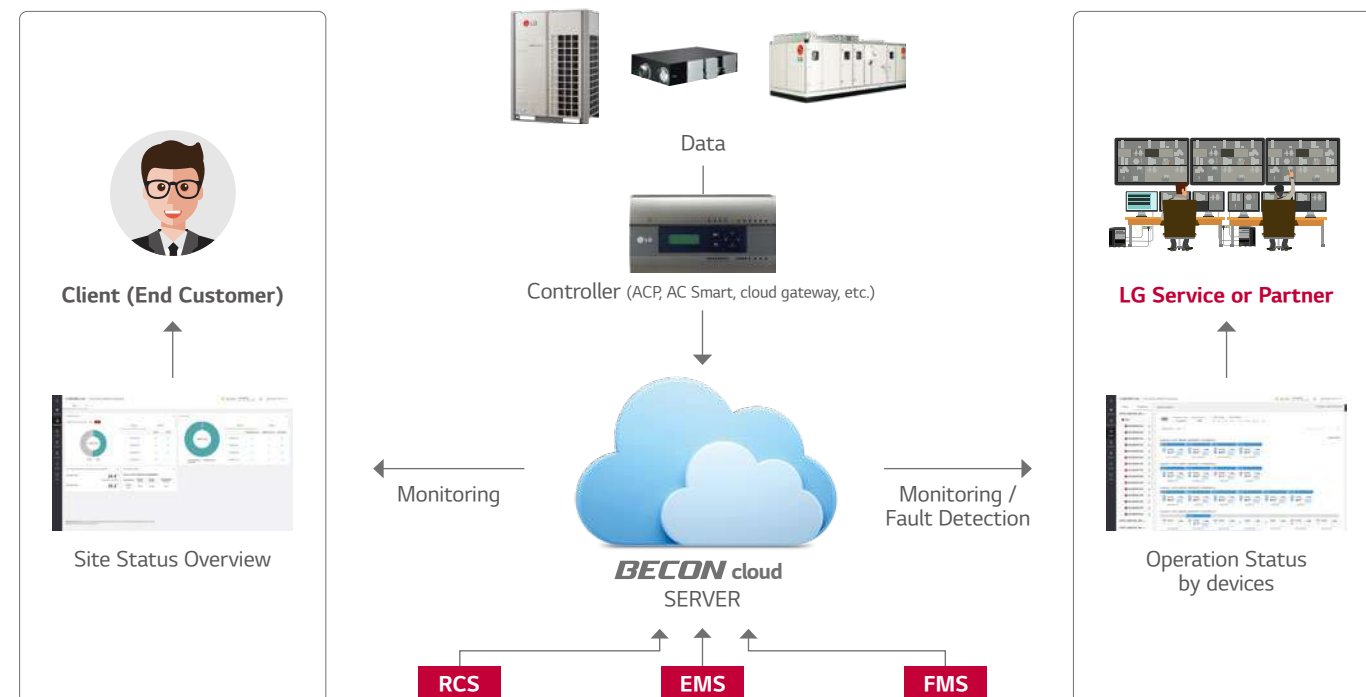
- Control / error history
- Upgrade history, etc.



Report

- Report that can guide the optimal operating conditions

How it Works



* BECON cloud is a HVAC-specialized management system that covers core technology.

Composition of BECON cloud

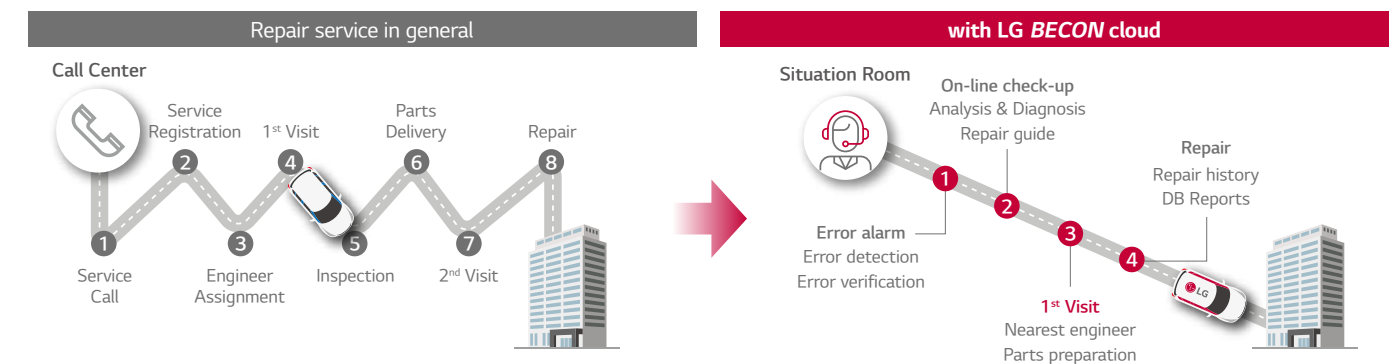
BECON cloud specializes in total care of LG HVAC from the maintenance to energy solution and consists of three functions.



Key Benefits

Quick Repair

Enables quick site control through one security account and performs systematic management operations with hierarchical group management.



Security for Network & Privacy Information

BECON cloud is operating based on the cloud server provided by Microsoft and complies with international security standard. BECON cloud applies LG and Microsoft's security solutions and provides the stable services without any security issues.

OUTDOOR UNITS

• MULTI V 5 Plus



OUTDOOR UNITS LINE-UP

Type	Features	Appearance	4	5	6	8	10	12	14
MULTI V 5 Plus	• Large capacity ODU (Up to 22HP) • Black Fin II heat exchanger • For large space, high rise building and individual control building					▲	▲	▲	
									▲
									
									

▲ Tropical Pro Model

Unit : HP																									
16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
▲	▲	▲	▲																						
				▲	▲	▲	▲	▲	▲	▲	▲	▲	▲												
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BLACK FIN II HEAT EXCHANGER

LG's exclusive "Black Fin II" 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.

Black Fin II

Heat Exchanger with Black Fin II 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 ~ 0.3 μ m

The hydrophilic coating minimizes moisture buildup on the fin.

Epoxy Resin (Corrosion resistant)
1.6 ~ 2.0 μ m

The black coating provides strong protection from corrosion.

Aluminum Fin



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, TÜV.

Condition of salt spray test

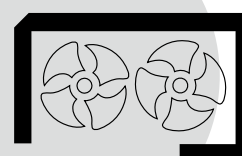
# of Trials	Test Period (10,000hr)		
	#1	#2	#3
Results	Not more than 0.02% of corrosion area ratio.		
Photos			

※ Based on In-House Testing
※ Test Conditions : Temp. : 20 ~ 60°C / Salt fog, Dry-off, Dwll, 100% Humidity
/ Avg. Spray Rate : 1.5±0.5 ml/hr

* Product is not fully treated for anti-corrosion to install near the sea, additional treatment must be required.

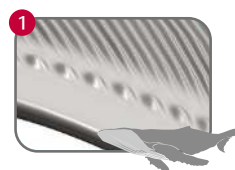
BIOMIMETICS TECHNOLOGY FAN

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 Plus can provide up to 22HP.



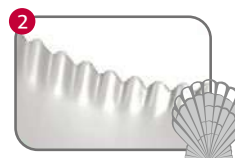
LARGE CAPACITY
WITH BIOMIMETICS TECH

Larger Capacity ODU with Biomimetics Technology Fan



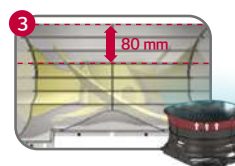
Humpback Whale Design

Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increased wind power by reducing flapping.



Clam Shell Pattern

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



Increased Air Flow Rate

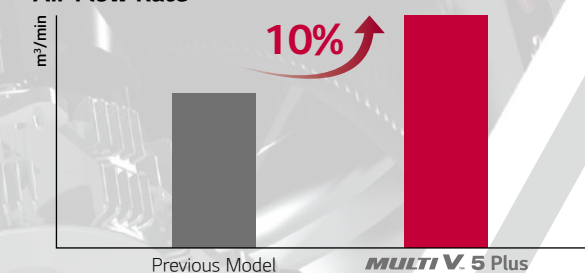
With extended shroud, discharged air current is stabilized and power consumption is reduced.

Maximum Capacity and Efficiency

Enhanced Performance with Newly Developed Fan

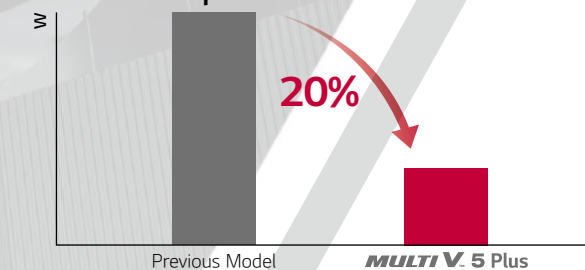
Based on the biomimetics technology, the fans of MULTI V 5 Plus increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20%. This eventually results in maximized performance with large capacity.

Air Flow Rate



※ Comparison based on 16HP model.
※ Previous Model is MULTI V IV Tropical.

Power Consumption



※ Comparison based on air volume of 290m³/min.
※ Previous Model is MULTI V IV Tropical.

ULTIMATE INVERTER COMPRESSOR

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



01. Smart Oil Management

02. Wide Operation Range from 10 to 165Hz

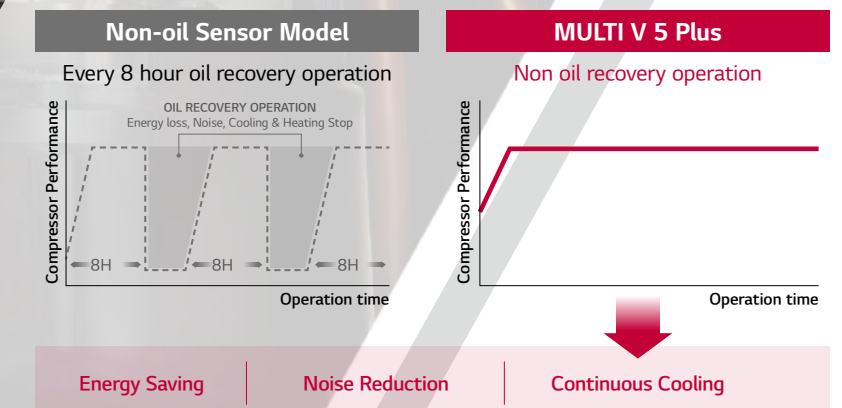
03. Enhanced Bearing with PEEK Material

- Up to 15% Operating time without oil supply

The Best Durability and Efficiency

Smart Oil Management

Compressor reliability and efficiency are improved with an oil sensor that allows oil return.



AUTO DUST REMOVAL

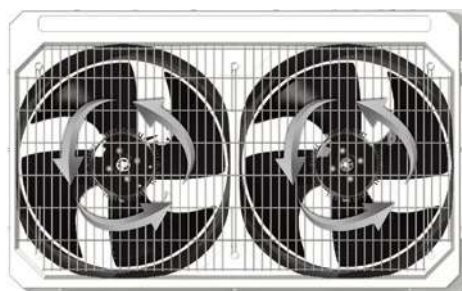
This feature in MULTI V 5 Plus removes dust on outdoor unit heat exchanger. The outdoor unit fan(s) rotate reversely to blow off the dust. Once the accumulated dust on the heat exchanger is removed, the fan(s) rotates normally and unit goes back to normal operation.

Auto Dust Removal

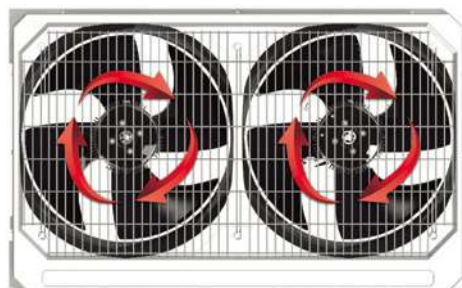
Technology Mechanism

Fan rotates reversely to run sand dust free operation.

Normal Operation



Auto Dust Removal



Enhanced Stability
from Environmental
Constraints

Performance Comparison

Normal Operation



Stops for a Long Time



Normal Operation

Auto Dust Removal



Stops for a Long Time



Auto Dust Removal



Normal Operation



Optimized for Medium and Large Buildings

MULTI V™ 5 Plus

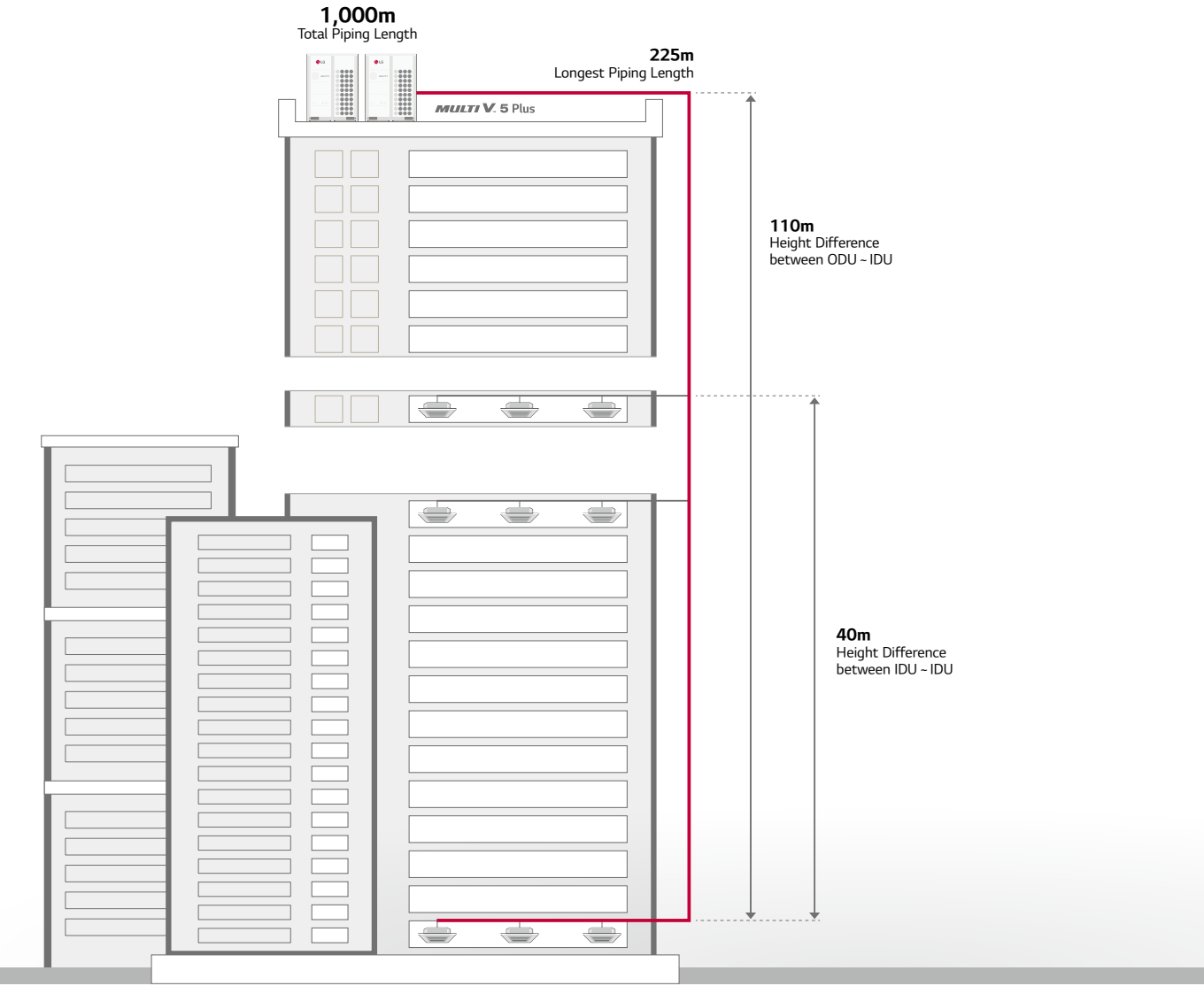
Customer Benefits

- Reduced costs through energy efficiency
- Compatibility with various installation environments
- Strong durability
- Fast and easy installation
- Linkage with various indoor units
- Air purification
- Smart management
- Space efficiency



MULTI V 5 Plus

Piping Length



Total Piping Length	1,000m
Actual longest piping length (Equivalent)	200m (225m)
Longest piping length after 1 st branch (conditional application)	40m (90m)
Height between ODU ~ IDU	110m
Height between IDU ~ IDU	40m
Height between ODU ~ ODU	5m

MULTI V 5 Plus

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 Plus can function regardless of the time at the noise sensitive areas.

Automatic

Noise automatically adjusted

Low-noise operation ON

Low-noise operation OFF

Manual

Choose preferred settings with remote based on noise conditions

Indoor setting available

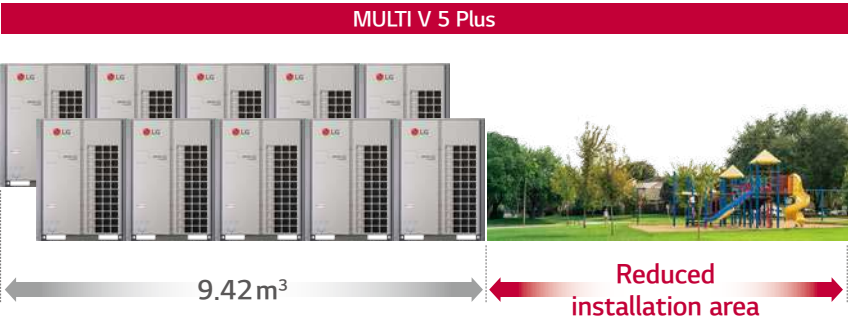


※ Indoor set up available with Standard III Remote Controller.

Flexible Installation Space with Large Capacity Outdoor Units

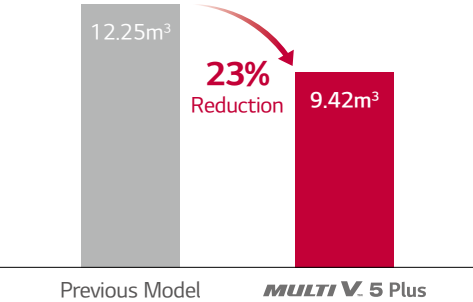
Large capacity outdoor units of MULTI V 5 Plus minimizes installation space that spares valuable floor space and significantly decreases total installed weights. This allows users the flexible design potential and better use of the saved space.

Comparison on installation space

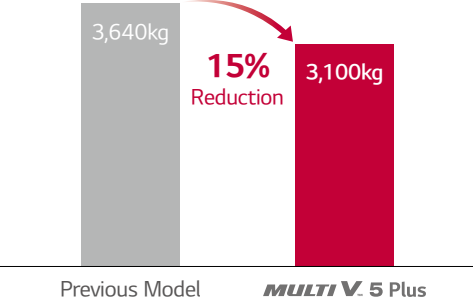


※ Previous Model is MULTI V IV Tropical.

Installation space area comparison



Product weight comparison



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 Plus'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.

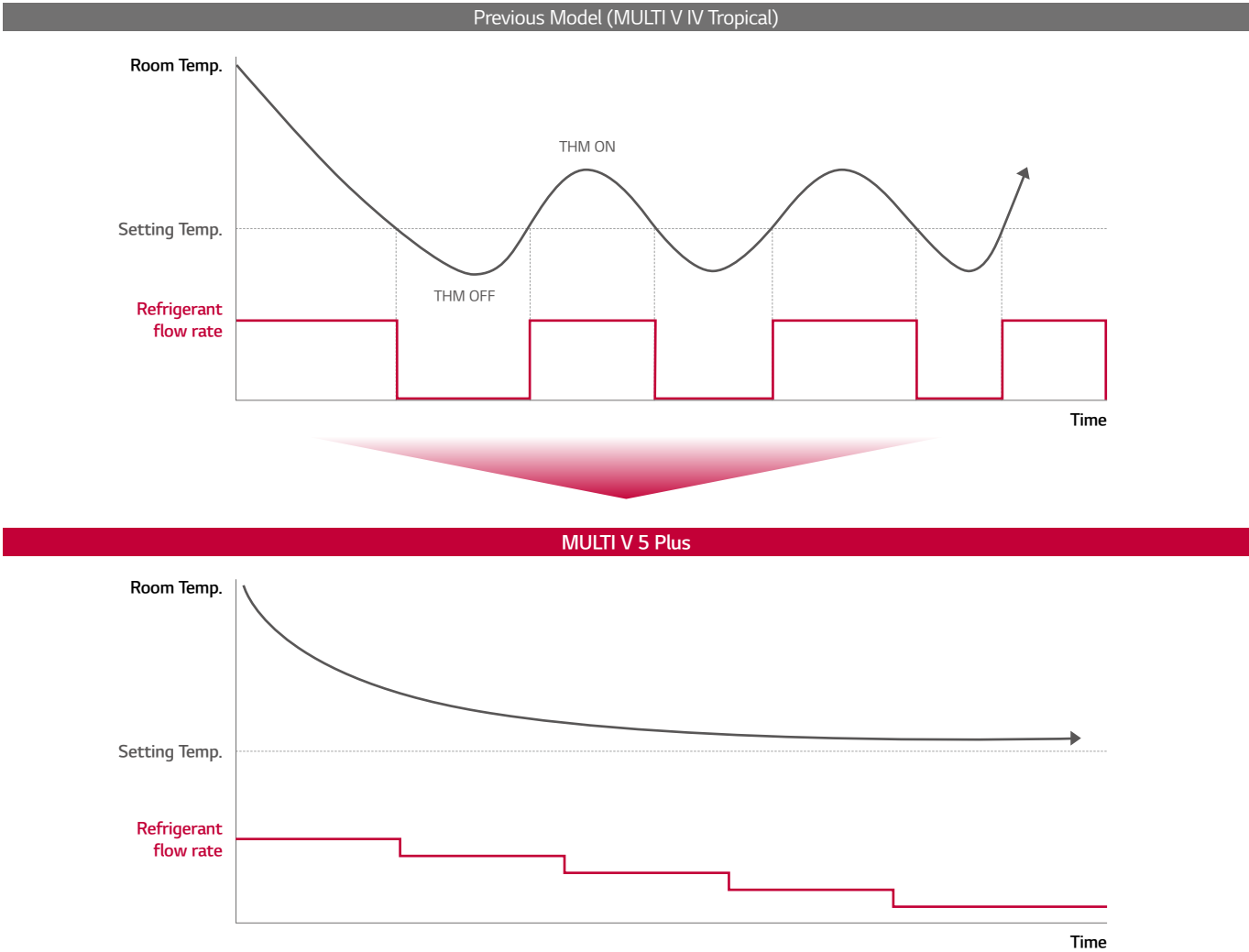
What are the benefits?

