



LG HVAC SOLUTION
MULTI V™

For Middle East



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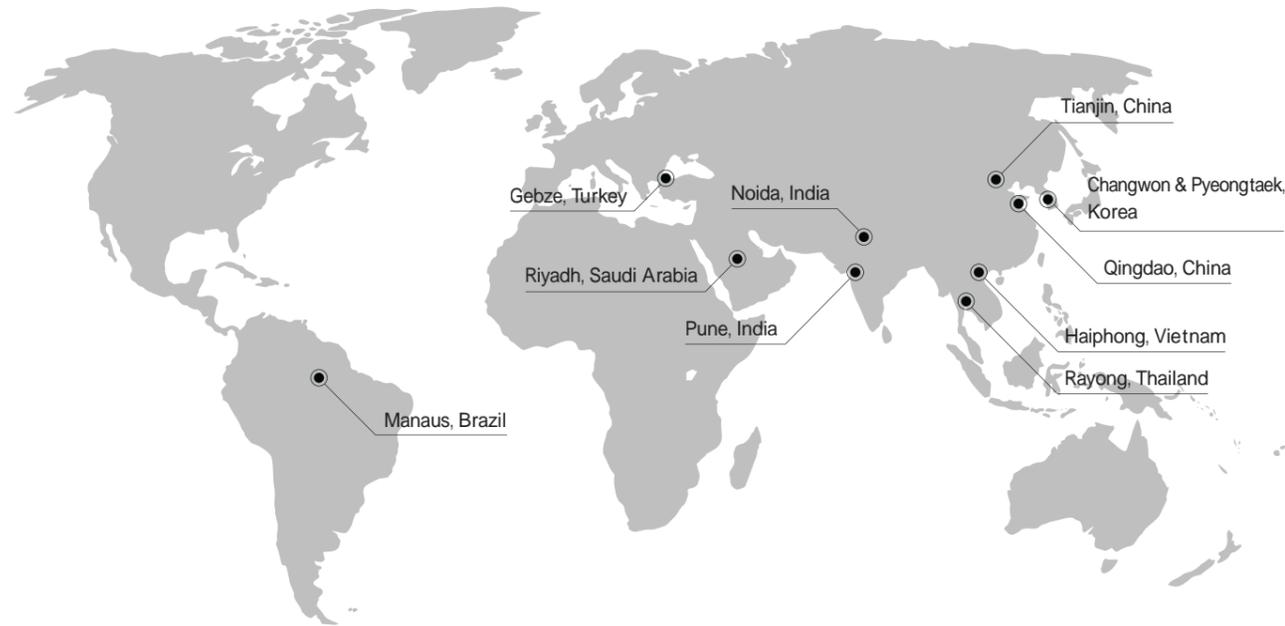
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LG Air Solution Production Sites



The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls.

As a true total HVAC and energy solution provider, LG also supplies even the largest buildings and industrial facilities with central air conditioning systems such as chillers and efficient control solutions.

The history of the business unit goes back to 1968, when LG (then called GoldStar) rolled out Korea's first residential air conditioner.

As the company first began making chillers for large commercial buildings in 1970, the commercial air conditioning business has grown exponentially, especially within the last 20 years.

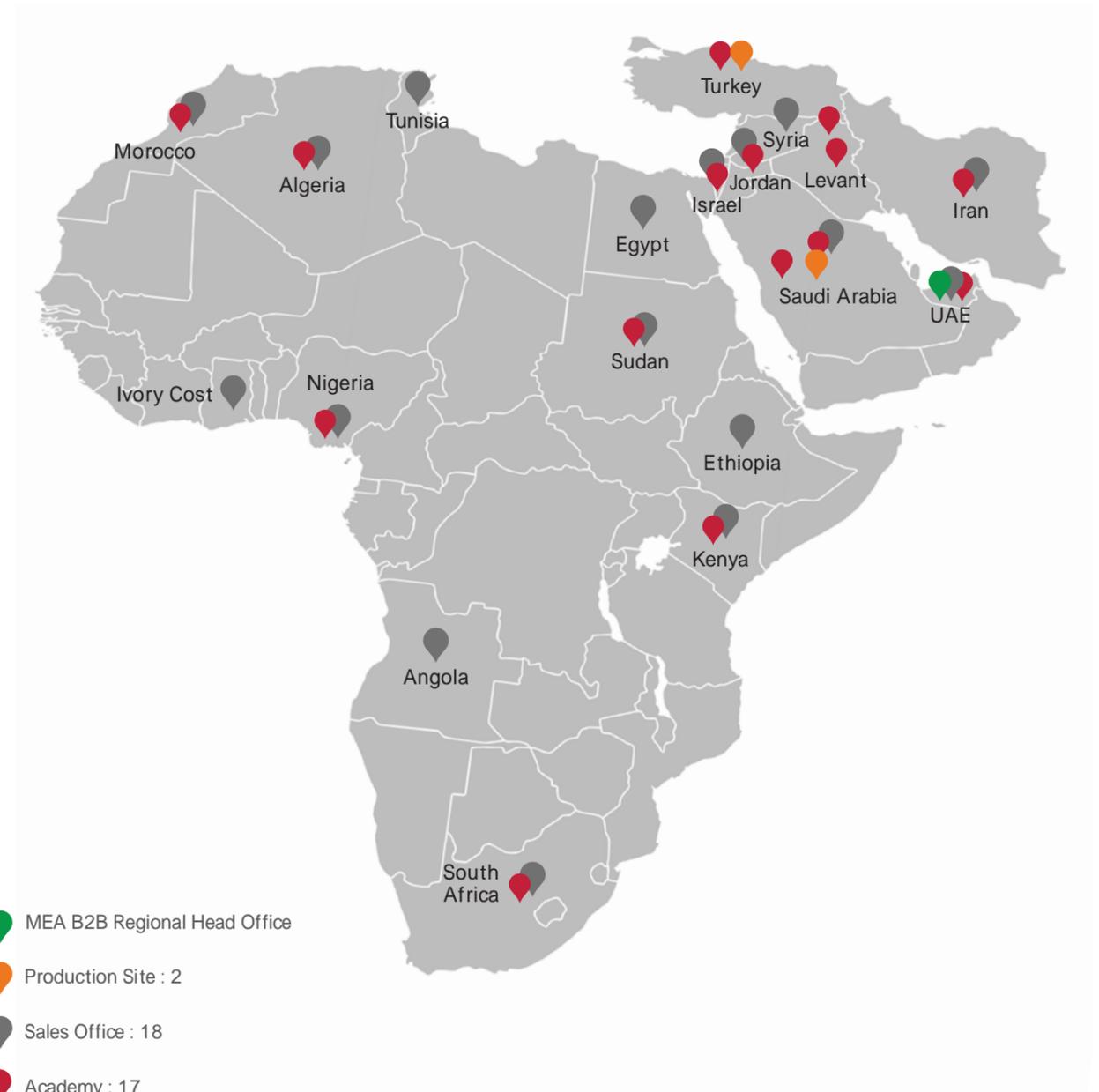
In 2008, LG sold its 100 millionth air conditioning unit, becoming the first company in the industry to reach that significant milestone.

The success of LG air conditioners has allowed the company to become one of the major players in the highly competitive HVAC industry.

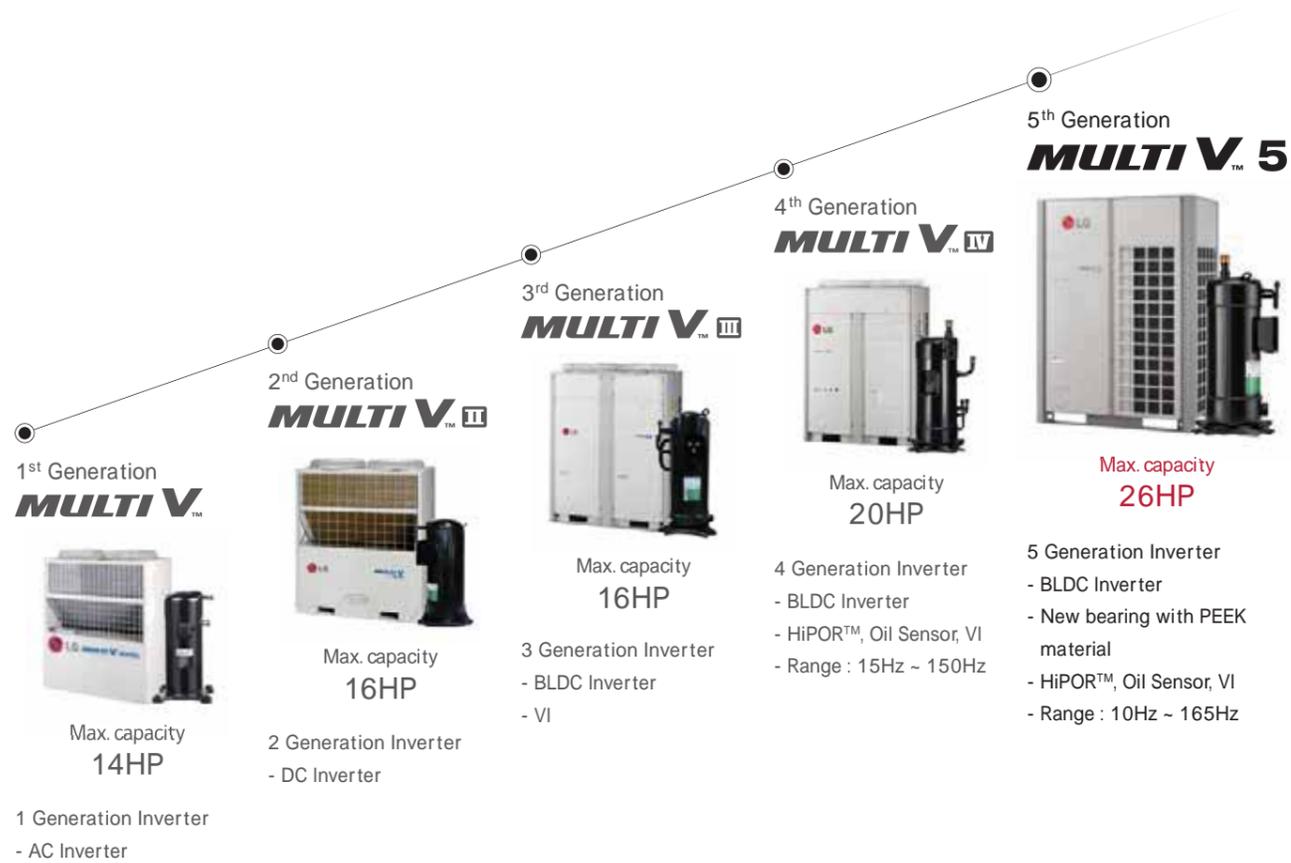
By enhancing the industry's B2B infrastructure and finding further solutions for the HVAC sector, LG has risen to become a total HVAC solutions specialist.

The company has steadily increased its sales and market share by introducing energy efficient and reliable HVAC solutions and actively pursuing new opportunities wherever they arise.

This sustained, excellent performance is built on a solid foundation of global R&D and advanced manufacturing capabilities.



MULTI V BRAND HISTORY



From the moment when LG introduced Korea's first residential air conditioner in 1968, the company has continuously enhanced its technological innovation and credibility. As a result of sustained improvement, LG VRF launched the first generation of MULTI V in 2006 and achieved significant development. With world's top class compressor and innovative technology competency applied on every part, cycle and controlling solutions, it has evolved to be one of the world's most efficient and reliable VRF solutions.

Following the first and second generations with Inverter technology and non-ozone depleting refrigerant, MULTI V III has advanced its efficiency with diverse cutting-edge technologies such as HiPOR™ that directly returns oil to compressor and Vapor Injection that allows double compression by adding mid-pressure refrigerant. The innovative technologies of 4th generation MULTI V secured MULTI V brand with product leadership based on efficient system. For example, Smart Load Control that controls operational load according to external temperature. The other technology is optimized to manage refrigerant and heat exchange for cooling or heating.

Moreover, MULTI V's wide range of VRF line-up satisfies various types and sizes of buildings; MULTI V S is the VRF with side discharge, designed for small to mid-sized building and MULTI V WATER is the water-cooled VRF solution with variable water flow controlling technology.

In 2017, the time has arrived for the ultimate VRF system, MULTI V 5. This generation has fully improved its technological potential with ever powerful and reliable yet economical LG's Ultimate Inverter Compressor, Ocean Black Fin with the most effective corrosion resistance performance and biomimetics technology-applied, enlarged fans. At the same time, the Dual Sensing Control offers users the most pleasant environment while minimizing the unnecessary energy loss with system that senses both the temperature and humidity to efficiently manage cooling, heating and part load operations.

With MULTI V 5 that has been solely designed for the ultimate efficiency, performance, flexibility, comfort and control, we are highly confident to bring the ultimate pleasant air experience.

LOCATION & ADDRESS

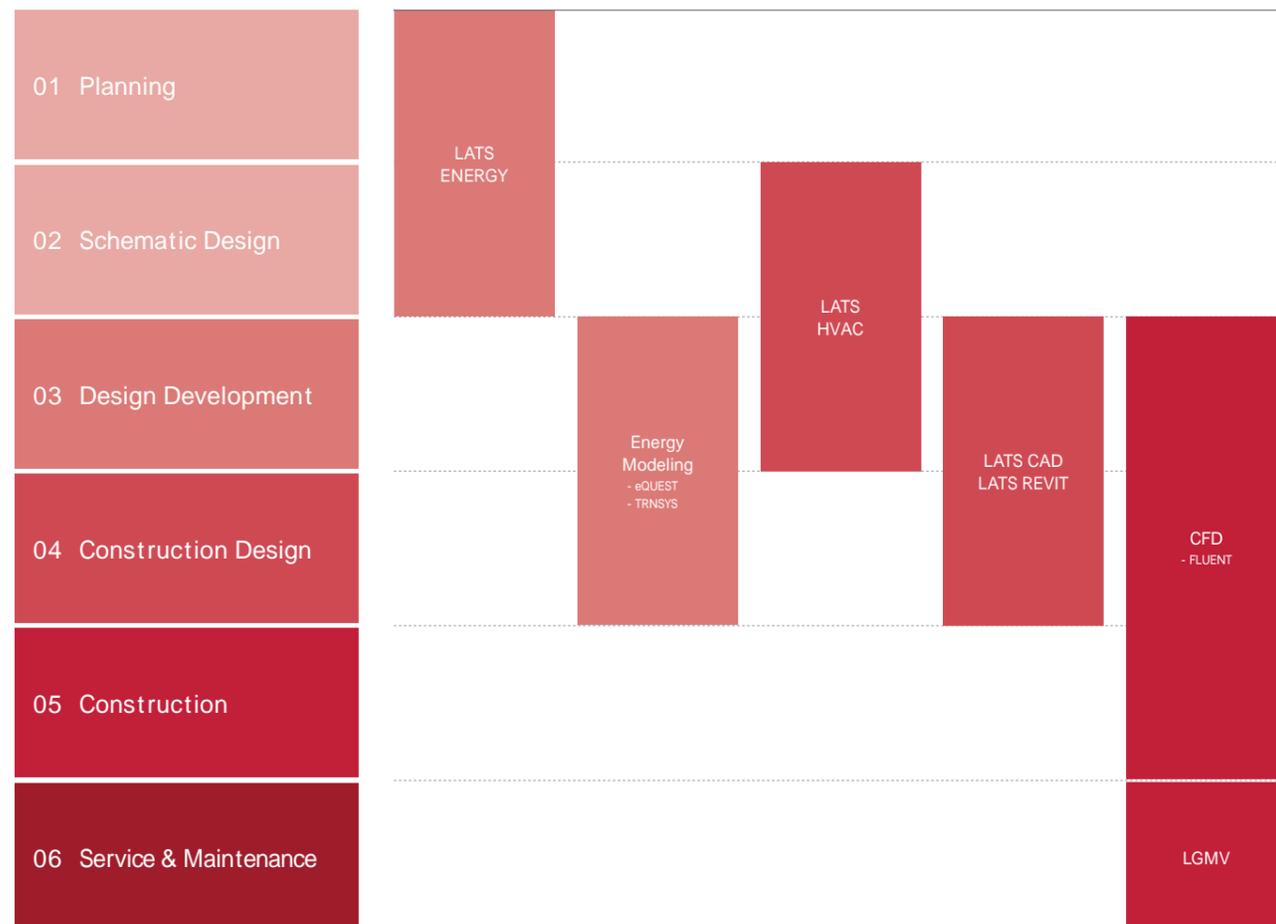
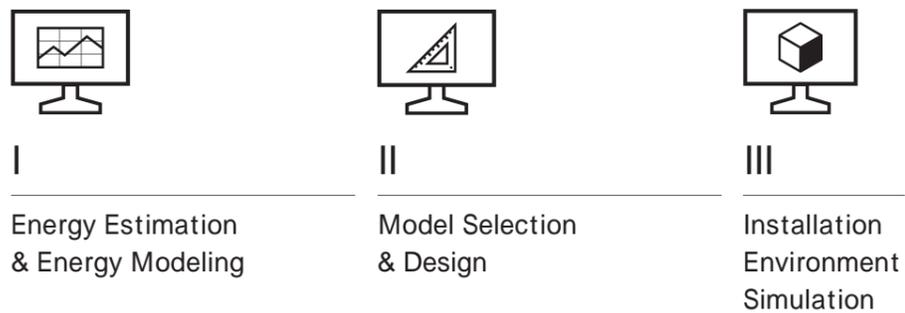
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ENGINEERING TOOLS & SUPPORT

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



01 Draft Energy Estimation

LATS Energy

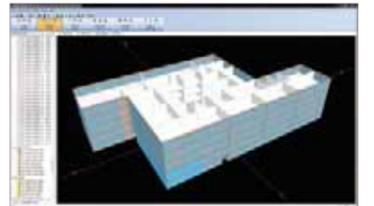
LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project.



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.

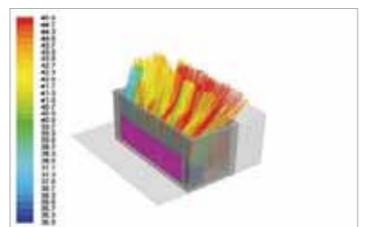
* AutoCAD Revit program is required.



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 Ocean Black Fin for harsh condition operations
 - Smart Oil management (Auto Oil Balancing and Active Oil return) decreases compressor damage



- Customized Comfort and Solution**
- Compatible option between Heat pump and Heat recovery system is possible



Benefits for Developers / Construction companies



- Green Solutions**
- Helps scoring LEED/BREAEM points
 - Renewable energy solution provided through geothermal application



- Maximizing Space Utilization**
- Large Capacity in compact size enhances space utilization



- Smart Building Solutions**
- Easy interlock with Building Management System
 - Wi-Fi control available for anytime anywhere (via mobile app)
 - Energy management and control according to usage and planning is possible with LG's centralized control solution



Benefits for Consultants



- Versatile Solutions**
- Air-cooled, Water-cooled, Heating, and Air 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 End-users



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

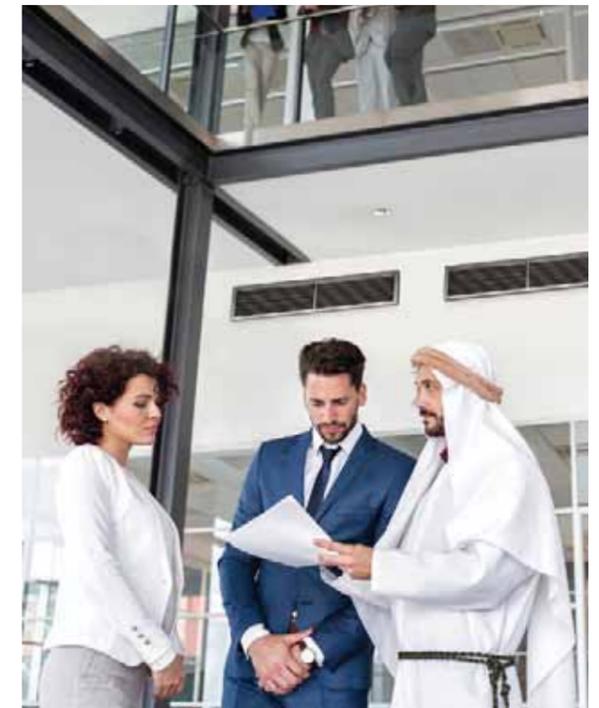


- Comfortable Cooling & Heating**
- Smart Load Control maximizes indoor comfort level
 - Dual sensing offers pleasant and comfortable cooling and heating environment
 - Duration time of Continuous Heating is 11% longer than previous model**



- Convenient Functions**
- Low-noise operation provides a restful environment

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



APPLICATION SOLUTIONS

Office Supporting efficiency with flexibility

High Rise Office Building



- MULTI V WATER IV
- High Static Duct
- Variable Water Flow Control Kit
- DX AHU
- PDI

Small to Medium sized Office Building



- MULTI V 5 / S
- 4 Way CST
- PDI

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

Residential Home is where your comfort is

Condominium & Apartments



- MULTI V S HR
- 1/2 Way CST
- Hydro Kit
- 3rd Party Controller RTU Gateway

Single Family House & Villa



- MULTI V S
- Therma V
- ESS & PV Solar

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

Commercial Maximize business, minimize costs

Shopping Mall



- MULTI V 5
- DX AHU

Retail



- MULTI V M
- ERV
- Convertible

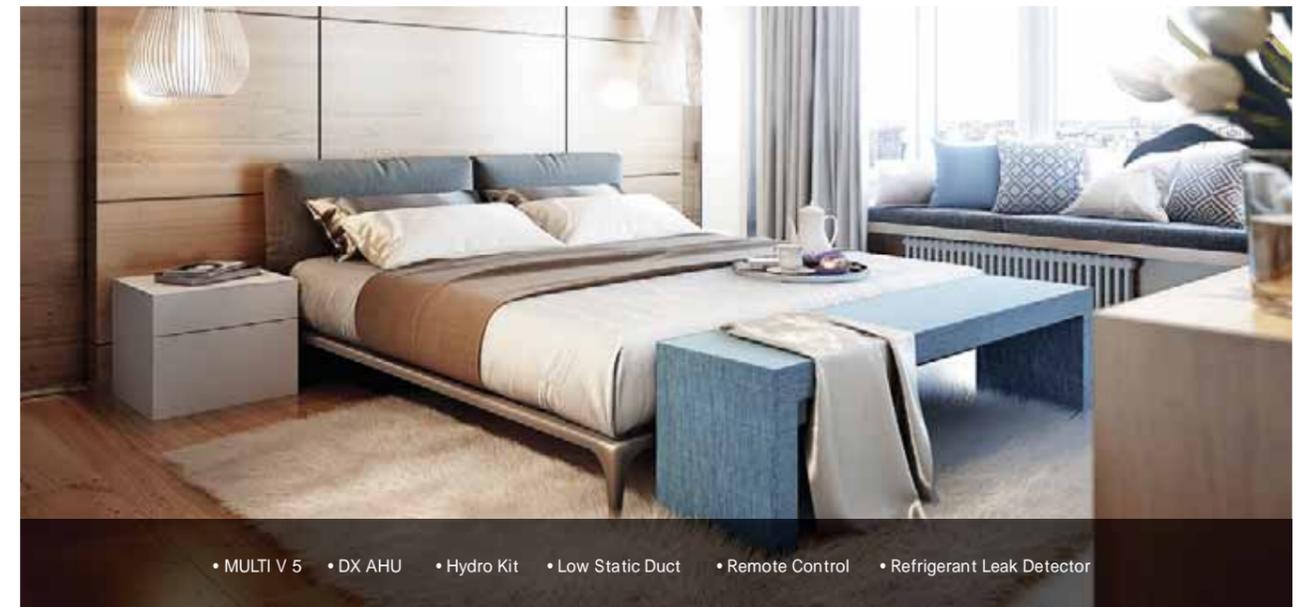
QSR



- MULTI V M
- ERV
- Hydro Kit
- 4 Way CST

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

Hospitality Meeting diverse needs in every aspect



- MULTI V 5
- DX AHU
- Hydro Kit
- Low Static Duct
- Remote Control
- Refrigerant Leak Detector

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

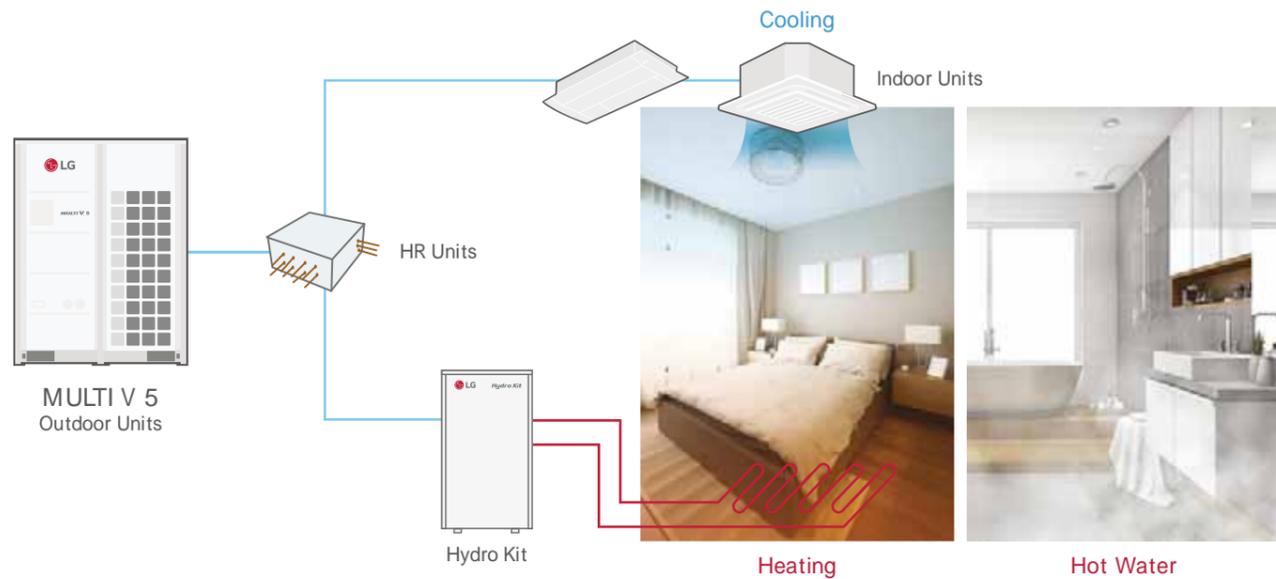
* CST : Cassette * PDI : Power Distribution Indicator

* ESS : Energy Storage System * PV : Photovoltaics

DIVERSE INTEGRATED SOLUTION

Hot Water Solution

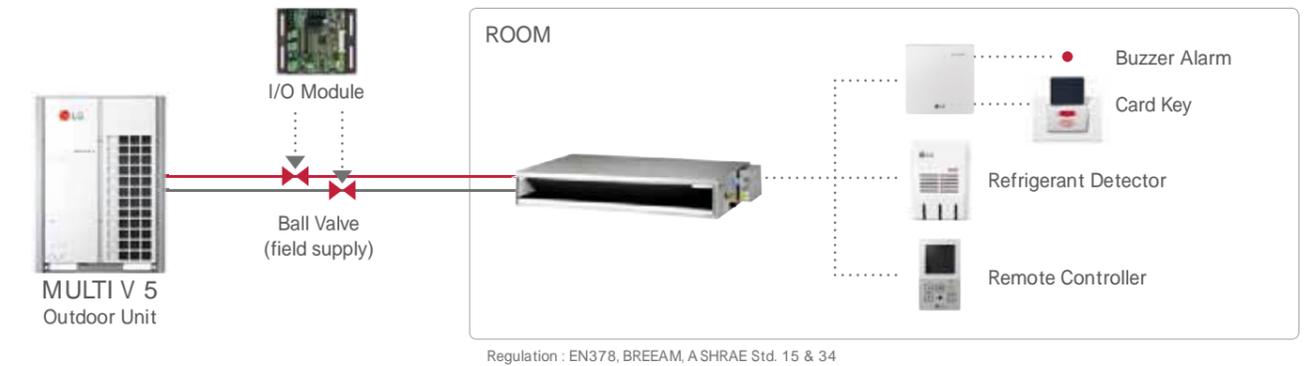
In order to save costs of providing hot water, using heat pump system is advised as water heating by heat pump is highly efficient compared to a boiler system. The Hydro Kit can be connected to MULTI V 5, and hot water temperatures up to 80°C can be provided. Also, energy savings can be increased when Hydro Kit is combined with MULTI V 5 Heat Recovery.



Refrigerant Leak Detection Solution

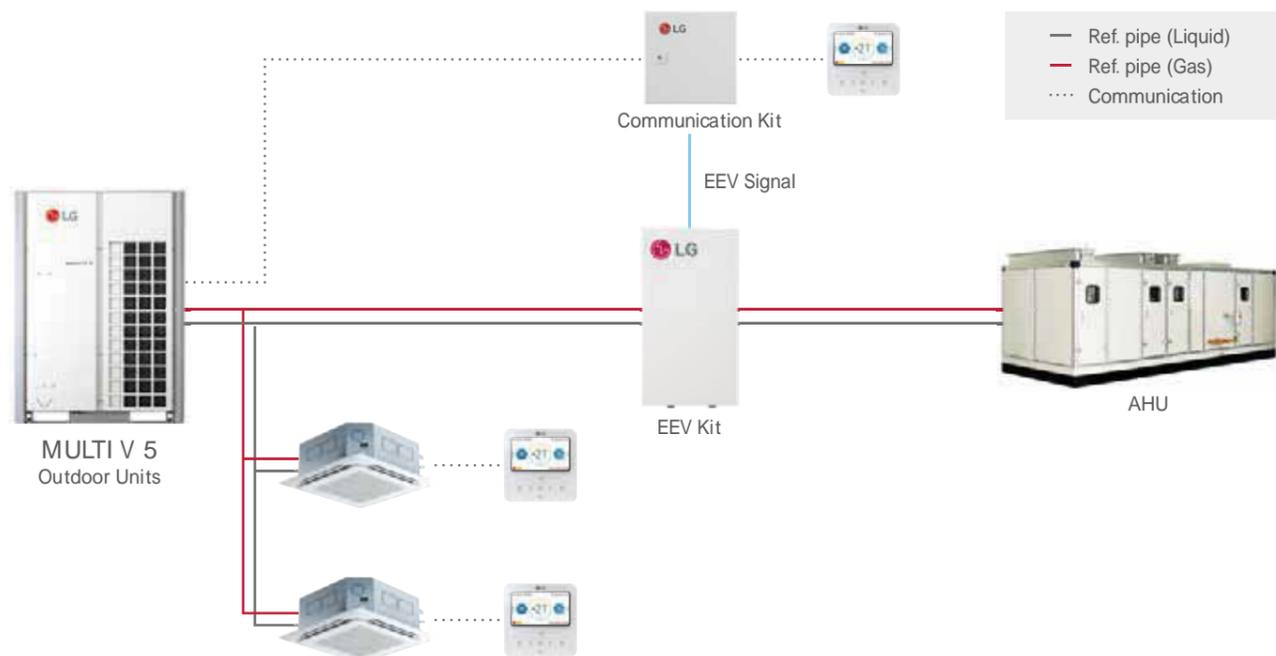
Real time refrigerant leak detection is needed for a safe environment. When the refrigerant concentration exceeds 6,000ppm for 5 seconds the indoor unit will stop operation and can also give an alarm using a buzzer or a light with the dry contact (option). The central controller can also display an error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

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



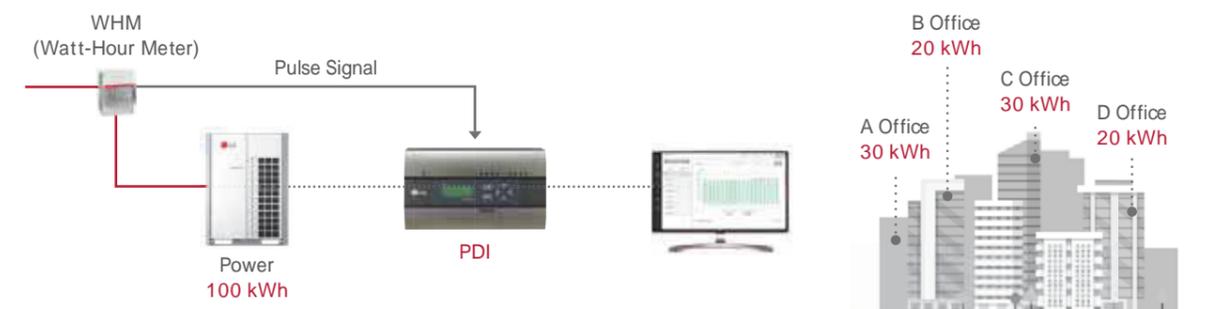
Air Handling Unit(AHU) Solution

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



Power Consumption Distribution Solution

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



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

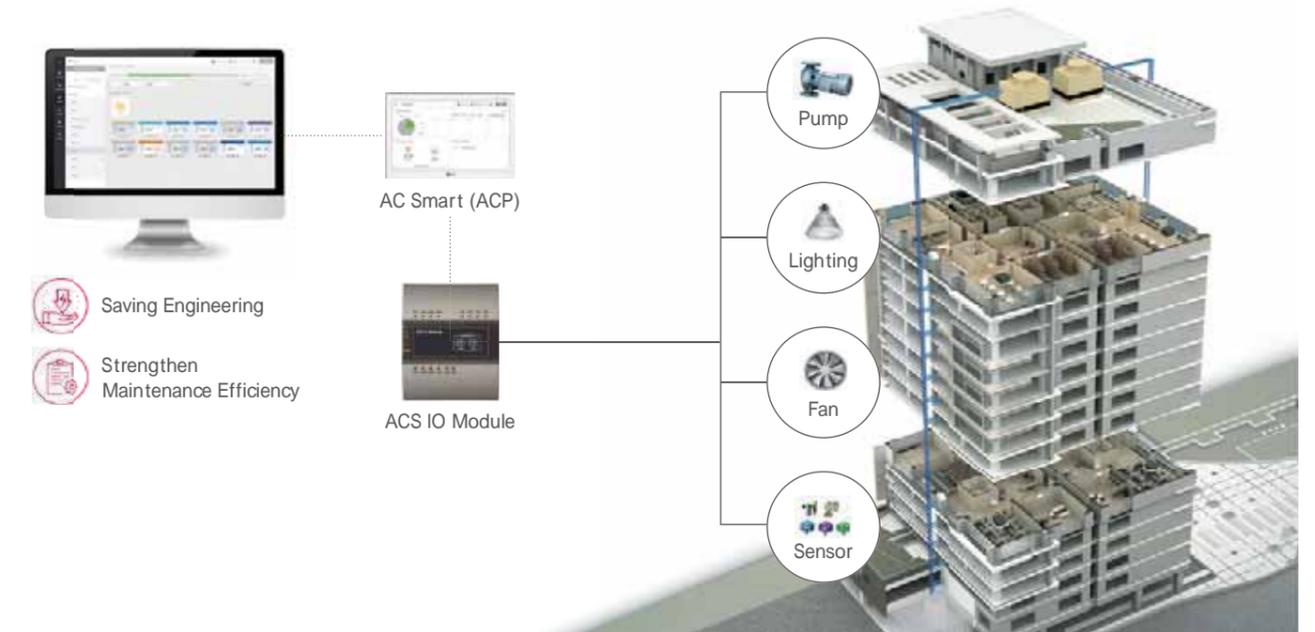
Energy Management Solution

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.



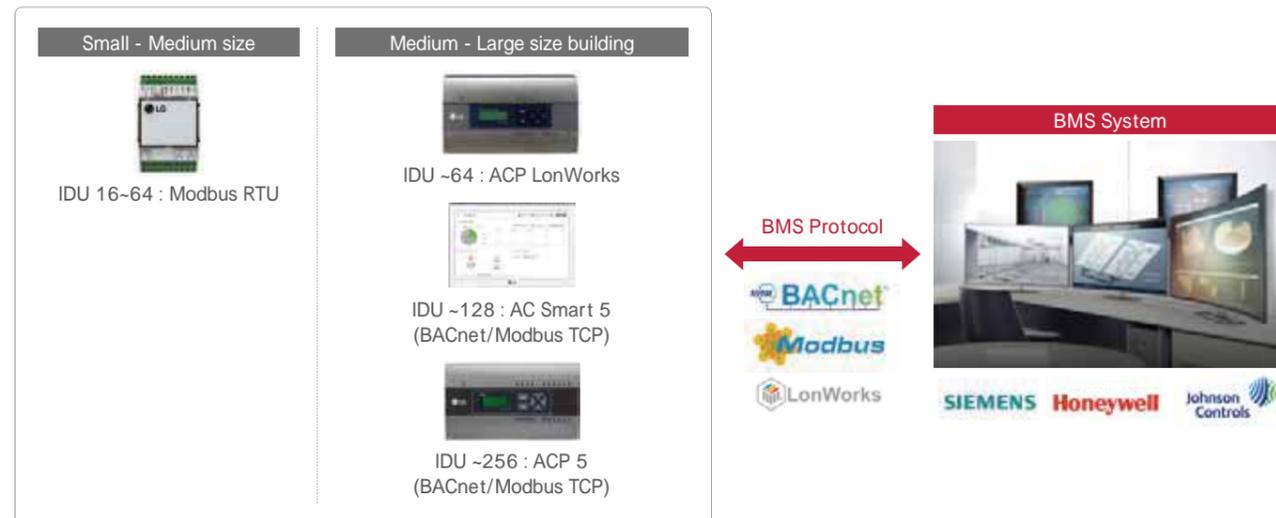
Interlocking Solution by Using ACS IO Module

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 onjunction with the HVAC system.