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.



MULTI V 5 Plus

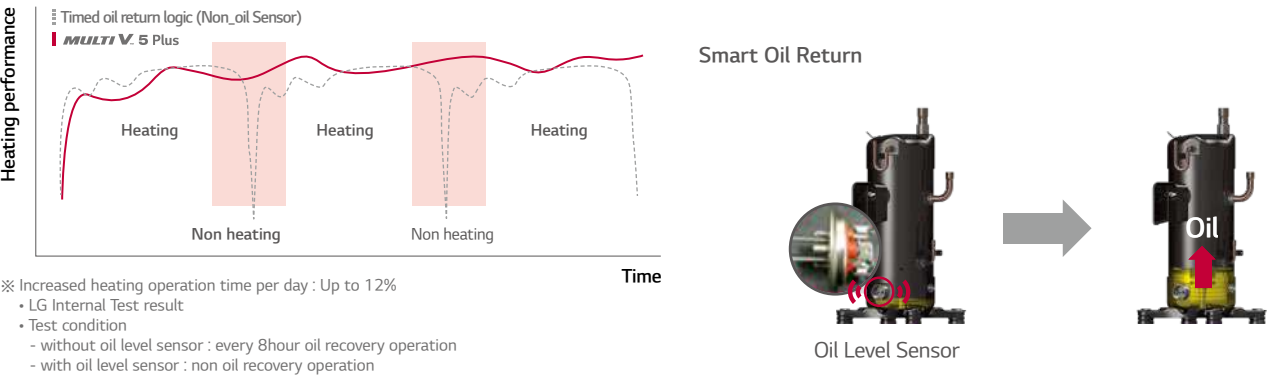
Smart Oil Management

Energy saving, Enhanced heating & Increased compressor reliability

MULTI V 5 Plus 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. 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 compressor was low. LG's unique oil level measuring sensor actively monitors the oil level in 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.



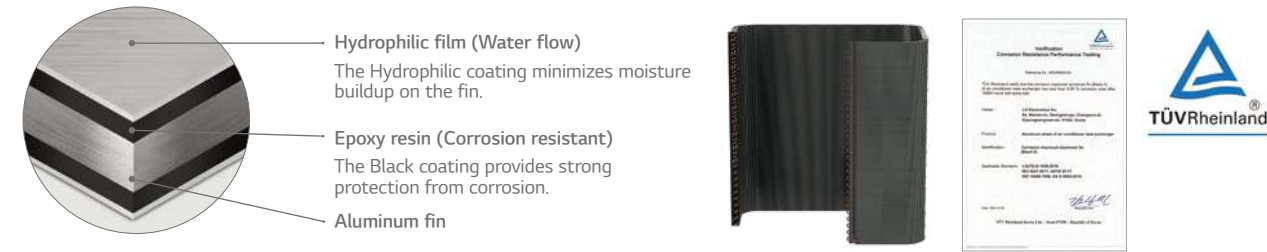
Black Fin II

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, TUV (TUV Rheinland).

What are the benefits?

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



Condition of salt spray test

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

Condition of gas exposure test

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

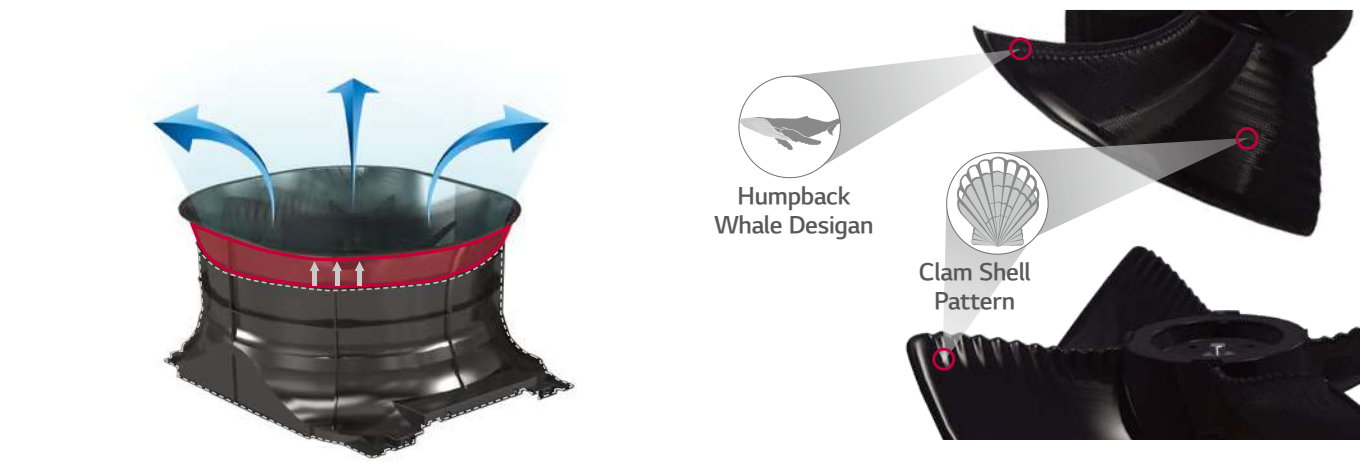
Biomimetic Fan

Maximized performance

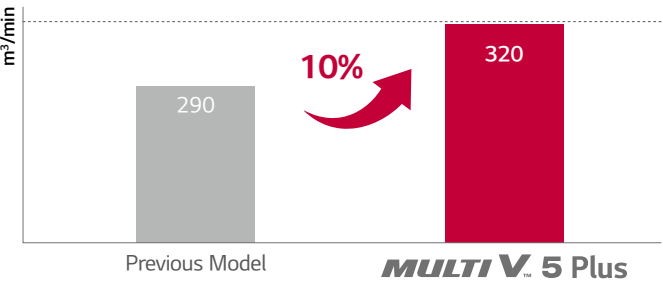
MULTI V 5 Plus outdoor units fans have been upgraded. The moire pattern from external texture of clam shells has been applied on fans to create the range difference that results in reduction of noise level. At the same time, unlike the fans installed in previous products that generate separation of flow 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 Plus 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 Plus increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20% when compared with the fan blade design on MULTI V IV. This eventually results in maximized performance with large capacity.

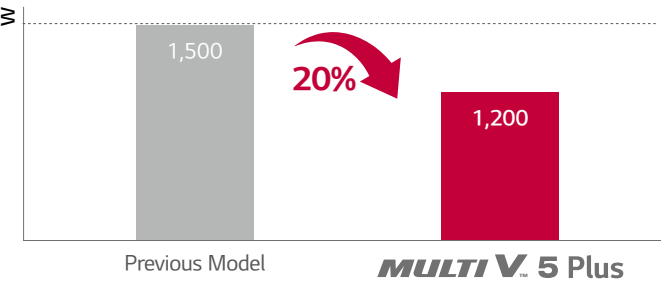


Air Flow Rate



※ Comparison based on 16HP model.
※ Previous Model is MULTI V IV Tropical

Power Consumption



※ Comparison based on air volume of 290m³/min.

MULTI V 5 Plus

Wider Operation Range

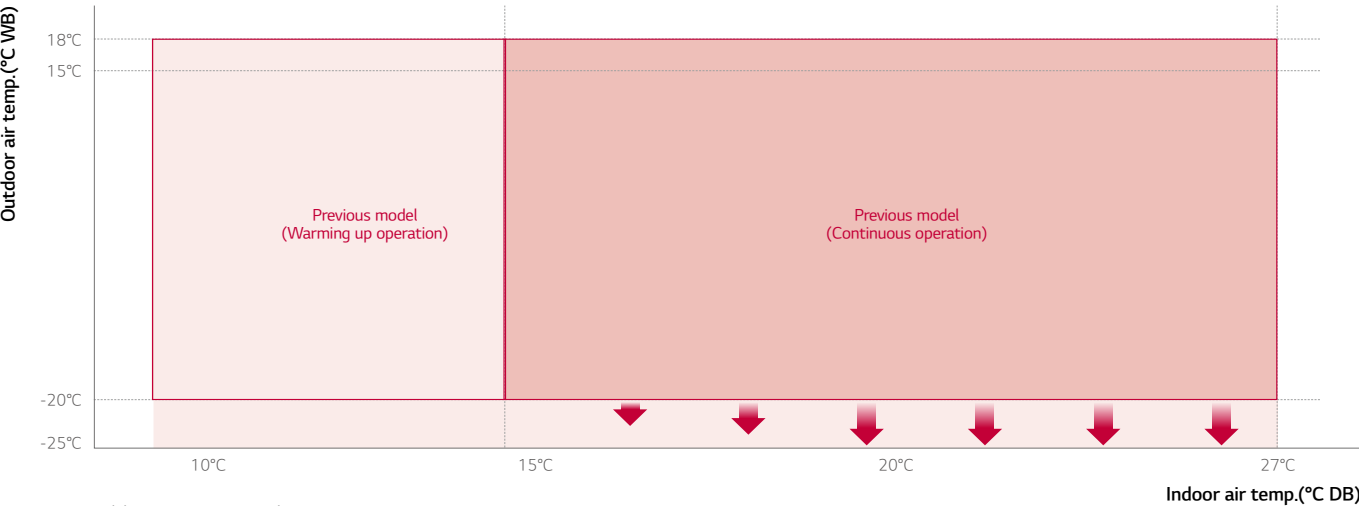
Able to operate at extreme conditions

With enhanced inverter compressor and control technology coming from improved inverter cooling technology, MULTI V 5 Plus 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 -5°C, making the product adequate for uses in specialized venues like technical rooms. Moreover, MULTI V 5 Plus's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 55°C.

TROPICAL MODEL

Heating

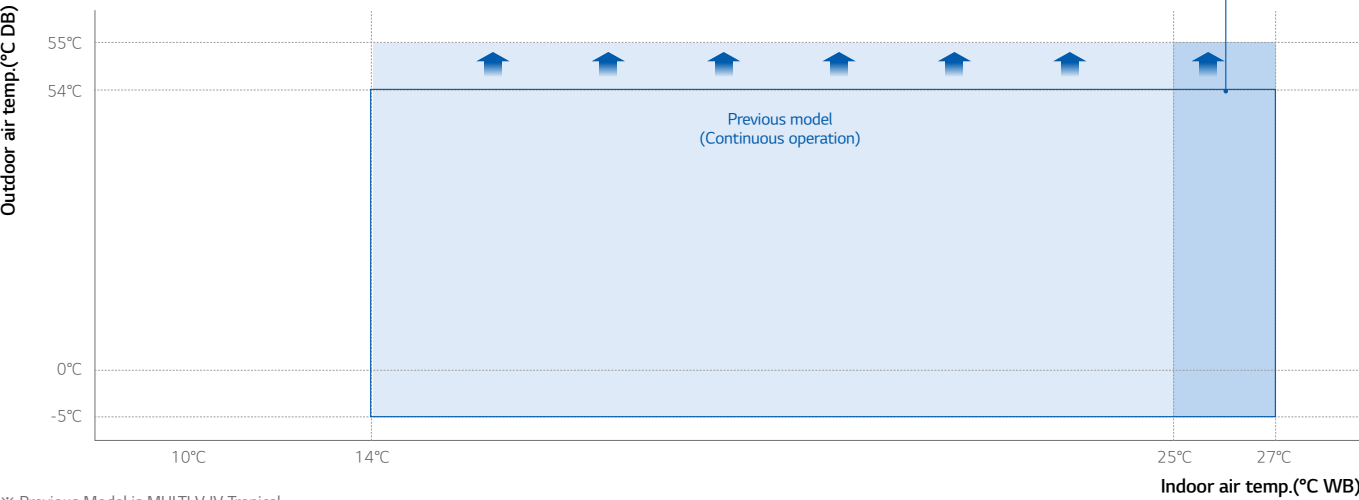
MULTI V 5 Warming up operation
MULTI V 5 Plus Continuous operation



※ Previous Model is MULTI V IV Tropical.

Cooling

MULTI V 5 Continuous operation
MULTI V 5 Plus Pull down operation



※ Previous Model is MULTI V IV Tropical.

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 Plus, 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.

The diagram illustrates the transition from a previous model to the MULTI V 5 Plus and the use of the LGMV mobile app. On the left, a technician is shown with a previous model unit. A red arrow points to the MULTI V 5 Plus unit on the right. Below the units, a smartphone displays the LGMV app interface, which includes a Wi-Fi MV Module. The app is shown in four main sections: Cycle Monitoring, Diagnosis, Installation, and Smart Management. The Installation section shows the 'Initialization' process, including indoor unit exploration, address assignment, and completion. The Smart Management section shows the 'History of ITR report' and 'Blackbox history'.

MULTI V 5 Plus

TROPICAL MODEL



SAUDI MADE
صناعة
سعودية

GRUN080LLH5 / GRUN100LLH5 / GRUN120LLH5



HP			8	10	12
Model Name	Combination Model		GRUN080LLH5	GRUN100LLH5	GRUN120LLH5
	Independent Model		GRUN080LLH5	GRUN100LLH5	GRUN120LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	22.4	28	33.5
		Btu / h	77,000	96,000	114,000
	**Cooling - T3 46°C	kW	20.20	25.20	31.20
		Btu / h	69,000	86,000	107,000
	Heating	kW	22.4	28	33.5
		Btu / h	76,400	95,500	114,300
Input (Rated)	*Cooling - T1 35°C	kW	5.00	7.01	7.94
	**Cooling - T3 46°C	kW	6.48	8.39	9.55
	Heating	kW	4.89	6.39	7.08
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	15.4	13.70	14.35
	**Cooling - T3 46°C	(Btu/h) / W	10.65	10.25	11.20
COP (Rated)	Heating	W/W	4.58	4.38	4.73
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	4,200 x 1	4,200 x 1	5,300 x 1
	Starting Method		Inverter	Inverter	Inverter
Fan	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	1,500 x 1	1,500 x 1	1,500 x 1
	Air Flow Rate(High)	m³ / min x No.	240 x 1	240 x 1	240 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1-1/8)
Dimensions (W x H x D)		mm	930 x 1,690 x 760	930 x 1,690 x 760	930 x 1,690 x 760
Net Weight		kg	168	168	186
Sound Pressure Level	Cooling / Heating	dB (A)	58.0 / 59.0	58.0 / 59.0	60.0 / 61.0
Sound Power Level	Cooling / Heating	dB (A)	78.0 / 79.0	78.0 / 79.0	82.0 / 83.0
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	4.7	4.7	7.5
	t-CO₂ eq.	-	9.811	9.811	15.656
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
		400, 3, 60	400, 3, 60	400, 3, 60	
Number of Maximum Connectable Indoor Units			13	16	20

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

TROPICAL MODEL



SAUDI MADE
صناعة
سعودية

GRUN140LLH5 / GRUN160LLH5 / GRUN180LLH5



HP			14	16	18
Model Name	Combination Model		GRUN140LLH5	GRUN160LLH5	GRUN180LLH5
	Independent Model		GRUN140LLH5	GRUN160LLH5	GRUN180LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	40	45	50.4
		Btu / h	136,000	154,000	172,000
	**Cooling - T3 46°C	kW	36.80	40.30	43.60
		Btu / h	126,000	138,000	150,000
	Heating	kW	40	45	50.4
		Btu / h	136,500	153,500	172,000
Input (Rated)	*Cooling - T1 35°C	kW	9.44	10.85	11.21
	**Cooling - T3 46°C	kW	11.20	13.14	14.35
	Heating	kW	9.41	11.17	11.22
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	14.40	14.20	15.35
	**Cooling - T3 46°C	(Btu/h) / W	11.25	10.50	10.45
COP (Rated)	Heating	W/W	4.25	4.03	4.49
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	7,500 x 1
	Starting Method		Inverter	Inverter	Inverter
Fan	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	900 x 2
	Air Flow Rate(High)	m³ / min x No.	320 x 1	320 x 1	320 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Dimensions (W x H x D)		mm	1,240 x 1,690 x 760	1,240 x 1,690 x 760	1,240 x 1,690 x 760
Net Weight		kg	204	204	214
Sound Pressure Level	Cooling / Heating	dB (A)	60.5 / 61.5	60.5 / 61.5	62.0 / 64.5
Sound Power Level	Cooling / Heating	dB (A)	83.0 / 85.0	83.0 / 85.0	85.0 / 86.0
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	6.5	6.5	6.5
	t-CO₂ eq.	-	13.569	13.569	13.569
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
		400, 3, 60	400, 3, 60	400, 3, 60	
Number of Maximum Connectable Indoor Units			23	26	29

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

MULTI V 5 Plus



GRUN200LLH5 / GRUN220LLH5 / GRUN240LLH5



HP			20	22	24
Model Name	Combination Model		GRUN200LLH5	GRUN220LLH5	GRUN240LLH5
	Independent Model		GRUN200LLH5	GRUN220LLH5	GRUN120LLH5 GRUN120LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	56	61.6	67
		Btu / h	192,000	210,000	228,000
	**Cooling - T3 46°C	kW	48.00	49.60	62.4
		Btu / h	164,000	170,000	214,000
	Heating	kW	56	61.6	67
		Btu / h	191,100	210,200	228,600
Input (Rated)	*Cooling - T1 35°C	kW	14.12	16.47	15.88
	**Cooling - T3 46°C	kW	15.62	16.75	19.10
	Heating	kW	13.24	15.17	14.16
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	13.60	12.75	14.36
	**Cooling - T3 46°C	(Btu/h) / W	10.50	10.15	11.20
COP (Rated)	Heating	W/W	4.23	4.06	4.73
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	7,500 x 1	7,500 x 1	5,300 x 2
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	1,500 x 2
	Air Flow Rate(High)	m³ / min x No.	320 x 1	320 x 1	240 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	34.9 (1-3/8)
Dimensions (W x H x D)		mm	1,240 x 1,690 x 760	1,240 x 1,690 x 760	(930 x 1,690 x 760) x 2
Net Weight	kg		230	230	186 x 2
Sound Pressure Level	Cooling / Heating	dB (A)	63.0 / 66.0	64.0 / 67.0	63.6 / 63.4
Sound Power Level	Cooling / Heating	dB (A)	86.0 / 89.0	87.0 / 90.0	85.1 / 86.5
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	7.5	7.5	15
	t-CO₂ eq.	-	15.656	15.656	31.313
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			32	35	39

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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 des 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. Sound pressure level at the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 and these values can be increased owing to ambient conditions during operation.

5. Power factor could vary less than $\pm 1\%$ according to the operating conditions.

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



GRUN260LLH5 / GRUN280LLH5 / GRUN300LLH5



HP			26	28	30
Model Name	Combination Model		GRUN260LLH5	GRUN280LLH5	GRUN300LLH5
	Independent Model		GRUN140LLH5 GRUN120LLH5	GRUN160LLH5 GRUN120LLH5	GRUN160LLH5 GRUN140LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	73.5	78.5	85
		Btu / h	250,000	268,000	290,000
	**Cooling - T3 46°C	kW	68	71.5	77.1
		Btu / h	233,000	245,000	264,000
	Heating	kW	73.5	78.5	85
		Btu / h	250,800	267,800	290,000
Input (Rated)	*Cooling - T1 35°C	kW	17.38	18.79	20.29
	**Cooling - T3 46°C	kW	20.75	22.69	24.34
	Heating	kW	16.49	18.25	20.58
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	14.38	14.26	14.29
	**Cooling - T3 46°C	(Btu/h) / W	11.23	10.80	10.85
COP (Rated)	Heating	W/W	4.46	4.30	4.13
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	1,500 x 1 + 900 x 2	1,500 x 1 + 900 x 2	900 x 4
	Air Flow Rate(High)	m³ / min x No.	240 x 1 + 320 x 1	240 x 1 + 320 x 1	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Dimensions (W x H x D)	mm		(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2
Net Weight	kg		204 x 1 186 x 1	204 x 1 186 x 1	204 x 2
Sound Pressure Level	Cooling / Heating	dB (A)	63.8 / 64.3	63.8 / 64.3	63.9 / 64.9
Sound Power Level	Cooling / Heating	dB (A)	85.6 / 87.5	85.6 / 87.5	86.2 / 88.2
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	14	14	13
	t-CO ₂ eq.	-	29.225	29.225	27.138
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60
Number of Maximum Connectable Indoor Units			42	45	49

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) WB
 - ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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 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. Sound pressure level at the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. 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.