Integration Solution with BMS

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



Interlocking Solution by Using Dry Contact

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



OUTDOOR UNITS

—
MULTI V 5 / MULTI V S



OCEAN BLACK FIN HEAT EXCHANGER

Strong durability regardless of external environment



Ocean Black Fin

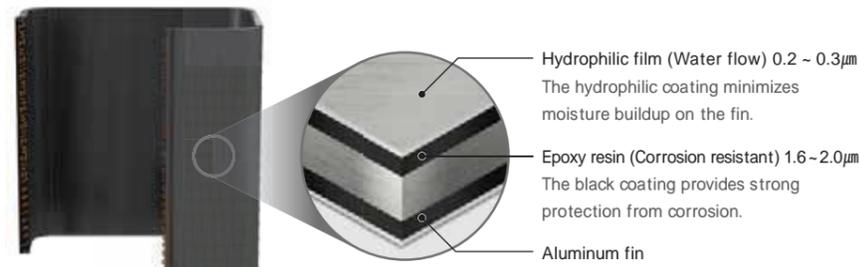
What benefits do you offer?

-  Extended Product Life Cycle
-  Minimal Environmental Pollution
-  Efficient Operation
-  Reduced Maintenance Costs

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

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

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



Condition of salt spray test

Heat Exchanger	Test Period (hr)		
	1 000	2 000	3 000
Previous Fin			
Black Fin			

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

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, UL (Underwriters Laboratories).



* Certificates can be updated.
* TUV certification will be obtained in March 19

DUAL SENSING CONTROL

Energy savings and optimized cooling through temperature and humidity control

Previous VRF

Hot day

SINGLE SENSING CONTROL



Temperature

MULTI V. 5

Hot & Wet day

Hot & Dry day

DUAL SENSING CONTROL



Humidity + Temperature

What benefits do you offer?

-  Energy Reduction
-  Pleasant Indoor Environment
-  Convenient Monitoring with PREMTB100 / PREMTBB10

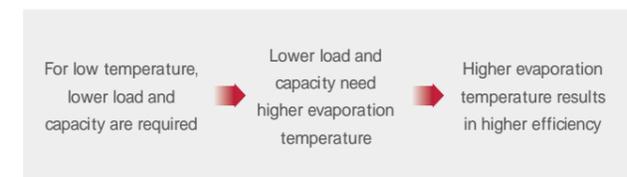
The cooling load is based on the amount of both sensible heat load and latent heat load. Most importantly, the cooling load is kept to, and thus, greatly affected by external humidity, rather than the outdoor temperature. For this reason, MULTI V 5's Dual Sensing Control applied function senses both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

Smart Load Control (SLC)

Smart Load Control function enables comprehensive understanding of environmental conditions in order to optimize energy efficiency and maximize indoor comfort level. This technology allows active control of discharge refrigerant temperature which eventually increases the ESEER up to 21% for maximum 26 HP and 15% for average outdoor units in comparison to the previous models.

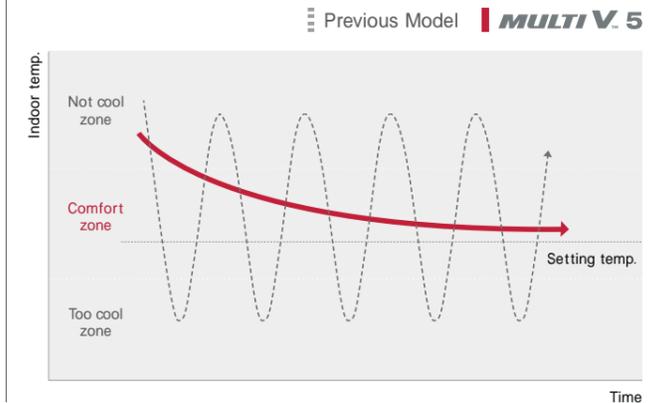
ESEER Up to 21% (vs. standard mode at 26HP)

ESEER Up to 15% ~ ESEER Up to 31% (High humidity) (Low humidity)



Comfort Cooling

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



BIOMIMETICS TECHNOLOGY FAN

Maximum capacity and efficiency

10% Improved Air Flow Rate

20% Reduce Power Consumption

LARGE CAPACITY WITH BIOMIMETICS TECH

What benefits do you offer?

- Large Capacity
- Low Noise
- Energy Saving

Increased Air Flow Rate (80 mm)

Humpback Whale Design

Clam Shell Pattern

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

Larger Capacity ODU with Biomimetics Technology Fan

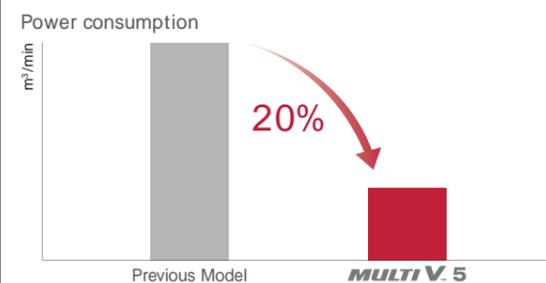
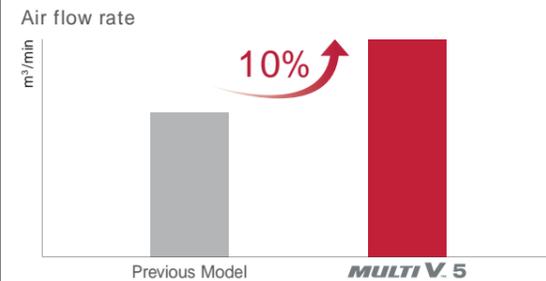
1 Humpback Whale Design
Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increased wind power by reducing flacking.

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

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

Enhanced Performance with Newly Developed Fan

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



ULTIMATE INVERTER COMPRESSOR

The best durability and efficiency

UI ULTIMATE INVERTER COMPRESSOR

What benefits do you offer?

- High Efficiency
- Low Vibration
- Low Noise
- Excellent Durability

01. HiPOR™ (High Pressure Oil Return)

02. Smart Oil Management

03. Wide Operation Range from 10 to 165Hz

04. Enhanced Bearing with PEEK Material

Up to 15% Operating time without oil supply

Down to 3dB Noise Level (Max. Sound Pressure)

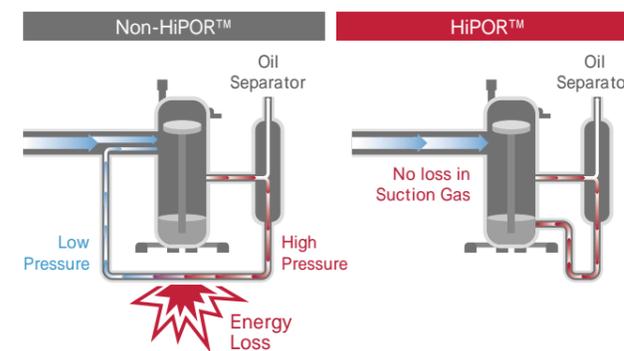
05. Vapor Injection

10% Improved Energy Efficiency

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

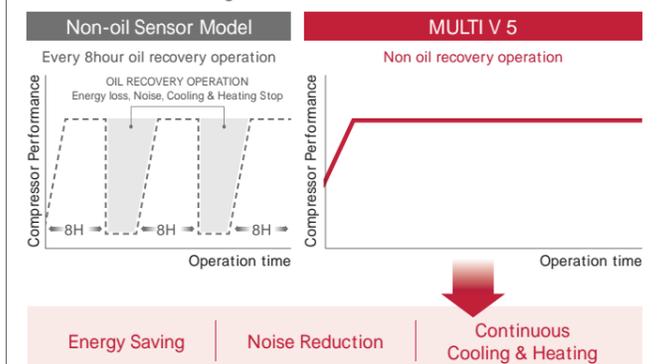
HiPOR™ (High Pressure Oil Return)

Resolve compressor efficiency loss caused by oil return.



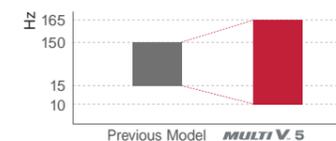
Smart Oil Management

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



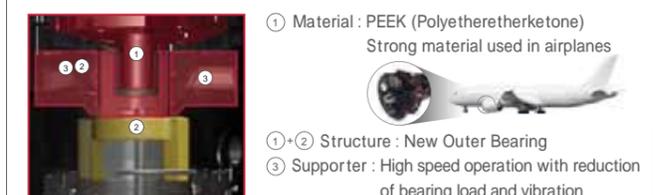
Wide Operation Range from 10 to 165Hz

Wide operation range allows precise control. So improved part load efficiency at all operation ranges.



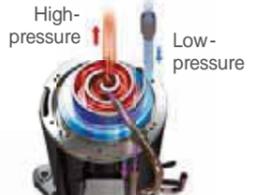
Enhanced Bearing with PEEK Material

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



Vapor Injection

Maximize heating capacity via two-stage compression



CONTINUOUS HEATING

Efficient even in low-temperature, high-humidity environments

* Only for applied ARUMXXX model.

Dual Sensing Control | **Partial Defrost** | **Smart Oil Management**

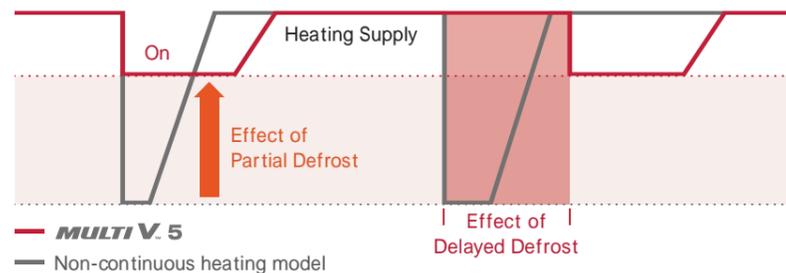
What benefits do you offer?

- Operational Efficiency
- Energy Reduction
- Effective in Various Environments

Improved technologies such as Dual Sensing Control, Partial Defrost and Smart Oil Management enhance Continuous Heating for increased heating capacity and indoor comfort. The delayed and partial defrost technologies minimize unnecessary operational consumption to provide consistent heating.

Partial Defrost

Unlike the previous model that stopped heating operation for one-time defrost, MULTI V 5 partially defrosts the heat exchanger by dividing it to lower and upper parts in order to provide consistent heating for the indoor environment and improve heating capacity.



↑ Heating Operation Time Per Day **Up to 11%**
↓ Power Input **Down to 7%**

* LG internal test result
* Test condition : Outdoor 2/1°C, Indoor 20/15°C, Humidity 83%

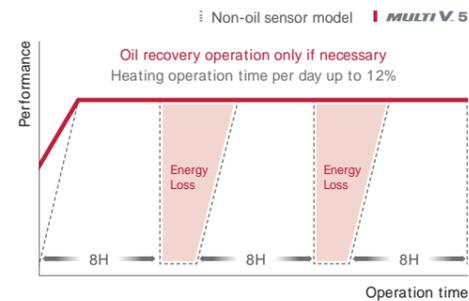
Delayed Defrost via Humidity Sensor of Dual Sensing Control

By controlling the evaporation temperature considering the humidity, heating operation time is improved.



Smart Oil Management

Oil sensor of the Ultimate Inverter (UI) Compressor enables smart oil management to provide enhanced heating operation without periodic oil recovery operation.



AUTO DUST REMOVAL

TROPICAL MODEL

Enhanced stability from environmental constraints

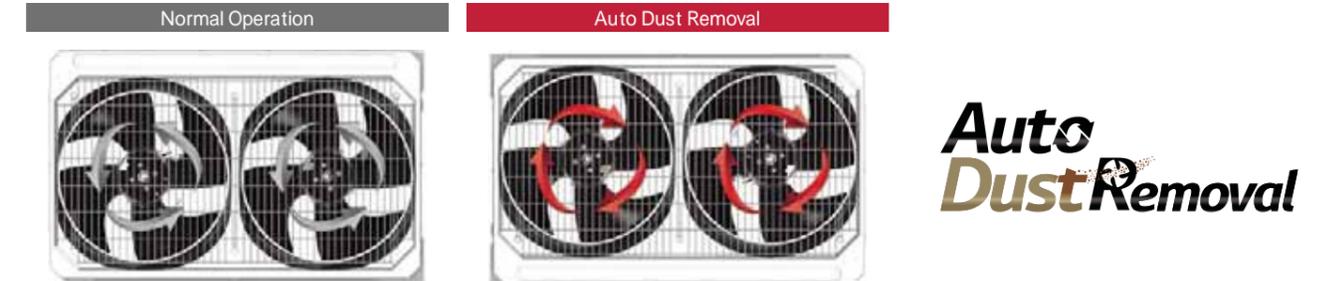
What benefits do you offer?

- Stable Operation
- Response to Certain Natural Environments
- Enhanced Durability
- Reduced Maintenance Costs

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

Technology Mechanism

Fan rotates **reversely** to run sand dust free operation

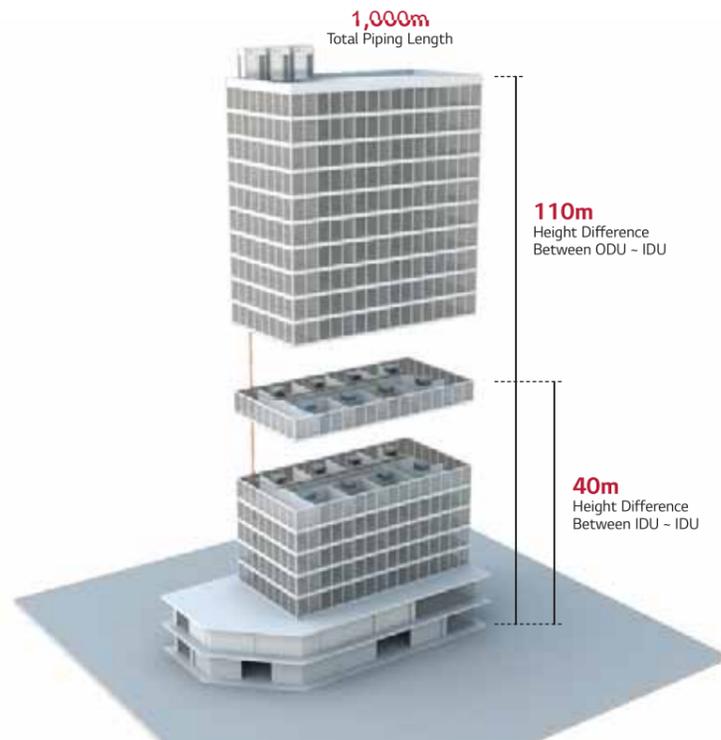


Performance Comparison



MULTI V 5

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

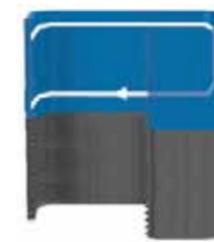
Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

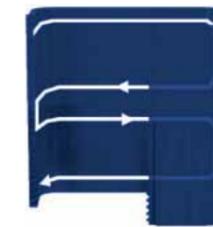
MULTI V 5 outdoor units are manufactured with horizontally split ODU coil consisting of two independently circuited sections. Each half the coil is independently controlled. This split coil feature makes it possible for MULTI V 5 to provide continuous heating during defrost. The coil circuiting and valve arrangement also makes it possible for the MULTI V 5 controller to change the flow path of refrigerant through one of the two coils only, or through both coils in either a series or parallel arrangement. Based on system pressures, ambient temperature conditions, and mode of operation, the system controller may modify the selected path at any time.

What are the benefits?

Optimizes system efficiency irrelevant of operating modes as ambient weather conditions change. Customizes the area of outdoor units heat transfer surface in use dynamically.



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



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



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

Active Refrigerant Control

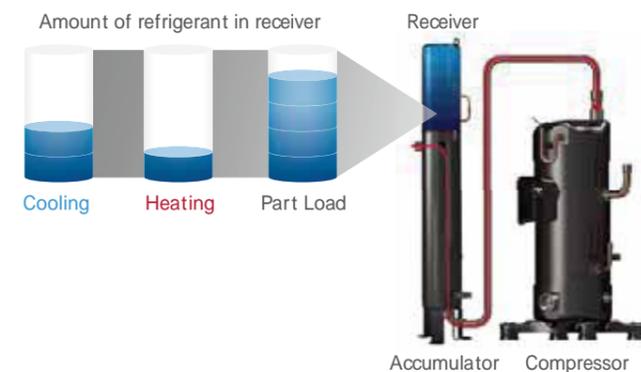
Stable operation & Sustaining most efficient operation

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

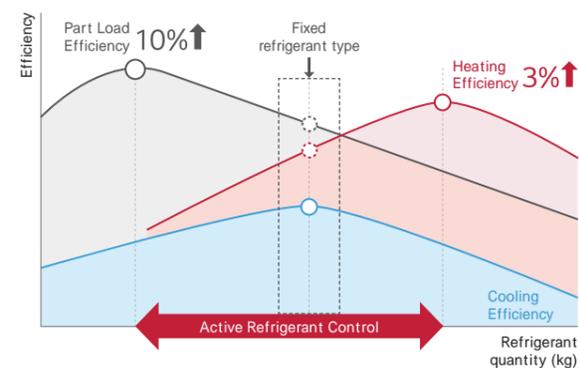
What are the benefits?

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

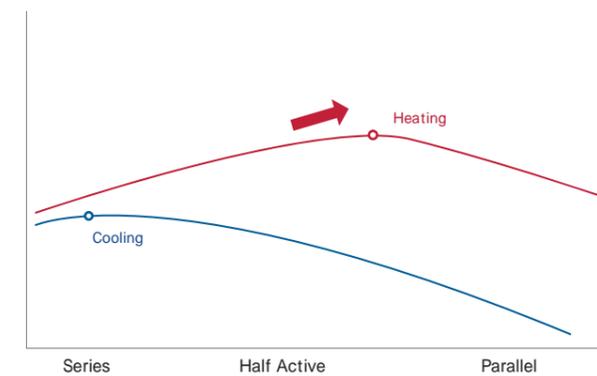
Technology mechanism



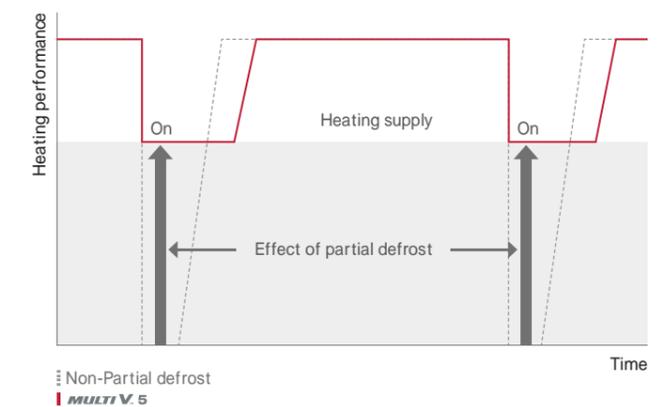
Efficiency performance



Efficiency



Continuous Heating



MULTI V 5

Low-Noise Operation

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

Automatic

Noise automatically adjusted



Manual

Choose preferred settings with remote based on noise conditions

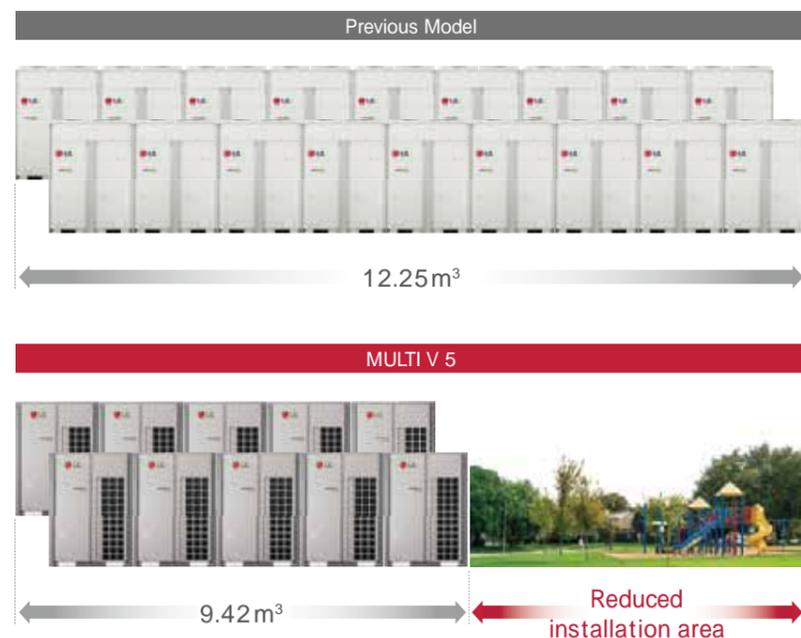


* Indoor unit set up available with Standard III Remote Controller

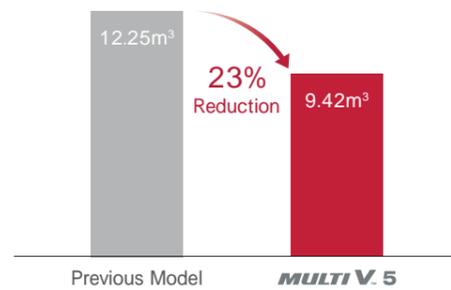
Flexible Installation Space with Large Capacity Outdoor Units

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

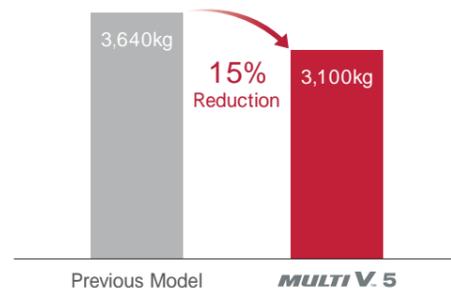
Comparison on installation space



Installation space area comparison



Product weight comparison



Dual Sensing SLC (Smart Load Control)

Enhanced energy saving & Increased indoor comfort

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

Smart Load Control monitors two inputs

- 1) Outdoor ambient dry bulb temperature
- 2) Outdoor ambient relative humidity (when enabled)

Cooling Indoor Units - adjusts target low pressure

Raises the target low pressure value as cooling load falls and/or ambient temperature falls.
Lowers the target low pressure value as cooling load rises and/or ambient temperature rises.

Heating Indoor Units - adjusts target high pressure

Lowers the target head pressure as heating load falls and/or ambient temperature rises.
Raises the target head pressure as heating load rises and/or ambient temperature falls.

What are the benefits?

Enhanced energy savings

- Cooling Mode

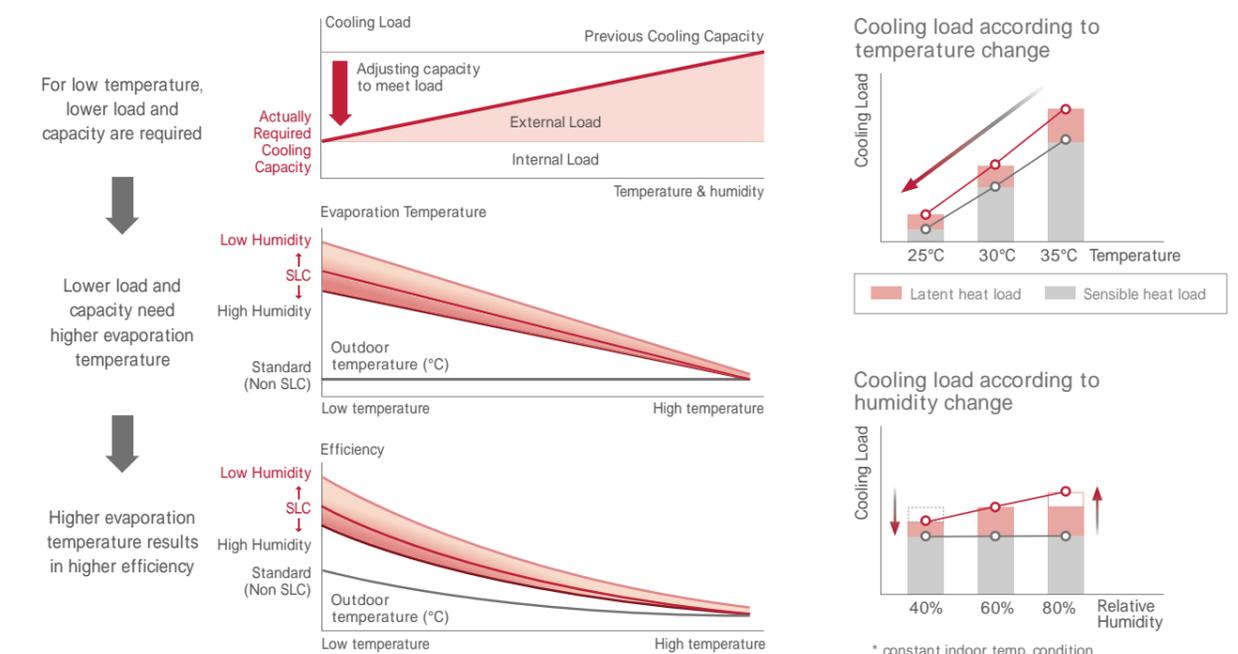
By raising the target low pressure during off-peak cooling operation, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.

- Heating Mode

By lowering the target high pressure during off-peak heating operation, the compressor lift is reduced. This slows compressor's speed which leads to a decrease in compressor's power consumption.

Increased indoor comfort

Smart Load Control uses one (or two) sensors to measure changing outdoor weather conditions and prepares the VRF system for operation under the revised weather conditions before the changed conditions have a chance to impact indoor comfort.



MULTI V 5

Comfort Cooling

Increased indoor comfort & Enhanced operating efficiency

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

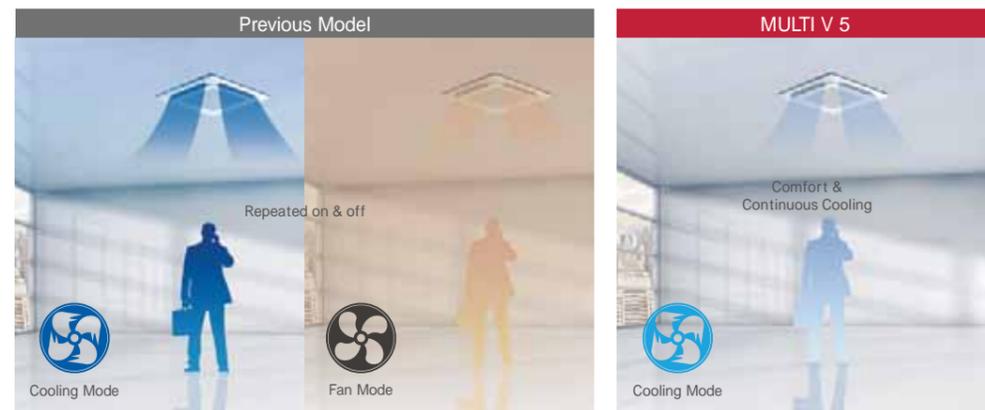
What are the benefits?

Increased indoor comfort

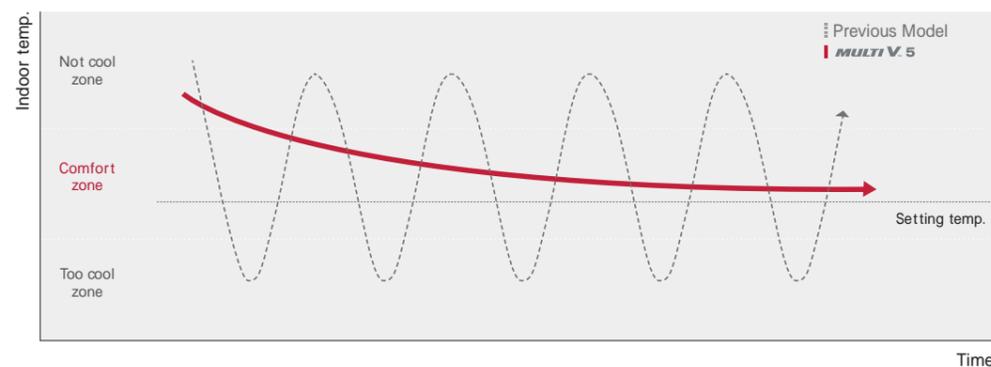
If comfort cooling is turned off, and the temperature of the leaving air is not raised, when the fan speed is reduced to low speed, there is a potential that occupants located directly under a cassette IDU or supply air registers could feel cold air falling on them resulting in a lower overall comfort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

Enhanced operating efficiency

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



* Indoor unit set up available with Standard III Remote Controller



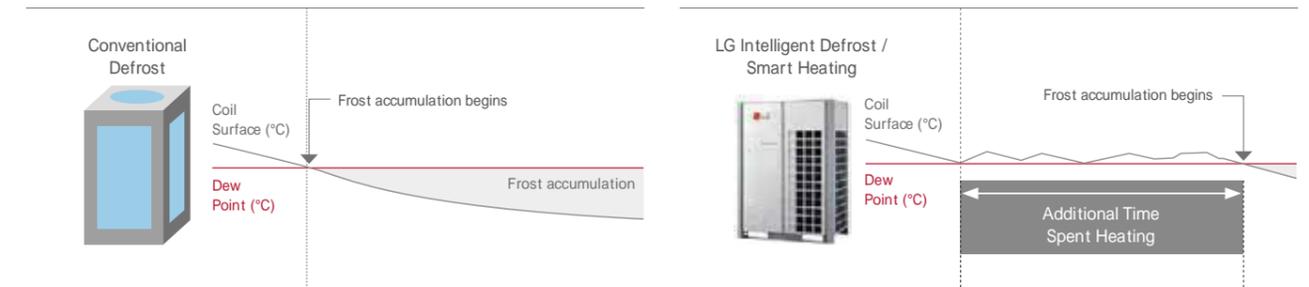
Intelligent Defrost

Increased heating run-hours

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

What are the benefits?

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



Increased heating operation time per day : Up to 17%
 • LG Internal Test result,
 • Test condition (MULTI V 5 vs MULTI V IV, 22HP)
 - Outdoor : 2/1 , Indoor : 20/15 - Humidity : 83%, Dew Point : -0.5

HiPOR™

Maximized reliability & efficiency of compressor

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

What are the benefits?

Maximizes reliability and efficiency of the compressor



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

MULTI V 5

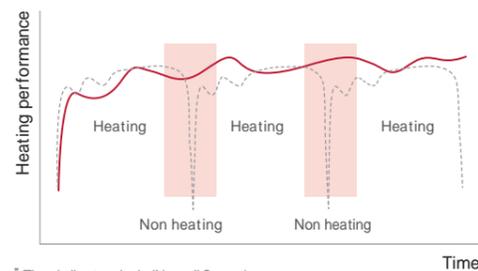
Smart Oil Management

Energy saving, Enhanced heating & increased compressor reliability

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

What are the benefits?

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



Timed oil return logic (Non_oil Sensor)
MULTI V. 5

- Increased heating operation time per day : Up to 12%
- LG Internal Test result,
- Test condition
- without oil level sensor : every 8hour oil recovery operation
- with oil level sensor : non oil recovery operation



Sub-cooling & Vapor Injection

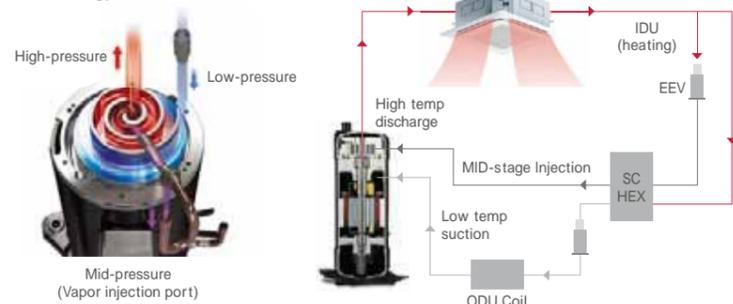
Increased heating performance

MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. During low ambient operation down to -25 , the sub-cooler provides medium temperature refrigerant gas to the compressor's vapor injection system. When injected into the compression chamber, system mass flow increases which stabilizes the system's suction pressure. In all cases the vapor injection increases the compressors cycle efficiency and reduces operating cost.

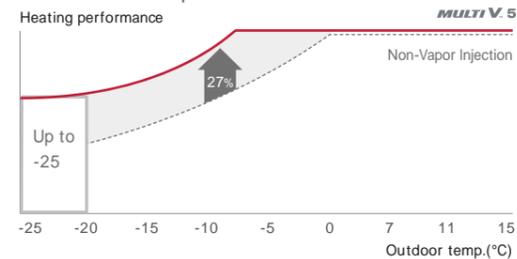
What are the benefits?

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

Technology Mechanism



Performance Comparison



* Improved heating performance by 27%
* Comparison tested on 10HP model

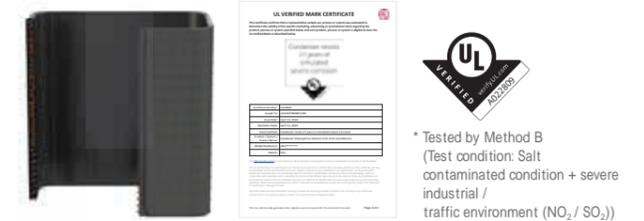
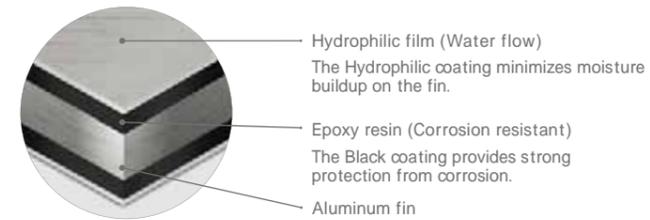
Ocean Black Fin

Improved durability

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

What are the benefits?

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



* Tested by Method B (Test condition: Salt contaminated condition + severe industrial / traffic environment (NO₂ / SO₂))

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

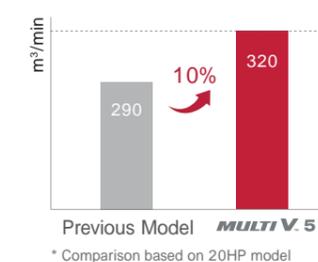
MULTI V 5 outdoor units fans have been upgraded. The moire pattern from external texture of clam shells has been applied on fans to create the range difference that results in reduction of noise level. At the same time, unlike the fans installed in previous products that generate separation of flow due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

What are the benefits?

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

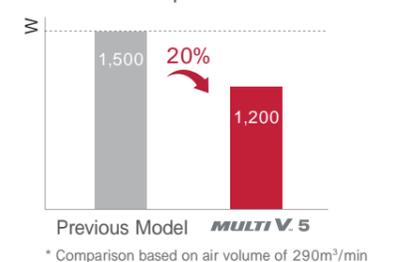


Air Flow Rate



* Comparison based on 20HP model

Power Consumption



* Comparison based on air volume of 290m³/min

MULTI V 5

One Unified Model

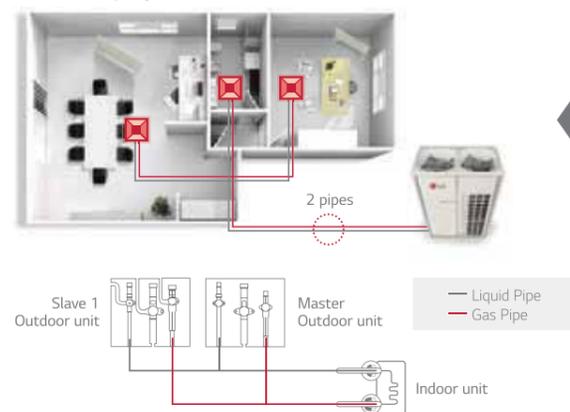
Heat pump / Heat recovery with one platform

LG MULTI V 5 satisfies users' various needs with just one platform. Heat Pump System works for the sites where either cooling or heating operation is needed, while Heat Recovery System fits perfectly to the sites wherein both the cooling and heating operations are simultaneously needed or locations installed with Hot Water Solution to provide hot water and heating via radiator. By providing suitable solutions that cater to any building types and their requirements, MULTI V 5 offers the best HVAC system.

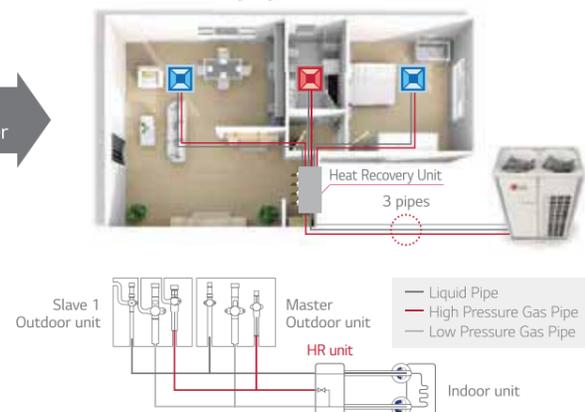
What are the benefits?

MULTI V 5 allows the building previously installed with Heat Pump System to switch to the Heat Recovery System for changing purpose of the building or remodeling reasons via simple piping construction.

Heat Pump System



Heat Recovery System



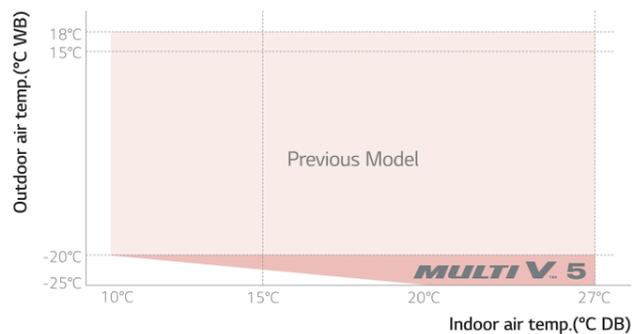
Wider Operation Range

Able to operate at extreme conditions

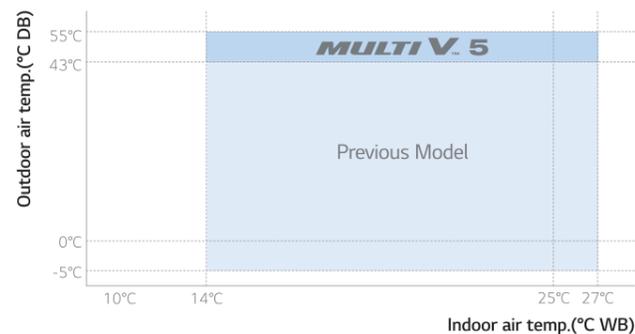
With enhanced inverter compressor and control technology coming from improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 extended range of cooling and heating operations. For heating, it can operate at as low as -25°C to perform properly even at very cold environment. It is improved perfectly to fully function at extreme conditions such as performing cooling operation at -5°C, making the product adequate for uses in specialized venues like technical rooms. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 55°C.

TROPICAL MODEL

Heating



Cooling



※ If it is not Tropical Model, please refer to the product spec sheet.

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 wellaware of more than 40 different functional settings and more than 200 error codes had to check main parts in order to make sure that the test run had succeeded. With Mobile LGMV of MULTI V 5, fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

Previous



MULTI V 5



Wi-Fi MV Module



LGMV



Cycle Monitoring Diagnosis Installation Smart Management

MULTI V 5

Outside Units Function

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

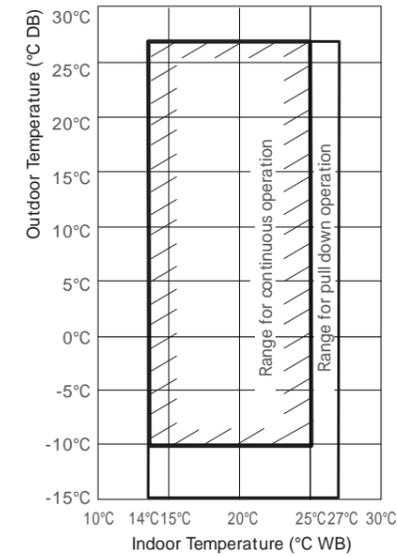
Note
 ○ : Product internal function, - : Not applied
 Option: Refer to model name in table
 * 8HP, 10HP Models are without oil sensor

MULTI V 5

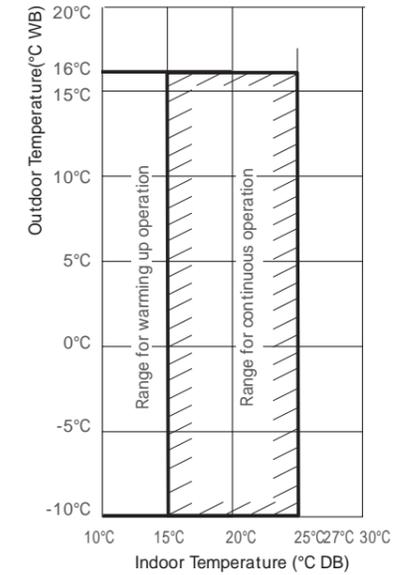
Wider Operation Range

Simultaneous Cooling / Heating Operation

Cooling



Heating



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

MULTI V 5

Q1 What is the differences between MULTI V 5 Function by region?

A1 The portion of cooling operation hours at low humidity condition (below 50% RH) is big. The cooling load of this condition is less than the load at standard(50~70% RH) or high(over 70% RH) humidity condition even in the same outdoor air temperature. MULTI V 5 raises the evaporating Temp. up at low load(low humidity) condition to enable energy saving and prevent over-cooling which can happen when the system is controlled only by using outdoor air Temp.

Category	MULTI V IV H/P (ARUN***LTH4)	MULTI V 5 H/P & H/P (ARUN***LTH5)
Vapor Injection	○	○
HiPOR™	○	○
Smart Oil Control (Oil Level Sensor)	○	○
Active Refrigerant Control	○	○
Variable Heat Exchanger Circuit	○	○
Continuous Heating	○	○
Smart Load Control	○	○
Dual sensing (humidity sensor)	-	○
Comfort Cooling	○	○
Ocean Black Fin	-	○
Maximum Capacity (1 Unit / 4 Unit)	16 HP / 48 HP	22 HP / 66 HP
Height Difference (ODU ~ IDU / IDU ~ IDU)	110m / 40m	110m / 40m
Cooling Operating range(OAT, °CDB)	-5 to 54	-5 to 55
Heating Operating range(OAT, °CWB)	-25 ~ 18	-25 ~ 18

Q2 Can MULTI V 5 ODU be connected with the 2 series indoor unit?

A2 Yes, MULTI V 5 ODU can be connected with the 2 series indoor unit. In this case, the ODU DIP Switch No.3 should be "OFF" which is default setting. Refer to the below table.

ODU	IDU	Compatibility	ODU DIP Switch No. 3	If dip switch setting is not correct	Ref.
Multi V IV Multi V 5	Gen. 2 (ARNU*2)	○	Must be OFF (factory default)	Can not communicate between Indoor & Outdoor unit (System will not be operated)	
	Gen. 4 (ARNU*4)	○	Must be ON to enable gen. 4 functions	When Dip Switch No. 3 is OFF, System can be operated, but some function of Gen. 4 is not available	
	Gen. 2 + Gen. 4	○	Must be OFF (factory default)	When Dip Switch No. 3 is ON, Can not communicate between Gen. 2 Indoor & Outdoor unit (Gen 2 units are not operated), only Gen 4 Units are operated.	Some function of Gen. 4 is not available

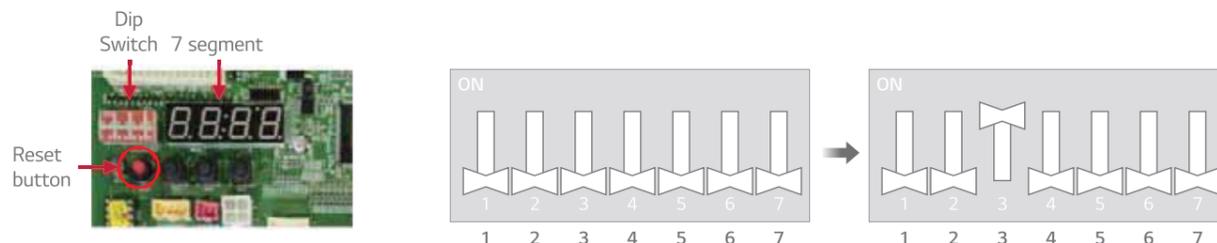
ODU dip switch setting procedure (No.3)

ODU main PCB dip switch is all "OFF" at default state

(1) Check and make sure that all connected indoor units are 4 series. (ARNU*****4.)

(2) Change Dip switch No. 3 from OFF → ON

(3) Push the reset button.

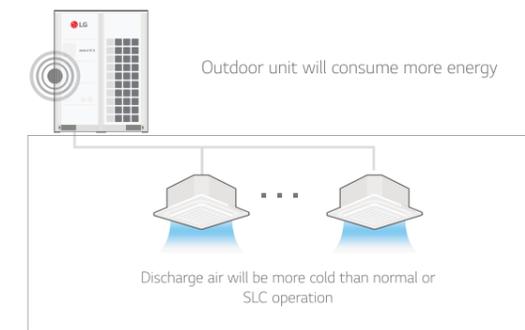


Q3 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?

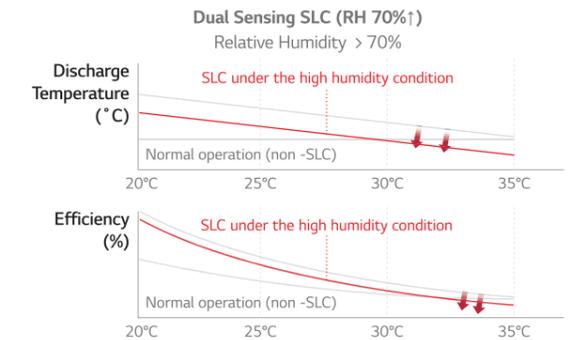
A3 During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode.

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

Outdoor humidity is higher than indoor units

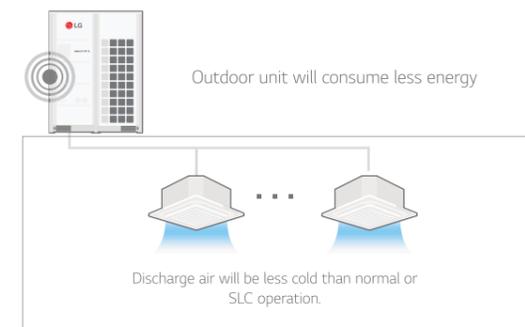


Evaporation temperature & efficiency

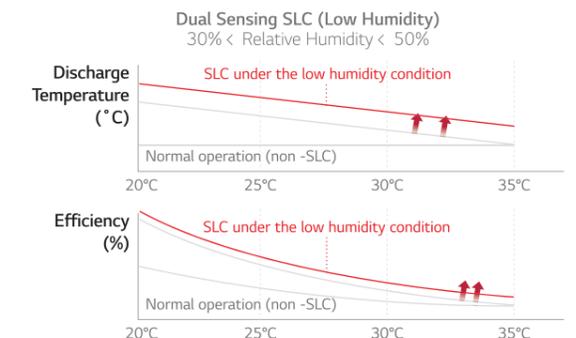


- **When the humidity of outdoor side is lower than that of indoor side**, outdoor unit will rise target pressure to save energy and keep comfort, but indoor humidity will be less removed compared to normal operation.

Outdoor humidity is lower than indoor units

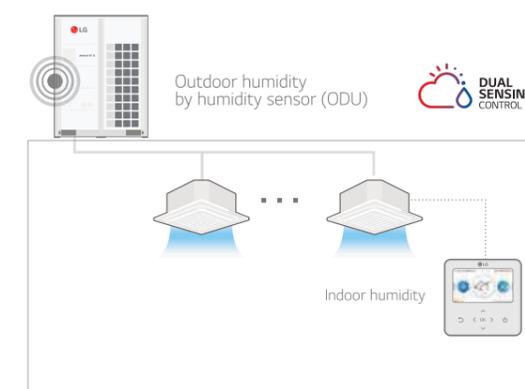


Evaporation temperature & efficiency



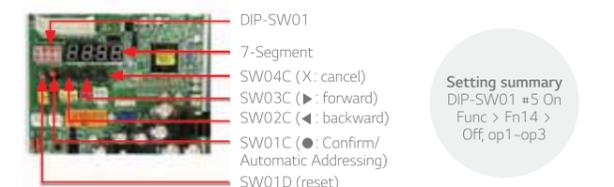
To keep comfort and save energy you may turn off outdoor units humidity sensing or propose to install new standard remote controller in order to sensing indoor humidity.

Sensing point



SLC Setting

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



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



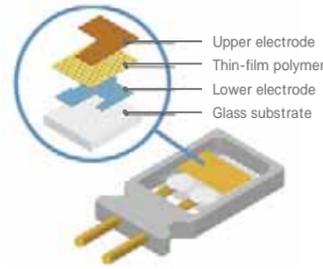
NOTE : User can turn off humidity control in ODU Setting (humidity reference) <Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

MULTI V 5

Q4 What is the principle and accuracy of humidity sensor?

A4 Total Tolerance(%) = Sensor measurement tolerance(%) + Location of sensor tolerance(%)

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



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

Q5 What is difference in refrigerant piping connection between MULTI V IV and MULTI V 5

A5 From MV 5, Low pressure gas pipe in heat pump operation changes to high pressure gas pipe in heat recovery operation due to internal cycle. So for heat pump cycle, no. 1, 3 pipe should be connected and for heat recovery operation, No. 1,2,3 pipe is connected. (For the heat pump operation, DO NOT connect No.2 pipe)

* Only for applied ARUMXXLTES

Heat Recovery Installation

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

Heat Pump Installation

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

Reducer for Gas Pipe

15.88	→	19.05
19.05	→	22.2
22.2	→	28.58

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

Other Questions

Item	Question	Answer
Fan	The static pressure of MULTI V 5 is Max. 8 mmAq as MULTI V IV??	Yes, the static pressure of MULTI V 5 is the same with MULTI V IV.
Compressor	Is the limitation of Compressor max. Hz applied by the capacity of outdoor unit?	No, the limitation of comp Hz is not applied for default. But, it can be set by option for limitation of max Hz (or current).
4Way V/V	The usage of main & sub 4 way valve for MULTI V 5 ?	MULTI V 5 has the function of both H/P and H/R by one unit. Main valve has a function to change the operation mode. (cooling heating) Sub. Valve has a functions to change the product type (H/P H/R)
VI	In case of vapor injection, how much is the middle pressure?	The optimal middle pressure for vapor injection is 1.2 PS. PS : Suction pressure of compressor
VI	By how much is heating capacity increased by vapor injection?	Generally, the heating capacity is increased up to 15~20%.
Humidity Sensor	Where is Indoor Humidity sensor?	It is placed inside of the RS3 remote controller.
Remote Controller	Does remote controller show the humidity information (status) as well?	Yes. It shows the current humidity information on screen. (for RS3 Only) But has no function to control the humidity
Remote Controller	Is it possible to connect the local humidity sensor with Remote controller (RS3)?	No. All of RS3 remote controller can not be connected with local humidity sensor.
SLC	Does dual sensing SLC function control the humidity ratio?	No. There is no control of humidity ratio.
SLC	Is SLC fully used on Eurovent? Isn't humidity fixed for the test? What about AHRI?	Eurovent (RH 47%) and AHRI (RH 51%) have fixed humidity test condition.
Comfort Cooling	Why is not the comfort heating applied in product?	Comfort cooling need super heating controlled and Comfort heating need sub cooling controlled. In case of controlling EEV for sub cooling, noise and stable operation may be affected and critical.
Installation	Does the IDU – Central controller direct connection for communication cable is possible? (Flat connection)	No, it is not possible.

MULTI V 5

TROPICAL MODEL

STANDARD

ARUN080LTH5 / ARUN100LTH5 / ARUN120LTH5 / ARUN140LTH5



HP			8	10	12	14
Model Name	Combination Unit		ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
	Independent Unit		ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
Capacity	*Cooling (Rated)	RT	6.4	8.0	9.5	11.1
		kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	**Cooling (Rated)	RT	5.6	7.1	8.9	10.5
		kW	19.8	25.0	31.2	36.8
		Btu/h	67,600	85,300	106,500	125,600
	Heating (Rated)	RT	7.2	8.6	10.7	12.5
		kW	25.2	30.3	37.8	43.9
		Btu/h	86,000	103,400	129,000	149,900
	Input	*Cooling (Rated)	kW	5.00	7.00	8.00
**Cooling (Rated)		kW	6.37	8.33	9.54	11.20
Heating (Rated)		kW	5.80	7.30	8.06	9.69
COP	*Cooling (Rated)	kW	4.48	4.00	4.20	4.22
	**Cooling (Rated)	kW	3.11	3.00	3.27	3.29
	Heating (Rated)	kW	4.34	4.15	4.69	4.53
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray			
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1	62.1	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600	3,600	3,600
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
	Air Flow Rate(High)	m ³ /min ft ³ /min	240 x 1 8,476 x 1	240 x 1 8,476 x 1	240 x 1 8,476 x 1	320 x 1 11,301 x 1
	External Static Pressure (Max. Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Gas Pipe	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)	28.58(1-1/8)
Dimensions (W x H x D)		mm	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760)x1
		inch	(36-5/8 x 66-17/32 x 29-29/32) x 1	(36-5/8 x 66-17/32 x 29-29/32) x 1	(36-5/8 x 66-17/32 x 29-29/32) x 1	(48-13/16 x 66-17/32 x 29-29/32) x 1
Net Weight		kg	173 x 1	171 x 1	200 x 1	221 x 1
		lbs	381 x 1	377 x 1	441 x 1	487 x 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.5	59.0	60.0
	Heating	dB(A)	60.0	60.5	60.0	61.0
Sound Power Level	Cooling	dB(A)	78.0	79.0	79.0	82.0
	Heating	dB(A)	80.0	80.0	80.0	84.0
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 - 1.5			
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg lbs	4.7 10.4	4.7 10.4	10.0 22.0	13.0 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
Number of Maximum Connectable Indoor Units			13	16	20	23

TROPICAL MODEL

STANDARD

ARUN160LTH5 / ARUN180LTH5 / ARUN200LTH5 / ARUN220LTH5



HP			16	18	20	22
Model Name	Combination Unit		ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
	Independent Unit		ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
Capacity	*Cooling (Rated)	RT	12.7	14.3	15.9	17.5
		kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	**Cooling (Rated)	RT	11.4	12.4	13.6	14.1
		kW	40.3	43.6	48.0	49.6
		Btu/h	137,500	148,800	163,800	169,100
	Heating (Rated)	RT	14.2	16.1	17.9	19.7
		kW	50.0	56.7	63.0	69.3
		Btu/h	170,600	193,500	215,000	236,500
	Input	*Cooling (Rated)	kW	10.80	11.20	13.00
**Cooling (Rated)		kW	13.15	14.39	15.77	16.72
Heating (Rated)		kW	11.36	11.98	15.52	17.54
COP	*Cooling (Rated)	kW	4.15	4.50	4.31	4.15
	**Cooling (Rated)	kW	3.06	3.03	3.04	2.96
	Heating (Rated)	kW	4.40	4.73	4.06	3.95
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray			
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1	62.1 x 1 + 43.8 x 1	62.1 x 2	62.1 x 2
	Number of Revolution	rev/min	3,600	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1 + 4,200 x 1	5,300 x 2	5,300 x 2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rate(High)	m ³ /min ft ³ /min	320 x 1 11,301 x 1			
	External Static Pressure (Max. Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections	Liquid Pipe	mm(inch)	12.7(1/2)	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)	28.58(1-1/8)	28.58(1-1/8)
Dimensions (W x H x D)		mm	(1,240 x 1,690 x 760)x1			
		inch	(48-13/16 x 66-17/32 x 29-29/32) x 1			
Net Weight		kg	221 x 1	261 x 1	281 x 1	281 x 1
		lbs	487 x 1	575 x 1	619 x 1	619 x 1
Sound Pressure Level	Cooling	dB(A)	60.5	61.0	62.0	64.5
	Heating	dB(A)	61.5	62.0	64.5	65.5
Sound Power Level	Cooling	dB(A)	83.0	85.0	86.0	86.0
	Heating	dB(A)	85.0	86.0	87.0	88.0
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 - 1.5			
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg lbs	13.0 28.7	13.0 28.7	30.9 68.1	14.0 30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
Number of Maximum Connectable Indoor Units			26	29	32	35

MULTI V 5

TROPICAL MODEL

STANDARD

ARUN240LTH5 / ARUN260LTH5 / ARUN280LTH5 / ARUN300LTH5



HP			24	26	28	30
Model Name	Combination Unit		ARUN240LTH5	ARUN260LTH5	ARUN280LTH5	ARUN300LTH5
	Independent Unit		ARUN120LTH5 ARUN120LTH5	ARUN140LTH5 ARUN120LTH5	ARUN160LTH5 ARUN120LTH5	ARUN160LTH5 ARUN140LTH5
Capacity	*Cooling (Rated)	RT	2	2	2	2
		kW	19.1	20.7	22.3	23.9
		Btu/h	67.2	72.8	78.4	84.0
	**Cooling (Rated)	RT	229,300	248,400	267,500	286,600
		kW	17.7	19.3	20.3	21.9
		Btu/h	62.4	68.0	71.5	77.1
	Heating (Rated)	RT	212,900	232,000	244,000	263,100
		kW	21.5	23.2	24.9	26.7
		Btu/h	75.6	81.7	87.8	93.9
Input	*Cooling (Rated)	kW	257,900	278,800	299,600	320,500
	**Cooling (Rated)	kW	16.00	17.30	18.80	20.10
	Heating (Rated)	kW	19.08	20.74	22.69	24.35
COP	Heating (Rated)	kW	16.12	17.75	19.42	21.05
	*Cooling (Rated)	kW	4.20	4.21	4.17	4.18
	**Cooling (Rated)	kW	3.27	3.28	3.15	3.17
Power Factor	Rated	kW	4.69	4.60	4.52	4.46
Casing	Color	-	0.93	0.93	0.93	0.93
Heat Exchanger	Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Compressor	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 2	62.1 x 2	62.1 x 2	62.1 x 2
	Number of Revolution	rev/min	3,600 x 2	3,600 x 2	3,600 x 2	3,600 x 2
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	1,200 x 2	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	900 x 4
	Air Flow Rate(High)	m ³ /min	240 x 2	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	320 x 2
	External Static Pressure (Max. Pa)	ft ³ /min	8,476 x 2	(11,301 x 1) + (8,476 x 1)	(11,301 x 1) + (8,476 x 1)	11,301 x 2
	External Static Pressure (Max. Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connections	Liquid Pipe	mm(inch)	15.88(5/8)	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)	34.9(1-3/8)
Dimensions (W x H x D)	mm		(930 x 1,690 x 760) x 2	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2
	inch		(36-5/8 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 1 + (36-5/8 x 66-17/32 x 29-29/32) x 1	(48-13/16 x 66-17/32 x 29-29/32) x 1 + (36-5/8 x 66-17/32 x 29-29/32) x 1	(48-13/16 x 66-17/32 x 29-29/32) x 2
Net Weight	kg		200 x 2	(221 x 1) + (200 x 1)	(221 x 1) + (200 x 1)	221 x 2
	lbs		441 x 2	(487 x 1) + (441 x 1)	(487 x 1) + (441 x 1)	487 x 2
Sound Pressure Level	Cooling	dB(A)	62.0	62.5	62.8	63.3
	Heating	dB(A)	63.0	63.5	63.8	64.3
Sound Power Level	Cooling	dB(A)	82.0	83.8	84.5	85.5
	Heating	dB(A)	83.0	85.5	86.2	87.5
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	10.0 + 10.0	13.0 + 10.0	13.0 + 10.0	13.0 + 13.0
		lbs	22.0 + 22.0	28.7 + 22.0	28.7 + 22.0	28.7 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			39	42	45	49

TROPICAL MODEL

STANDARD

ARUN320LTH5 / ARUN340LTH5 / ARUN360LTH5



HP			32	34	36
Model Name	Combination Unit		ARUN320LTH5	ARUN340LTH5	ARUN360LTH5
	Independent Unit		ARUN160LTH5 ARUN160LTH5	ARUN180LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5
Capacity	*Cooling (Rated)	RT	2	2	2
		kW	25.4	27.0	28.6
		Btu/h	89.6	95.2	100.8
	**Cooling (Rated)	RT	305,700	324,800	343,900
		kW	22.9	23.8	25.1
		Btu/h	80.6	83.9	88.3
	Heating (Rated)	RT	275,000	286,300	301,300
		kW	28.4	30.3	32.1
		Btu/h	100.0	106.7	113.0
Input	*Cooling (Rated)	kW	341,200	364,100	385,600
	**Cooling (Rated)	kW	21.60	22.00	23.80
	Heating (Rated)	kW	26.30	27.54	28.92
COP	Heating (Rated)	kW	22.72	23.34	26.88
	*Cooling (Rated)	kW	4.15	4.33	4.24
	**Cooling (Rated)	kW	3.06	3.05	3.05
Power Factor	Rated	kW	4.40	4.57	4.20
Casing	Color	-	0.93	0.93	0.93
Heat Exchanger	Color	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Compressor	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1 x 2	(62.1 x 2) + (43.8 x 1)	62.1 x 3
	Number of Revolution	rev/min	3,600 x 2	3,600 x 3	3,600 x 3
	Motor Output x Number	W x No.	5,300 x 2	(5,300 x 2) + (4,200 x 1)	5,300 x 3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 4	900 x 4	900 x 4
	Air Flow Rate(High)	m ³ /min	320 x 2	320 x 2	320 x 2
	External Static Pressure (Max. Pa)	ft ³ /min	11,301 x 2	11,301 x 2	11,301 x 2
	External Static Pressure (Max. Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
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
	inch		(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 2	(48-13/16 x 66-17/32 x 29-29/32) x 2
Net Weight	kg		221 x 2	(261 x 1) + (221 x 1)	(281 x 1) + (221 x 1)
	lbs		487 x 2	(575 x 1) + (487 x 1)	(619 x 1) + (487 x 1)
Sound Pressure Level	Cooling	dB(A)	63.5	63.8	64.3
	Heating	dB(A)	64.5	64.8	66.3
Sound Power Level	Cooling	dB(A)	86.0	87.1	87.8
	Heating	dB(A)	88.0	88.5	89.1
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 - 1.5	2C x 1.0 - 1.5	2C x 1.0 - 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0 + 13.0	13.0 + 13.0	14.0 + 13.0
		lbs	28.7 + 28.7	28.7 + 28.7	30.9 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			52	55	58

MULTI V 5

TROPICAL MODEL

STANDARD

ARUN380LTH5 / ARUN400LTH5 / ARUN420LTH5



HP	38		40		42	
Model Name	Combination Unit	ARUN400LTH5		ARUN420LTH5		
	Independent Unit	ARUN220LTH5 ARUN160LTH5		ARUN200LTH5 ARUN200LTH5		
Capacity	*Cooling (Rated)	RT	2	2	2	
		kW	30.2	31.8	33.4	
	**Cooling (Rated)	Btu/h	106.4	112.0	117.6	
		RT	363,000	382,100	401,300	
	Heating (Rated)	kW	25.5	27.3	27.7	
		Btu/h	89.9	96.0	97.6	
	Heating (Rated)	kW	306,600	327,600	332,900	
		Btu/h	33.9	35.8	37.6	
Input	*Cooling (Rated)	kW	119.3	126.0	132.3	
	**Cooling (Rated)	kW	407,100	429,900	451,400	
	Heating (Rated)	kW	25.64	26.00	27.84	
COP	*Cooling (Rated)	kW	29.87	31.54	32.49	
	**Cooling (Rated)	kW	28.90	31.04	33.06	
	Heating (Rated)	kW	4.15	4.31	4.22	
Power Factor	*Cooling (Rated)	kW	3.01	3.04	3.00	
	**Cooling (Rated)	kW	4.13	4.06	4.00	
	Heating (Rated)	kW	0.93	0.93	0.93	
Casing	Color	Warm Gray / Dawn Gray		Warm Gray / Dawn Gray		
Heat Exchanger	Type	Wide Louver Plus		Wide Louver Plus		
Compressor	Type	Hermetically Sealed Scroll		Hermetically Sealed Scroll		
	Piston Displacement	cm ³ /rev	62.1 x 3	62.1 x 4	62.1 x 4	
	Number of Revolution	rev/min	3,600 x 3	3,600 x 4	3,600 x 4	
	Motor Output x Number	W x No.	5,300 x 3	5,300 x 4	5,300 x 4	
	Starting Method		Direct On Line	Direct On Line	Direct On Line	
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	
Fan	Type	Propeller fan		Propeller fan		
	Motor Output x Number	W	900 x 4	900 x 4	900 x 4	
	Air Flow Rate(High)	m ³ /min	320 x 2	320 x 2	320 x 2	
	External Static Pressure (Max. Pa)		11,301 x 2	11,301 x 2	11,301 x 2	
	Drive		80	80	80	
	Discharge	Side / Top	DC INVERTER	DC INVERTER	DC INVERTER	
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 2		
	inch	(48-13/16 x 66-17/32 x 29-29/32) x 2		(48-13/16 x 66-17/32 x 29-29/32) x 2		
Net Weight	kg	(281 x 1) + (221 x 1)		281 x 2		
	lbs	(619 x 1) + (487 x 1)		619 x 2		
Sound Pressure Level	Cooling	dB(A)	66.0	65.0	66.4	
	Heating	dB(A)	67.0	67.5	68.0	
Sound Power Level	Cooling	dB(A)	87.8	89.0	89.0	
	Heating	dB(A)	89.8	90.0	90.5	
Communication Cable	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5		2C x 1.0 ~ 1.5		
Refrigerant	Refrigerant name	R410A		R410A		
	Precharged Amount in factory	kg	14.0 + 13.0	14.0 + 14.0	14.0 + 14.0	
	Control	lbs	30.9 + 28.7	30.9 + 30.9	30.9 + 30.9	
Power Supply	Control	Electronic Expansion Valve		Electronic Expansion Valve		
	Ø, V, Hz	380-415, 3, 50		380-415, 3, 50		
Number of Maximum Connectable Indoor Units		400, 3, 60		400, 3, 60		

TROPICAL MODEL

STANDARD

ARUN440LTH5 / ARUN460LTH5 / ARUN480LTH5



HP	44		46		48	
Model Name	Combination Unit	ARUN440LTH5		ARUN480LTH5		
	Independent Unit	ARUN220LTH5 ARUN220LTH5		ARUN160LTH5 ARUN160LTH5 ARUN140LTH5		
Capacity	*Cooling (Rated)	RT	2	3	3	
		kW	35.0	36.6	38.2	
	**Cooling (Rated)	Btu/h	123.2	128.8	134.4	
		RT	420,400	439,500	458,600	
	Heating (Rated)	kW	28.2	33.3	34.3	
		Btu/h	99.2	117.4	120.9	
	Heating (Rated)	kW	338,200	400,600	412,500	
		Btu/h	39.4	40.9	42.6	
Input	*Cooling (Rated)	kW	138.6	143.9	150.0	
	**Cooling (Rated)	kW	472,900	491,000	511,800	
	Heating (Rated)	kW	29.68	30.90	32.40	
COP	*Cooling (Rated)	kW	33.44	37.50	39.45	
	**Cooling (Rated)	kW	35.08	32.41	34.08	
	Heating (Rated)	kW	4.15	4.17	4.15	
Power Factor	*Cooling (Rated)	kW	2.97	3.13	3.06	
	**Cooling (Rated)	kW	3.95	4.44	4.40	
	Heating (Rated)	kW	0.93	0.93	0.93	
Casing	Color	Warm Gray / Dawn Gray		Warm Gray / Dawn Gray		
Heat Exchanger	Type	Wide Louver Plus		Wide Louver Plus		
Compressor	Type	Hermetically Sealed Scroll		Hermetically Sealed Scroll		
	Piston Displacement	cm ³ /rev	62.1 x 4	62.1 x 3	62.1 x 3	
	Number of Revolution	rev/min	3,600 x 4	3,600 x 3	3,600 x 3	
	Motor Output x Number	W x No.	5,300 x 4	5,300 x 3	5,300 x 3	
	Starting Method		Direct On Line	Direct On Line	Direct On Line	
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	
Fan	Type	Propeller fan		Propeller fan		
	Motor Output x Number	W	900 x 4	900 x 6	900 x 6	
	Air Flow Rate(High)	m ³ /min	320 x 2	320 x 3	320 x 3	
	External Static Pressure (Max. Pa)		11,301 x 2	11,301 x 3	11,301 x 3	
	Drive		80	80	80	
	Discharge	Side / Top	DC INVERTER	DC INVERTER	DC INVERTER	
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		
	inch	(48-13/16 x 66-17/32 x 29-29/32) x 2		(48-13/16 x 66-17/32 x 29-29/32) x 3		
Net Weight	kg	281 x 2		221 x 3		
	lbs	619 x 2		487 x 3		
Sound Pressure Level	Cooling	dB(A)	67.5	65.1	65.3	
	Heating	dB(A)	68.5	66.1	66.3	
Sound Power Level	Cooling	dB(A)	89.0	87.5	87.8	
	Heating	dB(A)	91.0	89.5	89.8	
Communication Cable	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5		2C x 1.0 ~ 1.5		
Refrigerant	Refrigerant name	R410A		R410A		
	Precharged Amount in factory	kg	14.0 + 14.0	13.0 + 13.0 + 13.0	13.0 + 13.0 + 13.0	
	Control	lbs	30.9 + 30.9	28.7 + 28.7 + 28.7	28.7 + 28.7 + 28.7	
Power Supply	Control	Electronic Expansion Valve		Electronic Expansion Valve		
	Ø, V, Hz	380-415, 3, 50		380-415, 3, 50		
Number of Maximum Connectable Indoor Units		400, 3, 60		400, 3, 60		

MULTI V 5

TROPICAL MODEL

STANDARD

ARUN500LTH5 / ARUN520LTH5 / ARUN540LTH5



HP			50	52	54
Model Name	Combination Unit		ARUN500LTH5	ARUN520LTH5	ARUN540LTH5
	Independent Unit		ARUN180LTH5 ARUN160LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5 ARUN160LTH5	ARUN220LTH5 ARUN160LTH5 ARUN160LTH5
Capacity	*Cooling (Rated)	RT	39.8	41.4	42.9
		kW	140.0	145.6	151.2
		Btu/h	477,700	496,800	515,900
	**Cooling (Rated)	RT	35.3	36.5	37.0
		kW	124.2	128.6	130.2
		Btu/h	423,800	438,800	444,200
	Heating (Rated)	RT	44.5	46.3	48.1
		kW	156.7	163.0	169.3
		Btu/h	534,700	556,200	577,700
	Input	*Cooling (Rated)	kW	32.80	34.60
**Cooling (Rated)		kW	40.69	42.07	43.02
Heating (Rated)		kW	34.70	38.24	40.26
COP	*Cooling (Rated)	kW	4.27	4.21	4.15
	**Cooling (Rated)	kW	3.05	3.06	3.03
	Heating (Rated)	kW	4.52	4.26	4.21
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	(62.1 x 3) + (43.8 x 1)	62.1 x 4	62.1 x 4
	Number of Revolution	rev/min	3,600 x 4	3,600 x 4	3,600 x 4
	Motor Output x Number	W x No.	(5,300 x 3) + (4,200 x 1)	5,300 x 4	5,300 x 4
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m ³ /min	320 x 3	320 x 3	320 x 3
		ft ³ /min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressure (Max. Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
Discharge		Side / Top	TOP	TOP	
Pipe Connctions	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
	inch		(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3
Net Weight	kg		(261 x 1) + (221 x 2)	(281 x 1) + (221 x 2)	(281 x 1) + (221 x 2)
	lbs		(575 x 1) + (487 x 2)	(619 x 1) + (487 x 2)	(619 x 1) + (487 x 2)
Sound Pressure Level	Cooling	dB(A)	65.4	65.8	67.0
	Heating	dB(A)	66.4	67.5	68.0
Sound Power Level	Cooling	dB(A)	88.5	89.0	89.0
	Heating	dB(A)	90.1	90.5	91.0
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0
		lbs	28.7 + 28.7 + 28.7	30.9 + 28.7 + 28.7	30.9 + 28.7 + 28.7
Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