MULTI V 5 Plus



GRUN320LLH5 / GRUN340LLH5 / GRUN360LLH5



HP			32	34	36
Model Name	Combination Model		GRUN320LLH5	GRUN340LLH5	GRUN360LLH5
	Independent Model		GRUN160LLH5 GRUN160LLH5	GRUN180LLH5 GRUN160LLH5	GRUN200LLH5 GRUN160LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	90	95.4	101
		Btu / h	308,000	326,000	346,000
	**Cooling - T3 46°C	kW	80.6	83.9	88.3
		Btu / h	276,000	288,000	302,000
	Heating	kW	90	95.4	101
		Btu / h	307,000	325,500	344,600
Input (Rated)	*Cooling - T1 35°C	kW	21.70	22.06	24.97
	**Cooling - T3 46°C	kW	26.28	27.49	28.76
	Heating	kW	22.34	22.39	24.41
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	14.19	14.78	13.86
	**Cooling - T3 46°C	(Btu/h) / W	10.50	10.48	10.50
COP (Rated)	Heating	W/W	4.03	4.26	4.14
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 1 + 7,500 x 1	5,300 x 1 + 7,500 x 1
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 4	900 x 4	900 x 4
	Air Flow Rate(High)	m³ / min x No.	320 x 2	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	41.3 (1-5/8)
Dimensions (W x H x D)		mm	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2
Net Weight		kg	204 x 2	214 x 1 204 x 1	230 x 1 204 x 1
Sound Pressure Level	Cooling / Heating	dB (A)	63.9 / 64.9	64.4 / 66.7	65.6 / 67.9
Sound Power Level	Cooling / Heating	dB (A)	86.2 / 88.2	87.4 / 89.1	88.2 / 91
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 – 1.5 x 2C	1.0 – 1.5 x 2C	1.0 – 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	13	13	14
	t-CO₂ eq.	-	27.138	27.138	29.225
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			52	55	58

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
5. Power factor could vary less than $\pm 1\%$ according to the operating conditions.
6. Due to our policy of innovation some specifications may be changed without notification.



GRUN380LLH5 / GRUN400LLH5 / GRUN420LLH5



HP			38	40	42
Model Name	Combination Model		GRUN380LLH5	GRUN400LLH5	GRUN420LLH5
	Independent Model		GRUN220LLH5 GRUN160LLH5	GRUN200LLH5 GRUN200LLH5	GRUN220LLH5 GRUN200LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	106.6	112	117.6
		Btu / h	364,000	384,000	402,000
	**Cooling - T3 46°C	kW	89.9	96	97.6
		Btu / h	308,000	328,000	334,000
	Heating	kW	106.6	112	117.6
		Btu / h	363,700	382,200	401,300
Input (Rated)	*Cooling - T1 35°C	kW	27.32	28.24	30.59
	**Cooling - T3 46°C	kW	29.89	31.24	32.37
	Heating	kW	26.34	26.48	28.41
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	13.32	13.60	13.14
	**Cooling - T3 46°C	(Btu/h) / W	10.30	10.50	10.32
COP (Rated)	Heating	W/W	4.05	4.23	4.14
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 1 + 7,500 x 1	7,500 x 2	7,500 x 2
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 4	900 x 4	900 x 4
	Air Flow Rate(High)	m³ / min x No.	320 x 2	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Pipe Connections	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 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 2
Net Weight		kg	230 x 1 204 x 1	230 x 2	230 x 2
Sound Pressure Level	Cooling / Heating	dB (A)	66.1 / 68.7	66.8 / 69.6	67.2 / 70.1
Sound Power Level	Cooling / Heating	dB (A)	89.1 / 91.9	89.6 / 92.7	90.3 / 92.7
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	14	15	15
	t-CO₂ eq.	-	29.225	31.313	31.313
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			61	64	64

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) WB
 ** Cooling (T2) : 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.
5. Power factor could vary less than $\pm 1\%$ according to the operating conditions.
6. Due to our policy of innovation some specifications may be changed without notification.

MULTI V 5 Plus

TROPICAL MODEL

SAUDI MADE
صناعة
سعودية

GRUN440LLH5 / GRUN460LLH5 / GRUN480LLH5



HP			44	46	48
Model Name	Combination Model		GRUN440LLH5	GRUN460LLH5	GRUN480LLH5
	Independent Model		GRUN220LLH5 GRUN220LLH5	GRUN160LLH5 GRUN160LLH5 GRUN140LLH5	GRUN160LLH5 GRUN160LLH5 GRUN160LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	123.2	130	135
		Btu / h	420,000	444,000	462,000
	**Cooling - T3 46°C	kW	99.2	117.4	120.9
		Btu / h	340,000	402,000	414,000
	Heating	kW	123.2	130	135
		Btu / h	420,400	443,500	460,500
Input (Rated)	*Cooling - T1 35°C	kW	32.94	31.14	32.55
	**Cooling - T3 46°C	kW	33.50	37.48	39.42
	Heating	kW	30.34	31.75	33.51
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	12.75	14.26	14.19
	**Cooling - T3 46°C	(Btu/h) / W	10.15	10.73	10.50
COP (Rated)	Heating	W/W	4.06	4.09	4.03
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	7,500 x 2	5,300 x 3	5,300 x 3
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 4	900 x 6	900 x 6
	Air Flow Rate(High)	m³ / min x No.	320 x 2	320 x 3	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	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 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3
Net Weight		kg	230 x 2	204 x 3	204 x 3
Sound Pressure Level	Cooling / Heating	dB (A)	67.5 / 70.6	65.7 / 66.7	65.7 / 66.7
Sound Power Level	Cooling / Heating	dB (A)	90.9 / 93.9	88 / 90	87.9 / 90
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	15	19.5	19.5
	t-CO₂ eq.	-	31.313	40.706	40.706
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

TROPICAL MODEL

SAUDI MADE
صناعة
سعودية

GRUN500LLH5 / GRUN520LLH5 / GRUN540LLH5



HP			50	52	54
Model Name	Combination Model		GRUN500LLH5	GRUN520LLH5	GRUN540LLH5
	Independent Model		GRUN180LLH5 GRUN160LLH5 GRUN160LLH5	GRUN200LLH5 GRUN160LLH5 GRUN160LLH5	GRUN220LLH5 GRUN160LLH5 GRUN160LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	140.4	146	151.6
		Btu / h	480,000	500,000	518,000
	**Cooling - T3 46°C	kW	124.2	128.6	130.2
		Btu / h	426,000	440,000	446,000
	Heating	kW	140.4	146	151.6
		Btu / h	479,000	498,100	517,200
Input (Rated)	*Cooling - T1 35°C	kW	32.91	35.82	38.17
	**Cooling - T3 46°C	kW	40.63	41.90	43.03
	Heating	kW	33.56	35.58	37.51
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	14.59	13.96	13.57
	**Cooling - T3 46°C	(Btu/h) / W	10.48	10.50	10.36
COP (Rated)	Heating	W/W	4.18	4.10	4.04
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 2 + 7,500 x 1	5,300 x 2 + 7,500 x 1	5,300 x 2 + 7,500 x 1
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m³ / min x No.	320 x 3	320 x 3	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	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 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3
Net Weight	kg		214 x 1 204 x 2	230 x 1 204 x 2	230 x 1 204 x 2
Sound Pressure Level	Cooling / Heating	dB (A)	66 / 68	66.9 / 68.9	67.2 / 69.5
Sound Power Level	Cooling / Heating	dB (A)	88.8 / 90.6	89.4 / 92	90.1 / 92.8
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	19.5	20.5	20.5
	t-CO₂ eq.	-	40.706	42.794	42.794
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50	380-400-415, 3, 50	380-400-415, 3, 50
400, 3, 60			400, 3, 60	400, 3, 60	
Number of Maximum Connectable Indoor Units			64	64	64

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

MULTI V 5 Plus

TROPICAL MODEL



SAUDI MADE
صناعة
سعودية

GRUN560LLH5 / GRUN580LLH5 / GRUN600LLH5



HP			56	58	60
Model Name	Combination Model		GRUN560LLH5	GRUN580LLH5	GRUN600LLH5
	Independent Model		GRUN200LLH5 GRUN200LLH5 GRUN160LLH5	GRUN220LLH5 GRUN200LLH5 GRUN160LLH5	GRUN220LLH5 GRUN200LLH5 GRUN160LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	157	162.6	168.2
		Btu / h	538,000	556,000	574,000
	**Cooling - T3 46°C	kW	136.3	137.9	139.5
		Btu / h	466,000	472,000	478,000
	Heating	kW	157	162.6	168.2
		Btu / h	535,700	554,800	573,900
Input (Rated)	*Cooling - T1 35°C	kW	39.09	41.44	43.79
	**Cooling - T3 46°C	kW	44.38	45.51	46.64
	Heating	kW	37.65	39.58	41.51
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	13.76	13.42	13.11
	**Cooling - T3 46°C	(Btu/h) / W	10.50	10.37	10.25
COP (Rated)	Heating	W/W	4.17	4.11	4.05
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	5,300 x 1 + 7,500 x 2	5,300 x 1 + 7,500 x 2	5,300 x 1 + 7,500 x 2
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m³ / min x No.	320 x 3	320 x 3	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	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)			(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3
Net Weight			230 x 2 204 x 1	230 x 2 204 x 1	230 x 2 204 x 1
Sound Pressure Level	Cooling / Heating	dB (A)	67.8 / 70.3	68.1 / 70.8	68.4 / 71.2
Sound Power Level	Cooling / Heating	dB (A)	90.5 / 93.4	91.1 / 94	91.6 / 94.5
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	21.5	21.5	21.5
	t-CO₂ eq.	-	44.881	44.881	44.881
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

TROPICAL MODEL



SAUDI MADE
صناعة
سعودية

GRUN620LLH5 / GRUN640LLH5 / GRUN660LLH5



HP			62	64	66
Model Name	Combination Model		GRUN620LLH5	GRUN640LLH5	GRUN660LLH5
	Independent Model		GRUN220LLH5 GRUN200LLH5 GRUN200LLH5	GRUN220LLH5 GRUN200LLH5 GRUN200LLH5	GRUN220LLH5 GRUN200LLH5 GRUN200LLH5
Capacity (Rated)	*Cooling - T1 35°C	kW	173.6	179.2	184.8
		Btu / h	594,000	612,000	630,000
	**Cooling - T3 46°C	kW	145.6	147.2	148.8
		Btu / h	498,000	504,000	510,000
	Heating	kW	173.6	179.2	184.8
		Btu / h	592,400	611,500	630,600
Input (Rated)	*Cooling - T1 35°C	kW	44.71	47.06	49.41
	**Cooling - T3 46°C	kW	47.99	49.12	50.25
	Heating	kW	41.65	43.58	45.51
EER (Rated)	*Cooling - T1 35°C	(Btu/h) / W	13.29	13.00	12.75
	**Cooling - T3 46°C	(Btu/h) / W	10.38	10.26	10.15
COP (Rated)	Heating	W/W	4.17	4.11	4.06
Power Factor	Rated	-	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Motor Output x Number	W x No.	7,500 x 3	7,500 x 3	7,500 x 3
	Starting Method		Inverter	Inverter	Inverter
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m³ / min x No.	320 x 3	320 x 3	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Top	Top	Top
Pipe Connections	Liquid Pipe	mm (inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas Pipe	mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	53.98 (2-1/8)
Dimensions (W x H x D)		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
Net Weight		kg	230 x 3	230 x 3	230 x 3
Sound Pressure Level	Cooling / Heating	dB (A)	68.8 / 71.7	69 / 72.1	69.3 / 72.4
Sound Power Level	Cooling / Heating	dB (A)	91.8 / 94.9	92.3 / 95.3	92.7 / 95.7
Protection Devices	High Pressure Prevention	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/ Fan	-	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection	Over-heat Protection / Fan Driver Overload Protection
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable	No. x mm² (VCTF-SB)		1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Refrigerant	Refrigerant Name	-	R410A	R410A	R410A
	Precharged Amount in Factory	kg	22.5	22.5	22.5
	t-CO₂ eq.	-	46.969	46.969	46.969
	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60	380-400-415, 3, 50 400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

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) WB
- ** 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 Temperature 20°C (68°F) DB / 15°C (59°F) WB / Outdoor Temperature 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 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. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. 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.

INDOOR UNITS

- ROUND CASSETTE
- SMART DUAL VANE CASSETTE
- CEILING MOUNTED CASSETTE
- CEILING CONCEALED DUCT
- FRESH AIR INTAKE

- WALL MOUNTED
- FLOOR STANDING
- COMPATIBILITY
- FEATURE FUNCTIONS



INDOOR UNITS LINE-UP

Category			kW		1.5	2.2	2.8	3.2	3.6	4.5	5.6	6.2	7.1	8.2	9	10.6	12.3	13.5	14.1	15.8	18	22.4	28
			Btu/h		5k	7k	9k	11k	12k	15k	18k	21k	24k	28k	30k	36k	42k	45k	48k	54k	60k	76k	96k
Ceiling Concealed Duct	Low Statics		●	●	●				●	●	●	●	●										
	Mid Statics			●	●				●	●	●		●	●		●	●		●	●			
	High Statics																				●	●	
Fresh Air Intake																					●	●	
Ceiling Mounted Cassette	Round Cassette												●			●			●				
	Smart Dual Vane Cassette												●	●	●	●	●		●				
	4 Way Cassette (570 x 570)		●	●	●				●	●	●	●											
	2 Way Cassette										●		●										
	1 Way Cassette			●	●				●		●		●										
Wall Mounted	Standard		●	●	●				●	●	●		●		●	●							
	Artcool Gallery			●	●				●														
Ceiling & Floor Convertible					●				●														
Floor Standing	Floor Standing with Case			●	●				●	●	●		●										
	Floor Standing without Case			●	●				●	●	●		●										
Energy Recovery Ventilator	With Humidifier									●			●		●								
	Without Humidifier									●			●		●								

* More detailed information, refer to the the "Multi V Indoor Units Compatibility Table".

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)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Restart Function Disable / Enable	Wi-Fi Ready
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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				●	●		●	●				●	●	●	
				●	●		●	●				●	●	●	

Advanced Air Conditioning System

COOLING
WITH PURIFIED AIR

Powerful Air-purifying Performance

CAC certification guarantees powerful air purification performance to large space.

CAC certification?

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

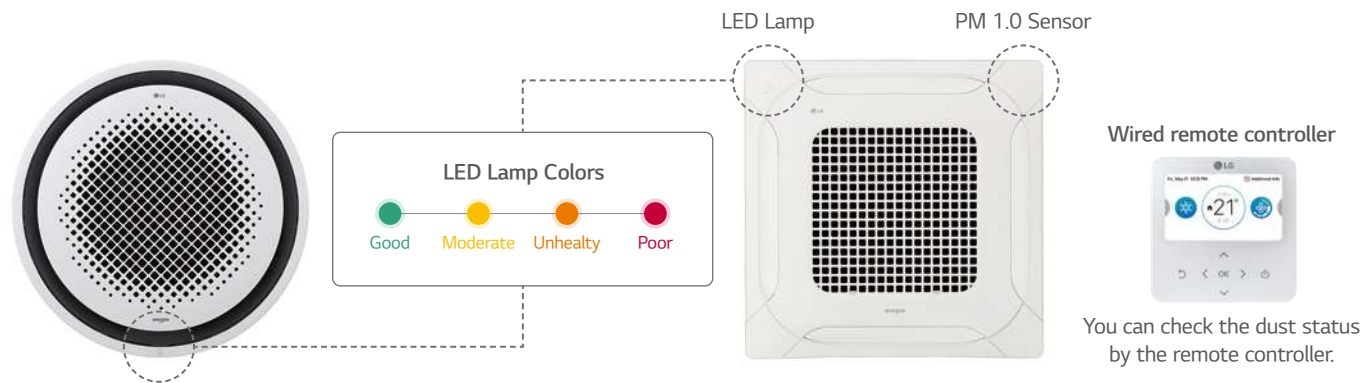
Model Name : RNW1450T2S(14.5kW, 48kBtu/h)

※ This model name is Korean market model name

No	Testing Item	Unit	Testing Result	Standard
1	Clean Air Delivery Rate (CADR)	m³/min	19.1	10.0 m³/min↑
		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	

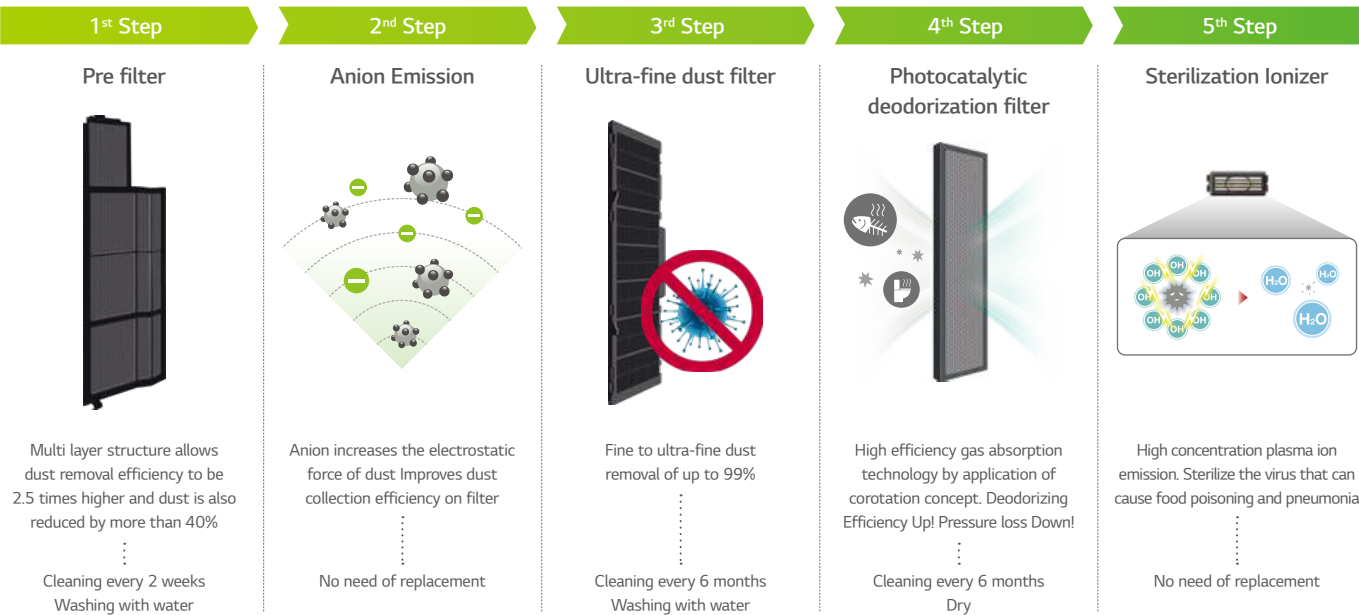
Real time Air Quality Monitoring

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.