TROPICAL MODEL

STANDARD

ARUN560LTH5 / ARUN580LTH5 / ARUN600LTH5



HP			56	58	60
Model Name	Combination Unit		ARUN560LTH5	ARUN580LTH5	ARUN600LTH5
	Independent Unit		ARUN200LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN200LTH5 ARUN160LTH5
Capacity	*Cooling (Rated)	RT	44.5	46.1	47.7
		kW	156.8	162.4	168.0
		Btu/h	535,000	554,100	573,200
	**Cooling (Rated)	RT	38.7	39.2	39.6
		kW	136.3	137.9	139.5
		Btu/h	465,100	470,500	476,000
	Heating (Rated)	RT	50.0	51.8	53.6
		kW	176.0	182.3	188.6
		Btu/h	600,500	622,000	643,500
	Input	*Cooling (Rated)	kW	36.80	38.64
**Cooling (Rated)		kW	44.69	45.64	46.59
Heating (Rated)		kW	42.40	44.42	46.44
COP	*Cooling (Rated)	kW	4.26	4.20	4.15
	**Cooling (Rated)	kW	3.05	3.02	2.99
	Heating (Rated)	kW	4.15	4.10	4.06
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm 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
	Piston Displacement	cm ³ /rev	62.1 x 5	62.1 x 5	62.1 x 5
	Number of Revolution	rev/min	3,600 x 5	3,600 x 5	3,600 x 5
	Motor Output x Number	W x No.	5,300 x 5	5,300 x 5	5,300 x 5
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m ³ /min	320 x 3	320 x 3	320 x 3
		ft ³ /min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressure (Max. Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
Discharge		Side / Top	TOP	TOP	
Pipe Connctions	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
	inch		(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3
Net Weight	kg		(281 x 2) + (221 x 1)	(281 x 2) + (221 x 1)	(281 x 2) + (221 x 1)
	lbs		(619 x 2) + (487 x 1)	(619 x 2) + (487 x 1)	(619 x 2) + (487 x 1)
Sound Pressure Level	Cooling	dB(A)	66.3	67.4	68.3
	Heating	dB(A)	68.5	68.9	69.3
Sound Power Level	Cooling	dB(A)	90.0	90.0	90.0
	Heating	dB(A)	91.2	91.6	92.0
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0
		lbs	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7
Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

MULTI V 5

TROPICAL MODEL

STANDARD

ARUN620LTH5 / ARUN640LTH5 / ARUN660LTH5



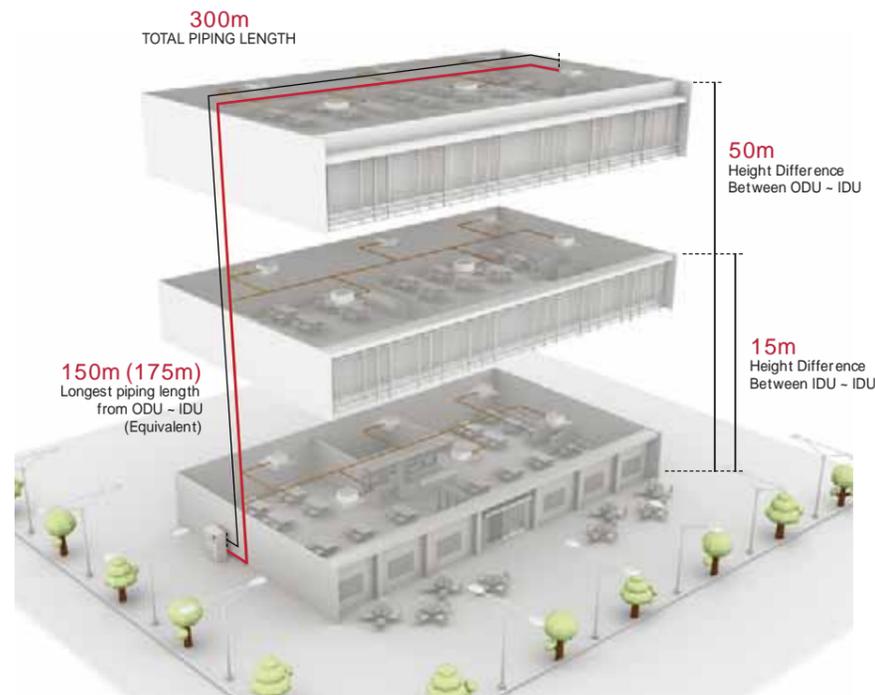
HP			62	64	66
Model Name	Combination Unit		ARUN620LTH5	ARUN640LTH5	ARUN660LTH5
	Independent Unit		ARUN220LTH5 ARUN200LTH5 ARUN200LTH5	ARUN220LTH5 ARUN200LTH5 ARUN200LTH5	ARUN220LTH5 ARUN200LTH5 ARUN200LTH5
Capacity	*Cooling (Rated)	RT	49.3	50.9	52.5
		kW	173.6	179.2	184.8
		Btu/h	592,300	611,400	630,500
	**Cooling (Rated)	RT	41.4	41.8	42.3
		kW	145.6	147.2	148.8
		Btu/h	496,800	502,200	507,700
	Heating (Rated)	RT	55.5	57.3	59.0
		kW	195.3	201.6	207.9
		Btu/h	666,400	687,900	709,400
	Input	*Cooling (Rated)	kW	40.84	42.68
**Cooling (Rated)		kW	48.26	49.21	50.16
Heating (Rated)		kW	48.58	50.60	52.62
COP	*Cooling (Rated)	kW	4.25	4.20	4.15
	**Cooling (Rated)	kW	3.02	2.99	2.97
	Heating (Rated)	kW	4.02	3.98	3.95
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
Compressor	Piston Displacement	cm ³ /rev	62.1 x 6	62.1 x 6	62.1 x 6
	Number of Revolution	rev/min	3,600 x 6	3,600 x 6	3,600 x 6
	Motor Output x Number	W x No.	5,300 x 6	5,300 x 6	5,300 x 6
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Fan	Type		Propeller fan	Propeller fan
Fan	Motor Output x Number	W	900 x 6	900 x 6	900 x 6
	Air Flow Rate(High)	m ³ /min	320 x 3	320 x 3	320 x 3
		ft ³ /min	11,301 x 3	11,301 x 3	11,301 x 3
	External Static Pressure (Max. Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
Pipe Connections	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	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
	inch		(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3	(48-13/16 x 66-17/32 x 29-29/32) x 3
Net Weight	kg		281 x 3	281 x 3	281 x 3
	lbs		619 x 3	619 x 3	619 x 3
Sound Pressure Level	Cooling	dB(A)	67.8	68.6	69.3
	Heating	dB(A)	69.6	70.0	70.3
Sound Power Level	Cooling	dB(A)	90.8	90.8	90.8
	Heating	dB(A)	92.1	92.5	92.8
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0
		lbs	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9
Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	Ø, V, Hz		380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of Maximum Connectable Indoor Units			64	64	64

NOTES

- Capacities are based on the following conditions (ISO 15042)
 - Cooling Temperature :
 - *Cooling (T1) : Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB
Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F)
 - **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB
Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB
 - Heating Temperature :
 - Indoor 20°C(68°F) DB / 15°C(59°F) WB
 - Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Height difference between outdoor unit and indoor unit : 0m
- The Maximum combination ratio is 130%.
- 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.
- Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- Power factor could vary less than ±1% according to the operating conditions.
- Due to our policy of innovation some specifications may be changed without notification.

MULTI V S

Piping Length

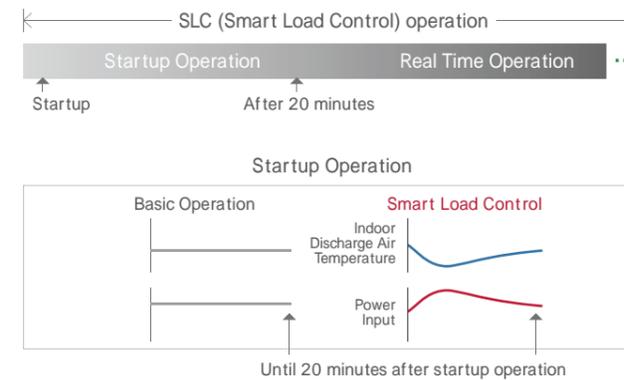


Total Piping Length	300m
Longest piping length (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU - IDU	50m
Height difference between IDU - IDU	15m

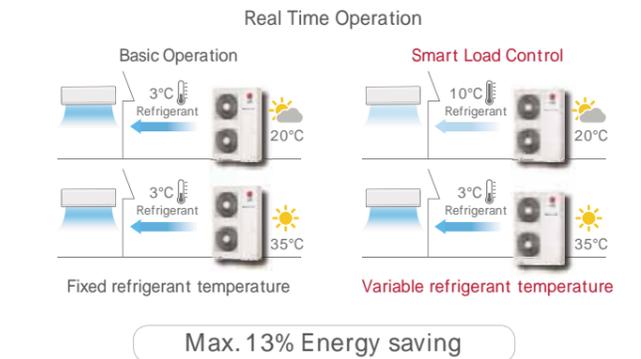
Smart Load Control Applied

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

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



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



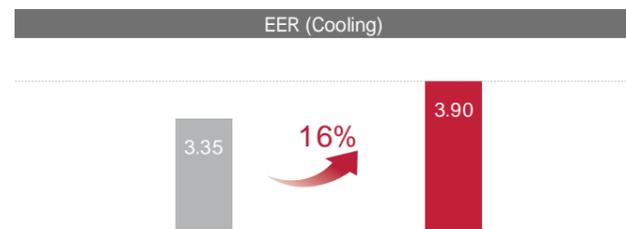
How to set up: By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.

* ESEER (European seasonal energy efficiency Ratio) conditions based on 15.5kw unit
 - Outdoor temperature condition :
 EER 100% / 75% / 50% / 25% = 35 (DB) / 30 (DB) / 25 (DB) / 20 (DB)
 - Indoor temperature condition : 27°C(DB) / 19°C(WB)
 * Dual sensing (Temperature & humidity) smart load control is possible with Remote controller PTMTB100 (White) / PREMTBB10 (Black)

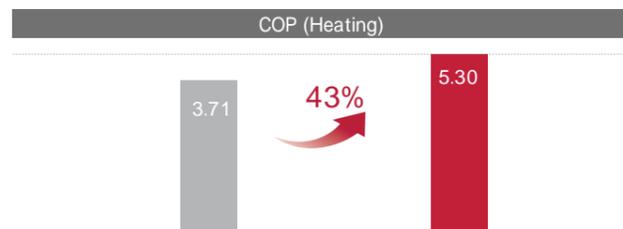
EER/COP/Part load

Saving Energy Cost with High Efficient Product

Heat Pump



* Comparison Based on 15.5kW in cooling mode

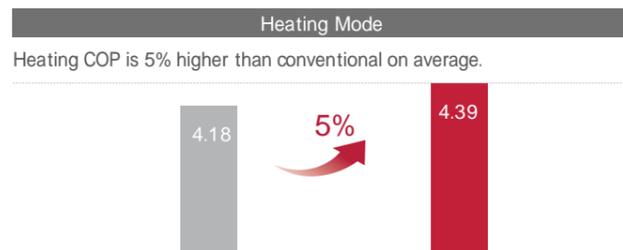


* Comparison Based on 15.5kW in heating mode

Heat Recovery



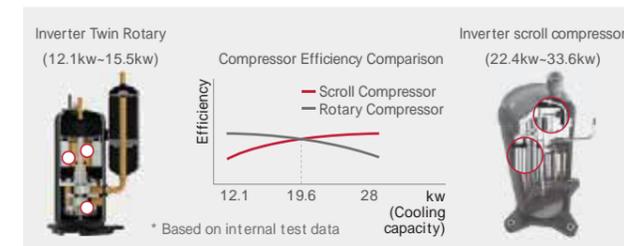
* Comparison Based on 15.5kW in cooling mode



* Comparison Based on 15.5kW in heating mode

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted High Efficient Compressor according to Capacity



Inverter Twin Rotary

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

Twin Rotary Rotor

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

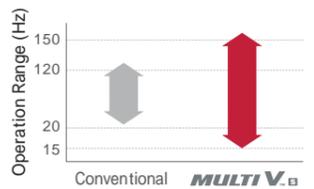
Surface Coating

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

Inverter Scroll Compressor

World Best Class Compressor Speed

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



6 By-pass Valve

Compressor reliability is maximized with

6 By-pass Valve

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

Direct Oil Injection

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

Scroll Profile

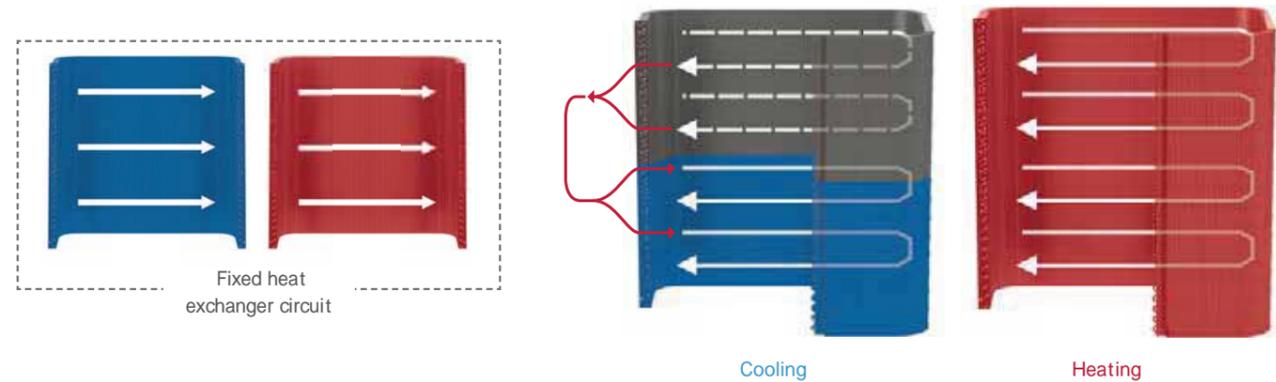
- The enhanced reliability by increasing the thickness of scroll central part within largest pressure
- Efficiency increases by expanding 96% bypass area and 17% improved volume ratio by non uniform scroll thickness

MULTI V S

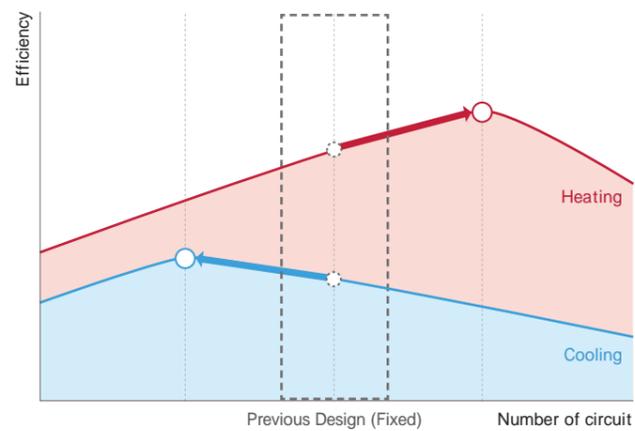
Optimal Heat Exchanger

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

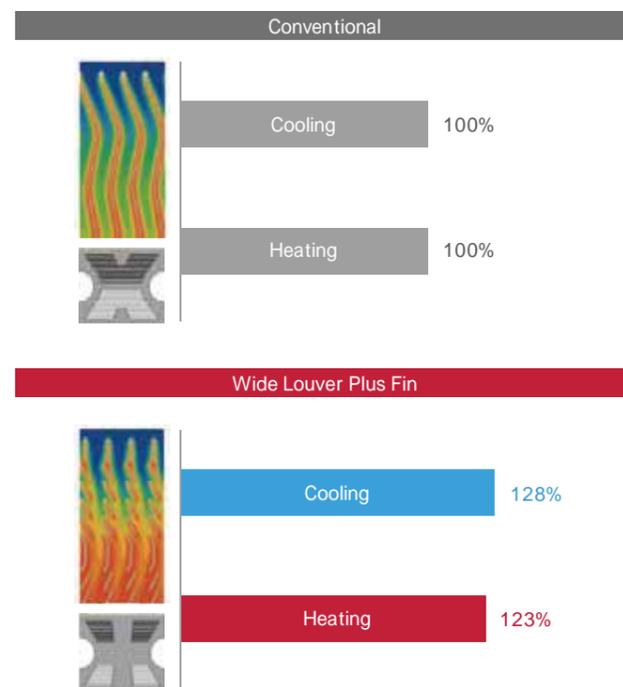
Variable Heat Exchanger Circuit intelligently selects the optimal path for both heating and cooling operations. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved. The paths number and circuit velocity are adjusted to match temperatures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



Efficiency performance



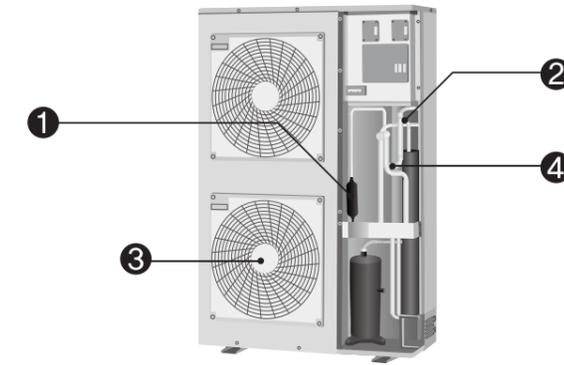
Efficiency up due to Fin shape



High Reliability of Refrigerant Components

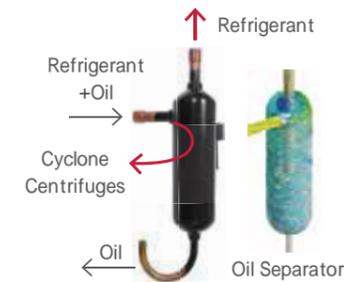
Superior Performance and Strong Durable Components are developed by LG's technologies

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



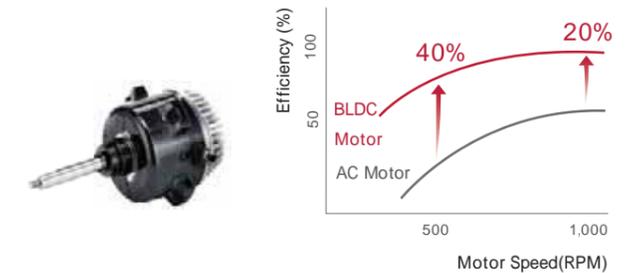
Cyclonic Oil Separator

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



BLDC Fan Motor

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



Large Volume Accumulator

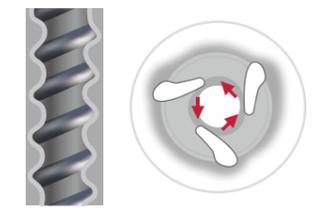
- Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction
- Maximize efficiency by optimal amount of refrigerant
- Protect compressor break down and increase life time



Double Sub-cool Interchanger

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

* Based on equivalent pipe length



MULTI V S

Smart Control

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

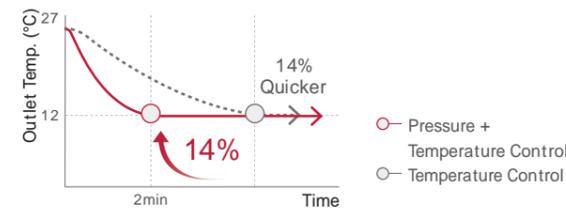
Temperature + Pressure Control

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



Quick Operating Response

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



* Specifications may vary for each model.

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

Strong Durability against high salinity and heavily polluted air

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



Corrosion Resistance Proven by Certified Tests

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

Certified protection



* Test Method B Simulation Validated (Test condition: Salt contaminated condition + severe industrial/traffic environment (NO₂/SO₂))
* Based on 1,500 UL test hours

Condition of salt spray test

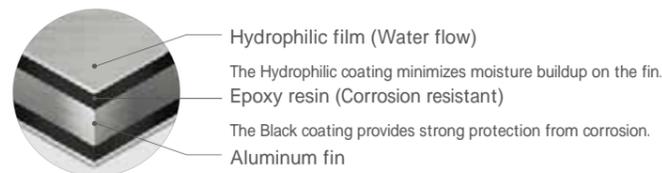
Temperature	35°C
Mist of 5% sodium chloride solution	

Condition of gas exposure test

R.H.	NO ₂	SO ₂
95%	10 x 10 ⁻⁵	5 x 10 ⁻⁶

Enhanced Coating Layers

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

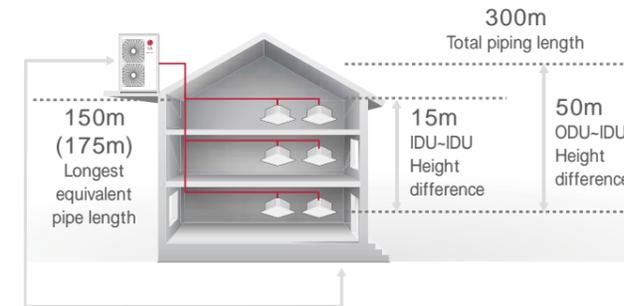


Sufficient Pipe length Limit

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

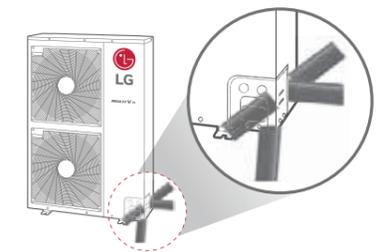
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

Piping Capabilities



4 Way Piping

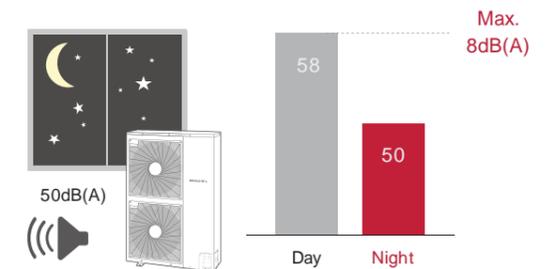
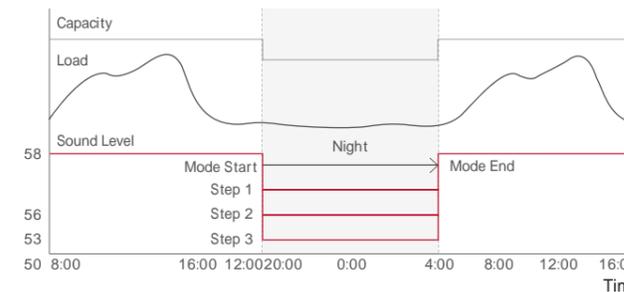
- Free design and installation by 4 way piping.



Low Noise Operation

Free from noise at any time with low noise operation function

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



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

OUTDOOR UNITS
INDOOR UNITS
HOT WATER SOLUTION
VENTILATION SOLUTIONS
CONTROL SOLUTIONS
ACCESSORIES

MULTI V S

Fan Technology and RPM control

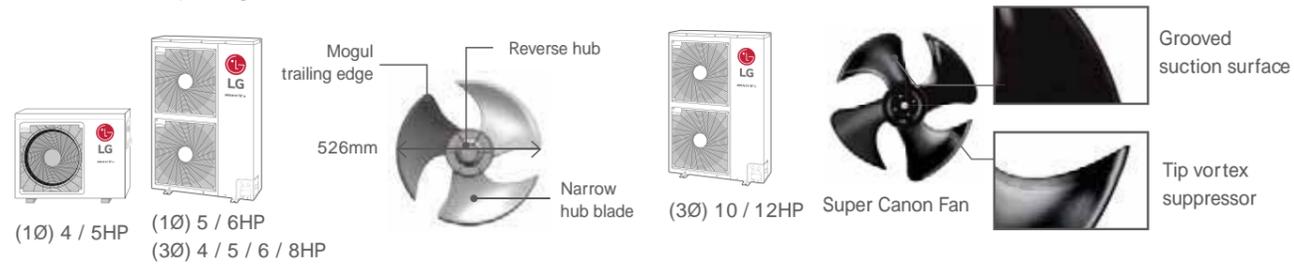
External static pressure control for outdoor unit fan to adapt more flexibly to various installation conditions of outdoor units

For efficient operation, newly developed fan blows higher air volume and has more high static pressure, also operating noise is decreased.

Fan Technology

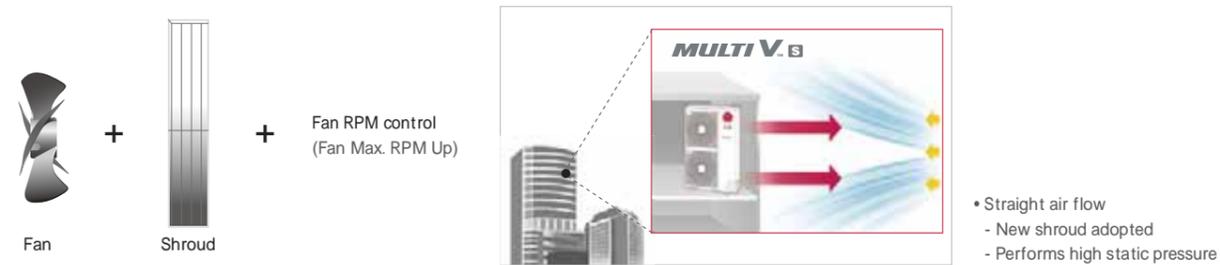
The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

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



Fan RPM control

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



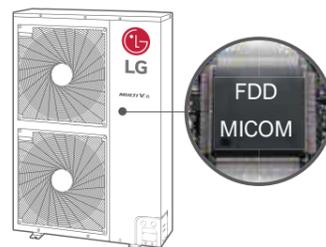
* E.S.P : External Static Pressure

Upgraded Fault Detection and Diagnosis

Easy and convenient maintenance with self-diagnosis

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

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



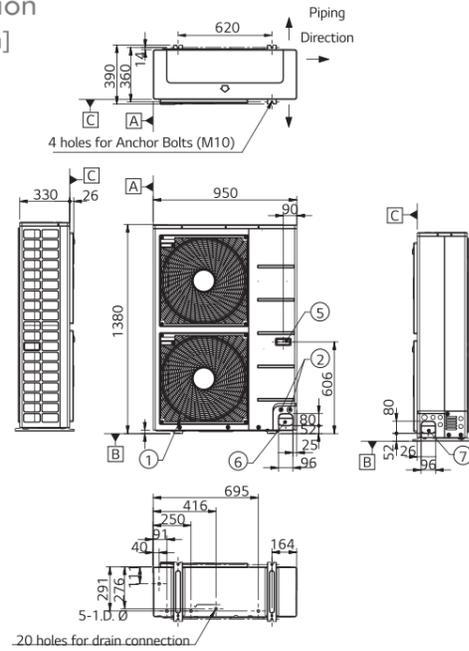
Outside Unit Function

Category	Functions	MULTI V S	
Key Refrigerant Components	Variable Path of Outdoor Units HEX	-	
	HiPOR™ (High Pressure Oil Return)	-	
	Humidity Sensor	-	
	Anti Corrosion Black Fin	-	
	Oil Sensor	-	
Special Function	Dual Sensing	-	
	Low Noise Operation	-	
	High Static Mode of Outdoor Units Fan	-	
	Partial Defrosting	-	
	Auto Dust Cleaning of Outdoor Units (Fan reverse rotation)	-	
	Indoor Cooling Comfort Mode Based Outdoor Temperature	-	
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	-	
Basic Function	Outdoor Units Control Refer to Humidity	-	
	Defrost / Deicing	-	
	High Pressure Switch	-	
	Phase Protection	-	
	Restart Delay (3-minutes)	-	
	Self Diagnosis	-	
	Soft Start	-	
	Test Run Function	-	
	Central Controller	AC Ez (Simple Controller)	PQCSZ250S0
		AC Ez Touch	PACEZA000
AC Smart IV		PACS4B000	
AC Smart 5		PAC5A000	
ACP (Advanced Control Platform) IV		PACP4B000	
ACP (Advanced Control Platform) 5		PACP5A000	
AC Manager 5		PACM5A000	
BNU (Building Network Unit)	ACP Lonworks	PLNWKB000	
	ACP BACnet	PQNF17C0	
IO Module (ODU Dry Contact)		PVDSMN000	
PDI (Power Distribution Indicator)	Standard	PPWRDB000	
	Premium	PQNUD1S40	
Cool / Heat Selector		PRDSBM	
Cycle Monitoring Device	LGMV	PRCTILO	
	Mobile LGMV	PLGMVW100	
Additional kit	Refrigerant Charging Kit	(Logical operation) Not applied to ARUB06GSS4	
	Low Ambient Kit	-	
	Variable Water Flow Valve Control Kit	-	

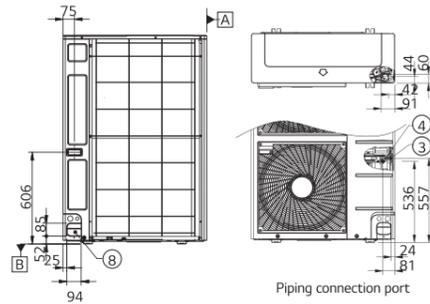
: Applied, - : Not Applied

MULTI V S

Dimension [Unit : mm]



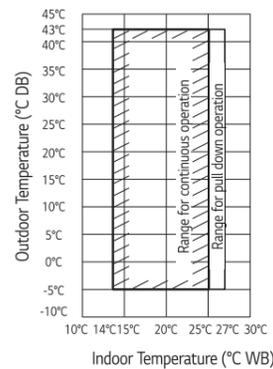
No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Welding joint
4	Liquid Pipe Connection	Welding joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-



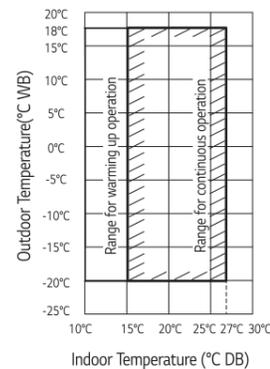
- Note
- Unit should be installed in compliance with the installation manual in the product box.
 - Unit should be grounded in accordance with the local regulation or applicable national codes.
 - All electrical components and materials to be supplied from the site must comply with the local regulations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

Heat Pump

Cooling



Heating



TROPICAL MODEL

HEAT PUMP

ARUN040LSH0 / ARUN050LSH0 / ARUN060LSH0



HP		4	5	6	
Model Name	Independent Unit	ARUN040LSH0	ARUN050LSH0	ARUN060LSH0	
Capacity (Rated) ¹⁾	*Cooling - T1 35°C	RT	3.2	4.0	4.4
		kW	11.2	14.0	15.5
	**Cooling - T3 46°C	Btu/h	38,200	47,800	52,900
		RT	2.7	3.4	3.8
	Heating	kW	9.5	11.9	13.2
		Btu/h	32,400	40,600	45,000
Input (Rated) ¹⁾	*Cooling - T1 35°C	RT	3.6	4.5	5.1
	**Cooling - T3 46°C	kW	12.5	16.0	18.0
	Heating	Btu/h	42,700	54,600	61,400
COP ¹⁾	*Cooling - T1 35°C	kW / kW	2.60	3.38	3.96
	**Cooling - T3 46°C	kW / kW	2.80	3.66	4.26
	Heating	kW / kW	2.75	3.52	4.09
Power Factor	Rated	-	0.93	0.93	0.93
Casing Color		Warm Gray	Warm Gray	Warm Gray	
Heat Exchanger		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	
Compressor	Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	
	Piston Displacement	cm ³ /rev	44.2	44.2	44.2
	Number of Revolution	rev/min	3,600	3,600	3,600
	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Starting Method	Inverter	Inverter	Inverter	Inverter
	Oil Type	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type	Propeller fan	Propeller fan	Propeller fan	
	Motor Output x Number	W	124 x 2	124 x 2	124 x 2
	Air Flow Rate (High)	m ³ /min	110	110	110
		ft ³ /min	3,885	3,885	3,885
Piping Connections	Drive	DC INVERTER	DC INVERTER	DC INVERTER	
	Discharge	Side / Top	Side	Side	Side
Dimensions (W x H x D)	Liquid	mm(inch)	∅ 9.52(3/8)	∅ 9.52(3/8)	∅ 9.52(3/8)
	Gas	mm(inch)	∅ 15.88(5/8)	∅ 15.88(5/8)	∅ 19.05(3/4)
Net Weight		mm	(950x1,380x330)	(950x1,380x330)	(950x1,380x330)
		inch	(37.4 x 54.3 x 13.0)	(37.4 x 54.3 x 13.0)	(37.4 x 54.3 x 13.0)
Sound Press Level	kg	kg	96	96	96
	lbs	lbs	212	212	212
Sound Power Level	Cooling	dB(A)	50.0	51.0	52.0
	Heating	dB(A)	52.0	53.0	54.0
Communication Cable	dB(A)	dB(A)	63	66	67
	No. x mm ² (VCTF-SB)	No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount	kg	3.0	3.0	3.0
		lbs	6.6	6.6	6.6
Power Supply	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	V, ∅, Hz	V, ∅, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
Number of Maximum Connectable Indoor Units	V, ∅, Hz	V, ∅, Hz	400, 3, 60	400, 3, 60	400, 3, 60
			6	8	9

- 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)
 - Heating Temperature : **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB / Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB
 - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Height difference between outdoor unit and indoor unit : 0m
- The Maximum combination ratio is 130%.
 - 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.
 - Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
 - Power factor could vary less than ±1% according to the operating conditions.
 - Due to our policy of innovation some specifications may be changed without notification.

MULTI V S

TROPICAL MODEL

HEAT PUMP

ARUN080LSH0 / ARUN100LSH0



HP			8	10
Model Name	Independent Unit		ARUN080LSH0	ARUN100LSH0
Capacity (Rated) ¹⁾	*Cooling - T1 35°C	RT	6.4	8.0
		kW	22.4	28.0
		Btu/h	76,400	95,900
	**Cooling - T3 46°C	RT	5.4	7.1
		kW	19.0	25.0
		Btu/h	64,900	85,300
Heating	RT	7.2	9.0	
	kW	25.2	31.5	
	Btu/h	86,000	107,500	
Input (Rated) ¹⁾	*Cooling - T1 35°C	kW	5.60	7.09
	**Cooling - T3 46°C	kW	5.94	7.94
	Heating	kW	5.86	7.41
COP ¹⁾	*Cooling - T1 35°C	kW / kW	4.00	3.95
	**Cooling - T3 46°C	kW / kW	3.20	3.15
	Heating	kW / kW	4.30	4.25
Power Factor	Rated	-	0.93	0.93
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600
	Motor Output x Number	W x No.	5,300 x 1	5,300 x 1
	Starting Method		Inverter	Inverter
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan
	Motor Output x Number	W	250 x 2	251 x 2
	Air Flow Rate (High)	m ³ /min	190	190
		ft ³ /min	6,707	6,707
	Drive		DC INVERTER	DC INVERTER
Piping Connections	Discharge	Side / Top	Side	Side
	Liquid	mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)
	Gas	mm(inch)	Ø 19.05(3/4)	Ø 22.2(7/8)
Dimensions (W x H x D)	mm		(1,090 x 1,625 x 380)	(1,090 x 1,625 x 380)
	inch		(42.9 x 64.0 x 15.0)	(42.9 x 64.0 x 15.0)
Net Weight	kg		144	144
	lbs		317	317
Sound Press Level	Cooling	dB(A)	57.0	58.0
	Heating	dB(A)	57.0	58.0
Sound Power Level		dB(A)	68	69
Communication Cable	No. x mm ² (VCTF-SB)		2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount	kg	4.5	4.5
		lbs	9.9	9.9
Control			Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	V, Ø, Hz		380-415, 3, 50	380-415, 3, 50
	V, Ø, Hz		400, 3, 60	400, 3, 60
Number of Maxmum Connectable Indoor Units			13	16

- Note : 1. Capacities are based on the following conditions (ISO 15042)
- Cooling Temperature : *Cooling (T1) : Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB / Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F)
 - **Cooling (T3) : Indoor Temperature 29°C(84.2°F) DB/19°C(66.2°F) WB / Outdoor Temperature 46°C(114.8°F) DB/24°C(75.2°F) WB
 - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Height difference between outdoor unit and indoor unit : 0m
2. The Maximum combination ratio is 130%.
3. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
4. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
5. Power factor could vary less than ±1% according to the operating conditions.
6. Due to our policy of innovation some specifications may be changed without notification.

INDOOR UNITS

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



WALL MOUNTED UNIT



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 Unit	Artcool Mirror	Artcool Gallery	Standard
Smart	Wi-Fi			
Energy Efficiency	Energy Display			
Fast Cooling & Heating	Jet Cool			
	Auto Swing (up & down)			
Health	Ionizer			
	Pre Filter			
	Auto Cleaning			
Comfort	Sleep Mode			
	Timer (on / off)			
	Timer (weekly)			
	Two Thermistor Control			
	Group Control			

: Applied, - : Not applied

Wi-Fi Control

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

LG SmartThinQ

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

Integrated Home Appliances Control
Control / Monitor all your LG appliances from one place.