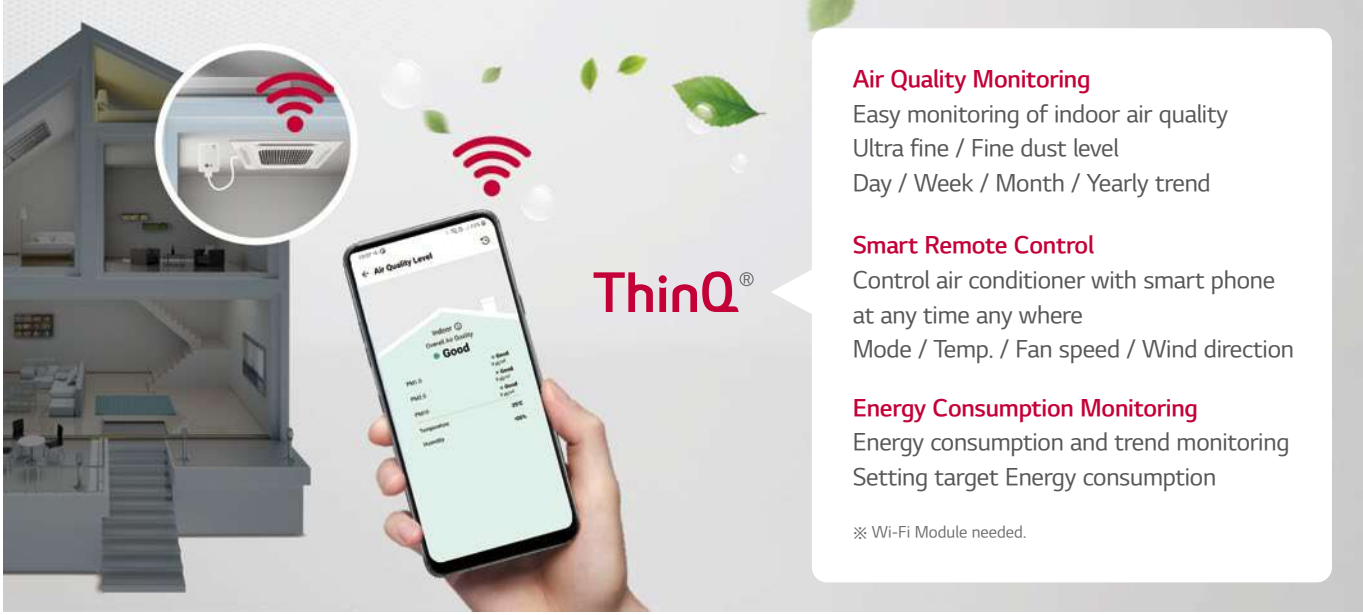
5-Step Air Cleaning Process

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



ThinQ App

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



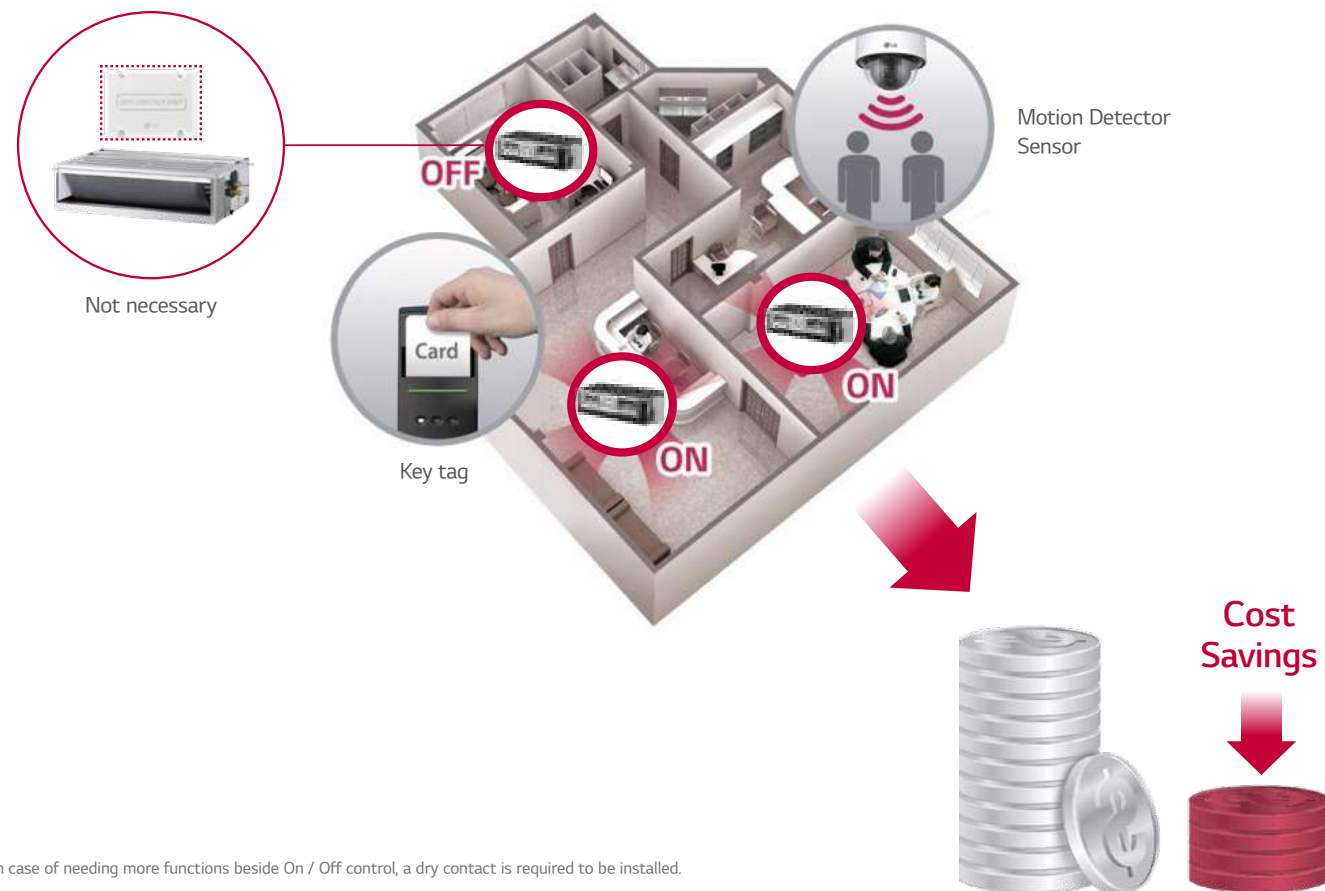
Advanced Air Conditioning Technology

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

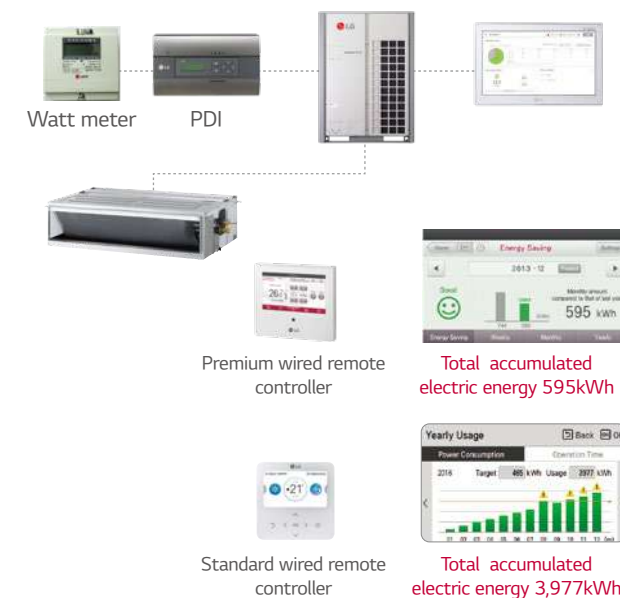


※ In case of needing more functions beside On / Off control, a dry contact is required to be installed.

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.

Install Scene



Apply for Multistory Building

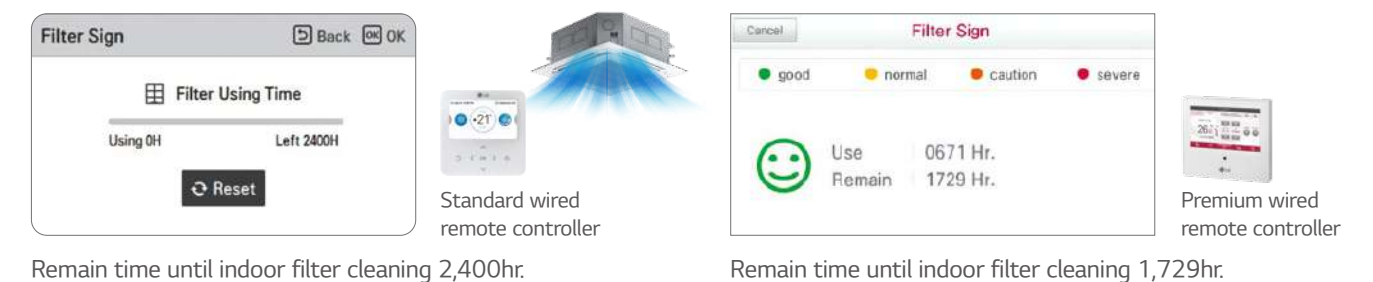


※ Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are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

Filter Sign (Remaining Time)

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

Remain time until indoor filter cleaning + alarm



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

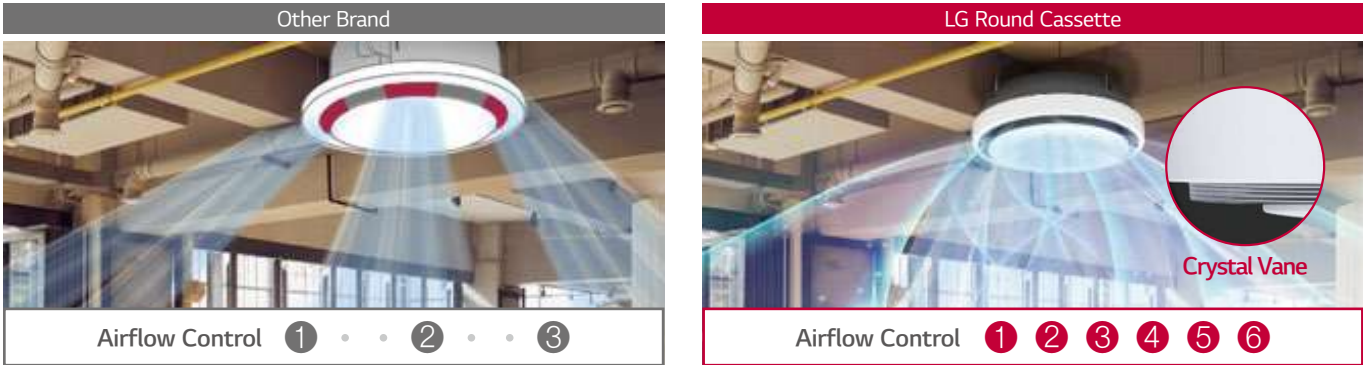
Perfect Round Flow

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.

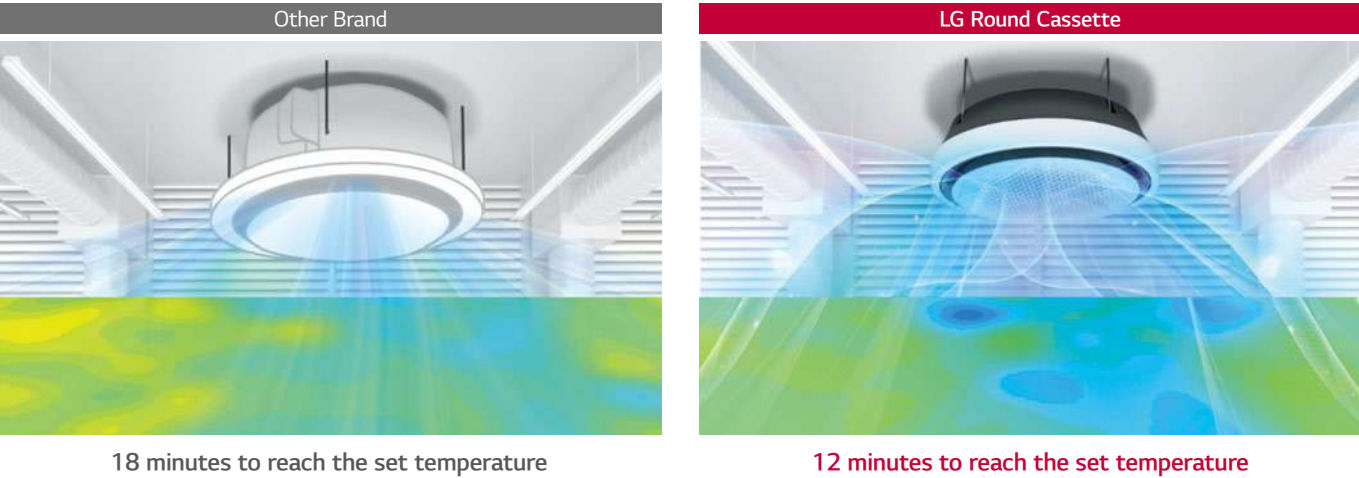


ROUND CASSETTE

Comfort

30% Faster in Cooling

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



Clean Air

Powerful and Convenient 5-step Air Purification

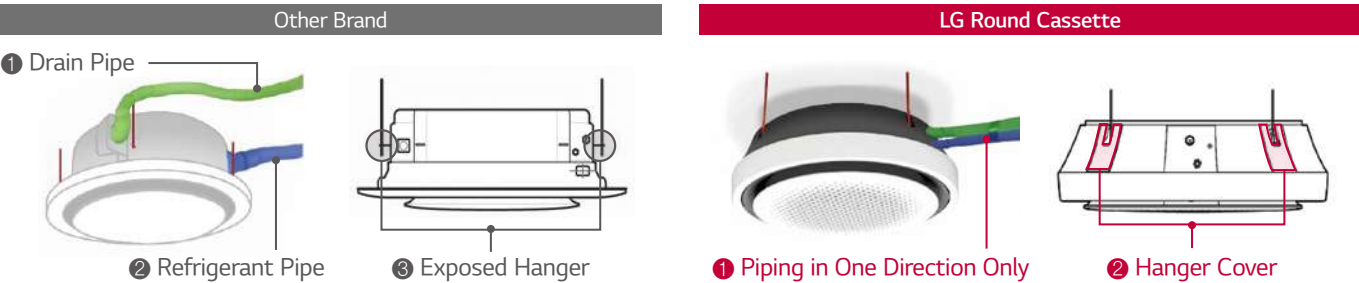
With the semi-permanent 5-step air filter, you don't have to worry about maintenance cost anymore.



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)



ROUND CASSETTE

ARNU24GTYA/B4
ARNU36GTYA/B4
ARNU48GTYA/B4



Model	Unit	ARNU24GTYA/B4	ARNU36GTYA/B4	ARNU48GTYA/B4
Cooling Capacity	kW	7.1	10.6	14.1
	Btu/h	24,200	36,200	48,100
Heating Capacity	kW	8.0	11.9	15.9
	Btu/h	27,300	40,600	54,200
Power Input	H / M / L	W	63 / 47 / 36	98 / 70 / 44
	Type	-	3D Turbo Fan	3D Turbo Fan
Fan	Air Flow Rate (H / M / L)	m³/min	22 / 21 / 19	32 / 28 / 23
	Type	-	Brushless DC	Brushless DC
Fan Motor	Drive	-	Direct	Direct
	Output	W x No.	157 x 1	157 x 1
Dimensions	Net (W x H x D)	mm	1,050 x 330 x 1,050	1,050 x 330 x 1,050
Weight	Net	kg	30.0	30.0
Exterior	Color	-	White	White
	RAL Code	-	RAL 9003	RAL 9003
Pre-Filter	Type	-	Long Life	Long Life
Air Purification Kit	-	PTAHYP0	PTAHYP0	PTAHYP0
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Sound Pressure Level (H / M / L)	dB(A)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39
Sound Power Level (H / M / L)	dB(A)	48 / 46 / 43	52 / 48 / 46	56 / 53 / 48
Connecting Cable	Communication Cable (VCTF-SB)	mm² x cores	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
	-	Ø, V, Hz	1, 220 - 230 - 240, 50/60	1, 220 - 230 - 240, 50/60
Power Supply	Running Current by Voltage	A	0.47 - 0.45 - 0.43	0.67 - 0.64 - 0.61

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

Accessories

Chassis	ARNU24GTYA/B4	ARNU36GTYA/B4	ARNU48GTYA/B4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNV50	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	
Human Detection Sensor		-	
Floor Temperature Sensor		-	
Air Purification Kit		PTAHMP0	
Elevation Grille		-	

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

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.

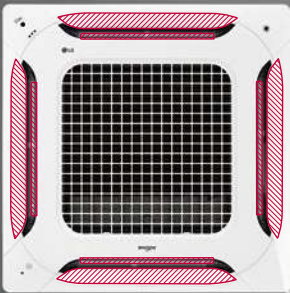
Key Applications

- Retail
- Restaurant
- Office
- Hotel
- Dormitory

New Design

Dual Vane Designs New Air Flow

Air flow certified by the NET(New Excellent Technology) provides comfortable and convenient feeling.



Smart 4Way
Dual Vane



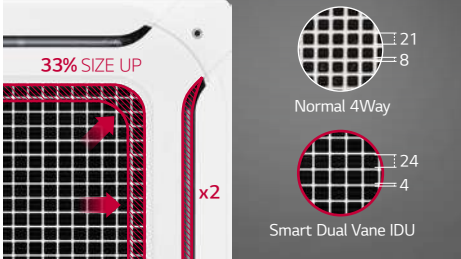
Brighter Color

White color looks better on the ceiling.



Wide Design

Bigger inlet and outlet make faster cooling / heating airflow.



High Air flow & Low noise with Full 3D Fan

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

Normal 3D FAN



Sound (Turbo)	48 dB(A)
Sound (Low)	42 dB(A)
Power Input	102 W

Full 3D FAN

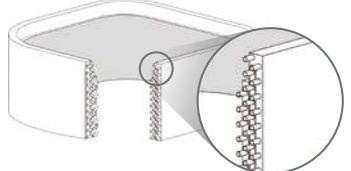


Sound (Turbo)	45 dB(A)
Sound (Low)	39 dB(A)
Power Input	89 W

High Efficient Heat Exchanger (HEX)

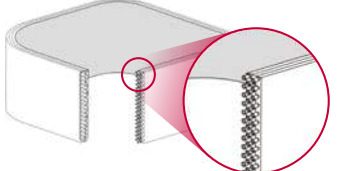
Ø5 High Density Heat Exchanger makes 10% cooling / heating efficiency.

Normal Ø7 HEX



Heat Transfer Area	3.32m² (100%)
Tube Column	12 Column
Fin per Inch	19
Efficiency	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.



Fast and Quick
Power Cooling



Fresh and Natural
Up / Down swing



Auto Vane Control
Smart mode



Indirect cooling & Heating
Indirect wind



No need extra high ceiling kits
Direct wind



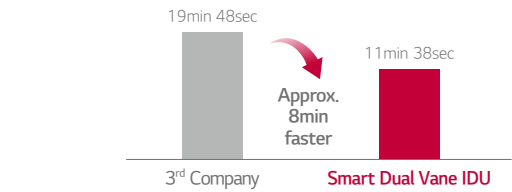
Provide high concentration
Refresh mode

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

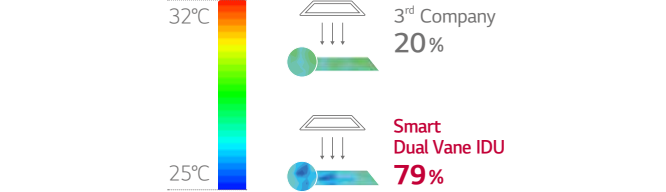
※ Data Based on actual test of LG Test Chamber, single product test result (start temp. : 33°C, Setting Temp. : 26 °C, 3rd Company : Cooling Autoswing, LG : Natural Dual Swing Mode)

Up / Down swing

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



Cooling Temperature Distribution rate



<3rd company Auto swing, LG Dual auto swing mode>

※ Smart Dual Vane Indoor Unit 14.5kW

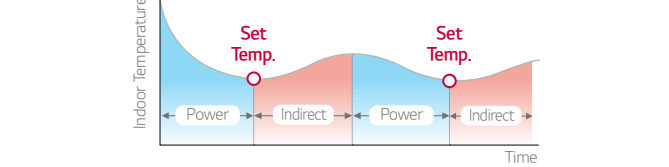
※ Data Based on actual test of LG Test Chamber, single product test result (start temp. : 33°C, Setting Temp. : 26 °C, 3rd Company : Cooling Autoswing, LG : Natural Dual Swing Mode)

Smart mode

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



Change of airflow by Temperature



Indirect wind

Dual Vane designs indirect wind without separate airguide Kit.



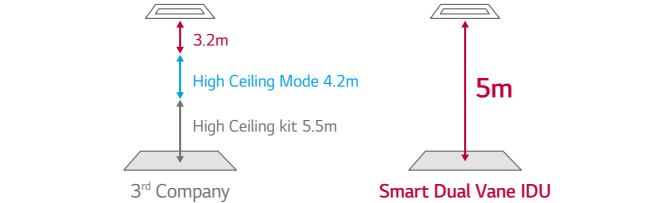
Direct wind

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



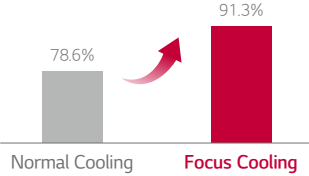
※ 3rd Company : High Ceiling Installation Kit Manual, LG : Direct wind

Refresh mode

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

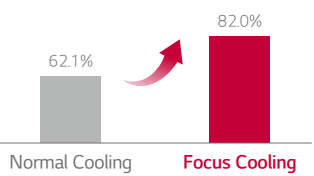


Concentration Performance



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

Vocabulary Test Performance



SMART DUAL VANE CASSETTE

Various Airflow

Human detecting Direct / Indirect airflow

Human sensing function finds users to provide their favorite airflow.

Comfort Indirect

Prevent airflow to heading to user by sensing.



No touch
Indirect airflow
Comfort

Follow user Direct

Prefer air flow to heading to user by sensing.



Direct airflow
2°C Cooler

※ Available only for products with Human Detecting sensor.

Everyday High performance of Air cleaning

Air cleaning function makes clean spaces for everyday.





Air Cleaning Area
150.9 m²
Clean Air Delivery Rate (CADR)
19.6 m³/min

What is the CADR?

CADR is an universe figure of merit that is cubic feet per minute (CFM) of air that has had all the particles of a given size distribution removed.