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



Easy Registration and Log-in

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



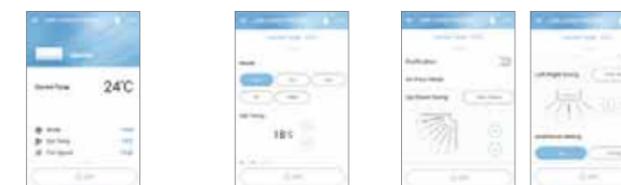
Wi-Fi Connectivity

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



* Can be controlled by multiple users, but not simultaneously

Simple operation for various functions



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

Straight forward Management



Reservation Energy Monitoring Smart Diagnosis Filter Management

WALL MOUNTED UNIT

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

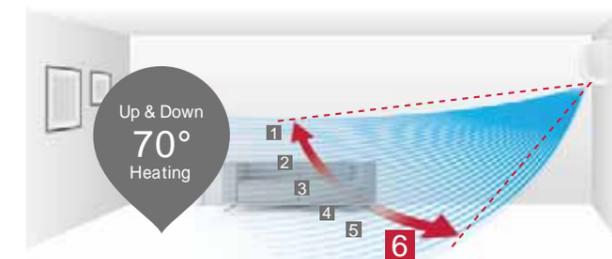
4 Way Swing

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°

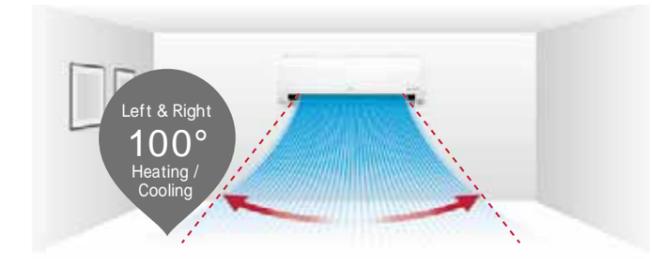
The vertical vane, which moves up and down, has 6 different settings including full swing.



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

Control up to 100°

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 LG ThinQ Wi-Fi app.



Up/Down Swing

Jet Cool

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

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

One Click "Jet Mode"

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



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.



WALL MOUNTED UNIT

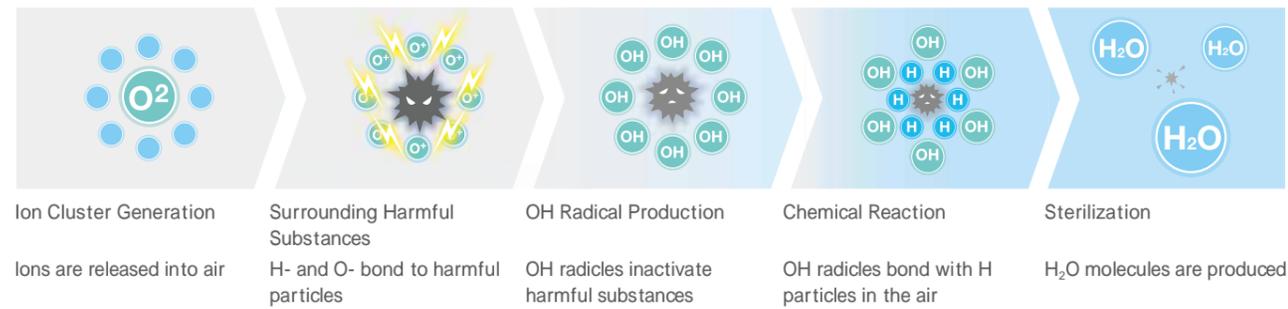
Ionizer PLUS

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

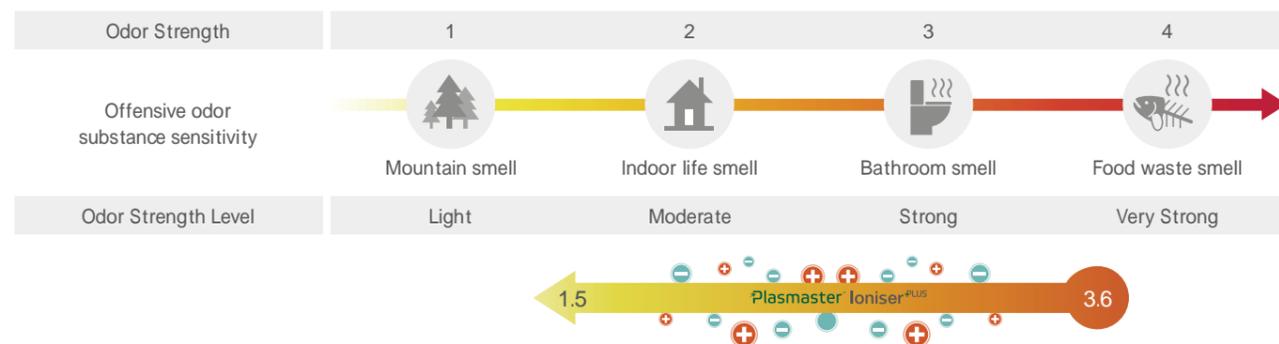
Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



* 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.

Auto Cleaning

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

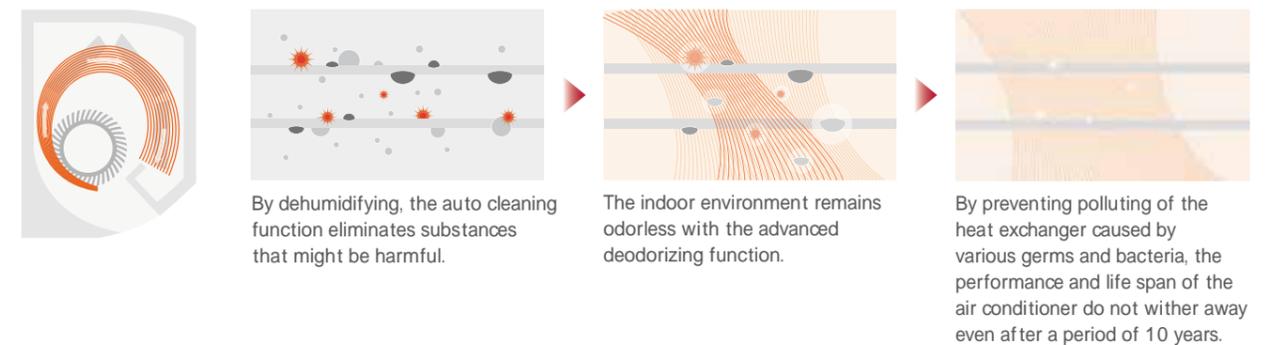
Pain Point

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.

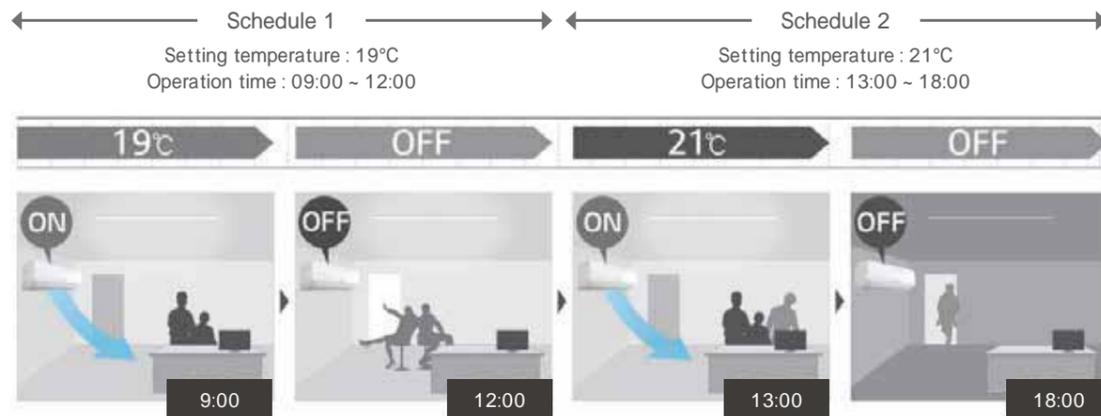


WALL MOUNTED UNIT

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.



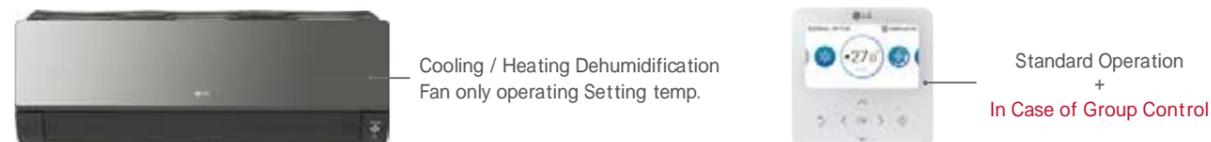
Two Thermistors Control

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 optimise indoor air temperature for a more comfortable environment.



Group Control

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

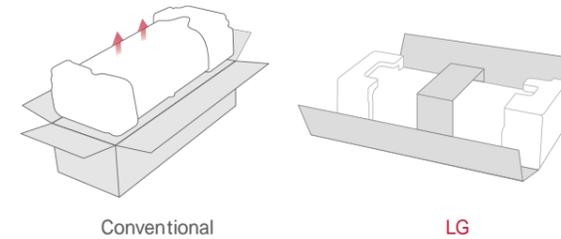


Quick & Easy Installation

LG air conditioner is designed for an easy and efficient installation, making possible to install several units in a short period of time

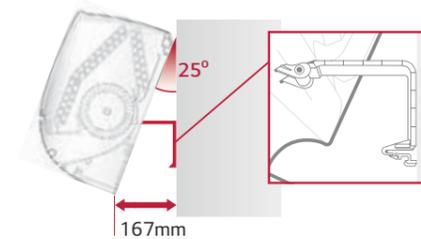
* Specifications may vary for each model.

One Simple Packing Box



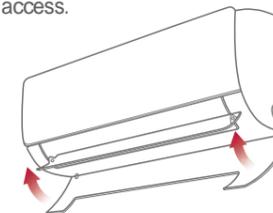
Installation Support Clip

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



Detachable Bottom Cover

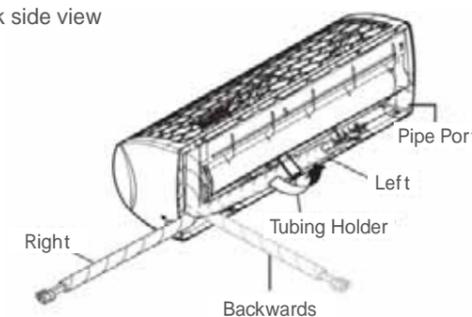
The air conditioner's bottom cover is detachable for easier installation and access.



3 Way Flexible Installation

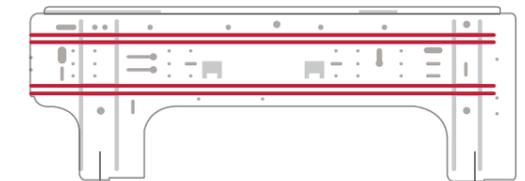
It is possible to install and connect the outdoor unit in 3 different ways (Left, Right, Back).

Back side view



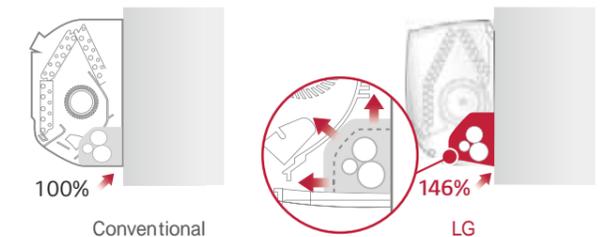
Installation Plate Improvement

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



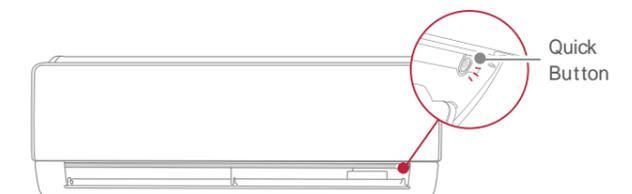
Wider Tubing Space

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



Quick button for running test

The test button is conveniently located and easy to find.



ARTCOOL MIRROR

ARNU05GSJR4 / ARNU07GSJR4 / ARNU09GSJR4
ARNU12GSJR4 / ARNU15GSJR4



Model	Unit	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4	
Cooling Capacity	kW	1.6	2.2	2.8	3.6	4.5	
Heating Capacity	kW	1.8	2.5	3.2	4.0	5.0	
Power Input (H / M / L)	Nominal W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11	
Exterior Color		Mirror(Black)	Mirror(Black)	Mirror(Black)	Mirror(Black)	Mirror(Black)	
RAL Code		RAL 9005	RAL 9005	RAL 9005	RAL 9005	RAL 9005	
Dimensions (W x H x D)	Body	mm	837 x 308 x 192				
	Shipping	mm	909 x 383 x 256				
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	
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)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	
Weight	Body	kg	9.2	9.2	9.2	9.2	
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C				

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU05GSJR4	ARNU07GSJR4	ARNU09GSJR4	ARNU12GSJR4	ARNU15GSJR4
Drain Pump					
Cassette Cover					
Refrigerant Leakage Detector			PRLDNVS0		
EEV Kit			PRGK024A0		
Independent Power Module			PRIP0		
Robot Cleaner					
Pre Filter (washable / anti-fungus)					
Ion Generator					
CO ₂ Sensor					
Ventilation Kit					
IR Receiver					
Zone Controller					
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)					
Wi-Fi					

: Applied, - : Not applied

Option : Refer to model name in table

ARNU18GSKR4 / ARNU24GSKR4



Model	Unit	ARNU18GSKR4	ARNU24GSKR4	
Cooling Capacity	kW	5.6	7.1	
Heating Capacity	kW	6.3	7.5	
Power Input (H / M / L)	Nominal W	32 / 26 / 16	39 / 26 / 16	
Exterior Color		Mirror(Black)	Mirror(Black)	
RAL Code		RAL 9005	RAL 9005	
Dimensions (W x H x D)	Body	mm	998 x 345 x 212	
	Shipping	mm	1,080 x 422 x 281	
Fan	Type		Cross Flow Fan	
	Motor Output x Number	W x No.	58 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	14.0 / 12.0 / 10.5	
	Motor type		BLDC	
Air Filter			Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16(5/8)	Ø16(5/8)
Weight	Body	kg	13.4	13.4
Sound Pressure Levels (H / M / L)		dB(A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)		dB(A)	63 / 57 / 54	65 / 60 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU18GSKR4	ARNU24GSKR4
Drain Pump		
Cassette Cover		
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		
Pre Filter (washable / anti-fungus)		
Ion Generator		
CO ₂ Sensor		
Ventilation Kit		
IR Receiver		
Zone Controller		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) 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
Heating Capacity	kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12
	W			
Dimensions (W x H x D)	Body	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
	Shipping	685 x 670 x 215	685 x 670 x 215	685 x 670 x 215
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Motor type	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12(15/32)	Ø12(15/32)
Weight	Body	kg	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	38 / 32 / 27	44 / 38 / 32
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 41	54 / 46 / 38
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
		1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump		-	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		-	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) 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

STANDARD

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



Model	Unit	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4	
Cooling Capacity	kW	1.6	2.2	2.8	3.6	4.5	
Heating Capacity	kW	1.8	2.5	3.2	4.0	5.0	
Power Input (H / M / L)	Nominal	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11	
	W						
Exterior Color		White	White	White	White	White	
RAL Code		RAL 9016	RAL 9016	RAL 9016	RAL 9016	RAL 9016	
Dimensions (W x H x D)	Body	mm	818 x 316 x 189				
	Shipping	mm	892 x 381 x 249				
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	
	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)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	
Weight	Body	kg	8.4	8.4	8.4	8.4	
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	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	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'

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

Accessories

Chassis	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump					
Cassette Cover					
Refrigerant Leakage Detector			PRLDNVS0		
EEV Kit			PRGK024A0		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (washable / anti-fungus)			-		
Ion Generator			-		
CO ₂ Sensor			-		
Ventilation Kit			-		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)					
Wi-Fi					

: Applied, - : Not applied

Option : Refer to model name in table

STANDARD

ARNU18GSK*4 / ARNU24GSK*4



Model	Unit	ARNU18GSK*4	ARNU24GSK*4
Cooling Capacity	kW	5.6	7.1
Heating Capacity	kW	6.3	7.5
Power Input (H / M / L)	Nominal W	32 / 26 / 16	39 / 26 / 16
Exterior Color		White	White
RAL Code		RAL 9016	RAL 9016
Dimensions (W x H x D)	Body mm	975 x 354 x 209	975 x 354 x 209
	Shipping mm	1,063 x 420 x 274	1,063 x 420 x 274
Fan	Type	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number W x No.	58 x 1	58 x 1
	Air Flow Rate (H / M / L) m ³ /min	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5
	Motor type	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side mm (inch)	Ø6.35 (1/4)	Ø9.52(3/8)
	Gas Side mm (inch)	Ø12.7 (1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.) mm (inch)	Ø16(5/8)	Ø16(5/8)
Weight	Body kg	12.2	12.2
Sound Pressure Levels (H / M / L)	dB (A)	43 / 39 / 34	46 / 41 / 34
Sound Power Levels (H / M / L)	dB (A)	63 / 57 / 54	65 / 60 / 54
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
		1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D. : 'Internal Diameter'

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

Accessories

Chassis	ARNU18GSK*4	ARNU24GSK*4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		-
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		-
Wi-Fi		-

: Applied, - : Not applied

Option : Refer to model name in table

ARNU30GSVA4 / ARNU36GSVA4



Model	Unit	ARNU30GSVA4	ARNU36GSVA4
Cooling Capacity	kW	8.8	10.4
Heating Capacity	kW	9.4	10.8
Power Input (H / M / L)	Nominal W	54 / 43 / 31	85 / 51 / 36
Exterior Color		White	White
RAL Code		RAL 9016	RAL 9016
Dimensions (W x H x D)	Body mm	1,190 x 346 x 265	1,190 x 346 x 265
	Shipping mm	1,265 x 432 x 335	1,265 x 432 x 335
Fan	Type	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number W x No.	113 x 1	113 x 1
	Air Flow Rate (H / M / L) m ³ /min	23.0 / 20.0 / 17.0	26.0 / 23.0 / 19.0
	Motor type	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Side mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Drain Pipe (Internal Dia.) mm (inch)	Ø16(5/8)	Ø16(5/8)
Weight	Body kg	16.6	16.6
Sound Pressure Levels (H / M / L)	dB (A)	49 / 44 / 42	52 / 47 / 43
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
		1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D. : 'Internal Diameter'

Accessories

Chassis	ARNU30GSVA4	ARNU36GSVA4
Drain Pump		-
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVSO
EEV Kit		-
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		-
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) 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

ROUND CASSETTE



Features & Benefits

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

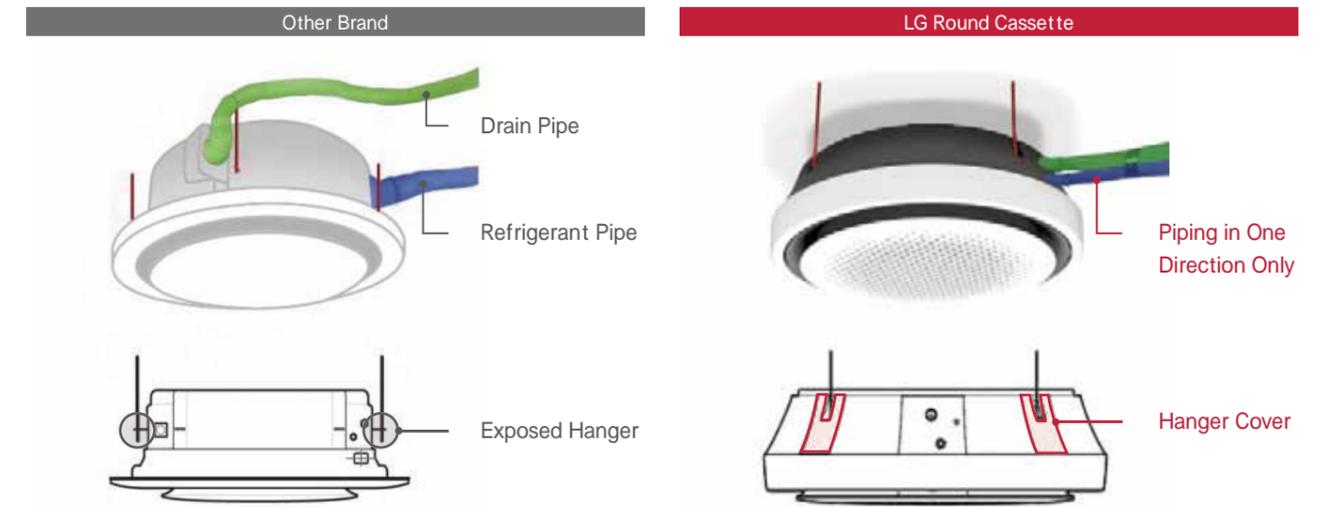
Key Applications

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

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)



Comfort

Perfect Round Flow

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



ROUND CASSETTE

Comfort

Visible, Intuitive Airflow

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

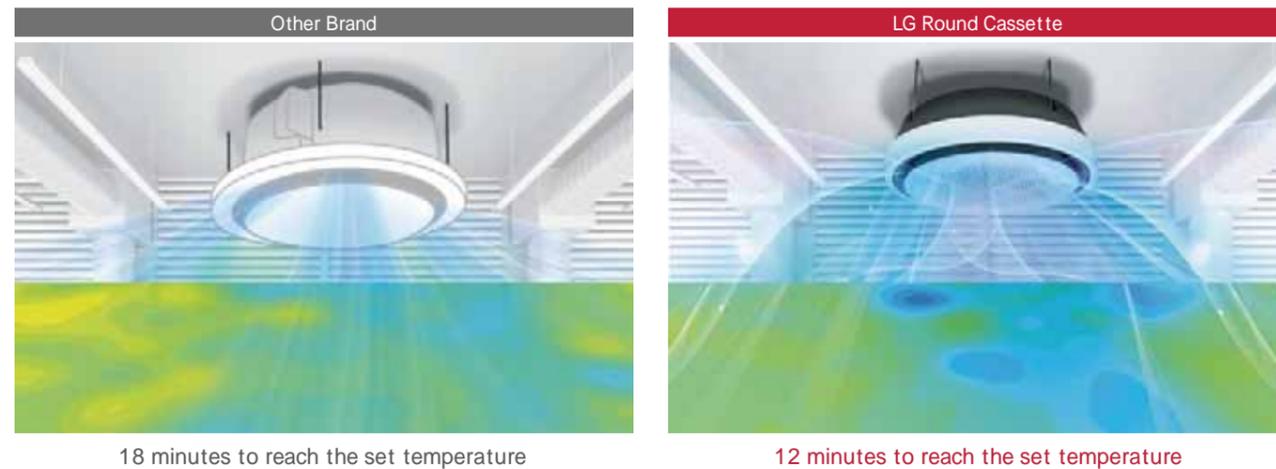


ARNU24GTYA4 / ARNU36GTYA4 / ARNU48GTYA4



30% Faster in Cooling

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



Model	Unit	ARNU24GTYA4	ARNU36GTYA4	ARNU48GTYA4
Cooling Capacity	kW	7.2	11.0	14.5
Heating Capacity	kW	8.1	12.4	16.3
Power Input	Nominal	55	90	120
	Rated	120	120	120
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
		1, 220, 60	1, 220, 60	1, 220, 60
AIR Flow rate	Cooling	m ³ /min (H / M / L) 22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
	Heating	m ³ /min (H / M / L) 22 / 21 / 19	27 / 24 / 21	32 / 28 / 23
Sound Pressure	dBA (H / M / L)	39 / 37 / 34	43 / 39 / 37	47 / 44 / 39
Sound Power	dBA (H / M / L)	Not confirmed	Not confirmed	Not confirmed
Dimensions (W x H x D)	Body	mm 1,050 x 330 x 1,050	1,050 x 330 x 1,050	1,050 x 330 x 1,050
Net Weight	Body	kg 30	30	30
Pipe Connections	Liquid Side	mm 9.52	9.52	9.52
	Gas Side	mm 15.88	15.88	15.88
	Drain Pipe	mm 32	32	32

* Available from June 2019
 * Panel integrated product
 * This product can only be installed on an open ceiling

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.



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	2 Way	1 Way
Smart	Wi-Fi			
Energy Efficiency	Human Detect Sensor			
Health	Auto Cleaning			
Comfort	Drain Pump			
	Sleep Mode			
	Timer (on / off)			
	Timer (weekly)			
	Two Thermistor Control			
	Group Control			

: Applied, - : Not applied

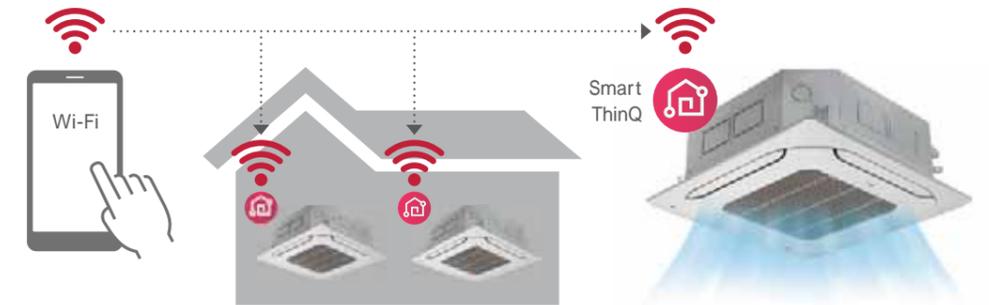
Wi-Fi Control

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

LG SmartThinQ

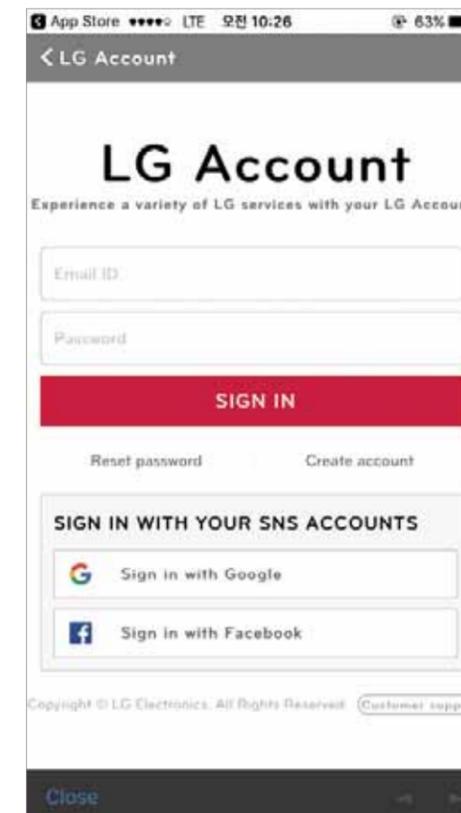
 Search "LG SmartThinQ" on Google market or Appstore then download the app.
LG SmartThinQ

Access your air conditioner anytime and from anywhere



Easy Registration and Log-in

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



Wi-Fi Connectivity

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

Multiple Devices



Multi-Control



CEILING MOUNTED CASSETTE

Human Detect Sensor & Humidity Sensor

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

Human detection sensor (PTVSM AO)

Apply human detect sensor
Apply vision sensor

- Saving energy
- Supply comfortable flow
- Sensor is optional accessory only can be applied to PT-MCHW0

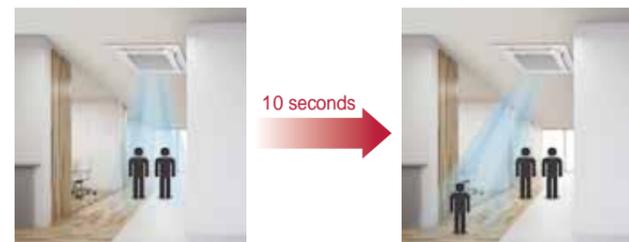
Humidity Sensor

Comfortable and Power Saving Control based on Humidity
Apply humidity sensor

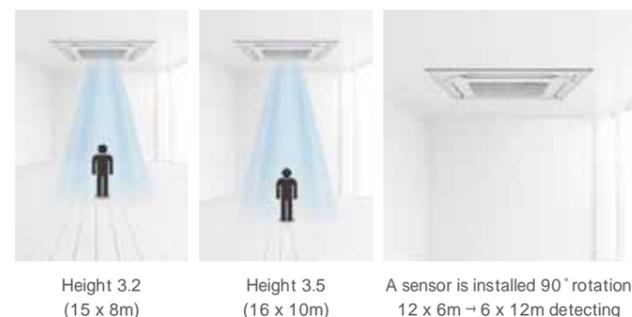
- Saving energy (To apply humidity sensor, new remote controller, PREMTB100 or PREMTBB10 is needed)

Direction control based on human motion

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



Detection range



On/Off mode

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

Sensing human body

Undetected

Sensing human body

Undetected

ON OFF ON OFF

Energy saving 囁 Energy saving 囁

Temperature control mode

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

Occupancy

Absence 30min

Absence 1hr

Absence 1.5hr

ON OFF ON OFF

Energy saving 囁 Energy saving 囁 Energy saving 囁

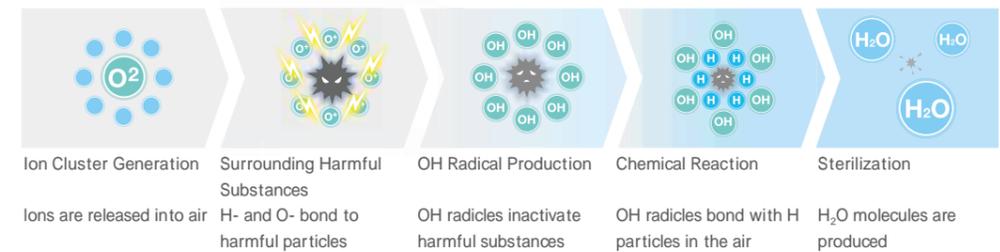
Ionizer PLUS

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.

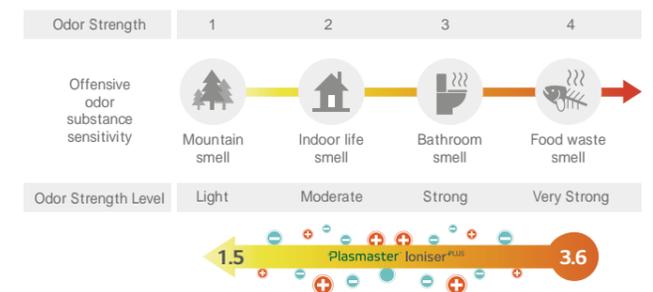
Sterilization and Deodorization (Utilizes Over 3 Million Ions)

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.



Auto Cleaning

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

* Specifications may vary for each model.

Cleans Filter with Regular Airflow

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

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

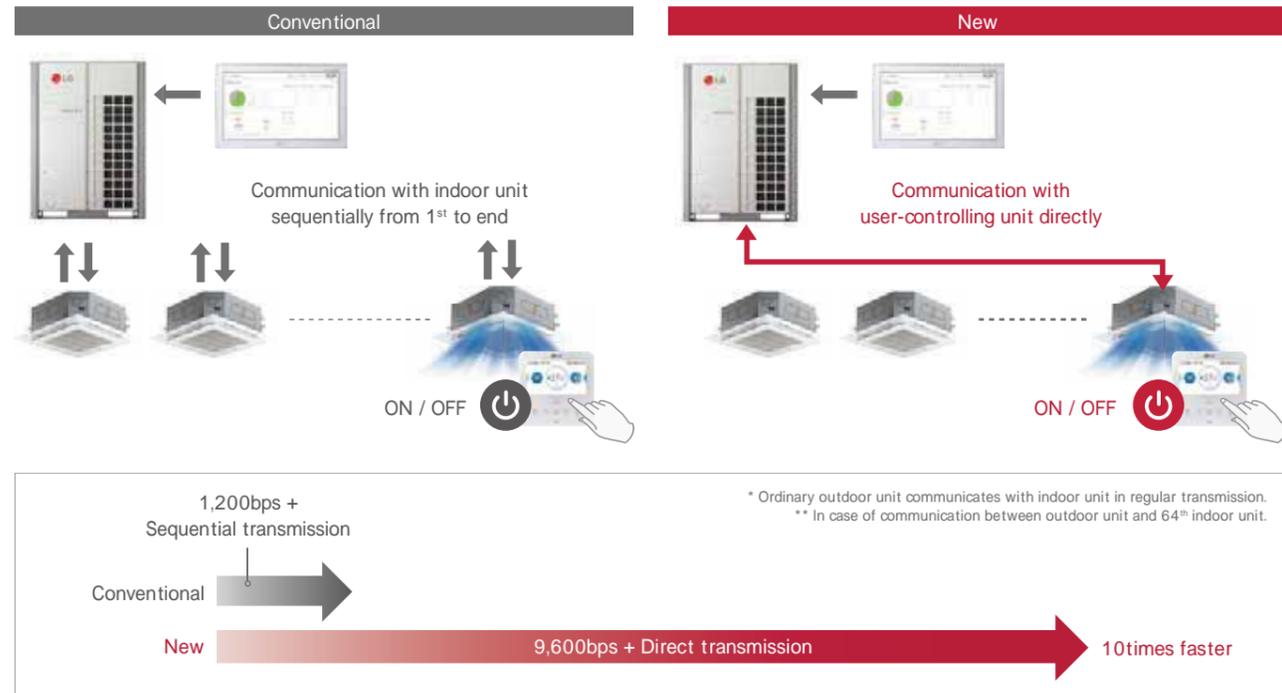
The indoor environment remains odorless with the advanced deodorizing function.