CADR (Clean Air Delivery Rate)

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

Human detecting On / Off Learning operation system

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

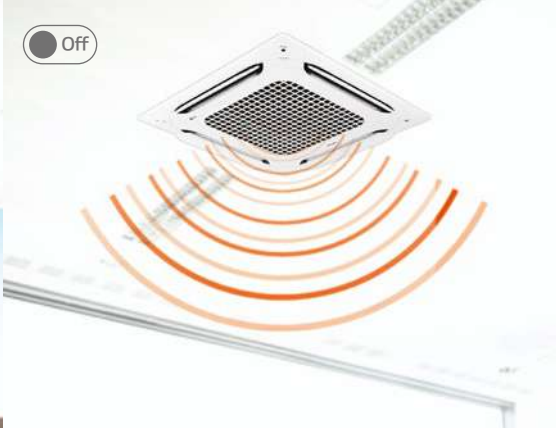
Operation On

Turning Off

Turning On



In office



Absence



In office

Learning time for Power saving
Manageable set time 30min / 60min / 90min

5min

Absence → Turn off after 30min (Set turn off)

Learning time for Absence

Power saving

Max. **54%**
Power saving

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

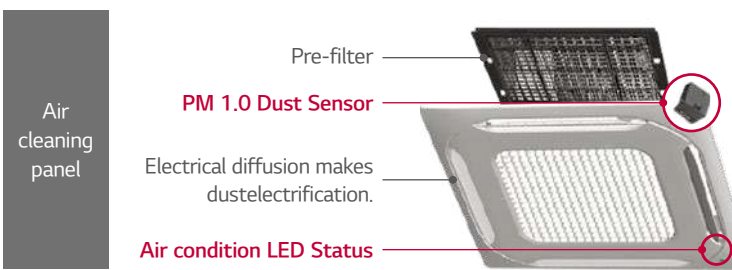
Convenient and Powerful 5 Steps Air cleaning

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

Air cleaning kit



Air cleaning panel



Phase 5 | Antibacterial Kit

Phase 4 | Deodorizing Filter

Phase 3 | Ultra Fine Dust Kit

Phase 2 | Dust Electrification

Phase 1 | Pre-filter

Cycle / Management

No need

6 months / Dry

6 months / Washable

-

Easy removable pre-filter

SMART DUAL VANE CASSETTE

ARNU24GTBB4 / ARNU28GTBB4 / ARNU30GTBB4



Model		Unit	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Cooling Capacity		kW	7.1	8.2	9.0
		Btu/h	24,200	28,000	30,700
Heating Capacity		kW	8.0	9.2	10.0
		Btu/h	27,300	31,500	34,100
Power Input	H / M / L	W	32 / 27 / 20	37 / 30 / 22	48 / 36 / 25
Running Current	H / M / L	A	0.31 / 0.26 / 0.21	0.34 / 0.28 / 0.22	0.43 / 0.34 / 0.25
Fan	Type		3D Turbo Fan	3D Turbo Fan	3D Turbo Fan
	Air Flow Rate (H/M/L)	m³/min	18 / 17 / 15	19 / 17 / 15	21 / 19 / 16
Fan Motor	Type	-	Brushless DC	Brushless DC	Brushless DC
	Drive	-	Direct	Direct	Direct
	Output	W	51	51	51
		No.	1	1	1
Dimensions	Net (W x H x D)	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
Weight	Net	kg	21.0	21.0	21.0
Pre-Filter	Type	-	Long Life	Long Life	Long Life
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Sound Pressure Level (H / M / L)		dB(A)	39.0 / 37.0 / 35.0	40.0 / 38.0 / 35.0	43.0 / 40.0 / 36.0
Sound Power Level (H / M / L)		dB(A)	46.0 / 44.0 / 42.0	50.0 / 46.0 / 43.0	53.0 / 50.0 / 45.0
Connecting Cable	Communication Cable (VCTF-SB)	mm² × cores	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2	1.0 ~ 1.5 x 2
Power Supply	#1	Ø, V, Hz	1, 220 ~ 230 ~ 240, 50	1, 220 ~ 230 ~ 240, 50	1, 220 ~ 230 ~ 240, 50
	Model Name	-	PT-AAGW0 / PT-AFGW0	PT-AAGW0 / PT-AFGW0	PT-AAGW0 / PT-AFGW0
Decoration Panel (Accessory)	Net Dimension	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5
	Exterior Color	-	Noble White	Noble White	Noble White

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

Accessories

Chassis	ARNU24GTBB4	ARNU28GTBB4	ARNU30GTBB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)		○	
Wi-Fi		PWFMDD200	
Human Detection Sensor		PTVSAA0	
Floor Temperature Sensor		○ (only with PT-AFGW0)	
Air Purification Kit		PTAHMP0 (PT-AFGW0 panel required)	
Elevation Grille		-	

ARNU36GTAB4 / ARNU42GTAB4 / ARNU48GTAB4



Model		Unit	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Cooling Capacity		kW	10.6	12.3	14.1
		Btu/h	36,200	42,000	48,100
Heating Capacity		kW	11.9	13.8	15.9
		Btu/h	40,600	47,000	54,200
Power Input	H / M / L	W	69 / 49 / 37	97 / 69 / 49	110 / 76 / 61
Running Current	H / M / L	A	0.62 / 0.46 / 0.36	0.85 / 0.62 / 0.46	0.95 / 0.69 / 0.56
Fan	Type		3D Turbo Fan	3D Turbo Fan	3D Turbo Fan
	Air Flow Rate (H/M/L)	m³/min	29 / 26 / 22	33 / 29 / 26	34 / 30 / 28
Fan Motor	Type	-	Brushless DC	Brushless DC	Brushless DC
	Drive	-	Direct	Direct	Direct
	Output	W	135	135	135
		No.	1	1	1
Dimensions	Net (W x H x D)	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Weight	Net	kg	26.0	26.0	26.0
Pre-Filter	Type	-	Long Life	Long Life	Long Life
Piping Connection	Liquid	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Sound Pressure Level (H / M / L)		dB(A)	43.0 / 40.0 / 37.0	47.0 / 43.0 / 40.0	48.0 / 44.0 / 42.0
Sound Power Level (H / M / L)		dB(A)	54.0 / 51.0 / 47.0	56.0 / 53.0 / 49.0	58.0 / 54.0 / 53.0
Connecting Cable	Communication Cable (VCTF-SB)	mm² × cores	1.0~1.5 x 2	1.0~1.5 x 2	1.0~1.5 x 2
Power Supply	#1	Ø, V, Hz	1, 220 ~ 230 ~ 240, 50	1, 220 ~ 230 ~ 240, 50	1, 220 ~ 230 ~ 240, 50
	Model Name	-	PT-AAGW0 / PT-AFGW0	PT-AAGW0 / PT-AFGW0	PT-AAGW0 / PT-AFGW0
Decoration Panel (Accessory)	Net Dimension	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Net Weight	kg	7.1 / 7.5	7.1 / 7.5	7.1 / 7.5
	Exterior Color	-	Noble White	Noble White	Noble White

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

Accessories

Chassis	ARNU36GTAB4	ARNU42GTAB4	ARNU48GTAB4
Drain Pump		○	
Cassette Cover		PTDCA	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)		○	
Wi-Fi		PWFMDD200	
Human Detection Sensor		PTVSAA0	
Floor Temperature Sensor		○ (only with PT-AFGW0)	
Air Purification Kit		PTAHMP0 (PT-AFGW0 panel required)	
Elevation Grille		-	

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

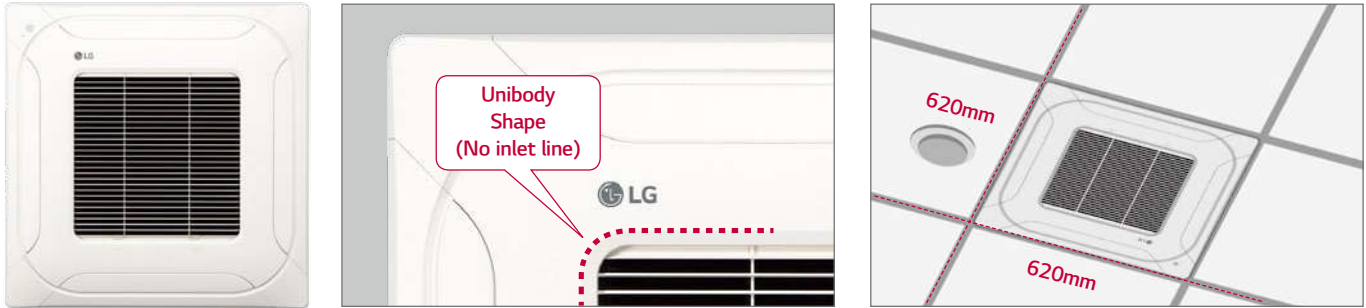
- Retail
- School
- Office
- Hotel
- Dormitory
- Restaurant

Cassette		4 Way (570x570)	2 Way	1 Way
Smart	Wi-Fi	-	○	○
Health	Auto Cleaning	-	○	-
Comfort	Drain Pump	○	○	○
	Sleep Mode	○	○	○
	Timer (On / Off)	○	○	○
	Timer (Weekly)	○	○	○
	Two Thermistor Control	○	○	○
Group Control		○	○	○

※ ○ : Applied, - : Not applied

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.

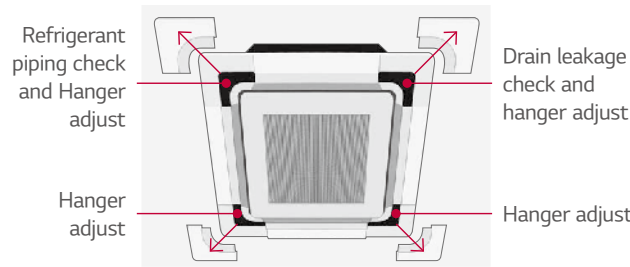


※ The shape of the panel in the image may differ from the actual shape.

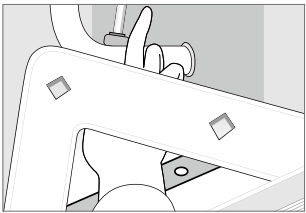
Convenient Panel Installation

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

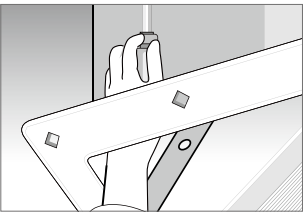
Detachable Corner Design



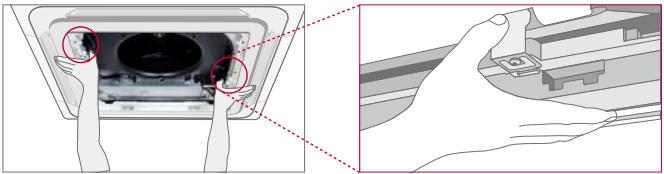
Drain leakage check



Hanger adjust

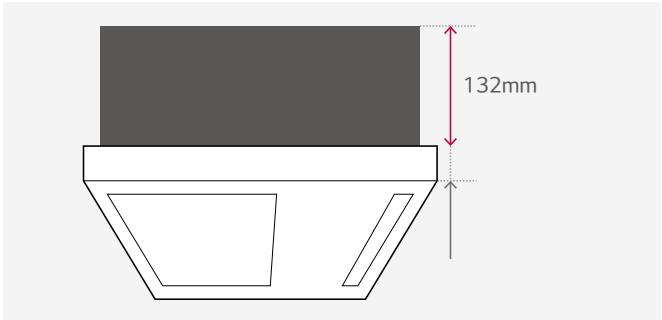


It is easy to install the panel to the body, using the button type panel design.



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

CEILING MOUNTED CASSETTE

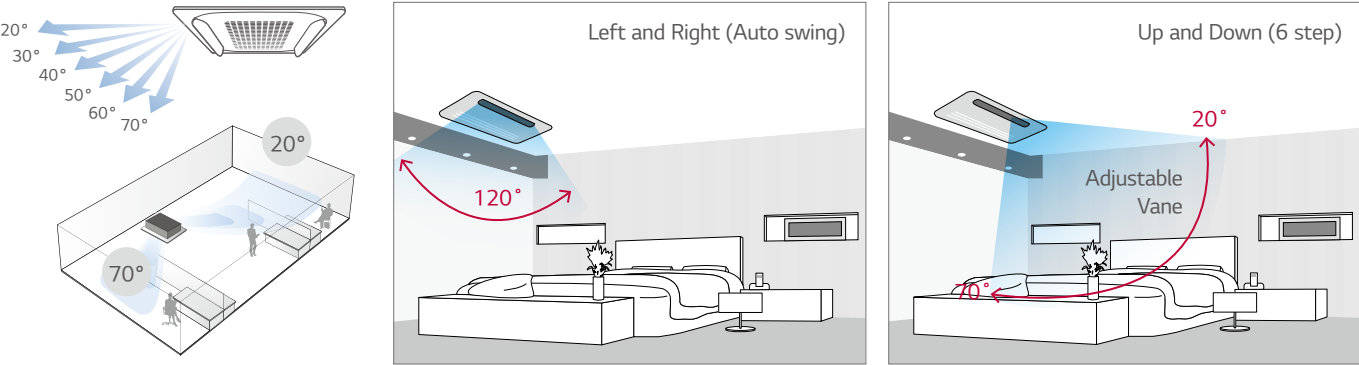
Independent Vane Control

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



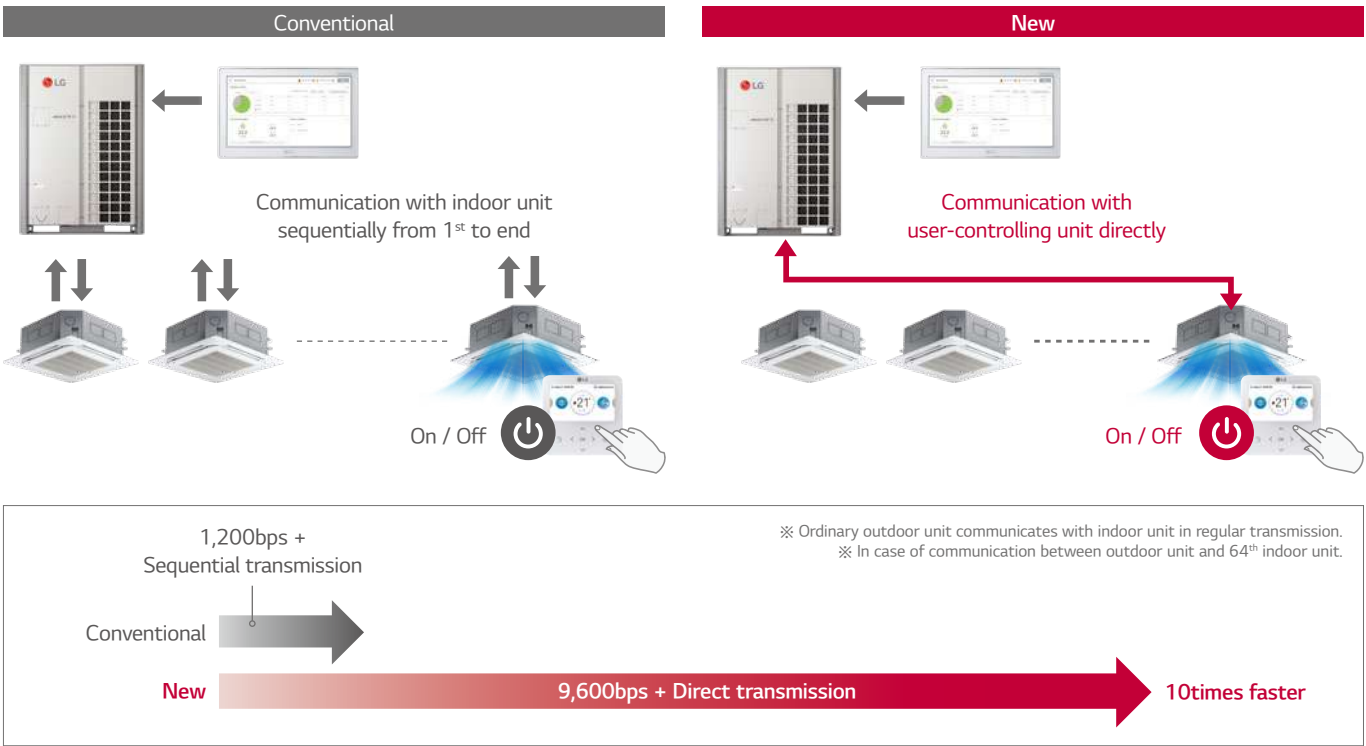
6-Step Vane Control

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



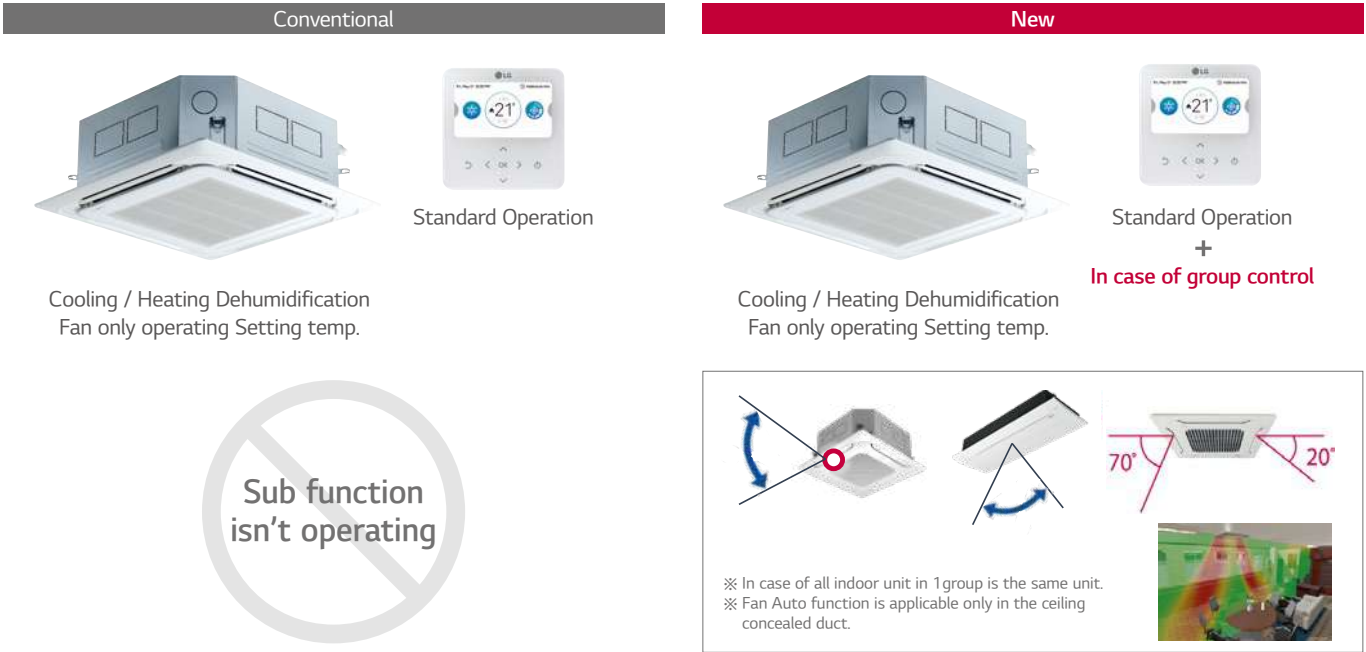
Quick Control

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



Group Control

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



4 Way CASSETTE (570 X 570)

ARNU05GTRB4 / ARNU07GTRB4 / ARNU09GTRB4 / ARNU12GTRB4



Model		Unit	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Cooling Capacity		kW	1.6	2.2	2.8	3.6
		Btu/h	5,500	7,500	9,600	12,300
Heating Capacity		kW	1.8	2.5	3.2	4.0
		Btu/h	6,100	8,500	10,900	13,600
Power Input	H / M / L	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13
Dimensions (W x H x D)	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output	W x No.	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0
	Drive		Direct	Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC	BLDC
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Net Weight	Body	kg (lbs)	12.6 (27.8)	12.6 (27.8)	13.7 (30.2)	13.7 (30.2)
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27
Sound Power Levels (H / M / L)		dB(A)	47 / 46 / 45	47 / 46 / 45	48 / 46 / 45	51 / 48 / 45
Power Supply	Ø, V, Hz		1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name	-	PT-QAGW0	PT-QAGW0	PT-QAGW0	PT-QAGW0
	Net Dimension	mm	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620
	Net Weight	kg	2.9	2.9	2.9	2.9
	Exterior Color	-	Morning Fog	Morning Fog	Morning Fog	Morning Fog

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

Accessories

Chassis	ARNU05GTRB4	ARNU07GTRB4	ARNU09GTRB4	ARNU12GTRB4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVSO			
EEV Kit	PRGK024A0 (~4.5kW)			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	-			
CO ₂ Sensor	-			
Ventilation Kit	PTVK430			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMD200			

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

ARNU15GTQB4 / ARNU18GTQB4 / ARNU21GTQB4



Model		Unit	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Cooling Capacity		kW	4.5	5.6	6.0
		Btu/h	15,400	19,100	20,500
Heating Capacity		kW	5.0	6.3	6.8
		Btu/h	17,100	21,500	23,200
Power Input	H / M / L	W	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
Dimensions (W x H x D)	Body	mm	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output	W x No.	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m³/min	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Net Weight	Body	kg (lbs)	15.0 (33.1)	15.0 (33.1)	15.0 (33.0)
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	52 / 50 / 46	52 / 50 / 46	54 / 52 / 46
Power Supply	Ø, V, Hz		1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name	-	PT-QAGW0	PT-QAGW0	PT-QAGW0
	Net Dimension	mm	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620
	Net Weight	kg	2.9	2.9	2.9
	Exterior Color	-	Morning Fog	Morning Fog	Morning Fog

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

Accessories

Chassis	ARNU15GTQB4	ARNU18GTQB4	ARNU21GTQB4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVSO		
EEV Kit	PRGK024A0 (~4.5kW)		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO ₂ Sensor	-		
Ventilation Kit	PTVK430		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMD200		

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

2 Way CASSETTE

ARNU18GTSC4 / ARNU24GTSC4



Model		Unit	ARNU18GTSC4	ARNU24GTSC4
Cooling Capacity		kW	5.6	7.1
		Btu/h	19,100	24,200
Heating Capacity		kW	6.3	8.0
		Btu/h	21,500	27,300
Power Input (H / M / L)		W	19 / 16 / 14	31 / 22 / 14
Dimensions (W x H x D)	Net	mm	830 x 225 x 600	830 x 225 x 600
Weight	Net	kg (lbs)	18.1 (39.9)	18.1 (39.9)
Heat Exchanger	Rows x Columns x FPI		2 x 9 x 17	2 x 9 x 17
	Face Area	m²	0.32	0.32
Fan Type			Turbo Fan	Turbo Fan
Air Flow Rate	H / M / L	m³/min	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
Fan	Type		BLDC	BLDC
	Drive		Direct	Direct
	Output	W x No.	37 x 1	37 x 1
	Full Load Ampere	A	0.67	0.67
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)		dB(A)	45 / 44 / 41	51 / 48 / 42
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Communication Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Decoration Panel (Accessory)	Model Name	-	PT-USC	PT-USC
	Net Dimension	mm	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	4.7
	Exterior Color	-	Morning Fog	Morning Fog

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

Accessories

Chassis	ARNU18GTSC4	ARNU24GTSC4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRGK024A0 (~5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200	

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

1 Way CASSETTE

ARNU07GTUB4 / ARNU09GTUB4 / ARNU12GTUB4
ARNU18GTTB4 / ARNU24GTTB4



Model		Unit	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Cooling Capacity		kW	2.2	2.8	3.6	5.6	7.1
		Btu/h	7,500	9,600	12,300	19,100	24,200
Heating Capacity		kW	2.5	3.2	4.0	6.3	7.1
		Btu/h	8,500	10,900	13,600	21,500	24,200
Power Input (H / M / L)		W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
Fan	Motor Output	W	30	30	30	30	30
	Air Flow Rate (H / M / L)	m³/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Drive		Direct	Direct	Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Net Weight	Body	kg (lbs)	12.2 (26.9)	12.2 (26.9)	12.2 (26.9)	15.3 (33.7)	15.3 (33.7)
Sound Pressure Levels (H / M / L)		dB(A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB(A)	47 / 44 / 41	51 / 49 / 47	52 / 51 / 47	55 / 51 / 47	58 / 53 / 49
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		-	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
	Model Name	-	PT-UAHW0 / PT-UAHG0 / PT-UPHG0 (Premium)			PT-TAHW0 / PT-TAHG0 / PT-TPHG0 (Premium)	
Decoration Panel (Accessory)	Net Dimension	mm	1,100 x 34 x 500 / 1,160 x 34 x 500 / 1,160 x 34 x500			1,420 x 34 x 500 / 1,480 x 34 x 500 / 1,480 x 34 x 500	
	Net Weight	kg	3.3 / 3.9 / 4.1			4.5 / 4.8 / 4.9	
	Exterior Color	-	Ivory White / White / White			Ivory White / White / White	
Air Purification Kit (Premium Panel Only)			PTAHTP0	PTAHTP0	PTAHTP0	PTAHTP0	PTAHTP0

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

Accessories

Chassis	ARNU07GTUB4	ARNU09GTUB4	ARNU12GTUB4	ARNU18GTTB4	ARNU24GTTB4
Drain Pump	○				○
Cassette Cover	-				-
Refrigerant Leakage Detector	PRLDNVS0				PRLDNVS0
EEV Kit	PRGK024A0				-
Multi-tenant Power Module	PINPMB001				PINPMB001
Robot Cleaner	-				-
Pre Filter (Washable)	○				○
Ion Generator	-				-
CO ₂ Sensor	-				-
Ventilation Kit	-				-
IR Receiver	-				-
Zone Controller	-				-
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○			○	
Air Purification Kit	PTAHTP0			PTAHTP0	
Wi-Fi	PWFMD200			PWFMD200	

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

CEILING CONCEALED DUCT



Features & Benefits

- UV nano filter box (Optional) can make and provide clean indoor air quality.
- Minimalist visibility (Hidden within ceiling) to blend seamlessly into any interior.
- Easy and flexible duct adjusts air volume with External Static Pressure (ESP) control.

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

※ ○ : Applied, - : Not applied

Key Applications

- Hotel / Conference Center
- Restaurant
- Retail / Shopping Center
- Church
- School
- Historic Building
- Office

UVnano™ Filter Box

LG UVnano Filter Box can effectively create a safe indoor environment by trapping and removing various harmful substances such as Ultrafine dust, bacteria and viruses in the form of droplets.

Air Purification Operation



Certificate



Certified Test Report

The built-in UV LED module of tested model (PBM13M3UA0) has over 99.99% sterilization performance on average to bacteria at measuring points of the Pre-Filter under the proposed test condition.

** Tested by TÜV Rheinland Standard



Certified Test Report

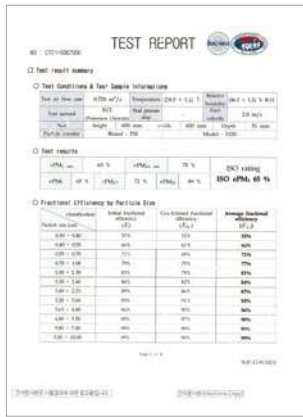
The built-in UV LED module of tested model (PBM13M3UA0) has 99.99% sterilization performance to virus (Phi X 174) at measuring points of the Pre-Filter under the proposed test condition.

** Tested by TÜV Rheinland Standard

ePM₁ 65% Filter

ePM₁ 65% Filtering capability rating in accordance with ISO 16890

Certified Test Report



Comparison of Filter Classes

EN 779	ISO 16890 (Average Efficiency)				ASHRAE 52.2
Filter Class	ePM ₁	ePM _{2.5}	ePM ₁₀	Coarse	Filter Rating
G1	-	-	-	-	MERV 1-4
G2	-	-	-	30% - 50%	MERV 1-4
G3	-	-	-	45% - 65%	MERV 5
G4	-	-	-	60% - 85%	MERV 6-8
M5	5% - 35%	10% - 45%	40% - 70%	80% - 95%	MERV 8-10
M6	10% - 40%	20% - 50%	45% - 80%	> 90%	MERV 9-13
F7	40% - 65%	50% - 75%	80% - 90%	> 95%	MERV 13-14
F8	65% - 90%	75% - 95%	90% - 100%	> 95%	MERV 14-15
F9	80% - 90%	85% - 95%	90% - 100%	> 95%	MERV 16

** Tested by KCL (Korea Conformity Laboratories)

※ ISO 16890 Standard provides lab evaluation procedures which more realistically simulate actual operating conditions, replacing EN 779 Standard's filter classes G1-F9 by a classification system based on particulate groups PM1, PM2.5 and PM10.

※ Unlike EN 779 Standard which specifies Filter Classes, ISO 16890 Standard classifies according to Filter Groups, evaluating a filter's performance by its arrestance of particles from 0.3μm to 10μm in size. Filter Group PM1 comprises particulate sizes ≤ 1.0μm, PM2.5 includes particulates sizes ≤ 2.5μm and PM10 covers particulate sizes ≤ 10μm.

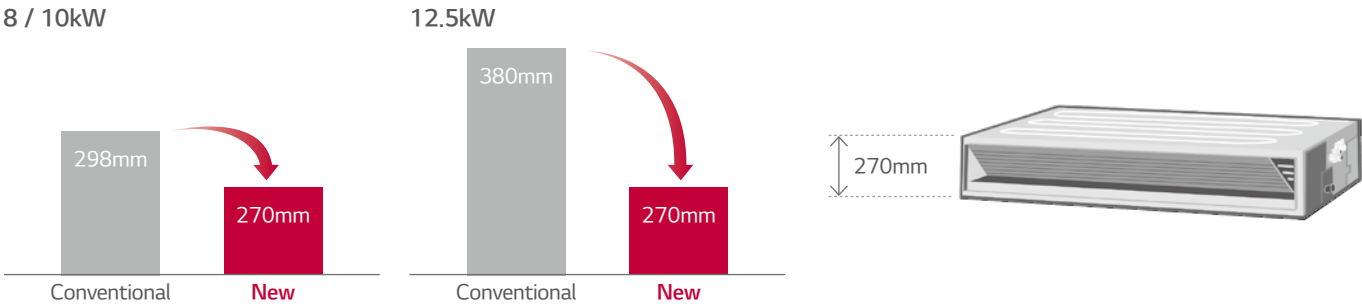
※ Minimum efficiency is defined as the efficiency achieved following electrostatic discharge of the filter before testing.

※ Average efficiency is calculated by averaging the filter's efficiencies in the untreated state (before electrostatic discharge) and in the discharged state.

CEILING CONCEALED DUCT

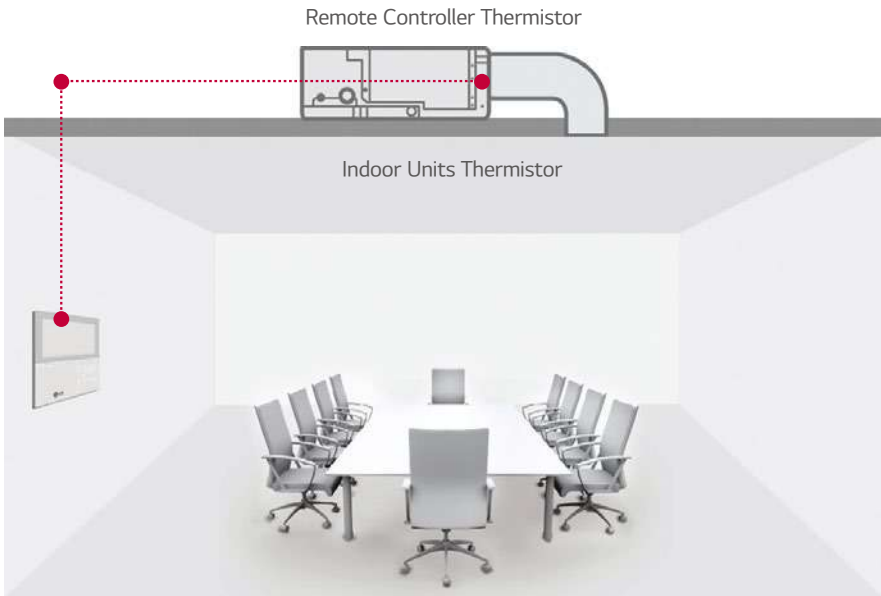
Minimized Height

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



Two Thermistors Control

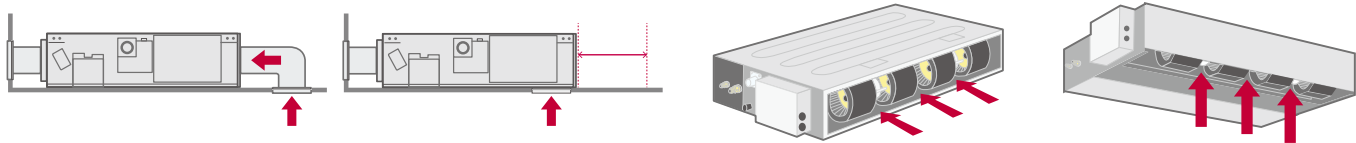
The indoor temperature can be checked using the thermi-stors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimize indoor air temperature for a more comfortable environment.



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



LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4



Model		Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Cooling Capacity		kW	1.7	2.2	2.8
		Btu/h	5,800	7,500	9,600
Heating Capacity		kW	1.9	2.5	3.2
		Btu/h	6,500	8,500	10,900
Power Input (H / M / L)		W	29 / 26 / 24	31 / 28 / 24	39 / 29 / 24
Dimensions (W x H x D)	Body	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1
	Air Flow Rate (H / M / L) (Factory Set)	m³/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External Static Pressure	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre-Filter	Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25.4 (1)	25.4 (1)	25.4 (1)
Net Weight		kg (lbs)	17.5 (38.6)	17.5 (38.6)	17.5 (38.6)
Sound Pressure 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
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNV50	
EEV Kit		PRGK024A0	
Independent Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable / Anti-fungus)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		ABZCA	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact) PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMD200	

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

LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4 / ARNU18GL2G4



Model		Unit	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Cooling Capacity		kW	3.6	4.5	5.6
		Btu/h	12,300	15,400	19,100
Heating Capacity		kW	4.0	5.0	6.3
		Btu/h	13,600	17,100	21,500
Power Input (H / M / L)		W	41 / 34 / 29	56 / 41 / 34	71 / 56 / 41
Dimensions (W x H x D)	Body	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1
	Air Flow Rate (H / M / L) (Factory Set)	m³/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
	External Static Pressure	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre-Filter	Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25.4 (1)	25.4 (1)	25.4 (1)
Net Weight		kg (lbs)	23 (50.7)	23 (50.7)	23 (50.7)
Sound Pressure Levels (H / M / L)		dB(A)	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29
Sound Power Levels (H / M / L)		dB(A)	50 / 47 / 46	54 / 51 / 47	56 / 54 / 51
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNV50		
EEV Kit	○		
Independent Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable / Anti-fungus)	○		
Ion Generator	-		
CO ₂ Sensor	-		
Ventilation Kit	-		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMD200		

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

ARNU21GL3G4 / ARNU24GL3G4



Model		Unit	ARNU21GL3G4	ARNU24GL3G4
Cooling Capacity		kW	6.2	7.1
		Btu/h	21,000	24,000
Heating Capacity		kW	7.0	8.0
		Btu/h	23,900	27,300
Power Input (H / M / L)		W	72 / 53 / 48	103 / 63 / 48
Dimensions (W x H x D)	Body	mm	1,100 × 190 × 700	1,100 × 190 × 700
	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 2	19 x 2
	Air Flow Rate (H / M / L) (Factory Set)	m³/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External Static Pressure	mmAq (Pa)	2.54 (25)	2.54 (25)
	Drive		Direct	Direct
Motor Type			BLDC	BLDC
Air Filter			Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25.4 (1)	25.4 (1)
Net Weight		kg (lbs)	27 (59.5)	27 (59.5)
Sound Pressure Levels (H / M / L)		dB(A)	35 / 29 / 28	36 / 33 / 28
Sound Power Levels (H / M / L)		dB(A)	59 / 55 / 54	63 / 59 / 55
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU21GL3G4	ARNU24GL3G4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNV50	
EEV Kit	-	
Independent Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable / Anti-fungus)	○	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Zone Controller	ABZCA	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact) PDRYCB320 (Universal input) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200	

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

MID STATIC

A/GRNU07GM1A4
A/GRNU09GM1A4
A/GRNU12GM1A4



※ GRNU : Saudi local contents

Model		Unit	A/GRNU07GM1A4	A/GRNU09GM1A4	A/GRNU12GM1A4
Cooling Capacity		kW	2.2	2.8	3.6
		Btu/h	7,500	9,600	12,300
Heating Capacity		kW	2.5	3.2	4.0
		Btu/h	8,500	10,900	13,600
Power Input (H / M / L)		W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31
Dimensions (W x H x D)	Body	mm	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700
Fan	Type		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) (Factory Set)	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Air Filter			Pre-Filter	Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)
Net Weight	Body	ARNU kg (lbs)	25.0 (55)	25.0 (55)	25.0 (55)
		GRNU kg (lbs)	25.5 (56)	25.5 (56)	25.5 (56)
Sound Pressure 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
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Duct Filter Box			PBM13M1UA0	PBM13M1UA0	PBM13M1UA0

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

Accessories

Chassis	A/GRNU07GM1A4	A/GRNU09GM1A4	A/GRNU12GM1A4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNV50		
EEV Kit	PRGK024A0 (~5.6kW)		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO ₂ Sensor	-		
Ventilation Kit	-		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMD200		

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

A/GRNU15GM1A4
A/GRNU18GM1A4
A/GRNU24GM1A4



※ GRNU : Saudi local contents

Model		Unit	A/GRNU15GM1A4	A/GRNU18GM1A4	A/GRNU24GM1A4	
Cooling Capacity		kW	4.5	5.6	7.1	
		Btu/h	15,400	19,100	24,200	
Heating Capacity		kW	5.0	6.3	8.0	
		Btu/h	17,100	21,500	27,300	
Power Input (H / M / L)		W	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58	
Dimensions (W x H x D)	Body	mm	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	
Fan	Type		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) (Factory Set)	m³/min	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0	
	External Static Pressure	mmAq (Pa)	6 (59)	6 (59)	6 (59)	
	Drive		Direct	Direct	Direct	
	Motor Type		BLDC	BLDC	BLDC	
Air Filter			Pre-Filter	Pre-Filter	Pre-Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)	
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)	25 (1)	
Net Weight	Body	ARNU	kg (lbs)	25.0 (55)	25.0 (55)	25.9 (57)
		GRNU	kg (lbs)	25.5 (56)	25.5 (56)	26.5 (58)
Sound Pressure 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	
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	
UVnano Filter Box			PBM13M1UA0	PBM13M1UA0	PBM13M1UA0	

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

Accessories

Chassis	A/GRNU15GM1A4	A/GRNU18GM1A4	A/GRNU24GM1A4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNV50		
EEV Kit	PRGK024A0 (~5.6kW)		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO ₂ Sensor	-		
Ventilation Kit	-		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMD200		

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

MID STATIC

A/GRNU28GM2A4
A/GRNU36GM2A4
A/GRNU42GM2A4
A/GRNU48GM3A4
A/GRNU54GM3A4



※ GRNU : Saudi local contents

Model			Unit	A/GRNU28GM2A4	A/GRNU36GM2A4	A/GRNU42GM2A4	A/GRNU48GM3A4	A/GRNU54GM3A4
Cooling Capacity			kW	8.2	10.6	12.3	14.1	15.8
			Btu/h	28,000	36,200	42,000	48,100	54,000
Heating Capacity			kW	9.2	11.9	13.8	15.9	18.0
			Btu/h	31,500	40,600	47,000	54,200	61,400
Power Input (H / M / L)			W	123 / 81 / 57	184 / 123 / 81	231 / 162 / 111	172 / 105 / 65	260 / 215 / 172
Dimensions (W x H x D)	Body	mm	1,250 × 270 × 700		1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 360 × 700	1,250 × 360 × 700
	Type		Sirocco Fan		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	350 x 1		350 x 1	350 x 1	400 x 1	400 x 1
	Air Flow Rate (H / M / L) (Factory Set)	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	mmAq (Pa)	6 (59)		6 (59)	6 (59)	6 (59)	6 (59)
	Drive		Direct		Direct	Direct	Direct	Direct
	Motor Type		BLDC		BLDC	BLDC	BLDC	BLDC
	Air Filter		Pre-Filter		Pre-Filter	Pre-Filter	Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)		Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)		Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)		25 (1)	25 (1)	25 (1)	25 (1)
Net Weight	Body	ARNU	kg (lbs)	36.0 (79)	36.0 (79)	37.2 (82)	42.2 (93)	42.2 (93)
		GRNU	kg (lbs)	38.0 (84)	38.0 (84)	39.5 (87)	44.0 (97)	44.0 (97)
Sound Pressure Levels (H / M / L)			dB(A)	38 / 36 / 35	40 / 38 / 36	42 / 41 / 39	41 / 38 / 37	42 / 41 / 40
Sound Power Levels (H / M / L)			dB(A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Power Supply			Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable			mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
UVnano Filter Box				PBM13M2UA0	PBM13M2UA0	PBM13M2UA0	PBM13M3UA0	PBM13M3UA0

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

Accessories

Chassis	A/GRNU28GM2A4	A/GRNU36GM2A4	A/GRNU42GM2A4	A/GRNU48GM3A4	A/GRNU54GM3A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNV50				
EEV Kit	PRGK024A0 (~5.6kW)				
Multi-tenant Power Module	PINPMB001				
Robot Cleaner	-				
Pre Filter (Washable)	○				
Ion Generator	-				
CO ₂ Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLVRN000				
Zone Controller	ABZCA				
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMD200				

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

HIGH STATIC

ARNU76GB8A4 / ARNU96GB8A4



Model		Unit	ARNU76GB8A4	ARNU96GB8A4
Cooling Capacity		kW	22.4	28.0
		Btu/h	76,400	95,900
Heating Capacity		kW	25.2	31.5
		Btu/h	86,000	107,500
Power Input (H / M / L)		W	765 / 500 / 500	800 / 750 / 750
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Type		Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (Factory Set)	m³/min	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	External Static Pressure	mmAq (Pa)	22 (216)	22 (216)
	Air Flow Rate (H / M / L) (Standard Mode)	m³/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External Static Pressure	mmAq (Pa)	15 (147)	15 (147)
	Drive		Direct	Direct
	Motor Type		BLDC	BLDC
	Air Filter		Pre-Filter	Pre-Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25 (1)	25 (1)
Net Weight		kg (lbs)	87 (192)	87 (192)
Sound Pressure Levels (H / M / L)		dB(A)	45 / 41 / 40	47 / 42 / 41
Sound Power Levels (H / M / L)		dB(A)	67 / 62 / 60	68 / 64 / 62
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU76GB8A4	ARNU96GB8A4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNV50	
EEV Kit	PRGK024A0 (~5.6kW)	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLVRN000	
Zone Controller	ABZCA	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMD200	

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

UV_{nano}TM FILTER BOX

UVnano Filter Box can effectively create a safe indoor environment by trapping and removing various harmful substances such as fine dust, bacteria and viruses in the form of droplets.