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

CEILING MOUNTED CASSETTE

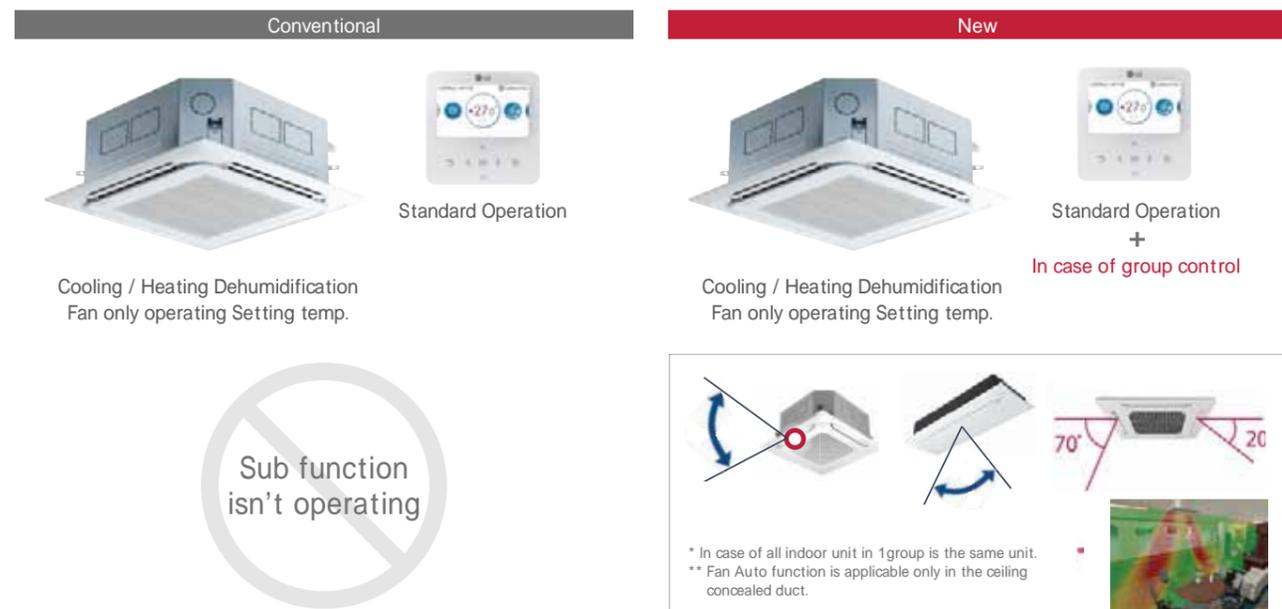
Quick Control

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



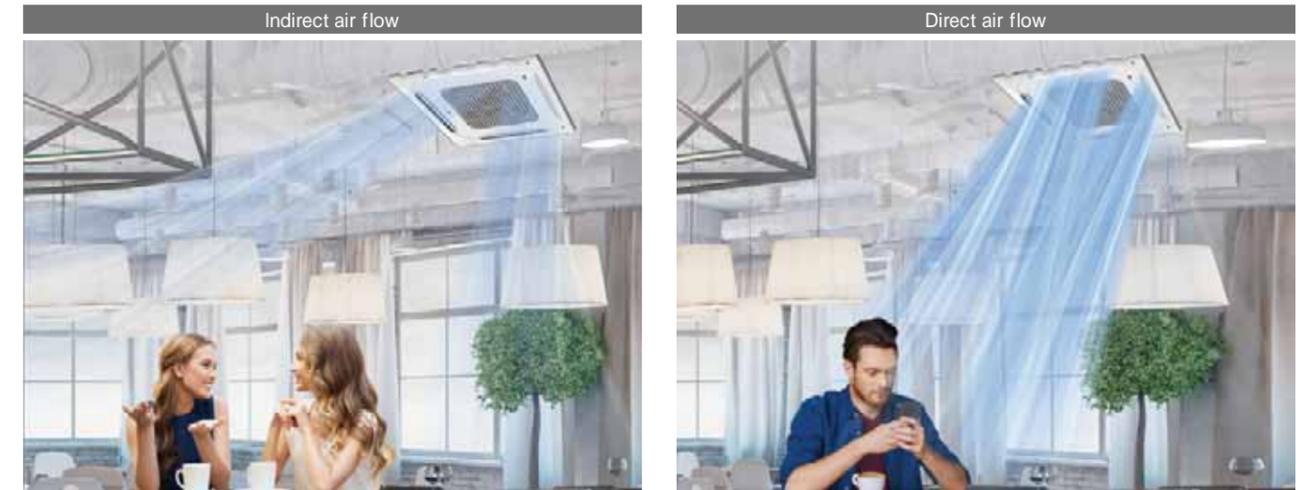
Group Control

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



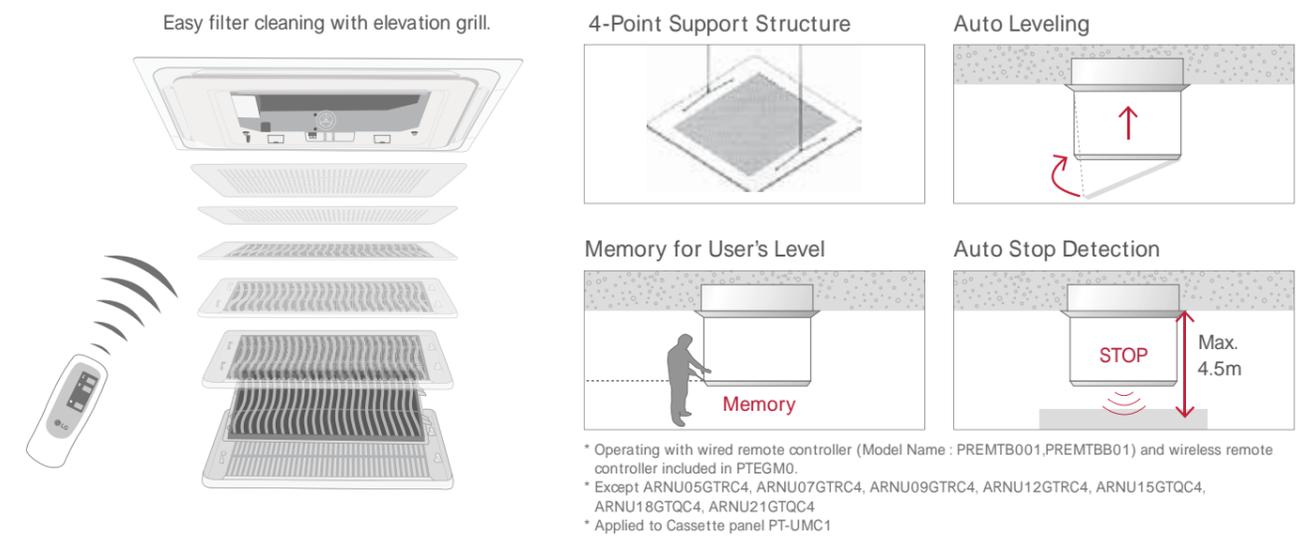
Independent Vane Control

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



Auto Elevation Grille

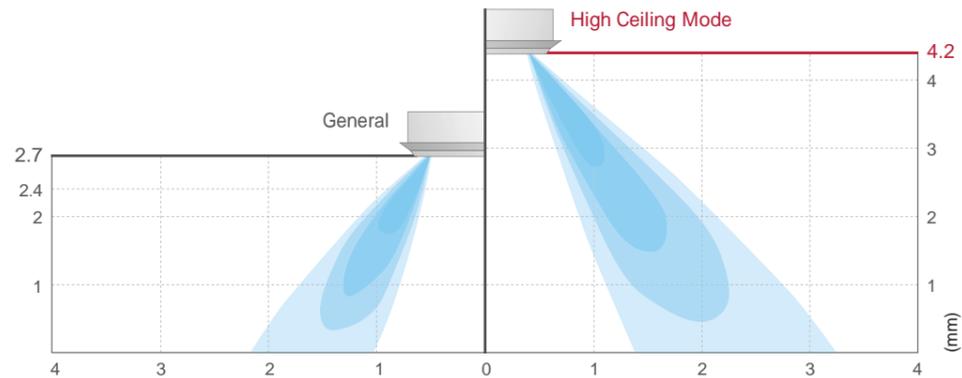
The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.



CEILING MOUNTED CASSETTE

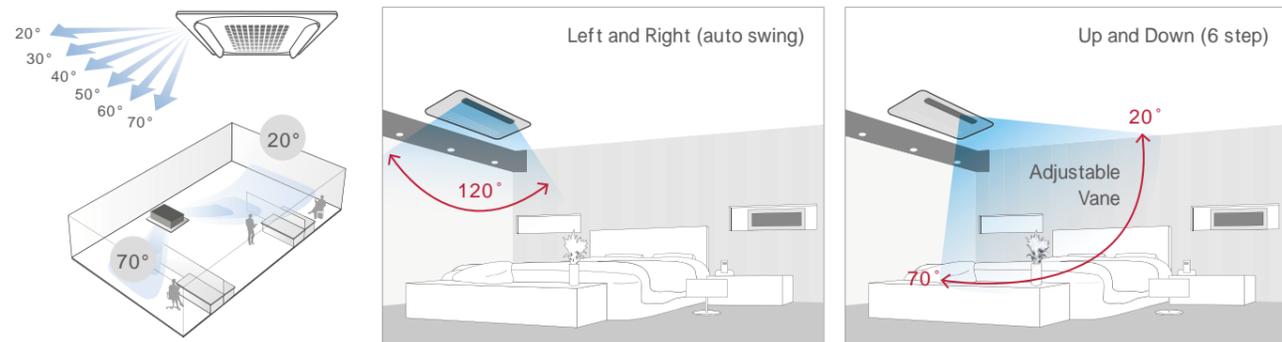
High Ceiling Mode

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



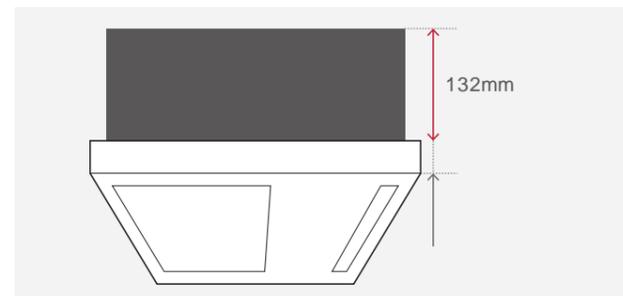
6-Step Vane Control

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



Minimized Height

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



Size Comparison

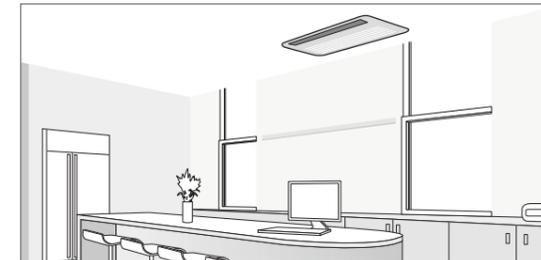
	A company	B company	LG
1 way cassette	215	230	132

(Unit : mm)

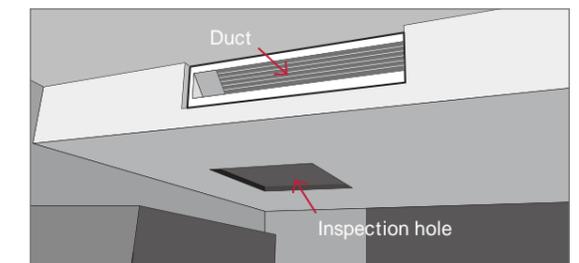
Flexible Installation

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

1 Way cassette

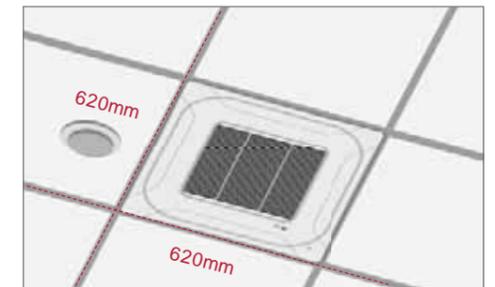


Duct



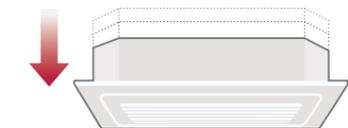
Compact and Stylish Design

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



Compact Size

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



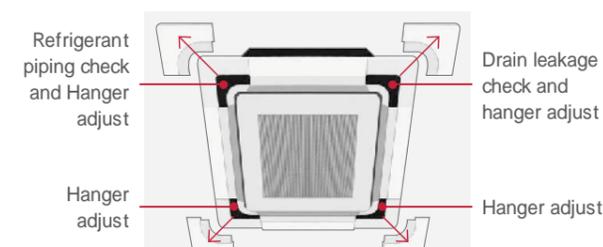
Capacity	Height
7.1 ~ 9.0kW	204mm
10.6kW	246mm
12.3 ~ 15.8kW	288mm

* Length width : 840 x 840mm

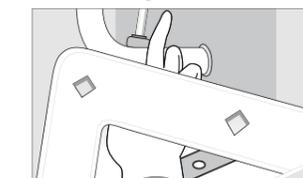
Convenient Panel Installation

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

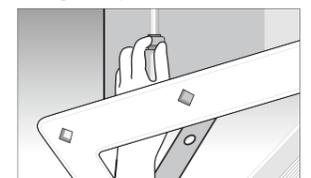
Detachable Corner Design



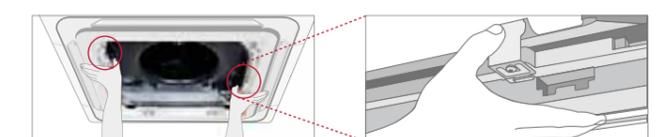
Drain leakage check



Hanger adjust



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



4 Way CASSETTE (570 X 570)

ARNU05GTRD4 / ARNU07GTRD4 / ARNU09GTRD4 / ARNU12GTRD4
ARNU15GTQD4 / ARNU18GTQD4 / ARNU21GTQD4



Model	Unit	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4	
Cooling Capacity	kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0	
Heating Capacity	kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8	
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
	Body	mm	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570			
Dimensions (W x H x D)	Shipping	mm	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646			
	Type		Turbo Fan						
Fan	Motor Output x Number	W	43 x 1						
	Air Flow Rate (H / M / L)	m ³ /min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	
Air Filter			Pre Filter						
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)	
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)						
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.		1.0-1.5 x 2C						
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	
	Exterior Color		Morning Fog						
	RAL Code		RAL 9001						
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4
Drain Pump							
Cassette Cover				PTDCQ			
Refrigerant Leakage Detector				PRLDNVSO			
EEV Kit				PRGK024A0 (~4.5kW)			
Independent Power Module				PRIP0			
Robot Cleaner				-			
Pre Filter (washable / anti-fungus)							
Ion Generator							
CO ₂ Sensor							
Ventilation Kit				PTVK430			
IR Receiver							
Zone Controller							
Dry Contact (with additional accessory)				PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB501 (Modbus)			
External Input (1 point)							
Wi-Fi				PWFMD200			

: Applied, - : Not applied

Option : Refer to model name in table

ARNU05GTRC4 / ARNU07GTRC4 / ARNU09GTRC4 / ARNU12GTRC4
ARNU15GTQC4 / ARNU18GTQC4 / ARNU21GTQC4



Model	Unit	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4	
Cooling Capacity	kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0	
Heating Capacity	kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8	
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
	Body	mm	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570			
Dimensions (W x H x D)	Shipping	mm	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646				
	Type		Turbo Fan						
Fan	Motor Output x Number	W	43 x 1						
	Air Flow Rate (H / M / L)	m ³ /min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	
Air Filter			Pre Filter						
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)	
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)						
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.		1.0-1.5 x 2C						
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	
	Exterior Color		Morning Fog						
	RAL Code		RAL 9001						
	Net Dimensions (W x H x D)	mm	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	700 x 22 x 700 620 x 20 x 620	
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Drain Pump							
Cassette Cover				PTDCQ			
Refrigerant Leakage Detector				PRLDNVSO			
EEV Kit				PRGK024A0 (~4.5kW)			
Independent Power Module				PRIP0			
Robot Cleaner				-			
Pre Filter (washable / anti-fungus)							
Ion Generator							
CO ₂ Sensor							
Ventilation Kit				PTVK430			
IR Receiver							
Zone Controller							
Dry Contact (with additional accessory)				PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 point)							
Wi-Fi							

: Applied, - : Not applied

Option : Refer to model name in table

4 Way CASSETTE (840 X 840)

ARNU24GTPC4 / ARNU28GTPC4 / ARNU30GTPC4 / ARNU36GTNC4



Model	Unit	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4	
Cooling Capacity	kW	7.1	8.2	9.0	10.6	
Heating Capacity	kW	8.0	9.2	10.0	11.9	
Power Input (H / M / L)	Nominal	W	31 / 26 / 23	40 / 31 / 25	40 / 34 / 27	70 / 53 / 43
	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
Dimensions (W x H x D)	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 318 x 917
	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	30 x 1	30 x 1	30 x 1	135 x 1
	Air Flow Rate (H / M / L)	m ³ /min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0
	Motor type		BLDC	BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	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)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	20.8	20.8	20.8	23.5
Sound Pressure Levels (H / M / L)	dB(A)	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37	
Sound Power Levels (H / M / L)	dB(A)	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54	56 / 53 / 51	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	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-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4
Drain Pump				
Cassette Cover		PTDCM		
Refrigerant Leakage Detector		PRLDNVSO		
EEV Kit		-		
Independent Power Module		PRIPO		
Robot Cleaner		-		
Pre Filter (washable / anti-fungus)		-		
Ion Generator		-		
CO ₂ Sensor		-		
Ventilation Kit		PTVK430		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB502 (Modbus)		
External Input (1 point)				
Wi-Fi		PWFMD200		

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

ARNU42GTM / C4ARNU48GTM4 / ARNU54GTM4



Model	Unit	ARNU42GTM4	ARNU48GTM4	ARNU54GTM4	
Cooling Capacity	kW	12.3	14.1	15.8	
Heating Capacity	kW	13.8	15.9	18.0	
Power Input (H / M / L)	Nominal	W	104 / 75 / 53	120 / 80 / 62	135 / 93 / 70
	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Dimensions (W x H x D)	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
	Type		Turbo Fan	Turbo Fan	Turbo Fan
Fan	Motor Output x Number	W	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m ³ /min	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
	Motor type		BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.6	25.6	26.5
Sound Pressure Levels (H / M / L)	dB(A)	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44	
Sound Power Levels (H / M / L)	dB(A)	58 / 55 / 50	60 / 56 / 55	60 / 58 / 55	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	
Decoration Panel (Accessory)	Model Name		PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU42GTM4	ARNU48GTM4	ARNU54GTM4
Drain Pump			
Cassette Cover		PTDCM	
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		-	
Independent Power Module		PRIPO	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		-	
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		PTVK430	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB502 (Modbus)	
External Input (1 point)			
Wi-Fi		PWFMD200	

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

4 Way CASSETTE HIGH SENSIBLE (840 X 840)

ARNU07GTNA4 / ARNU09GTNA4 / ARNU12GTNA4
ARNU15GTNA4 / ARNU18GTNA4



Model	Unit	ARNU07GTNA4	ARNU09GTNA4	ARNU12GTNA4	ARNU15GTNA4	ARNU18GTNA4	
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	
Heating Capacity	kW	2.5	3.2	4	5	6.3	
Power Input (H / M / L)	Nominal	18 / 15 / 12	19 / 15 / 12	22 / 17 / 14	25 / 17 / 14	27 / 18 / 14	
	W						
Dimensions (W x H x D)	Body	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840	
	Shipping	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917	922 x 318 x 917	
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
	Motor Output x Number	135 x 1	135 x 1	135 x 1	135 x 1	135 x 1	
	Air Flow Rate (H / M / L)	13.0 / 12.0 / 11.0	13.5 / 12.0 / 11.0	14.0 / 13.0 / 12.0	15.0 / 13.0 / 12.0	16.0 / 14.0 / 12.0	
	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)	
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	
Weight	Body	kg	23.5	23.5	23.5	23.5	
Sound Pressure Levels (H / M / L)	dB(A)	35 / 33 / 30	35 / 33 / 30	37 / 35 / 33	39 / 35 / 33	40 / 35 / 33	
Sound Power Levels (H / M / L)	dB(A)	42 / 38 / 36	42 / 38 / 36	43 / 40 / 38	44 / 40 / 38	45 / 41 / 38	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	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	
Decoration Panel (Accessory)	Model Name	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	
	Exterior Color	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	
	RAL Code	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GTNA4	ARNU09GTNA4	ARNU12GTNA4	ARNU15GTNA4	ARNU18GTNA4
Drain Pump					
Cassette Cover			PTDCM		
Refrigerant Leakage Detector			PRLDNVSO		
EEV Kit			-		
Independent Power Module			PRIP0		
Robot Cleaner			-		
Pre Filter (washable / anti-fungus)					
Ion Generator			-		
CO ₂ Sensor			-		
Ventilation Kit			PTVK430		
IR Receiver			-		
Zone Controller			-		
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)					
Wi-Fi			PWFMD200		

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

ARNU24GTMA4 / ARNU28GTMA4
ARNU36GTMA4 / ARNU42GTMA4



Model	Unit	ARNU24GTMA4	ARNU28GTMA4	ARNU36GTMA4	ARNU42GTMA4	
Cooling Capacity	kW	7.1	8.2	10.6	12.3	
Heating Capacity	kW	8	9.2	11.9	13.8	
Power Input (H / M / L)	Nominal	47 / 39 / 31	52 / 43 / 31	64 / 47 / 34	104 / 75 / 53	
	W					
Dimensions (W x H x D)	Body	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	
	Shipping	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917	
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
	Motor Output x Number	135 x 1	135 x 1	135 x 1	135 x 1	
	Air Flow Rate (H / M / L)	22.0 / 20.0 / 18.0	23.0 / 21.0 / 18.0	26.0 / 23.0 / 20.0	30.0 / 26.0 / 23.0	
	Motor type	BLDC	BLDC	BLDC	BLDC	
Air 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)	
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	
Weight	Body	kg	25.6	25.6	25.6	
Sound Pressure Levels (H / M / L)	dB(A)	42 / 40 / 38	43 / 41 / 38	46 / 42 / 39	49 / 45 / 42	
Sound Power Levels (H / M / L)	dB(A)	48 / 45 / 43	49 / 47 / 43	52 / 48 / 44	55 / 51 / 48	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	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-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	
	Exterior Color	Morning Fog	Morning Fog	Morning Fog	Morning Fog	
	RAL Code	RAL 9001	RAL 9001	RAL 9001	RAL 9001	
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU24GTMA4	ARNU28GTMA4	ARNU36GTMA4	ARNU42GTMA4
Drain Pump				
Cassette Cover			PTDCM	
Refrigerant Leakage Detector			PRLDNVSO	
EEV Kit			-	
Independent Power Module			PRIP0	
Robot Cleaner			-	
Pre Filter (washable / anti-fungus)				
Ion Generator			-	
CO ₂ Sensor			-	
Ventilation Kit			PTVK430	
IR Receiver			-	
Zone Controller			-	
Dry Contact (with additional accessory)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) 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

ARNU09GTSC4 / ARNU12GTSC4
ARNU18GTSC4 / ARNU24GTSC4



Model	Unit	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4	
Cooling Capacity	kW	2.8	3.6	5.6	7.1	
Heating Capacity	kW	3.2	4	6.3	8	
Power Input (H / M / L)	Nominal	16 / 14 / 11	18 / 14 / 11	19 / 16 / 14	31 / 22 / 14	
	W					
Dimensions (W x H x D)	Body	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600	
	Shipping	1,033 x 270 x 665	1,033 x 270 x 665	1,033 x 270 x 665	1,033 x 270 x 665	
Fan	Type	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
	Motor Output x Number	W x No.	37 x 1	37 x 1	37 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor type		BLDC	BLDC	BLDC	
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	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)
Weight	Body	kg	18.1	18.1	18.1	18.1
Sound Pressure Levels (H / M / L)		dB (A)	33 / 31 / 29	34 / 32 / 29	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)		dB (A)	42 / 40 / 38	43 / 41 / 39	44 / 42 / 40	48 / 45 / 40
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.		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-USC	PT-USC	PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690			
	Net Weight	kg	4.7	4.7	4.7	4.7

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
Drain Pump				
Cassette Cover		-		
Refrigerant Leakage Detector		PRLDNVS0		
EEV Kit		PRGK024A0 (-5.6kW)		
Independent Power Module		PRIP0		
Robot Cleaner		-		
Pre Filter (washable / anti-fungus)				
Ion Generator		-		
CO ₂ Sensor		-		
Ventilation Kit		-		
IR Receiver		-		
Zone Controller		-		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)				
Wi-Fi		PWFMDD200		

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

1 Way CASSETTE

ARNU07GTUD4 / ARNU09GTUD4 / ARNU12GTUD4
ARNU18GTTD4 / ARNU24GTTD4



Model	Unit	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTTC4	ARNU24GTTTC4	
Cooling Capacity	kW	2.2	2.8	3.6	5.6	7.1	
Heating Capacity	kW	2.5	3.2	4.0	6.3	7.1	
Power Input (H / M / L)	Nominal	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	38 / 28 / 24	51 / 33 / 26	
	W						
Dimensions (W x H x D)	Body	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	
	Shipping	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	1,499 x 259 x 538	1,499 x 259 x 538	
Fan	Type	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor type		BLDC	BLDC	BLDC	BLDC	
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)	
	Gas Side	mm (inch)	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)	
Weight	Body	kg	13.6	13.6	13.6	15.6	
Sound Pressure Levels (H / M / L)		dB (A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	
Sound Power Levels (H / M / L)		dB (A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	56 / 51 / 48	
Power Supply	Ø, V, Hz		1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.		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-UUC(Grill) PT-UUD(Panel)	PT-UUC(Grill) PT-UUD(Panel)	PT-UTC(Grill) PT-UTD(Panel)	PT-UTC(Grill) PT-UTD(Panel)	
	Exterior Color		Noble White	Noble White	Noble White	Noble White	
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	
	Net Dimensions (W x H x D)	mm	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500	
	Net Weight	kg	4.6 / 5.3	4.6 / 5.3	4.6 / 5.3	5.5 / 6.5	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTTC4	ARNU24GTTTC4
Drain Pump					
Cassette Cover		-			
Refrigerant Leakage Detector		PRLDNVS0			
EEV Kit		PRGK024A0			
Independent Power Module		PRIP0			
Robot Cleaner		-			
Pre Filter (washable / anti-fungus)					
Ion Generator		-			
CO ₂ Sensor		-			
Ventilation Kit		-			
IR Receiver		-			
Zone Controller		-			
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 point)					
Wi-Fi		-			

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

1 Way CASSETTE

ARNU07GTUD4 / ARNU09GTUD4 / ARNU12GTUD4



Model	Unit	ARNU07GTUD4	ARNU09GTUD4	ARNU12GTUD4	
Cooling Capacity	kW	2.2	2.8	3.6	
Heating Capacity	kW	2.5	3.2	4.0	
Power Input (H / M / L)	Nominal	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	
	W				
Dimensions (W x H x D)	Body	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	
	Shipping	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	
Fan	Type	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	30 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2
	Motor type		BLDC	BLDC	
	Air Filter		Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25(1)	Ø25(1)	
Weight	Body	kg	13.6	13.6	
Sound Pressure Levels (H / M / L)	dB (A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	
Sound Power Levels (H / M / L)	dB (A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	
Decoration Panel (Accessory)	Model Name	PT-UUC(Grill) PT-UUD(Panel)	PT-UUC(Grill) PT-UUD(Panel)	PT-UUC(Grill) PT-UUD(Panel)	
	Exterior Color	Noble White	Noble White	Noble White	
	RAL Code	RAL 9003	RAL 9003	RAL 9003	
	Net Dimensions (W x H x D)	mm	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	
	Net Weight	kg	4.6 / 5.3	4.6 / 5.3	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU07GTUD4	ARNU09GTUD4	ARNU12GTUD4
Drain Pump			
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNV50	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)			
Ion Generator		-	
CO ₂ Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB501 (Modbus)	
External Input (1 point)			
Wi-Fi		PWFMD200	

: Applied, - : Not applied

Option : Refer to model name in table

ARNU18GTDD4 / ARNU24GTDD4



Model	Unit	ARNU18GTDD4	ARNU24GTDD4	
Cooling Capacity	kW	5.6	7.1	
Heating Capacity	kW	6.3	7.1	
Power Input (H / M / L)	Nominal	38 / 28 / 24	51 / 33 / 26	
	W			
Dimensions (W x H x D)	Body	1,180 x 132 x 450	1,180 x 132 x 450	
	Shipping	1,499 x 259 x 538	1,499 x 259 x 538	
Fan	Type	Cross Flow Fan	Cross Flow Fan	
	Motor Output x Number	W x No.	30 x 1	
	Air Flow Rate (H / M / L)	m ³ /min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor type		BLDC	
	Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	
	Gas Side	mm (inch)	Ø12.7(1/2)	
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25(1)	
Weight	Body	kg	15.6	
Sound Pressure Levels (H / M / L)	dB (A)	40 / 37 / 35	43 / 40 / 36	
Sound Power Levels (H / M / L)	dB (A)	56 / 51 / 48	59 / 53 / 50	
Power Supply	Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	
		1, 220, 60	1, 220, 60	
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	
Decoration Panel (Accessory)	Model Name	PT-UTC(Grill) PT-UTD(Panel)	PT-UTC(Grill) PT-UTD(Panel)	
	Exterior Color	Noble White	Noble White	
	RAL Code	RAL 9003	RAL 9003	
	Net Dimensions (W x H x D)	mm	1,420 x 34 x 500 1,420 x 34 x 500	
	Net Weight	kg	5.5 / 6.5	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU18GTDD4	ARNU24GTDD4
Drain Pump		
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNV50
EEV Kit		-
Independent Power Module		PRIP0
Robot Cleaner		-
Pre Filter (washable / anti-fungus)		
Ion Generator		-
CO ₂ Sensor		-
Ventilation Kit		-
IR Receiver		-
Zone Controller		-
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB503 (Modbus)
External Input (1 point)		
Wi-Fi		PWFMD200

: Applied, - : Not applied

Option : Refer to model name in table

CEILING CONCEALED DUCT



Features & Benefits

- E.S.P. Control Function can Make Air Volume Controlled Easily with Remote Controller.

Key Applications

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

	Duct	High	Middle	Low
Smart	Wi-Fi			
Energy Efficiency	E.S.P. Control			
	Drain Pump			
	Timer (on / off)			
Comfort	Timer (weekly)			
	Two Thermistor Control			
	Group Control			

: Applied, - : Not applied

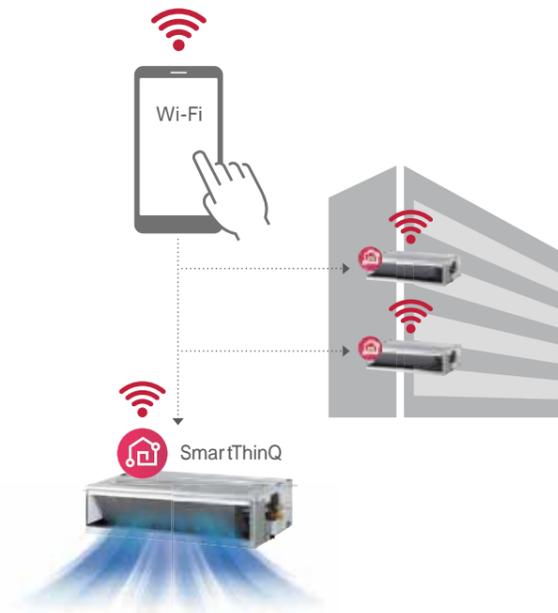
Wi-Fi Control

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

LG SmartThinQ

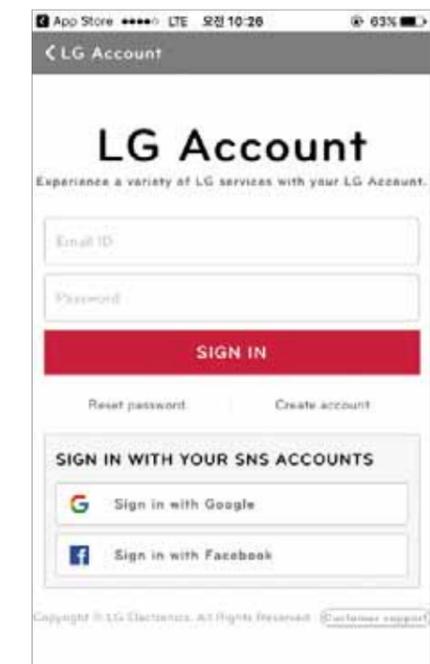
 Search "LG SmartThinQ" on Google market or Appstore then download the app.
LG SmartThinQ

Access your air conditioner anytime and from anywhere



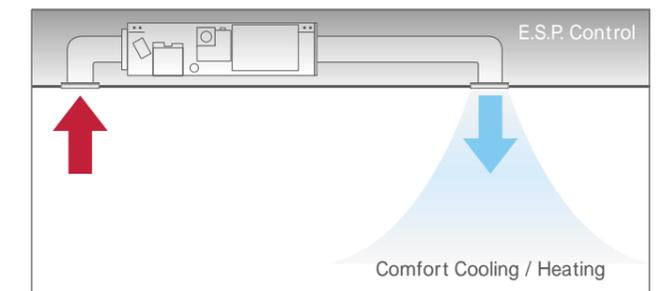
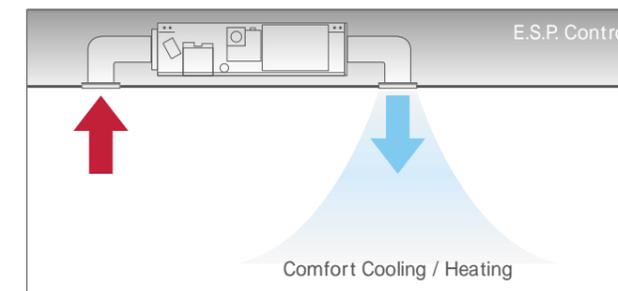
Easy Registration and Log-in

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



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

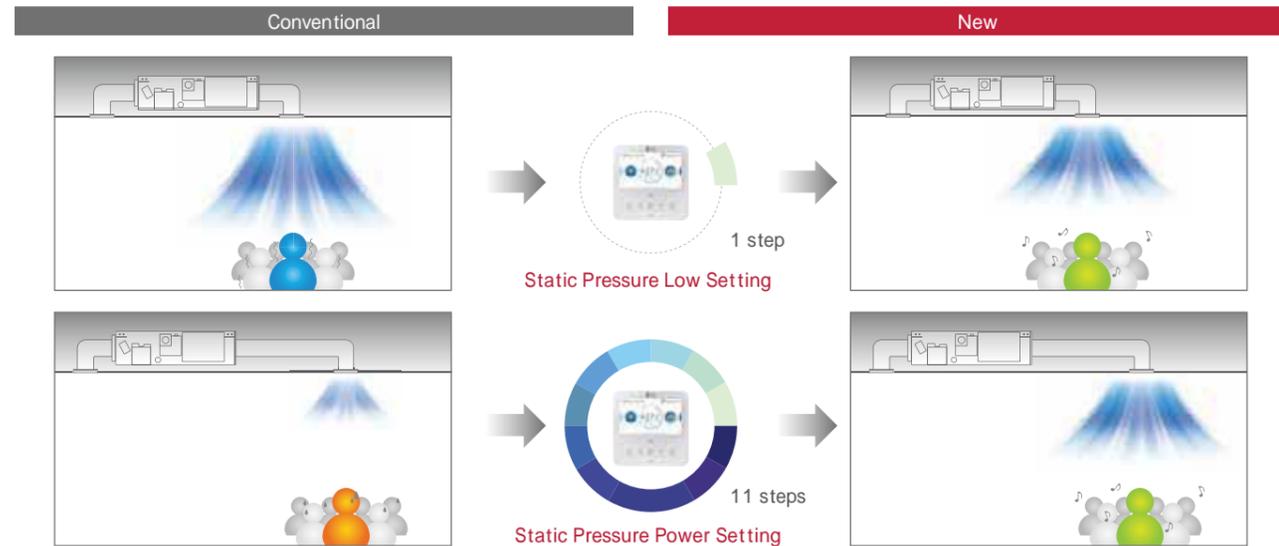
User has an easy access to air volume selection via remote controller secured by the ESP control function. The BLDC motor can control fan speed and air volume regardless of the external static pressure. No additional accessories are necessary to control air flow.



CEILING CONCEALED DUCT

Static Pressure 11 Steps Control

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



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



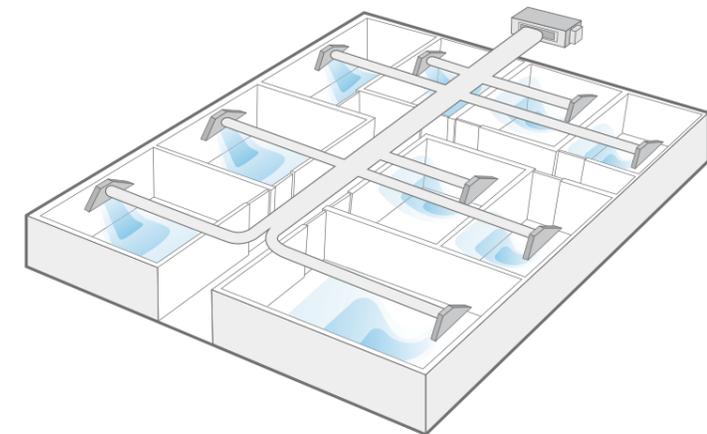
Apply for Multistory Building



* 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.

Operation for Multiple Rooms

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



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.

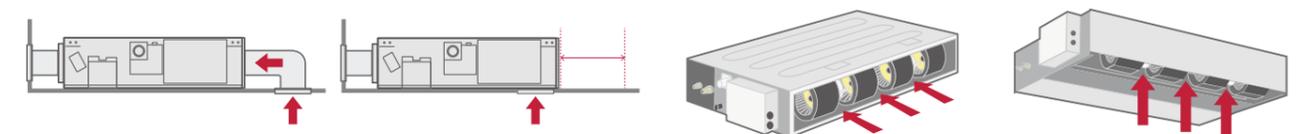
Remain time until indoor filter cleaning + alarm



Flexible Installation (Low Static Duct Only)

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

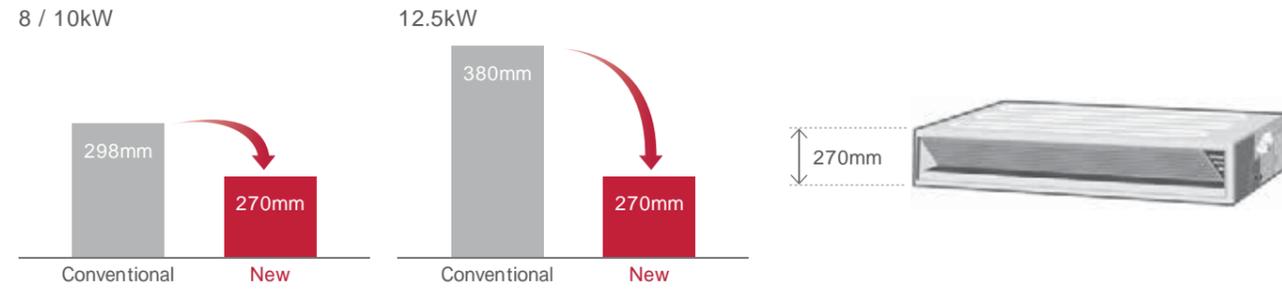
Air intake at the rear or bottom



CEILING CONCEALED DUCT

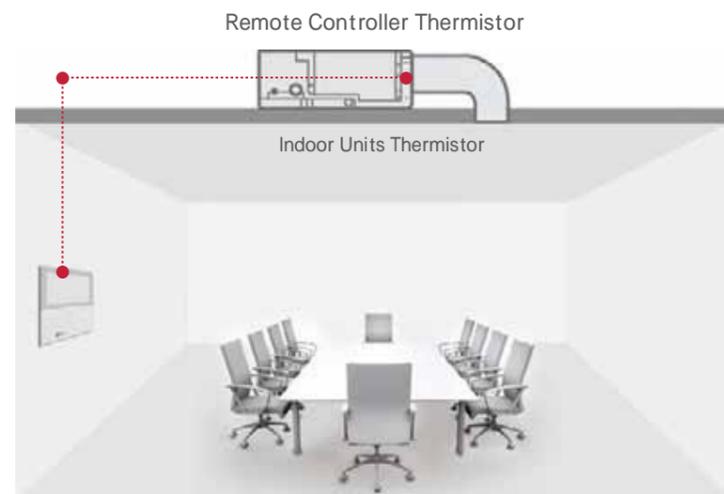
Minimized Height

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



Two Thermistors Control

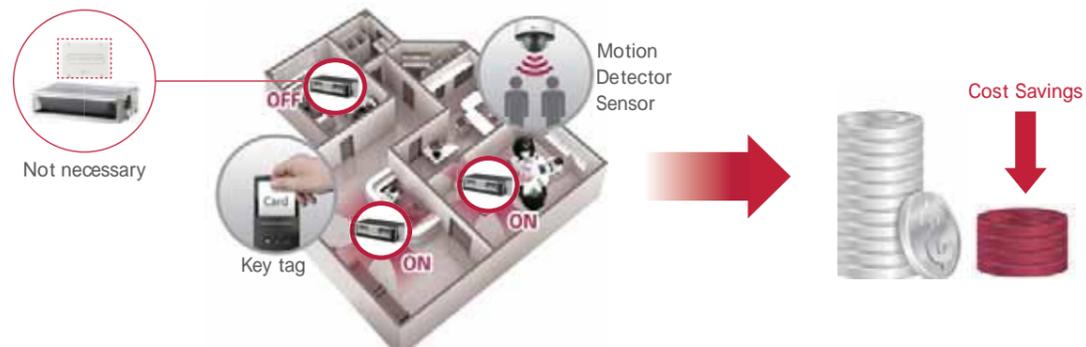
The indoor temperature can be checked using the thermi-stors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimise indoor air temperature for a more comfortable environment.