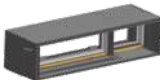


UVnano Filter Box Kit (Included ePM1 Filter)

PBM13M3UA0 / PBM13M2UA0 / PBM13M1UA0

ePM₁ Filter

FBM13M3UA0 / FBM13M2UA0 / FBM13M1UA0

PLATFORM		UNIT	M3 PLATFORM	M2 PLATFORM	M1 PLATFORM
MODEL NAME			PBM13M3UA0	PBM13M2UA0	PBM13M1UA0
Duct UVnano Filter Box		-			
Filter Box	Net Size (W x H x D)	mm	1,250 x 360 x 280	1,250 x 270 x 280	900 x 270 x 280
	Shipping Size (W x H x D)	mm	1,396 x 418 x 358	1,396 x 418 x 358	1,044 x 328 x 358
	Net Weight	kg	12.7	11.6	9.1
Pre-Filter	Mesh	-	34 x 39	34 x 39	34 x 39
	Color	-	Black	Black	Black
UVnano	UVC LED Model	-	LTPL-G35UV275TWA	LTPL-G35UV275TWA	LTPL-G35UV275TWA
	UVC LED Quantity	EA	8	8	8
Filter (1)	Size (W x H x D)	mm	600 x 341 x 50.8	600 x 251 x 50.8	600 x 251 x 50.8
	Quantity	EA	2	2	1
	Grade	-	*ePM ₁ 65%	ePM ₁ 65%	ePM ₁ 65%
Filter (2)	Size (W x H x D)	mm	-	-	250 x 251 x 50.8
	Quantity	EA	-	-	1
	Grade	-	-	-	ePM ₁ 65%

* Grade : ISO 16890

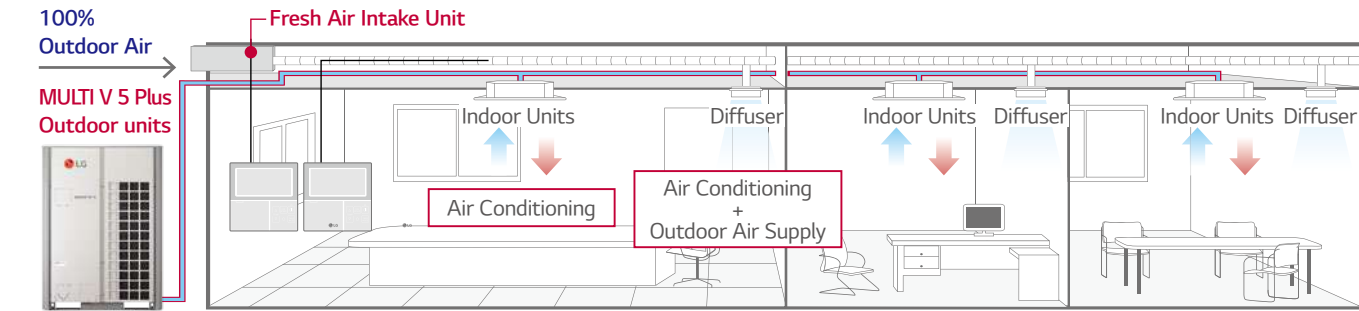
MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

FRESH AIR INTAKE

Fresh Outdoor Air Supply

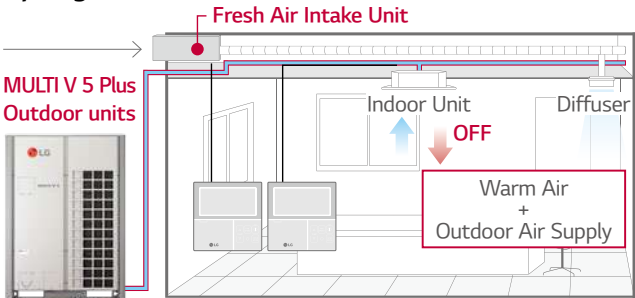
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated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



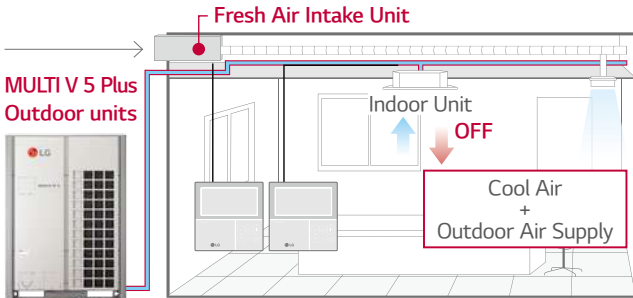
Economic Operation

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

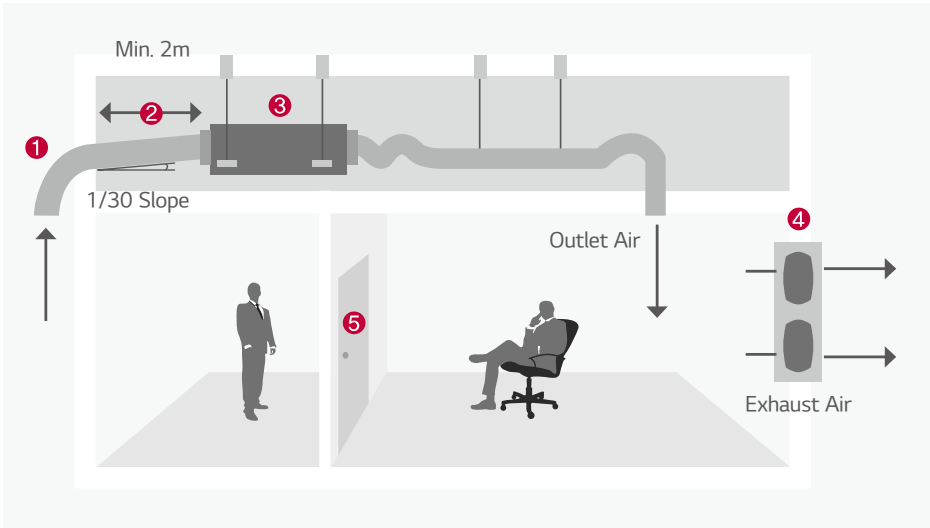
Spring Season



Autumn Season



Installation Scene



FRESH AIR INTAKE

ARNU76GB8Z4 / ARNU96GB8Z4



Model		Unit	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity		kW	22.4	28
		Btu/h	76,400	95,900
Heating Capacity		kW	21.4	26.7
		Btu/h	73,080	91,360
Power Input (H / M / L)		W	230 / 200 / 200	360 / 230 / 230
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Type	-	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	375 x 1	375 x 1
	Air Flow Rate (H/M/L) High static Mode-Factory Set	m³/min	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	External Static Pressure	mmAq (Pa)	22	22
	Drive		Direct	Direct
	Motor Type		BLDC	BLDC
Pre-Filter			Long Life Filter	Long Life Filter
Pipe Connection	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)
	Drain Pipe (Internal Dia.)	mm	25	25
Net Weight		kg (lbs)	73 (161)	73 (161)
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43	47 / 45 / 45
Sound Power Levels (H / M / L)		dB(A)	70 / 67 / 67	72 / 70 / 70
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

NOTE :

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

CAUTION		
1. Operation range (Cooling : 5℃ ~ 43℃, Heating : -5℃ ~ 43℃) 2. Installation of exhaust fan is recommended for a sealed room. 3. Indoor Unit Connection		
No	Connection Condition	Combination
1	Fresh air intake units only are connected with outdoor units	1) The total capacity of fresh air intake unit should be 50 ~ 100% of outdoor unit. 2) The max quantity of fresh air intake is 4 units.
2	Mixture connection with general indoor unit and fresh intake units	1) The total capacity of indoor units (Standard Indoor Unit + Fresh Air Intake Unit) should be 50 ~ 100% of outdoor unit. 2) The total capacity of fresh air intake unit should be less than 30% of the total capacity of indoor units.

Accessories

Chassis	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump		○
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		-
Multi-tenant Power Module		PINPMB001
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		PWLRVN000
Zone Controller		-
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		PWFMD200

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

WALL MOUNTED



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
- Multi-family Residence

Wall Mounted		Standard
Smart	Wi-Fi	○
Energy Efficiency	Energy Display	○
Fast Cooling & Heating	Jet Cool	○
	Auto Swing (Up & Down)	○
Health	Ionizer	○
	Pre Filter	○
	Auto Cleaning	○
	Sleep Mode	○
Comfort	Timer (On / Off)	○
	Timer (Weekly)	○
	Two Thermistor Control	○
	Group Control	○

※ ○: Applied, - : Not applied

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.



Electric Power
Displays Current Energy Use



Fan Speed

Display	Speed
F5	High
F4	Medium-High
F3	Medium
F2	Medium-Low
F1	Low

Sleep Mode



For example, setting 1hr

WALL MOUNTED

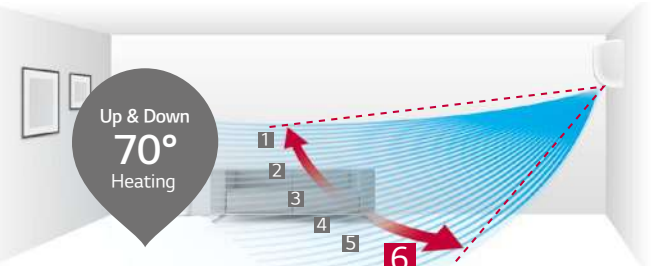
4 Way Swing

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°

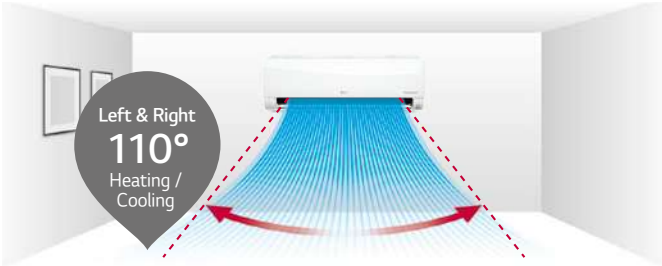
The vertical vane, which moves up and down, has 6 different settings including full swing.



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

Control up to 110°

The louver can be adjusted by manual.



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

Easy and Simple Control

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



Up / Down Swing

Jet Cool

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

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

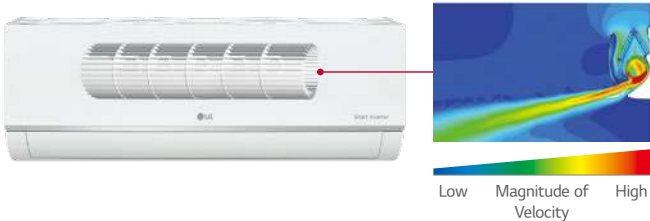
One Click “Jet Mode”

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



More Powerful Performance

By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of airflow is increased to 13.0 CMM.



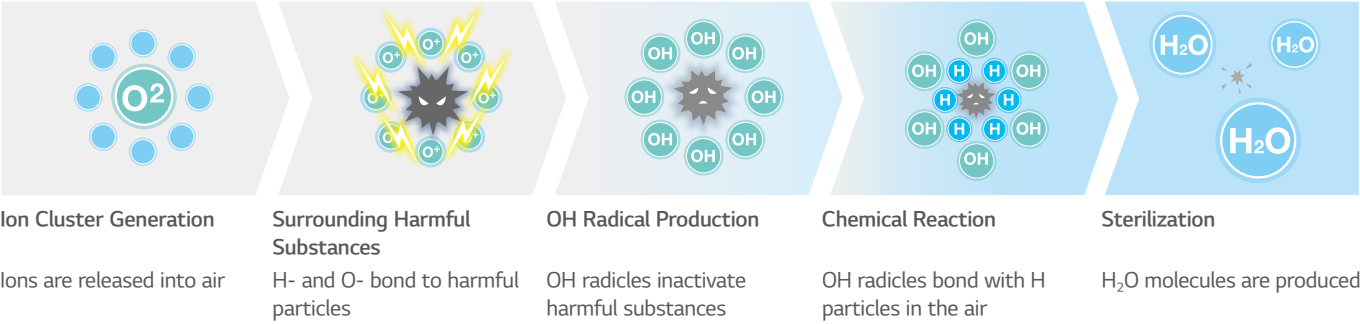
Ionizer PLUS

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

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

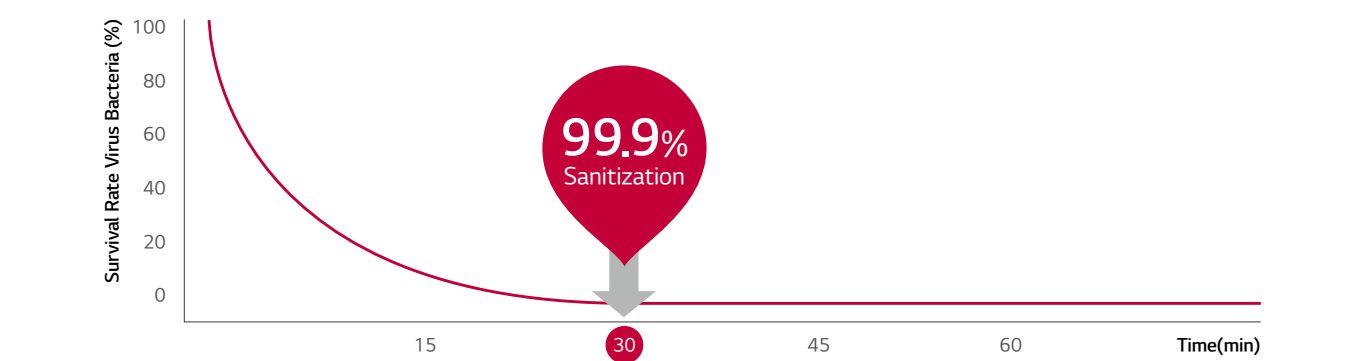
Sterilization and Deodorization (Utilizes Over 3 Million Ions)

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



Sterilization Performance Evaluations

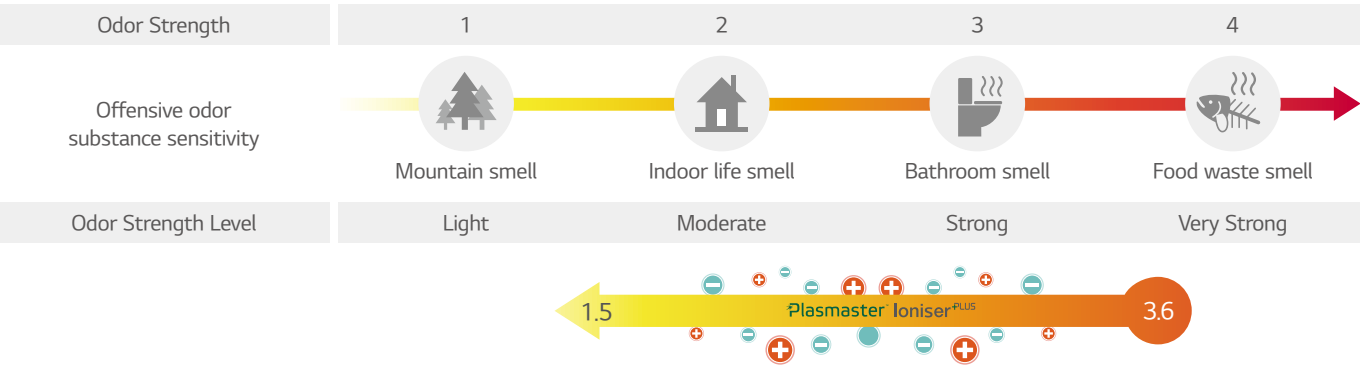
Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



※ Test Conditions : Space : 52m³ Chamber / Temperature & Humidity : Normal / Bacteria : Staphylococcus Aureus

2.1 odor strength decrease in 60 minutes

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



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

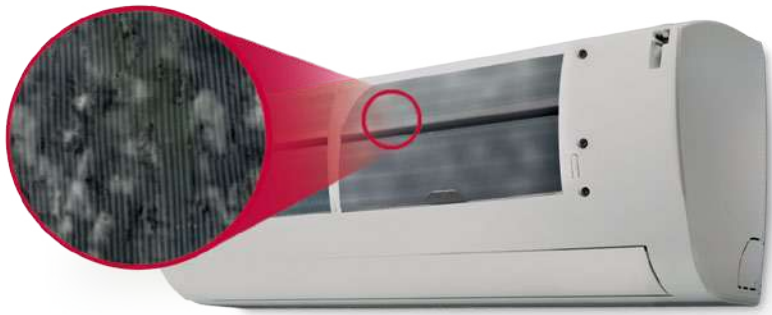
WALL MOUNTED

Auto Cleaning

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

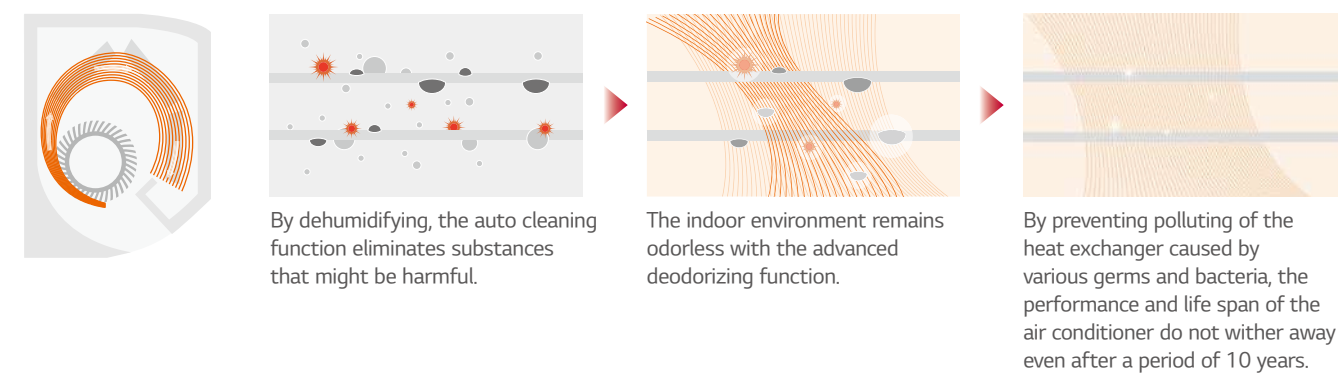
Pain Point

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



Cleans Filter with Regular Airflow

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



Removes Harmful Particles

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



Bacteria Prevention



Odor Elimination

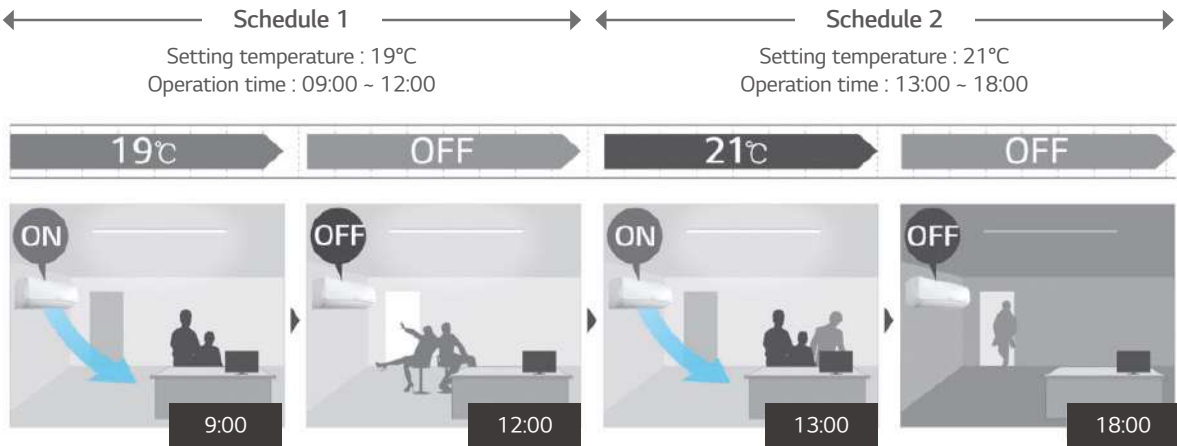


Mold Elimination

Scheduled Operation

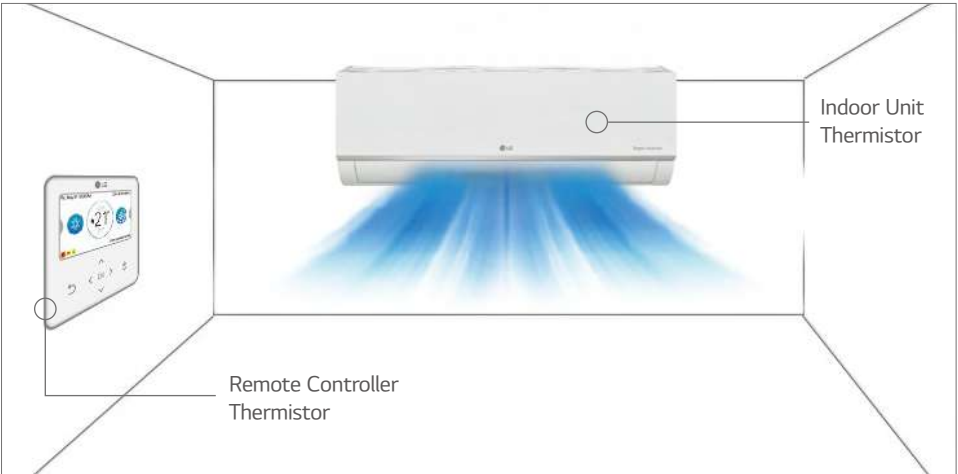
You can set the daily temperature, fan speed, the operation mode and automatic On / Off time for two weeks. It will keep running on that time until cancelled by the user or after setting period.

※ 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.



Standard Operation
+
In Case of Group Control

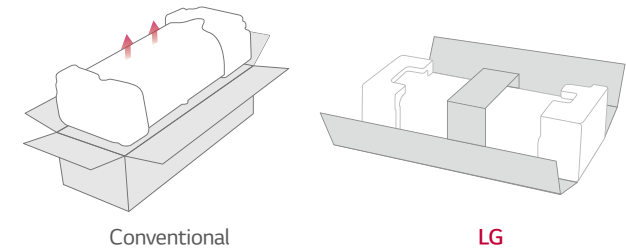
WALL MOUNTED

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.

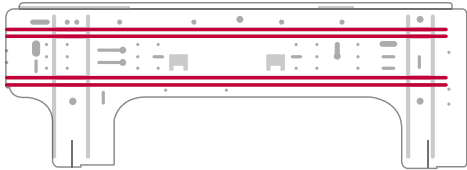
※ Specifications may vary for each model.

One Simple Packing Box



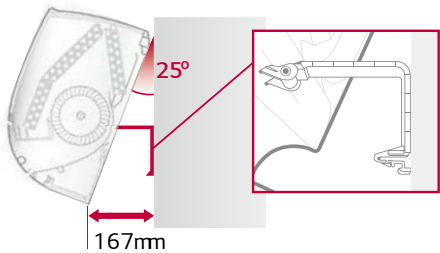
Installation Plate Improvement

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



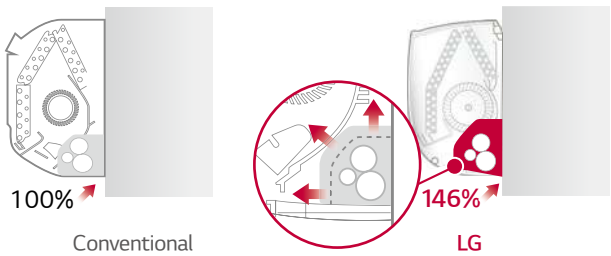
Installation Support Clip

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



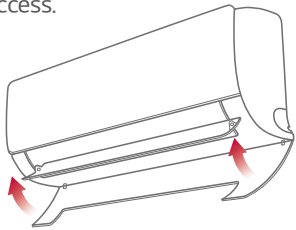
Wider Tubing Space

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



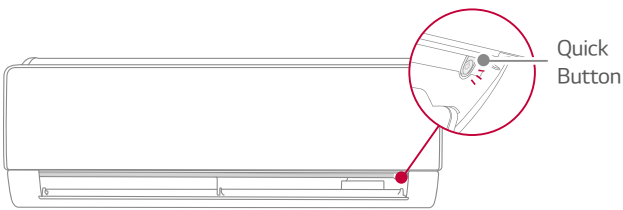
Detachable Bottom Cover

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



Quick button for running test

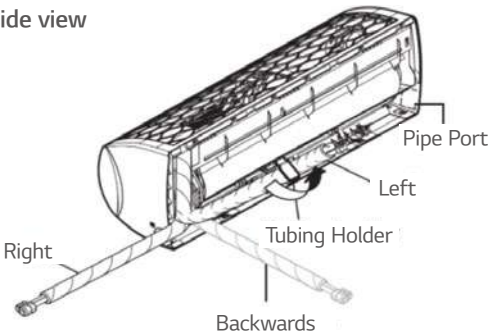
The test button is conveniently located and easy to find.



3 Way Flexible Installation

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

Back side view



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.