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.



MID STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4



Model	Unit	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4	
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power Input (H / M / L)	Nominal	W	39 / 30 / 25	40 / 32 / 26	46 / 38 / 31	67 / 53 / 46	85 / 63 / 55	91 / 74 / 58
	Body	mm	900 x 270 x 700	900 x 270 x 700				
Dimensions (W x H x D)	Shipping	mm	1,100 x 338 x 773	1,100 x 338 x 773				
	Type		Sirocco Fan	Sirocco Fan				
Fan	Motor Output x Number	W x No.	136 x 1	136 x 1				
	Air Flow Rate (H / M / L)	m ³ /min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External static pressure (High mode)	mmAq (Pa)	6(59)	6(59)	6(59)	6(59)	6(59)	6(59)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	External static pressure (Standard mode)	mmAq (Pa)	2.5(25)	2.5(25)	2.5(25)	2.5(25)	2.5(25)	2.5(25)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
	Air Filter		Pre Filter	Pre Filter				
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25(1)	25(1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.5	25.5	25.5	25.5	25.5	26.5
Sound Pressure Levels (H / M / L)	dB (A)	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26	
Sound Power Levels (H / M / L)	dB (A)	55 / 54 / 51	55 / 54 / 52	56 / 54 / 52	59 / 57 / 55	59 / 57 / 55	59 / 58 / 56	
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'
- 4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump				○		
Cassette Cover				-		
Refrigerant Leakage Detector				PRLDNVSO		
EEV Kit				PRGK024A0(-5.6kW)		
Independent Power Module				PRIP0		
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) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)				○		
Wi-Fi				PWFMD200		

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

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4
ARNU48GM3A4 / ARNU54GM3A4



Model	Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	
Cooling Capacity	kW	8.2	10.6	12.3	14.1	15.8	
Heating Capacity	kW	9.2	11.9	13.8	15.9	18.0	
Power Input (H / M / L)	Nominal	W	123 / 81 / 57	184 / 123 / 81	231 / 162 / 111	172 / 105 / 65	260 / 215 / 172
	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
Dimensions (W x H x D)	Shipping	mm	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773
	Type		Sirocco Fan				
Fan	Motor Output x Number	W x No.	350 x 1				
	Air Flow Rate (H / M / L)	m ³ /min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External static pressure (High mode)	mmAq (Pa)	6(59)	6(59)	6(59)	6(59)	6(59)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External static pressure (Standard mode)	mmAq (Pa)	5(49)	5(49)	5(49)	5(49)	5(49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
	Air Filter		Pre Filter				
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)				
Weight	Body	kg	38.0	38.0	39.5	44.0	44.0
Sound Pressure Levels (H / M / L)	dB (A)	36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39	
Sound Power Levels (H / M / L)	dB (A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62	
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.	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	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- 2. Due to our policy of innovation some specifications may be changed without notification
- 3. I.D : 'Internal Diameter'
- 4. The Sound Pressure test condition is based on 50 Pa for middle static duct.

Accessories

Chassis	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump				○	
Cassette Cover				-	
Refrigerant Leakage Detector				PRLDNVSO	
EEV Kit				-	
Independent Power Module				PRIP0	
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) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)				○	
Wi-Fi				PWFMD200	

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

MID / HIGH STATIC

ARNU48GM3B4 / ARNU54GM3B4 / ARNU76GB8A4 / ARNU96GB8A4



Model	Unit	ARNU48GM3B4	ARNU54GM3B4	ARNU76GB8A4	ARNU96GB8A4	
Cooling Capacity	kW	14.1	15.8	22.4	28.0	
Heating Capacity	kW	15.9	18.0	25.2	31.5	
Power Input (H / M / L)	Nominal	W	172 / 105 / 65	260 / 215 / 172	765 / 500 / 500	800 / 750 / 750
	Body	mm	1250 x 360 x 700	1250 x 360 x 700	1,562 x 460 x 688	1,562 x 460 x 688
Dimensions (W x H x D)	Shipping	mm			1,806 x 537 x 825	1,806 x 537 x 825
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Fan	Motor Output x Number	W x No.	500 x 1	500 x 1	375 x 2	375 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /min	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	External static pressure (High mode)	mmAq (Pa)	6(59)	6(59)	22(216)	22(216)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External static pressure (Standard mode)	mmAq (Pa)	5(49)	5(49)	15(147)	15(147)
	Motor type		BLDC	BLDC	BLDC	BLDC
Air Filter		-	-	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø19.05(3/4)	Ø19.05(3/4)	Ø22.2(7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	25(1)	25(1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	44(97)	44(97)	87.0	87.0
	Power Supply	Ø, V, Hz	1, 220-240, 50 1, 220, 60			
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C	

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : 'Internal Diameter'

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

Accessories

Chassis	ARNU48GM3B4	ARNU54GM3B4	ARNU76GB8A4	ARNU96GB8A4
Drain Pump				○
Cassette Cover				-
Refrigerant Leakage Detector			PRLDNVSO	
EEV Kit				○
Independent Power Module			PRIPO	
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) PDRYCB300 (8 points for thermostat compatible) 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

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4



Model	Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4	
Cooling Capacity	kW	1.7	2.2	2.8	
Heating Capacity	kW	1.9	2.5	3.2	
Power Input (H / M / L)	Nominal	W	29 / 26 / 24	31 / 28 / 24	39 / 29 / 24
	Body	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Dimensions (W x H x D)	Shipping	mm	862 x 255 x 781	862 x 255 x 781	862 x 255 x 781
	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) (High Mode-Factory Set)	m ³ /min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External static pressure (High mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External static pressure (Standard mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor type		BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	17.5	17.5	17.5
	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 - 240, 50 1, 220, 60	1, 220 - 240, 50 1, 220, 60	1, 220 - 240, 50 1, 220, 60	
	Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C	1.0-1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero

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

3. I.D : 'Internal Diameter'

4. L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressure) as standard.

Accessories

Chassis	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Drain Pump			○
Cassette Cover			-
Refrigerant Leakage Detector		PRLDNVSO	
EEV Kit		PRGK024A0	
Independent Power Module		PRIPO	
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) PDRYCB300 (8 points for thermostat compatible) 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
Heating Capacity	kW	4.0	5.0	6.3
Power Input (H / M / L)	Nominal	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
	Shipping	mm	1,062 x 255 x 781	1,062 x 255 x 781
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1, 5 x 1	19 x 1, 5 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5
	External static pressure (High mode)	mmAq (Pa)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5
	External static pressure (Standard mode)	mmAq (Pa)	0 (0)	0 (0)
	Motor type		BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	23.0	23.0
Sound Pressure Levels (H / M / L)		dB(A)	30 / 27 / 25	33 / 30 / 28
Sound Power Levels (H / M / L)		dB(A)	50 / 47 / 46	54 / 51 / 47
Power Supply	Ø, V, Hz		1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60
Communication Cable	mm ² x No.		1.0-1.5 x 2C	1.0-1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

4. L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressure) as standard.

Accessories

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump			
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit			
Independent Power Module		PRIP0	
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) PDRYCB300 (8 points for thermostat compatible) 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
Heating Capacity	kW	7.0	8.0
Power Input (H / M / L)	Nominal	W	72 / 53 / 48
			103 / 63 / 48
Dimensions (W x H x D)	Body	mm	1,100 x 190 x 700
	Shipping	mm	1,262 x 255 x 781
Fan	Type		Sirocco Fan
	Motor Output x Number	W x No.	19 x 2
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /min	17.5 / 14.0 / 12.0
	External static pressure (High mode)	mmAq (Pa)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m ³ /min	17.5 / 14.0 / 12.0
	External static pressure (Standard mode)	mmAq (Pa)	0 (0)
	Motor type		BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)
Weight	Body	kg	27.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 29 / 28
Sound Power Levels (H / M / L)		dB(A)	59 / 55 / 54
Power Supply	Ø, V, Hz		1, 220 - 240, 50
			1, 220, 60
Communication Cable	mm ² x No.		1.0-1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

4. L2, L3 : The Sound Pressure test condition is based on 20 Pa (Static Pressure) as standard.

Accessories

Chassis	ARNU21GL3G4	ARNU24GL3G4
Drain Pump		
Cassette Cover		-
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		
Independent Power Module		PRIP0
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) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		
Wi-Fi		PWFMD200

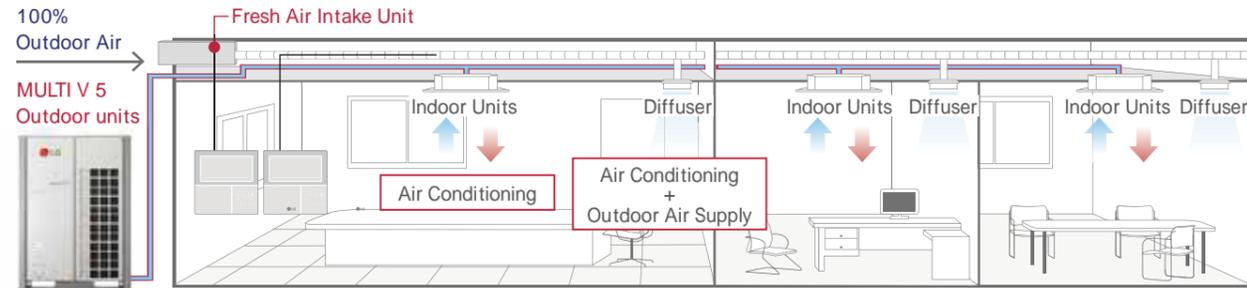
: Applied, - : Not applied

Option : Refer to model name in table

FRESH AIR INTAKE UNIT

Fresh Outdoor Air Supply

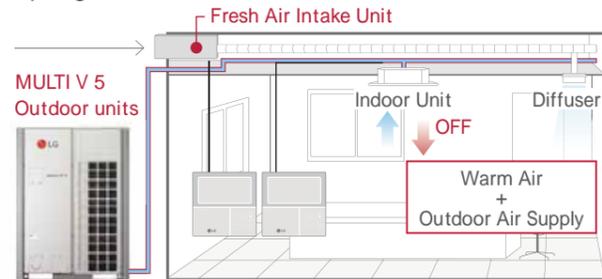
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated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



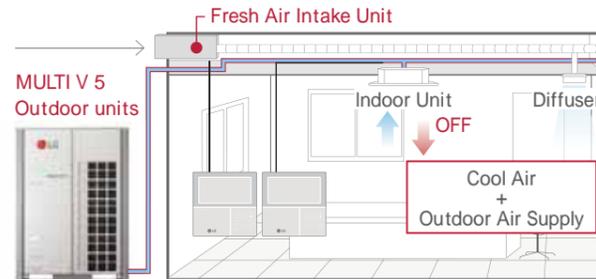
Economic Operation

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

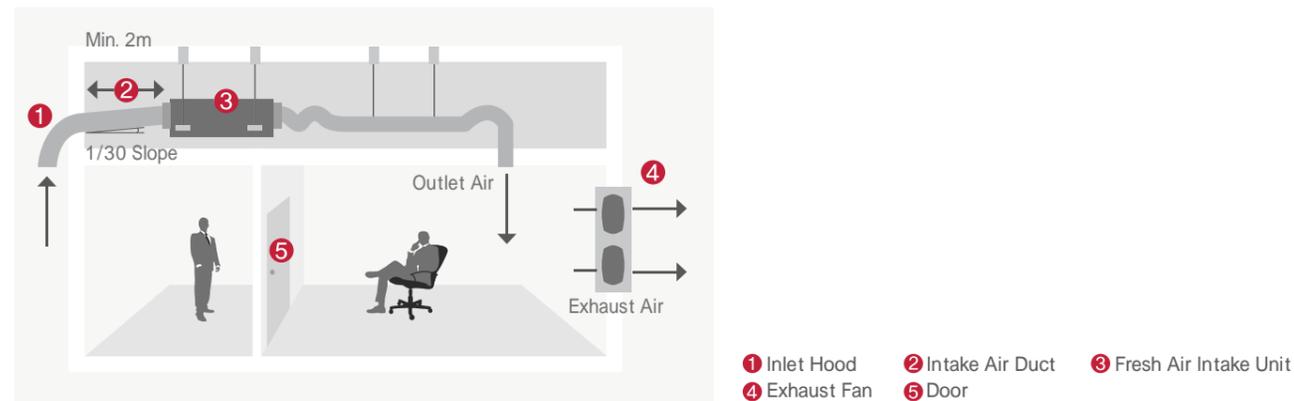
Spring Season



Autumn Season



Installation Scene



ARNU76GB8Z4 / ARNU96GB8Z4



Model	Unit	ARNU76GB8Z4	ARNU96GB8Z4
Cooling Capacity	kW	22.4	28.0
Heating Capacity	kW	21.4	26.7
Power Input (H / M / L)	Nominal W	230 / 200 / 200	360 / 230 / 230
Dimensions (W x H x D)	Body mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 1
	Air Flow Rate (H / M / L) (High Mode-Factory Set)	m ³ /min	23.7 / 13.2 / 13.2
	External static pressure	mmAq (Pa)	22(216)
	Motor Type		BLDC
Air Filter		Long Life Filter	Long Life Filter
Pipe Connections	Liquid Side	mm(inch)	Ø9.52(3/8)
	Gas Side	mm(inch)	Ø19.05(3/4)
	Drain Pipe (Internal Dia.)	mm(inch)	Ø25 (1)
Weight	Body kg	73.0	73.0
Sound Pressure Levels (H / M / L)		dB(A)	45 / 43 / 43
		dB(A)	72 / 70 / 70
Power Supply	Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60
Communication Cable	mm ² x No.	1.0-1.5 x 2C	1.0-1.5 x 2C

* Nominal : Performance tested under EN14511
 * Rated : Max power input allowed for fan motor
 Note : 1. Capacities are based on the following conditions
 - Cooling : Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 - Heating : Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 2. Capacities are net capacities
 3. Noise Level is under standard mode [For actual High Mode (Factory set) condition, Noise Level may exceed the standard level by 1.5db (A)]
 4. Due to our policy of innovation some specifications may be changed without prior notification.
 5. I.D : 'Internal Diameter'

CAUTION

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

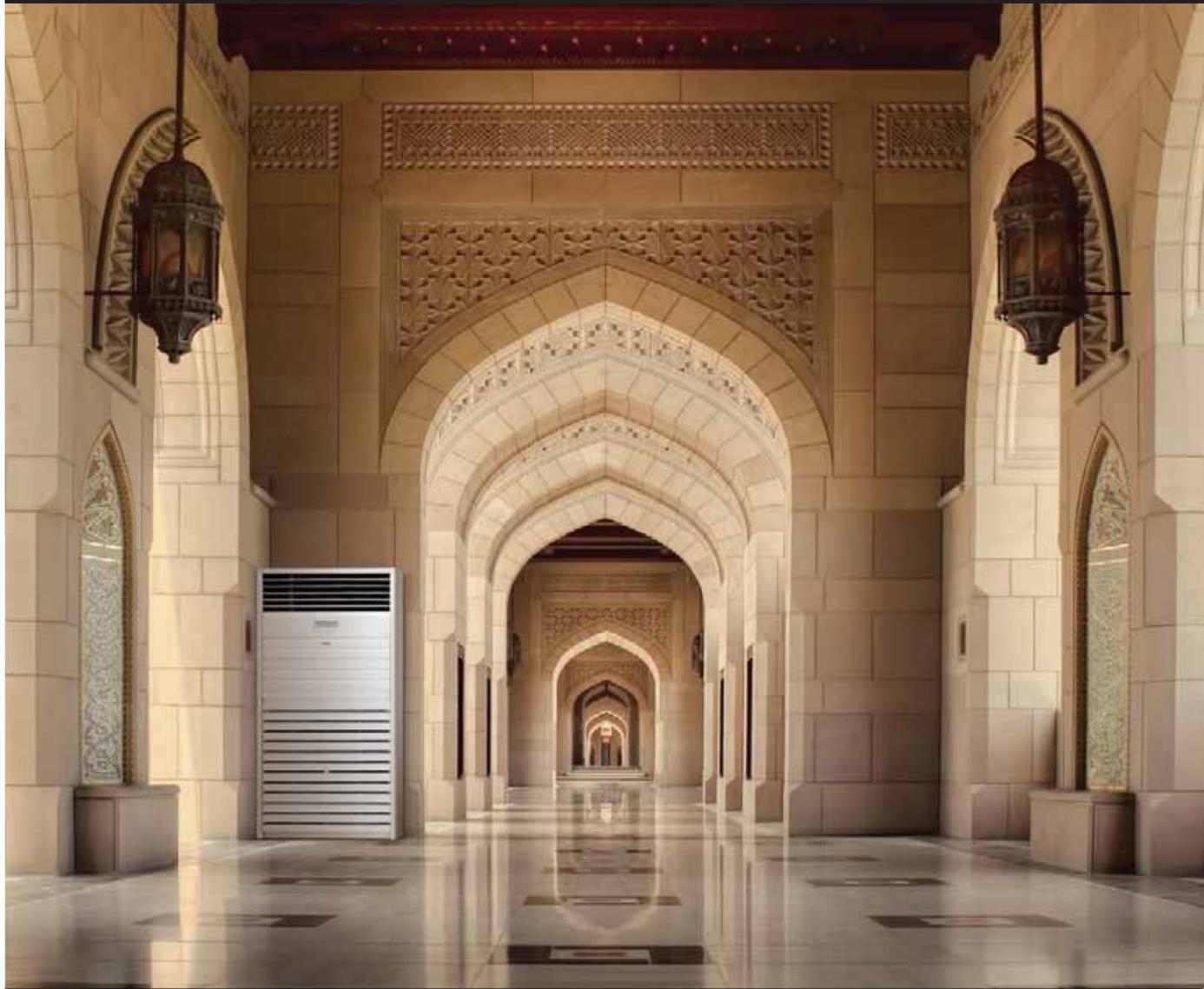
No	Connection Condition	Combination
1	Fresh air intake units only are connected with outdoor units	1) The total capacity of fresh air intake unit should be 50 ~ 100% of outdoor unit. 2) The max quantity of fresh air intake is 4 units.
2	Mixture connection with general indoor unit and fresh intake units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

Accessories

Chassis	ARNU76GB8Z4	ARNU96GB8Z4
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leakage Detector	-	PRLDNVS0
EEV Kit	-	-
Independent Power Module	-	PRIP0
Robot Cleaner	-	-
Pre Filter (washable / anti-fungus)	-	-
Ion Generator	-	-
CO ₂ Sensor	-	-
Ventilation Kit	-	-
IR Receiver	-	PWLRVN000
Zone Controller	-	-
Dry Contact (with additional accessory)	-	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)	-	-
Wi-Fi	-	PWFMD200

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

FLOOR STANDING UNIT



Features & Benefits

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

Key Applications

- Retail
- Shop
- Office
- Restaurant

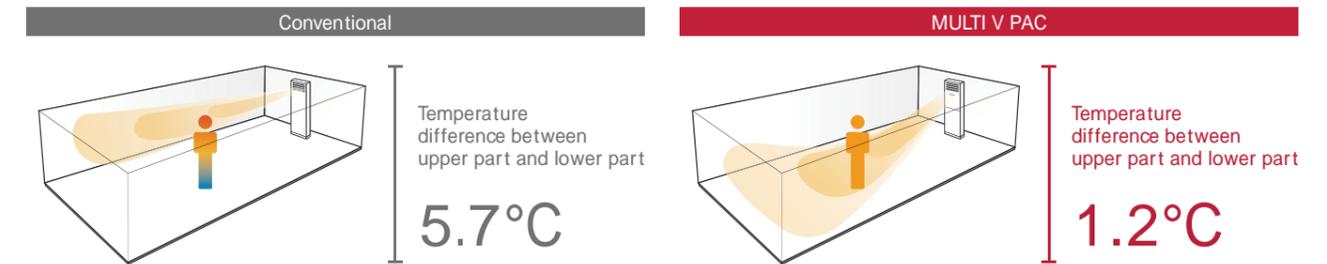
Simple & Elegant Design

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



Less Temperature Difference

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



* Temperature difference between upper part and lower part
 * Test Condition : Indoor temperature 12°C, Outdoor temperature 7°C, Setting Temperature 30°C
 * Measure Condition : After 3 hours heating operation (average temperature)

15m Long Power Cooling

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



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

* Based on 131.8m²

FLOOR STANDING UNIT

ARNU48GPTA4
ARNU96GPFA4



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

* This product contains Fluorinated Greenhouse Gases. (R410A)

* Nom. : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

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

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

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

3. I.D : 'Internal Diameter'

Accessories

Model		ARNU07GCE*4	ARNU09GCE*4
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000
	2 Contact Point		PDRYCB400
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300
	Modbus Communication		PDRYCB500
EEV Kit for MULTI V Indoor			-
IR Receiver			PWLRVN000

Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

CEILING SUSPENDED UNIT



Features & Benefits

- Ideal Solution for Commercial Spaces with Solid Ceilings with Its Stunning V-shaped Design and Black Vane, LG's 2 Years Ceiling-suspended Air Conditioner Exudes Modern Elegance Appropriate for Any Space.
- The Powerful Air Speed and Volume Means the Air Flow can Reach Up to 15m Away from the Air Conditioner.

Key Applications

- Retail
- Shop
- Office
- Restaurant

	Ceilings	Ceiling & Floor Convertible Unit	Ceiling Suspended Unit
Smart	Wi-Fi		
Fast Cooling & Heating	Jet Cool		
Comfort	Sleep mode		
	Timer (on / off)		
	Timer (weekly)		
	Two thermistor control		
	Group control		

: Applied, - : Not applied

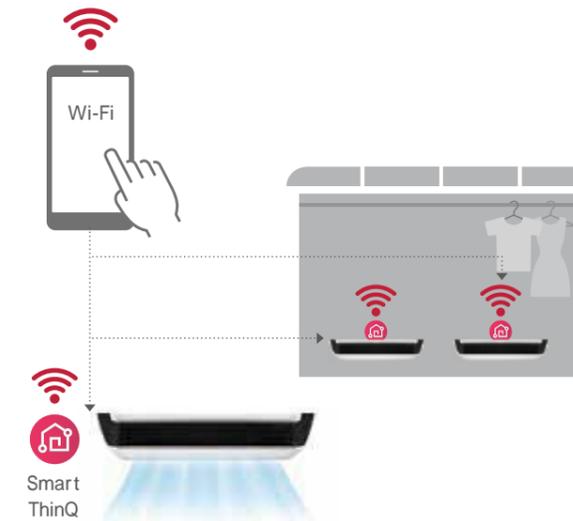
Wi-Fi Control

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

LG SmartThinQ

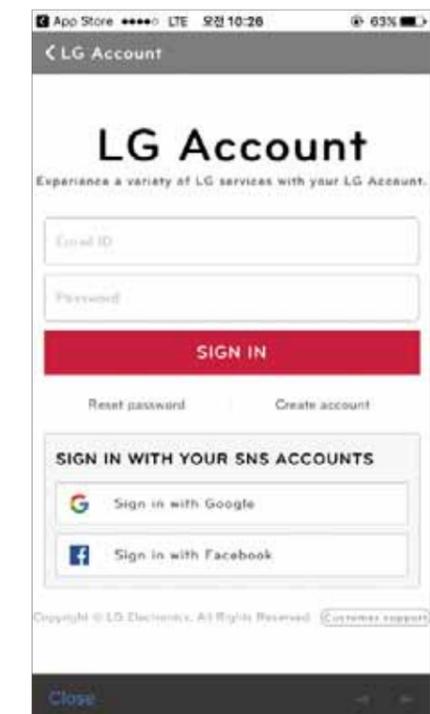
 Search "LG SmartThinQ" on Google market or Appstore then download the app.
LG SmartThinQ

Access your air conditioner anytime and from anywhere



Easy Registration and Log-in

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



Differentiated Design

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



CEILING SUSPENDED UNIT

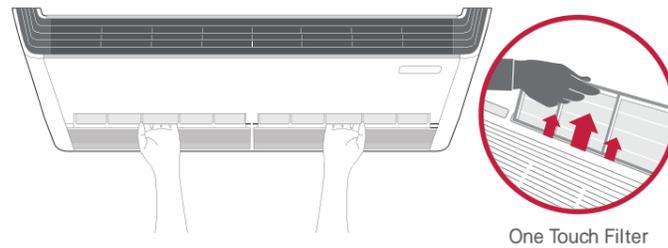
Powerful Cooling & Heating

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



One Touch & 2 Piece Filter

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



Two Thermistors Control

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



CEILING SUSPENDED UNIT

ARNU18GV1A4 / ARNU24GV1A4
ARNU36GV2A4 / ARNU48GV2A4



Model	Unit	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Cooling Capacity	kW	5.6	7.1	10.6	14.1
Heating Capacity	kW	6.3	8.0	11.9	15.9
Power Input (H / M / L)	Nominal W	23 / 20 / 17	25 / 21 / 17	84 / 77 / 66	91 / 79 / 66
Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
RAL code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	1,200 x 235 x 690	1,200 x 235 x 690	1,600 x 235 x 690
	Shipping	mm	1,315 x 320 x 772	1,315 x 320 x 772	1,715 x 320 x 772
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	85.9 x 1	85.9 x 1	125 x 1
	Air Flow Rate (H / M / L)	m ³ /min	13.5 / 12.5 / 12.0	14.0 / 13.0 / 12.0	27.0 / 24.0 / 20.0
	Motor Type		BLDC	BLDC	BLDC
Air Filter		Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm(inch)	Ø6.35(1/4)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm(inch)	Ø12.7(1/2)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm(inch)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)
Weight	Body	kg	29.0	29.0	37.0
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 33	37 / 35 / 33	48 / 46 / 44
Sound Power Levels (H / M / L)		dB(A)	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Drain Pump				
Cassette Cover				
Refrigerant Leakage Detector		PRLDNVS0		
EEV Kit				
Independent Power Module		PRIP0		
Robot Cleaner				
Pre Filter (washable / anti-fungus)				
Ion Generator				
CO ₂ Sensor				
Ventilation Kit				
IR Receiver				
Zone Controller				
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)				
Wi-Fi		PWFMDD200		

: Applied, - : Not applied

Option : Refer to model name in table

CEILING & FLOOR CONVERTIBLE UNIT

ARNU09GVEA4 / ARNU12GVEA4



Model	Unit	ARNU09GVEA4	ARNU12GVEA4
Cooling Capacity	kW	2.8	3.6
Heating Capacity	kW	3.2	4.0
Power Input (H / M / L)	Nominal W	19 / 15 / 11	28 / 19 / 15
Exterior Color		Morning Fog	Morning Fog
RAL code		RAL 9001	RAL 9001
Dimensions (W x H x D)	Body	mm	900 x 490 x 200
	Shipping	mm	975 x 279 x 562
Fan	Type		Cross Flow Fan
	Motor Output x Number	W x No.	27 x 1
	Air Flow Rate (H / M / L)	m ³ /min cfm	7.6 / 6.9 / 6.2 268 / 244 / 219
	Motor Type		BLDC
Air Filter		Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm(inch)	Ø6.35 (1/4)
	Gas Side	mm(inch)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm(inch)	Ø16 (5/8)
Weight	Body	kg	13.3
Sound Pressure Levels (H / M / L)		dB(A)	36 / 32 / 28
Sound Power Levels (H / M / L)		dB(A)	55 / 51 / 45
Power Supply		Ø, V, Hz	1, 220-240, 50
			1, 220, 60
Communication Cable		mm ² x No.	1.0 - 1.5 x 2C

* Nominal : Performance tested under EN14511

* Rated : Max power input allowed for fan motor

Note : 1. Capacities are based on the following conditions

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor temp. 35°C (95°F) DB / 24°C (75.2°F) WB, Interconnecting piping length 7.5m, Level difference of zero
 - Heating : Indoor temp. 20°C (68°F) DB / 15°C (59°F) WB, Outdoor temp. 7°C (44.6°F) DB / 6°C (42.8°F) WB, Interconnecting piping length 7.5m, Level difference of zero
2. Due to our policy of innovation some specifications may be changed without notification
3. I.D : 'Internal Diameter'

Accessories

Chassis	ARNU09GVEA4	ARNU12GVEA4
Drain Pump		
Cassette Cover		
Refrigerant Leakage Detector		PRLDNVS0
EEV Kit		PRGK024A0
Independent Power Module		PRIP0
Robot Cleaner		
Pre Filter (washable / anti-fungus)		
Ion Generator		
CO ₂ Sensor		
Ventilation Kit		
IR Receiver		
Zone Controller		
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)
External Input (1 point)		
Wi-Fi		PWFMDD200 ¹⁾

: Applied, - : Not applied

Option : Refer to model name in table

COMPATIBILITY

Controller	Premium	Standard III		Standard II		Simple		Simple for Hotel	Wireless	Dry Contact			
	PREMTA000 PREMTA000A PREMTA000B	PREMTB10	PREMTB100	PREMTB01	PREMTB001	PQRCVCLQ	PQRCVCOQW	PQRCHCAOQ	PQRCHCAOQW	PQWRHQ0FDB	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300
Multi V	Round Cassette ARNU24GYA4 ARNU36GYA4 ARNU48GYA4	○	○	○	○	○	○	○	○	○	○	○	○
	Ceiling Mounted Cassette 4 Way ARNU-A4 ARNU-C4 ARNU-D4	○	○	○	○	○	○	○	○	○	○	○	○
	2 Way / 1 Way ARNU-C4	○	○	○	○	○	○	○	○	○	○	○	○
	High Sensible ARNU-A4	○	○	○	○	○	○	○	△	○	○	○	○
	Ceiling Concealed Duct High / Mid Statics ARNU-A4	○	○	○	○	○	○	○	△	○	○	○	○
	Low Statics ARNU-G4	○	○	○	○	○	○	○	△	○	○	○	○
	FAU (Fresh Air Intake Unit) ARNU-Z4	○	○	○	○	○	○	○	△	○	○	○	○
	Convertible & Ceiling Suspended Unit ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○
	Wall Mounted Unit ARNU-A4	○	○	○	○	○	○	○	○	○	○	○	○
	ARNU-R4	○	○	○	○	○	○	○	○	○	○	○	○
ARNU-A4 ARNU-C4 ARNU-IV4	○	○	○	○	○	○	○	○	○	○	○	○	
Ventilation	Energy Recovery Ventilator	○	○	○	○	-	-	-	-	○	-	-	○
Energy Recovery Ventilator with DX coil	○	○	○	○	-	-	-	-	-	○	-	-	○
AHU Communication Kit	○	○	○	○	○	-	-	△	-	-	-	-	

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

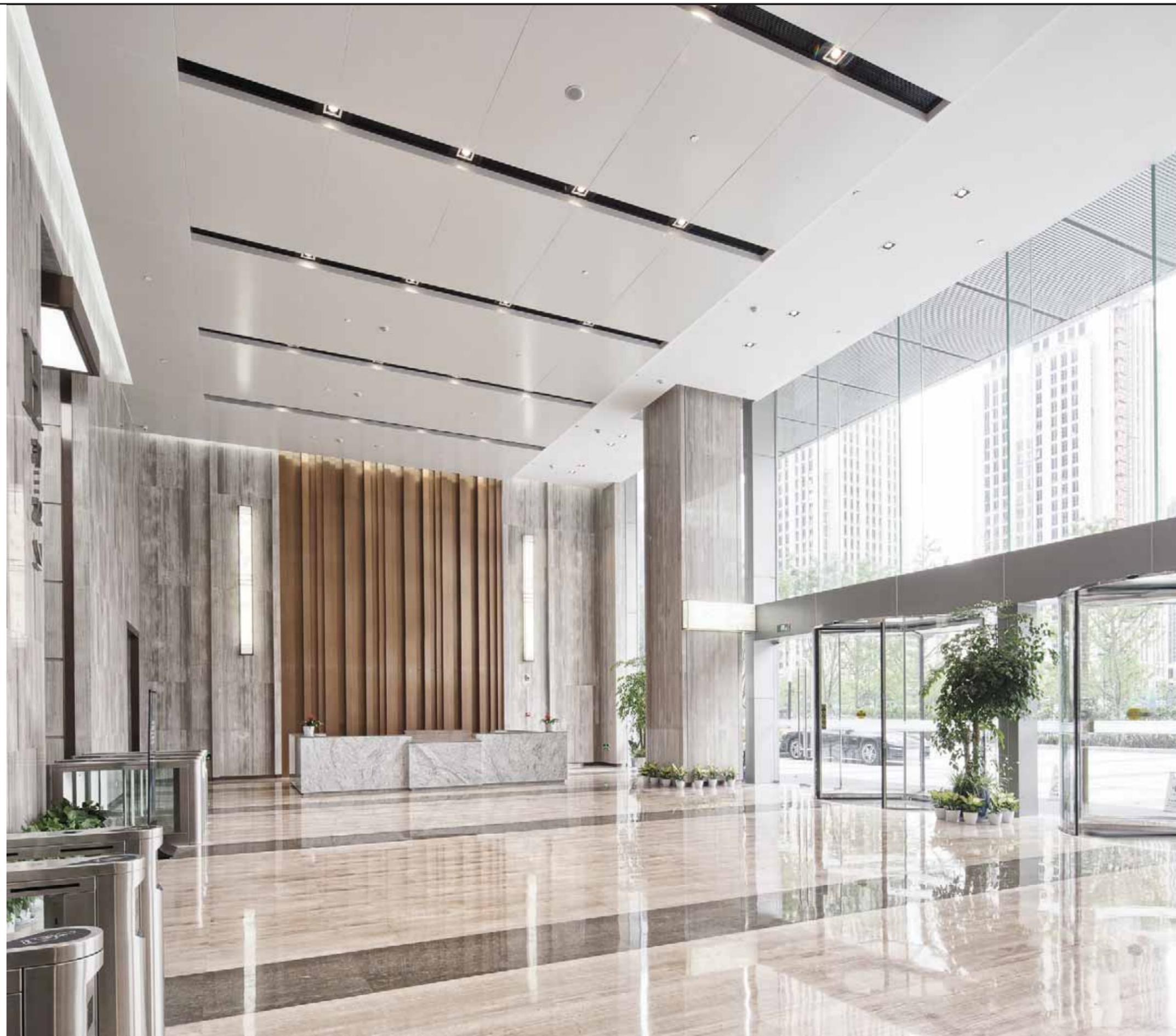
FEATURE FUNCTIONS

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-fi Controller
	Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name							
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTB10	PREMTB001 PREMTB01	PQRCVCLQ PQRCVCOQW	PQRCHCAOQ PQRCHCAOQW	PQWRHQ0FDB	PWFMD200
Basic	○	○	○	○	○	○	○
On / Off	○	○	○	○	○	○	○
Fan Speed Control	○	○	○	○	○	○	○
Temperature Setting	○	○	○	○	○	○	○
Mode Change	○	○	○	○	-	○	○
Auto Swing	○	○	○	○	○	○	○
Vane Control (Louver Angle)	○	○	○	○	○	○	○
E.S.P (External Static Pressure)	○	○	○	○	○	-	-
Electric Failure Compensation	○	○	○	○	○	-	○
Indoor Temperature Display	○	○	○	○	○	○	○
ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
Advanced	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep / On / Off	Weekly
Schedule / Timer	○	○	○	-	-	-	-
Additional Mode Setting ¹⁾	○	○	○	-	-	○	-
Time Display	○	○	○	-	-	-	-
Humid. Display	○	○	-	-	-	-	-
Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Mode Lock	-	-	-	-
Filter Sign	○	○	○	-	-	-	-
Energy Management ²⁾	○	○	○	-	-	-	-
Dual Set Point	○	○	-	-	-	-	-
Human Detection	-	○	-	-	-	-	-
Temp, Humidity Compensation	○	○	-	-	-	-	-
Wifi AP mode setting	○	○	○	○	○	○	-
ETC	○	○	○	○	○	-	-
Operation Status LED	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-	-
Wireless Remote Controller Receiver	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
Display	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-
Size (W x H x D, mm)	○	○	-	-	-	-	-
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)