ThinQ

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

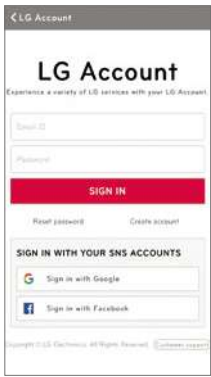
Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Easy Registration and Log-in

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



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



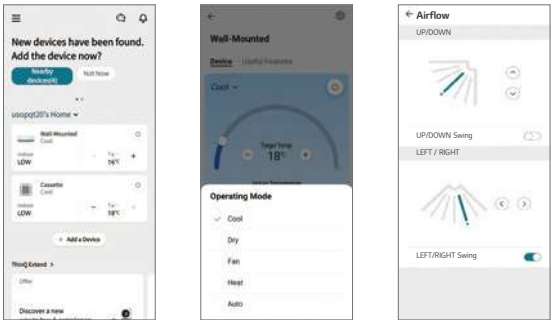
Wi-Fi Connectivity

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



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

Simple operation for various functions

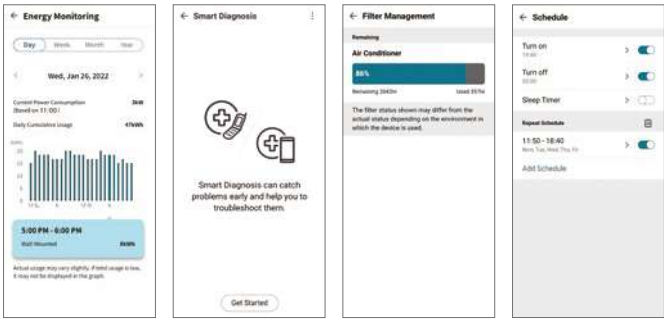


On / Off, Current Temp.

Mode, Set Temp.

Vane Control

Straight forward Management



Energy Monitoring

Smart Diagnosis

Filter Management

Reservation

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

STANDARD

ARNU05GSJN4 / ARNU07GSJN4 / ARNU09GSJN4 / ARNU12GSJN4 / ARNU15GSJN4



Model		Unit	ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
		Btu/h	5,500	7,500	9,600	12,300	15,400
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
		Btu/h	6,100	8,500	10,900	13,600	17,100
Power Input (H / M / L)		W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Dimensions (W x H x D)	Body	mm	818 × 316 × 189	818 × 316 × 189	818 × 316 × 189	818 × 316 × 189	818 × 316 × 189
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output	W x No.	30 × 1	30 × 1	30 × 1	30 × 1	30 × 1
	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Drive		Direct	Direct	Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (ID)	mm (inch)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	8.4 (18.5)	8.4 (18.5)	8.4 (18.5)	8.4 (18.5)	8.4 (18.5)
	Shipping	kg (lbs)	11.3 (24.9)	11.3 (24.9)	11.3 (24.9)	11.3 (24.9)	11.3 (24.9)
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	46 / 45 / 42	48 / 46 / 42	51 / 48 / 45	55 / 52 / 45
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

Chassis	ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4
Drain Pump			-		
Cassette Cover			-		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			PRGK024AO		
Multi-tenant Power Module			PINPMB001		
Robot Cleaner			-		
Pre Filter (Washable)			○		
Ion Generator			○		
CO ₂ Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with Additional Accessory)			PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)			○		
Wi-Fi			○		

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

STANDARD

ARNU18GSKN4 / ARNU24GSKN4



Model		Unit	ARNU18GSKN4	ARNU24GSKN4
Cooling Capacity		kW	5.6	7.1
		Btu/h	19,100	24,200
Heating Capacity		kW	6.3	7.5
		Btu/h	21,500	25,600
Power Input (H / M / L)		W	32 / 26 / 16	39 / 26 / 16
Dimensions (W x H x D)	Body	mm	975 x 354 x 209	975 x 354 x 209
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
	Drive		Direct	Direct
	Motor Type		BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	12.2 (26.9)	12.2 (26.9)
	Shipping	kg (lbs)	16.0 (35.3)	16.0 (35.3)
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	59 / 56 / 52	63 / 56 / 52
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

Chassis	ARNU18GSKN4	ARNU24GSKN4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024AO
Multi-tenant Power Module		PINPMB001
Robot Cleaner		-
Pre Filter (Washable)		○
Ion Generator		○
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)
External Input (1 point)		○
Wi-Fi		○

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

STANDARD

ARNU30GSVA4 / ARNU36GSVA4



Model		Unit	ARNU30GSVA4	ARNU36GSVA4
Cooling Capacity		kW	8.8	10.4
		Btu/h	30,000	35,500
Heating Capacity		kW	9.4	10.8
		Btu/h	32,000	37,000
Power Input (H / M / L)		W	54 / 43 / 31	85 / 51 / 36
Dimensions (W x H x D)	Body	mm	1,190 × 346 × 265	1,190 × 346 × 265
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W x No.	113 × 1	113 × 1
	Air Flow Rate (H / M / L)	m³/min	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Drive		Direct	Direct
	Motor Type		BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	16.6 (35.6)	16.6 (35.6)
	Shipping	kg (lbs)	-	-
Sound Pressure Levels (H / M / L)		dB(A)	49 / 44 / 42	52 / 47 / 43
Sound Power Levels (H / M / L)		dB(A)	60 / 60 / 56	63 / 60 / 58
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

Chassis	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	-	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200 ¹⁾	

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

STANDARD

GRNU07GSJN4 / GRNU09GSJN4 / GRNU12GSJN4 / GRNU15GSJN4



Model		Unit	GRNU07GSJN4	GRNU09GSJN4	GRNU12GSJN4	GRNU15GSJN4
Cooling Capacity		kW	2.2	2.8	3.6	4.5
		Btu/h	7,500	9,600	12,300	15,400
Heating Capacity		kW	2.5	3.2	4	5
		Btu/h	8,500	10,900	13,600	17,100
Power Input (H / M / L)		W	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Dimensions (W x H x D)	Body	mm	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192	837 x 308 x 192
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output	W x No.	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Drive		Direct	Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas Side	mm (inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Drain Pipe (ID)	mm (inch)	16 (5/8)	16 (5/8)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	8.7 (19.2)	8.7 (19.2)	8.7 (19.2)	8.7 (19.2)
	Shipping	kg (lbs)	10.3 (22.7)	10.3 (22.7)	10.3 (22.7)	10.3 (22.7)
Sound Pressure Levels (H / M / L)		dB(A)	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	46 / 45 / 42	48 / 46 / 42	51 / 48 / 45	55 / 52 / 45
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

Accessories

Chassis	GRNU07GSJN4	GRNU09GSJN4	GRNU12GSJN4	GRNU15GSJN4
Drain Pump	-			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVS0			
EEV Kit	PRGK024A0			
Multi-tenant Power Module	PINPMB001			
Robot Cleaner	-			
Pre Filter (Washable)	○			
Ion Generator	○			
CO ₂ Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	○			

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

STANDARD

GRNU18GSKN4 / GRNU24GSKN4



Model		Unit	GRNU18GSKN4	GRNU24GSKN4
Cooling Capacity		kW	5.6	7.1
		Btu/h	19,100	24,200
Heating Capacity		kW	6.3	7.5
		Btu/h	21,500	25,600
Power Input (H / M / L)		W	32 / 26 / 16	39 / 26 / 16
Dimensions (W x H x D)	Body	mm	998 x 345 x 212	998 x 345 x 212
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L)	m³/min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
	Drive		Direct	Direct
	Motor Type		BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas Side	mm (inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
	Drain Pipe (ID)	mm (inch)	16 (5/8)	16 (5/8)
Weight	Body	kg (lbs)	12.7 (28.0)	12.7 (28.0)
	Shipping	kg (lbs)	14.7 (32.4)	14.7 (32.4)
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	59 / 56 / 52	63 / 56 / 52
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0 ~ 1.5 × 2C	1.0 ~ 1.5 × 2C

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

NOTE :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

Chassis	GRNU18GSKN4	GRNU24GSKN4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVSO	
EEV Kit	PRGK024A0	
Multi-tenant Power Module	PINPMB001	
Robot Cleaner	-	
Pre Filter (Washable)	○	
Ion Generator	○	
CO ₂ Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	○	

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

ARTCOOL GALLERY

ARNU07GSF14 / ARNU09GSF14 / ARNU12GSF14



Model		Unit	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Cooling Capacity		kW	2.2	2.8	3.6
		Btu/h	7,500	9,600	12,300
Heating Capacity		kW	2.5	3.2	4.0
		Btu/h	8,500	10,900	13,600
Power Input (H / M / L)		W	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12
Dimensions (W x H x D)	Body	mm	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output	W x No.	30	30	30
	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
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (ID)	mm (inch)	12.2 (15/32)	12.2 (15/32)	12.2 (15/32)
Net Weight		kg (lbs)	15.4 (34.0)	15.4 (34.0)	15.4 (34.0)
Sound Pressure Levels (H / M / L)		dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 48 / 42
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C

NOTE :

1. Performance tested under EN14511

2. Capacities are based on the following conditions

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

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

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

Accessories

Chassis	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVSO		
EEV Kit	PRGK024A0		
Multi-tenant Power Module	PINPMB001		
Robot Cleaner	-		
Pre Filter (Washable)	○		
Ion Generator	-		
CO ₂ Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with Additional Accessory)	PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMD200 ¹⁾		

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

1) External installation only

FLOOR STANDING

ARNU07GCEA4 / ARNU09GCEA4 / ARNU12GCEA4



※ A : Floor Standing with case

Model		Unit	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4
Cooling Capacity		kW	2.2	2.8	3.6
		Btu/h	7,500	9,600	12,300
Heating Capacity		kW	2.5	3.2	4.0
		Btu/h	8,500	10,900	13,600
Power Input (H / M / L)		W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24
Dimensions	Body	mm	1,067 x 635 x 203	1,067 x 635 x 203	1,067 x 635 x 203
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output	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)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe(Internal Dia.)	mm (inch)	12 (15/32)	12 (15/32)	12 (15/32)
Net Weight			27 (59.5)	27 (59.5)	27 (59.5)
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C

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

Accessories

Chassis	ARNU07GCEA4	ARNU09GCEA4	ARNU12GCEA4
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		-	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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

ARNU15GCEA4 / ARNU18GCFA4 / ARNU24GCFA4



※ A : Floor Standing with case

Model		Unit	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Cooling Capacity		kW	4.5	5.6	7.1
		Btu/h	15,400	19,100	24,200
Heating Capacity		kW	5.0	6.3	8.0
		Btu/h	17,100	21,500	27,300
Power Input (H / M / L)		W	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Dimensions	Body	mm	1,067 x 635 x 203	1,345 x 635 x 203	1,345 x 635 x 203
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output	W x No.	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m³/min	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	12 (15/32)	12 (15/32)	12 (15/32)
Net Weight			27 (59.5)	34 (75.0)	34 (75.0)
Sound Pressure Levels (H / M / L)		dB(A)	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 51	57 / 54 / 50	61 / 57 / 54
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0~1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU15GCEA4	ARNU18GCFA4	ARNU24GCFA4
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		-	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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

FLOOR STANDING

ARNU07GCEU4 / ARNU09GCEU4 / ARNU12GCEU4



※ U : Floor Standing without case

Model		Unit	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4
Cooling Capacity		kW	2.2	2.8	3.6
		Btu/h	7,500	9,600	12,300
Heating Capacity		kW	2.5	3.2	4.0
		Btu/h	8,500	10,900	13,600
Power Input (H / M / L)		W	24 / 17 / 14	30 / 24 / 17	36 / 30 / 24
Dimensions	Body	mm	978 x 639 x 190	978 x 639 x 190	978 x 639 x 190
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output	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)	m³/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe(Internal Dia.)	mm (inch)	12 (15/32)	12 (15/32)	12 (15/32)
Net Weight			21 (46.3)	21 (46.3)	21 (46.3)
Sound Pressure Levels (H / M / L)		dB(A)	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33
Sound Power Levels (H / M / L)		dB(A)	52 / 47 / 43	54 / 51 / 47	54 / 51 / 50
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C

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

Accessories

Chassis	ARNU07GCEU4	ARNU09GCEU4	ARNU12GCEU4
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		-	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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

ARNU15GCEU4 / ARNU18GCFU4 / ARNU24GCFU4



※ U : Floor Standing without case

Model		Unit	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Cooling Capacity		kW	4.5	5.6	7.1
		Btu/h	15,400	19,100	24,200
Heating Capacity		kW	5.0	6.3	8.0
		Btu/h	17,100	21,500	27,300
Power Input (H / M / L)		W	44 / 35 / 28	54 / 41 / 29	84 / 54 / 41
Dimensions	Body	mm	978 x 639 x 190	1,256 x 639 x 190	1,256 x 639 x 190
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output	W x No.	19 x 1, 5 x 1	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m³/min	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Drive		Direct	Direct	Direct
	Motor Type		BLDC	BLDC	BLDC
Pre-Filter			Resin Net (washable)	Resin Net (washable)	Resin Net (washable)
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52 (3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	12 (15/32)	12 (15/32)	12 (15/32)
Net Weight			21 (46.3)	25 (55.1)	25 (55.1)
Sound Pressure Levels (H / M / L)		dB(A)	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	55 / 54 / 51	59 / 57 / 53	63 / 59 / 57
Power Supply		Ø, V, Hz	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60	1, 220 ~ 230 ~ 240, 50/60
Transmission Cable		mm²	1.0~1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

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

Accessories

Chassis	ARNU15GCEU4	ARNU18GCFU4	ARNU24GCFU4
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Multi-tenant Power Module		PINPMB001	
Robot Cleaner		-	
Pre Filter (Washable)		○	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		PWLRVN000	
Zone Controller		-	
Dry Contact (with Additional Accessory)		PDRYCB000 (1 point contact), PDRYCB320, PDRYCB400 (2 points input), PDRYCB500 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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

COMPATIBILITY

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

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

FEATURE FUNCTIONS

Wired Remote Controller					Centralized Controller				
Premium (PREMTA000 PREMTA000A PREMTA000B)	Standard III (PREMTB101) (PREMTBB11)	Standard II (PREMTBB01) (PREMTB001)	Simple						
			Simple for Hotel (PQRCHCA0Q/QW)	Simple (PQRCVCL0Q/QW)	AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart 5 (PACS5A000)	ACP 5 (PACP5A000)	AC Manager 5 (PACM5A000)
○	○	○	-	-	-	○	○	○	○
-	-	-	-	-	-	○	○	○	○
○	○	-	-	-	-	○	○	○	○
○	○	-	-	-	-	○	○	○	○
○	○	○	-	-	-	-	○	○	○
○	○	○	-	-	-	-	-	-	-
○	○	○	-	-	-	-	-	-	-
○	○	○	-	-	-	-	-	-	-
○	○	○	-	-	-	-	○	○	○
○	○	○	-	-	-	-	-	-	-
○ (4 step)	○ (4 step)	○ (3 step)	○ (3 step)	○ (3 step)	-	-	-	-	-
○	○	○	○	○	-	-	-	-	-
○	○	○	-	-	-	-	-	-	-
○	○	○	-	-	○	○	○	○	○
○	○	○	-	-	-	-	-	-	-
○	○	-	-	-	-	-	○	○	○
○	○	-	-	-	-	-	○	○	○
○	○	-	-	-	-	-	○	○	○
○	○	-	-	-	-	-	○	○	○
○	○	-	-	-	-	-	○	○	○

※ ○ : Applied, - : Not applied

COMPATIBILITY

Controller / Product		Premium	Standard III		Standard II		Simple		Simple for Hotel		Wireless	Dry Contact			
															
Product		PREMTA000 PREMTA000A PREMTA000B	PREMTB11	PREMTB101	PREMTB801	PREMTB001	PQRCVCLQ	PQRCVCQW	PQRCHCAQ	PQRCHCAQW	PWLSSB21H(H/P) PWLSSB21C(C/O)	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB320	For Modbus PDRYCB500
Ceiling Concealed Duct	Mid Statics 	○	○	○	○	○	○	○	○	○	△	○	○	○	○
	High Statics 	○	○	○	○	○	○	○	○	○	△	○	○	○	○
	Low Statics 	○	○	○	○	○	○	○	○	○	△	○	○	○	○
Fresh Air Intake Unit 		○	○	○	○	○	○	○	○	○	△	○	○	○	○
Ceiling Mounted Cassette	Round Cassette 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Smart Dual Vane Cassette 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	4-Way Cassette (570 X 570) 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	2-Way / 1-Way Cassette 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Wall Mounted Cassette	Standard 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Artcool Gallery 	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Ceiling Suspended 		○	○	○	○	○	○	○	○	○	○	○	○	○	○
Ceiling & Floor Convertible 		○	○	○	○	○	○	○	○	○	○	○	○	○	○
Floor Standing 		○	○	○	○	○	○	○	○	○	○	○	○	○	○
Energy Recovery Ventilator	ERV Without DX Coil 	○	○	○	○	○	-	-	-	-	-	○	-	-	○
	ERV With DX Coil 	○	○	○	○	○	-	-	-	-	-	○	-	-	○
AHU Communication Kit 		○	○	○	○	○	-	-	-	-	△	-	-	-	-

※ ○ : Compatible, △ : Wired Remote Controller / IR Receiver Required, - : Not Compatible
For more detailed information, refer to the Product Data Book for each product.

FEATURE FUNCTIONS

Controller Name		Wired Remote Controller					Wireless Remote Controller	Wi-Fi Controller
		Premium	Standard III	Standard II	Simple	Simple (Hotel)		
Model Name								
		PREMTA000 PREMTA000A PREMTA000B	PREMTB101 PREMTBB11	PREMTB001 PREMTBB01	PQRCVCLQ PQRCVCLOQW	PQRCHCAQ PQRCHCAQW	PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMDD200
Basic	On / Off	○	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○	○
	Mode Change	○	○	○	○	-	○	○
	Auto Swing	○	○	○	○	○	○	
	Vane Control (Louver Angle)	○	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	-	-
	Electric Failure Compensation	○	○	○	○	○	-	○
	Indoor Temperature Display	○	○	○	○	○	○	
Advanced	ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
	Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep / On / Off	Weekly
	Additional Mode Setting ¹⁾	○	○	○	-	-	-	-
	Time Display	○	○	○	-	-	○	-
	Humid. Display	○	○	-	-	-	-	-
	Advanced Lock (mode, set point, set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
	Filter Sign	○	○	○	-	-	-	-
	Energy Management ²⁾	○	○	○	-	-	-	-
	Dual Set Point	○	○	-	-	-	-	-
ETC	Human Detection	-	○	-	-	-	-	-
	Temp, Humidity Compensation	○	○	-	-	-	-	-
	Wifi AP mode setting	○	○	○	○	○	○	-
	Operation Status LED	○	○	○	○	○	-	-
	Wireless Remote Controller Receiver	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-	-
	Display	5 inch Color	4.3 inch Color	4.3 inch Mono	2.6 inch Mono	2.6 inch Mono	2 inch Mono	-
Size (W x H x D, mm)		137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26	48 x 68 x 14
Black Light Control for Screen Saver		○	○	-	-	-	-	-

※ ○: Applied, - : Not Applied
1) It might not be indicated or operated at the partial product
2) Centralized control (PACEZA000 / PACS5A000 / PACPSA000 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
3) For ceiling type duct
Note : 1. Indoor unit should have functions requested by the controller
2. If you need more detail, please refer to the manual of product. (<http://partner.lge.com>: Home> Doc.Library> Manual)

LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White)  PREMTB101	 PQRCVCL0QW	PWLSSB21H (H/P) PWLSSB21C (C/O)	AC Ez  PQCSZ250S0 (Indoor Unit ~32)	ACP 5  PACP5A000 (Indoor Unit ~256) BACnet IP/Modbus TCP Gateway	ACP LonWorks  PLNWKB000 (Indoor Unit ~64)
		Wi-Fi Controller			
Standard III (Black)  PREMTBB11	 PQRCVCL0Q	LG Wi-Fi Modem  For Indoor Unit PWFMD200	AC Ez Touch  PACEZA000 (Indoor Unit ~64)	AC Manager 5  PACM5A000 (Indoor Unit ~8,192)	Modbus RTU Gateway  PMBUSB00A
Standard II (White)  PREMTB001	 PQRCHCA0QW (Simple for Hotel)		AC Smart 5  PACSSA000 (Indoor Unit ~128) BACnet IP/Modbus TCP Gateway	PI-485  For Indoor Unit (ERV) PHNFP14A0	
Standard II (Black)  PREMTBB01	 PQRCHCA0Q (Simple for Hotel)				
Premium					
 PREMTA000 PREMTA000A PREMTA000B					

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

CENTRALIZED CONTROL	INTEGRATION DEVICE			
Facility Integrator	Indoor Units		Outdoor Units	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator)  Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	 Simple Dry Contact PDRYCB000	Group Control Wire  PZCWRCG3	IO Module (Input / Output Module)  For MULTI V 5 Plus PVDSMN000	Communication Kit  Return / Room Air control PAHCMR000
ACS IO Module (Input / Output Module)  PEXPMB000	 Dry contact for Thermostat (For using universal input) PDRYCB320	Remote Temperature Sensor  PQRSTA0	Variable Water Flow Control kit  For MULTI V WATER IV PWFCN000	 Discharge / Supply Air control PAHCMS000
Chiller Option Kit  PCHLLN000	 2 Points Dry Contact (For Setback) PDRYCB400	Zone Controller  4 Zones by thermostat ABZCA	Low Ambient Kit  For MULTI V IV, 5 Plus PRVC2	Controller Module  Main Module PAHCMM000
ACU IO Module  UIO PEXPMB300	 For Modbus PDRYCB500		Cool / Heat Selector  PRDSBM	 Communication Module PAHCMC000
 UO PEXPMB200			Water Communication Module  PAHCMW000	Control kit  PAHCNM000 (Max. 3 Outdoor Units)
 UI PEXPMB100				EEV Kit  PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW)
				 PRLK396A0 (~ 112 kW)
				 PRLK594A0 (~ 168 kW)

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