VENTILATION SOLUTIONS

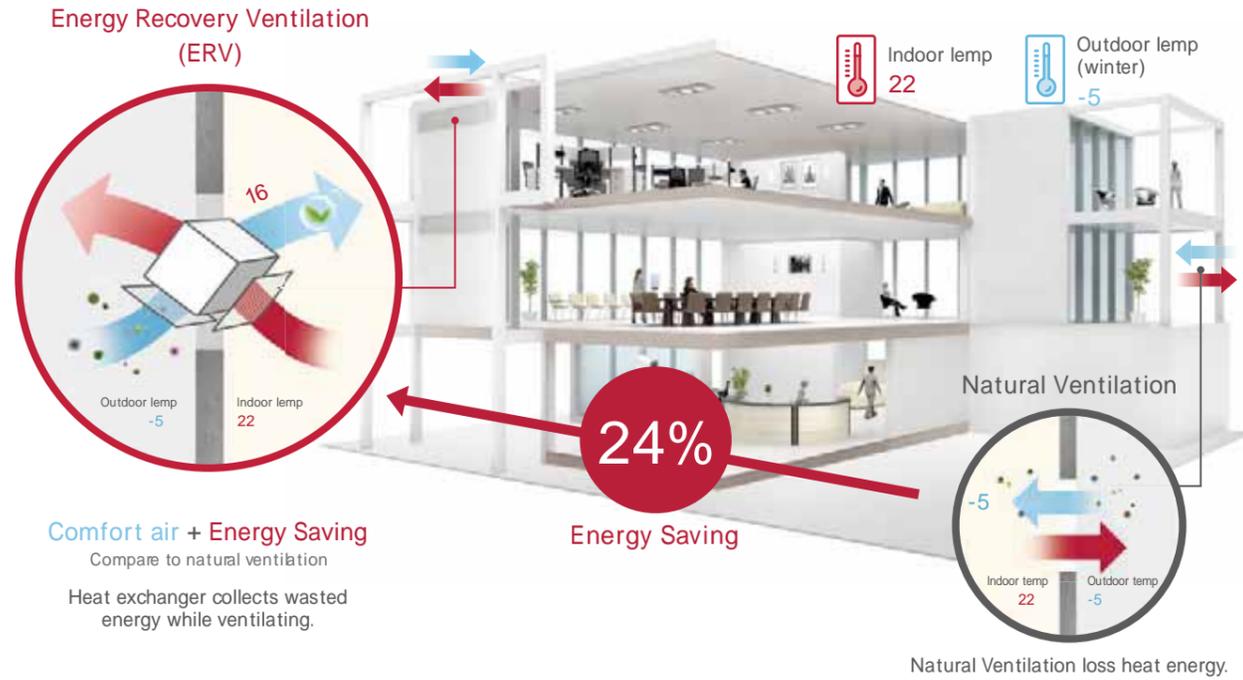
—
ERV / ERV WITH DX COIL



ERV

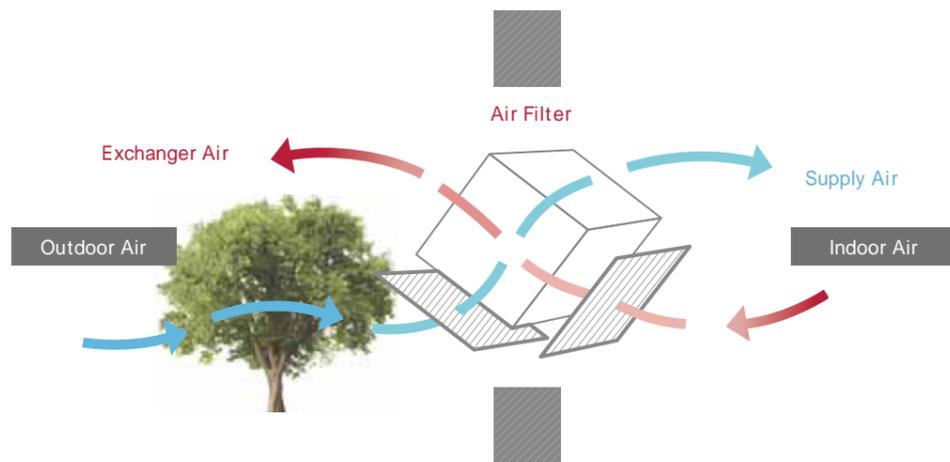
Necessity of ERV

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



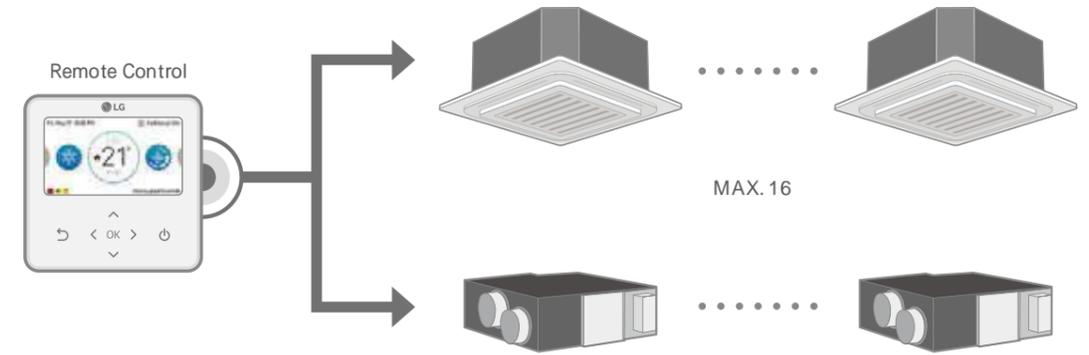
High Efficiency Heat Exchanger

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



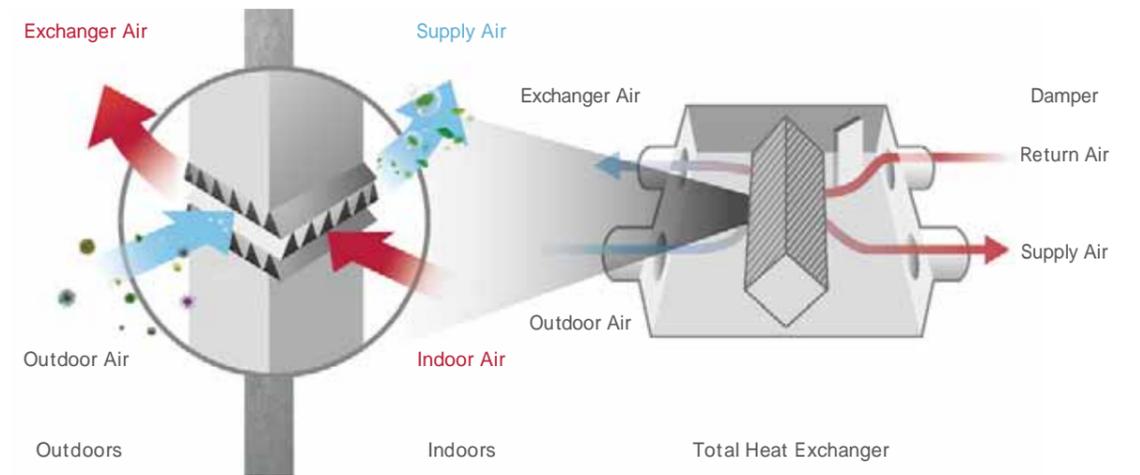
Interlocking with Air Conditioning System

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



Compulsory Exhausting System

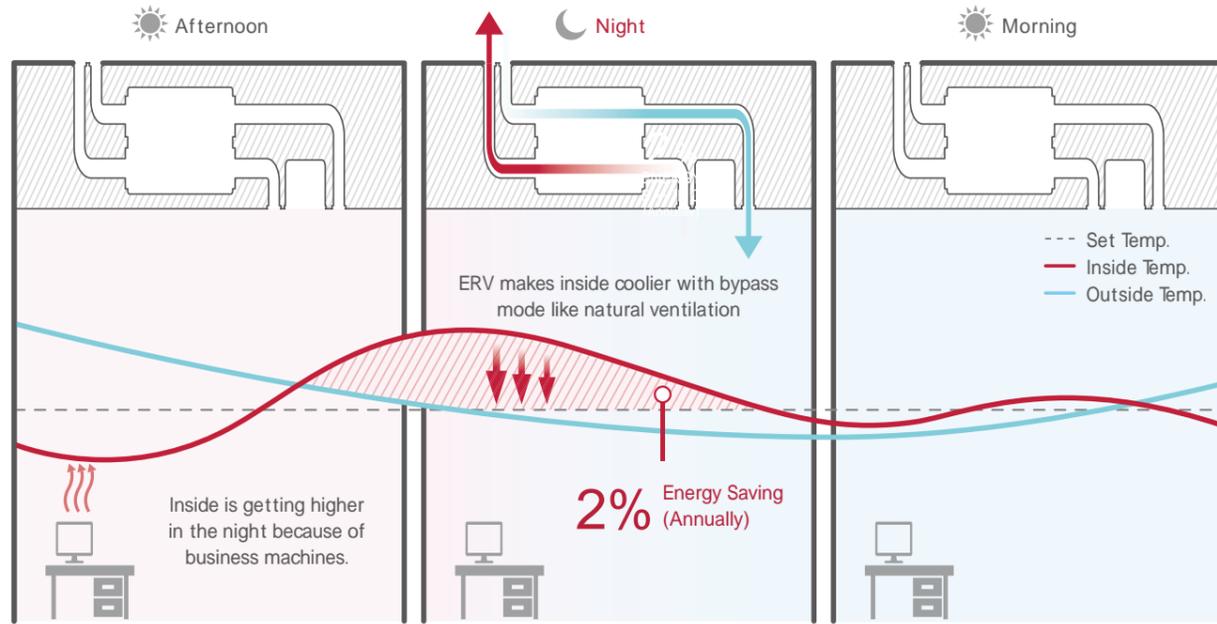
The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, LG ERV can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



ERV

Night Time Free Cooling

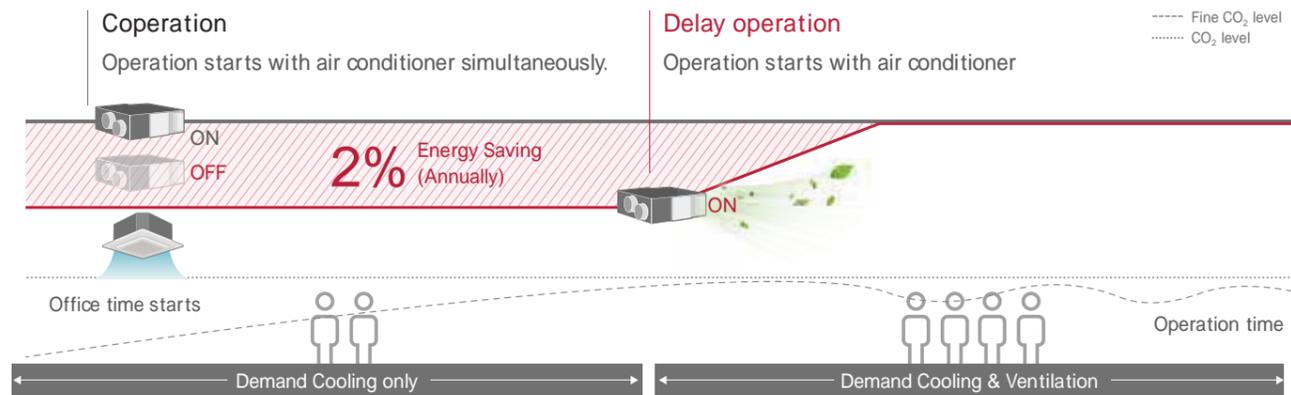
Discharge the indoor heat in the summer night and supply cool outdoor air to indoors. so it can save energy.



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

Delay Operation

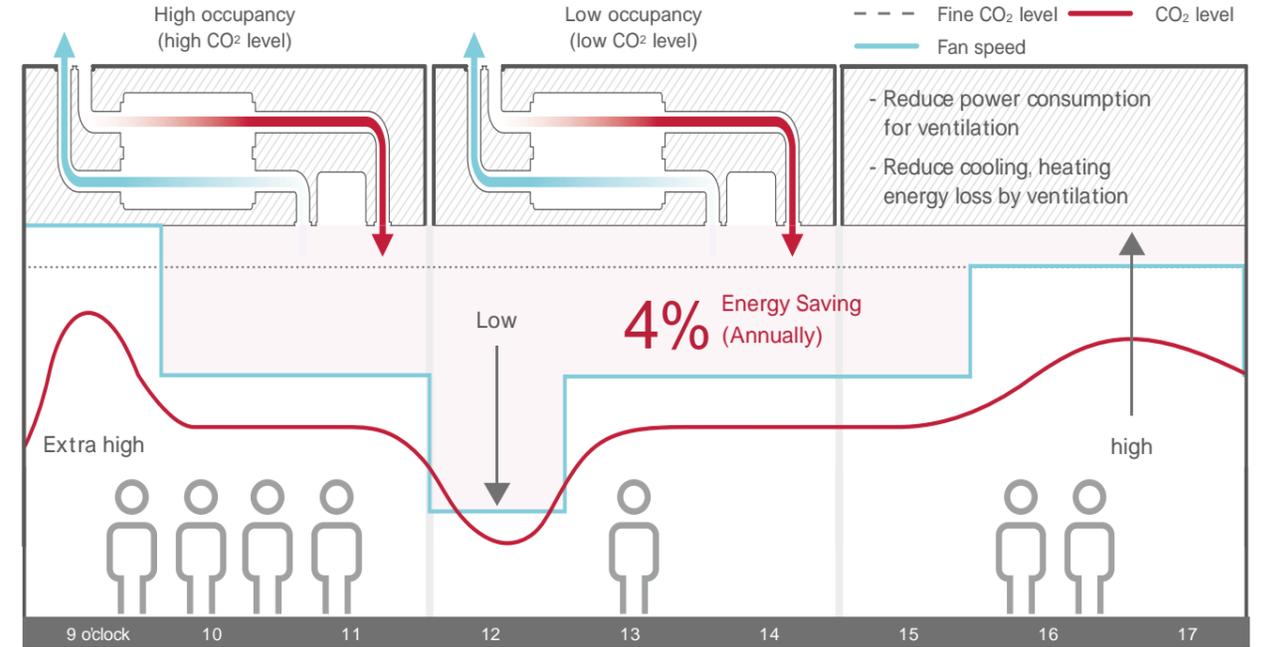
When you turn on the air conditioner and ERV at the same time, Delay Operation can reduce unnecessary heating and cooling energy loss slows down automatically ERV operation.



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

CO₂ Auto Operation

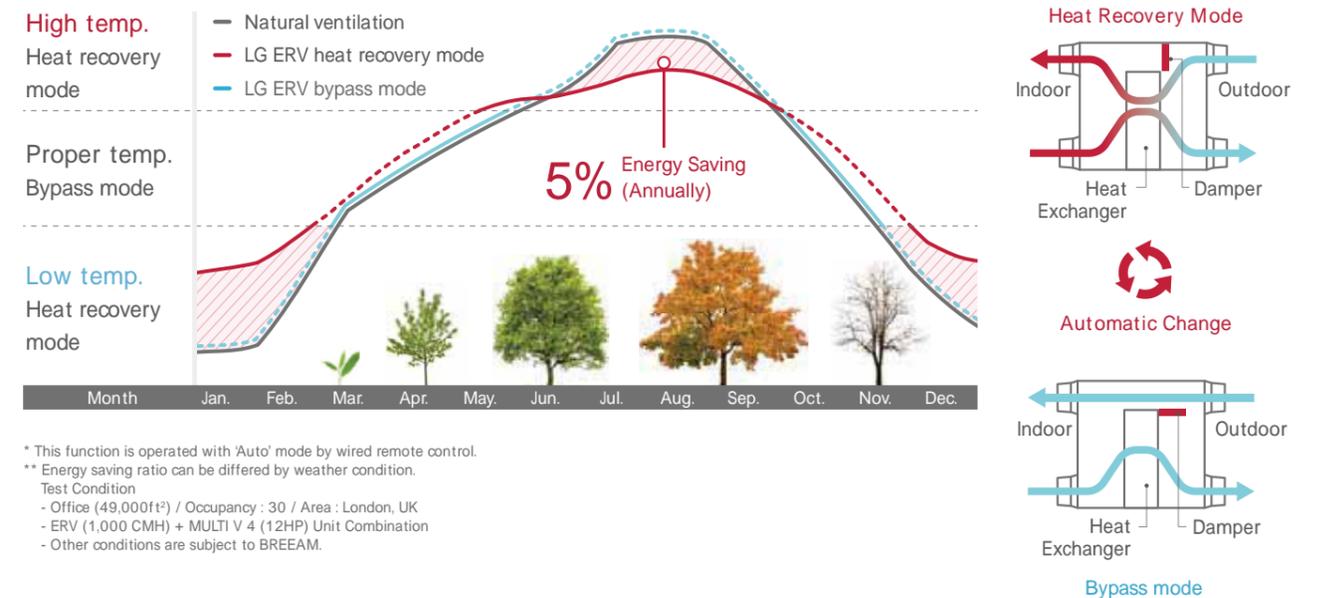
LG ERV reduces energy loss with auto fan speed control following CO₂ level



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

Seasonal Auto Operation

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



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

OUTDOOR UNITS
INDOOR UNITS
HOT WATER SOLUTION
VENTILATION SOLUTIONS
CONTROL SOLUTIONS
ACCESSORIES

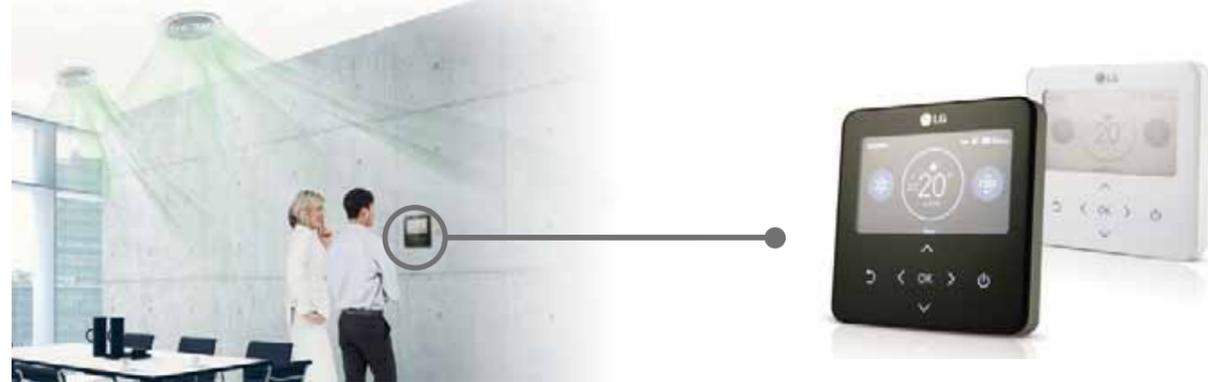
ERV

CO₂ Level Monitoring

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

CO₂ Level Visualization

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



Main display

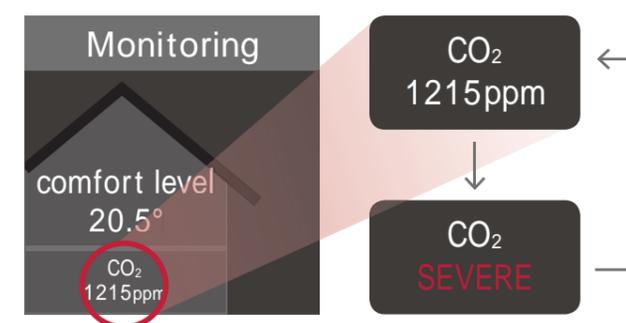
If the CO₂ level is above 900ppm in the room, the red mark is on.



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

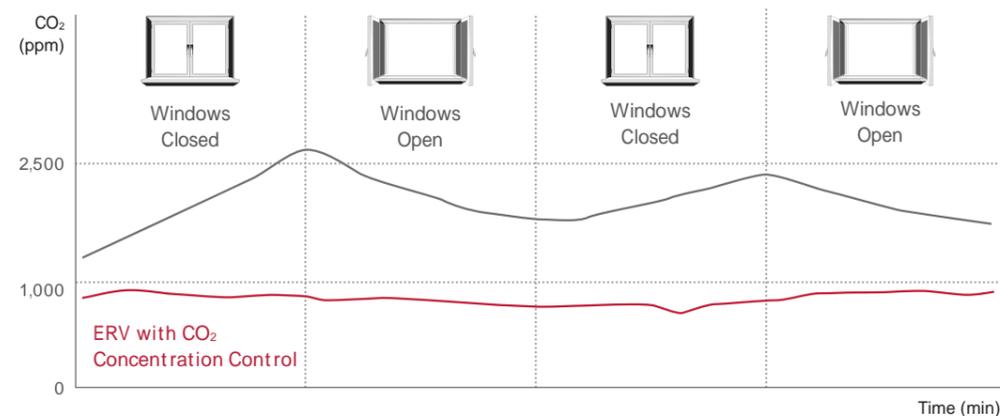
Further information

CO₂ level and room condition are displayed continuously.



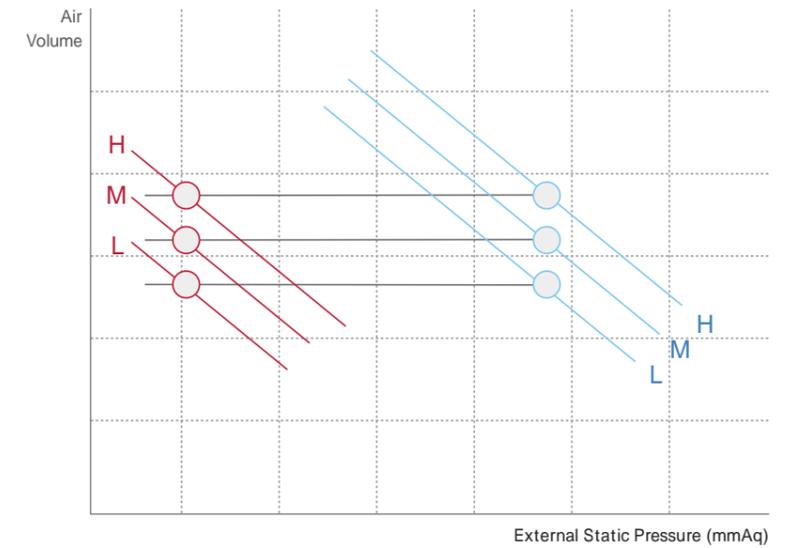
CO₂ Concentration Control

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



External Static Pressure Control

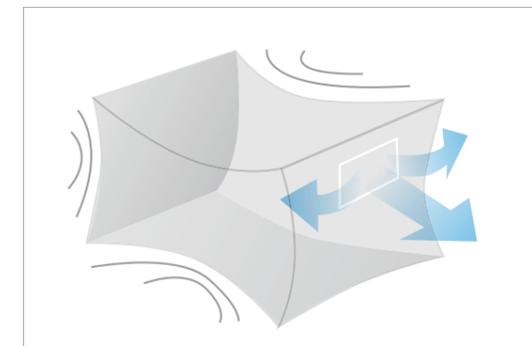
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



Fast Ventilation Mode

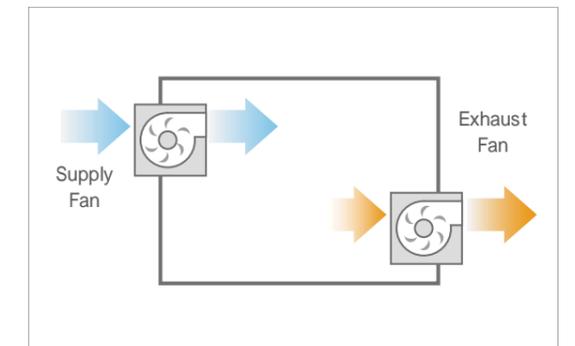
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



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

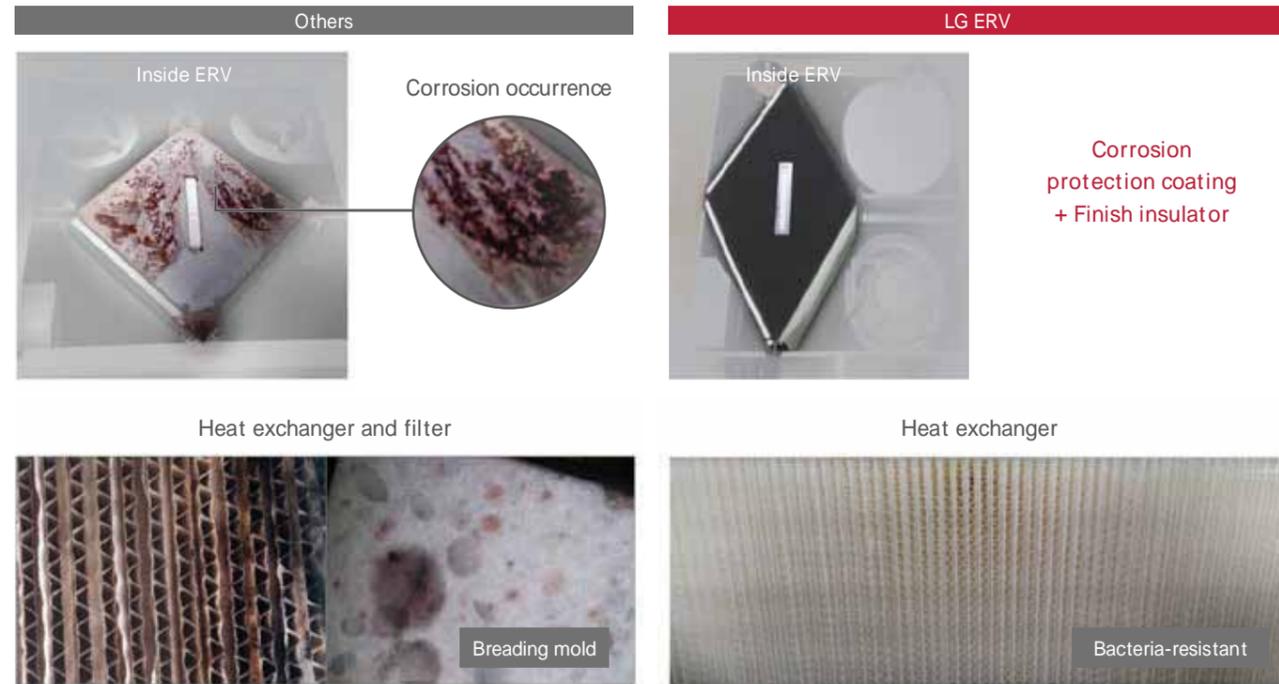
Fast Ventilation Mode



ERV

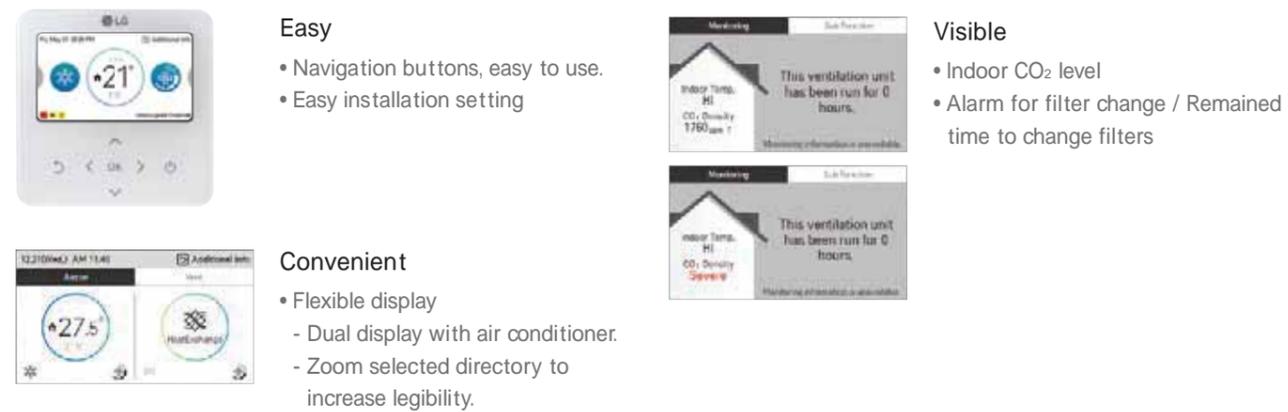
High Durability

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



Easy Controller

Wired remote controller is easy for usage.

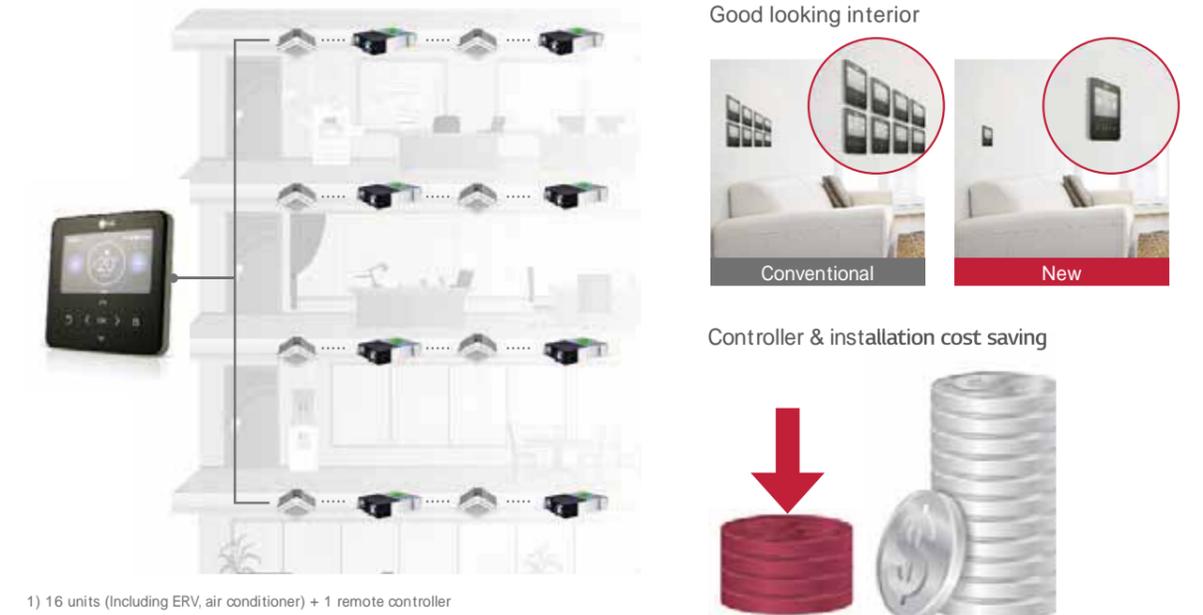


Group Control

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

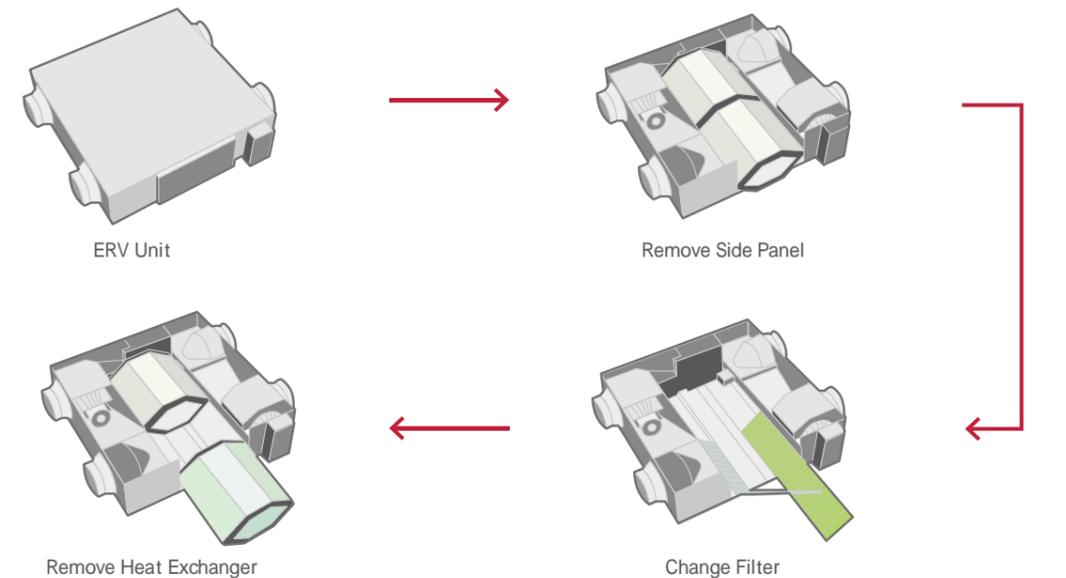
Several units combination

16 units group control is available with 1 remote controller.



Easy Cleaning and Filter Change

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



LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4



Model		LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4
Nominal Capacity	CMH (CFM)	250 (147)	350 (206)	500 (294)
Power Supply	Ø / V / Hz	1 / 220-240 / 50, 60		
ERV Mode	Step	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42
	Power Input	SH / H / L	W	97 / 78 / 52
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72
		Cooling (SH / H / L)	%	66 / 66 / 68
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 28 / 24
	Bypass Mode	Step	SUPER-HIGH / HIGH / LOW	
Current		SH / H / L	Amps	0.70 / 0.60 / 0.42
Power Input		SH / H / L	W	97 / 78 / 52
Air Flow		SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)
External Static Pressure		SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)
Noise Level (Sound Level, 1.5m)		SH / H / L	dB (A)	29 / 29 / 25
Heat Exchanger	Type	Air to air cross flow heat exchange		
Net Weight	kg	44	44	44
Dimension	W x H x D	mm	988 x 273 x 1,014	988 x 273 x 1,014
Duct work*	Qty	EA	4	
	Size (Ø)	mm	Ø200	
Supply Air Fan	Qty	EA	1	
	Type	-	Direct-Drive (Sirocco Fan)	
Exhaust Air Fan	Qty	EA	1	
	Type	-	Direct-Drive (Sirocco Fan)	
Filters (Default)	Qty	EA	2	2
	Type	-	Cleanable fibrous fleeces	
	Size (W x H x D)	mm	855 x 10 x 160	855 x 6 x 230
Filters (Optional)	Model	-	AHFT035H0	AHFT050H0
	Qty	EA	2	2
	Type	-	F7	
	Size (W x H x D)	mm	423.5 x 132 x 25	425 x 194 x 25
Dry Contact		PDRYCB000		

- Note : 1. ERV mode : Total Heat Recovery Ventilation mode
 2. * : Refer to dimensional drawings.
 3. Noise level : - The operating conditions are assumed to be standard
 - Sound measured at 1.5m below the center the body.
 - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
 4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
 5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
 6. Temperature Exchange efficiency is tested at heating condition.
 7. F7 Filter is 2 pieces in 1 filter package

Premium	Standard III	Standard II	CO ₂ Sensor
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTBB01 PREMTB001	AHCS100H0 (Internal Type)

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



Model		LZ-H080GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4
Nominal Capacity	CMH (CFM)	800 (471)	1,000 (589)	1,500 (883)	2,000 (1,177)
Power Supply	Ø / V / Hz	1 / 220-240 / 50, 60			
ERV Mode	Step	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	72 / 72 / 74	70 / 70 / 72
		Cooling (SH / H / L)	%	63 / 63 / 66	59 / 59 / 63
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	40 / 37 / 31	41 / 38 / 32
	Bypass Mode	Step	SUPER-HIGH / HIGH / LOW		
Current		SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76
Power Input		SH / H / L	W	390 / 280 / 187	480 / 385 / 210
Air Flow		SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)
External Static Pressure		SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
Noise Level (Sound Level, 1.5m)		SH / H / L	dB (A)	41 / 38 / 32	41 / 39 / 33
Heat Exchanger	Type	Air to air cross flow heat exchange			
Net Weight	kg	62	140		
Dimension	W x H x D	mm	1,062 x 365 x 1,140	1,313 x 738 x 1,140	
Duct work*	Qty	EA	4	4 + 2	
	Size (Ø)	mm	Ø250	Ø250 + Ø350	
Supply Air Fan	Qty	EA	1	2	
	Type	-	Direct-Drive (Sirocco Fan)		
Exhaust Air Fan	Qty	EA	1	2	
	Type	-	Direct-Drive (Sirocco Fan)		
Filters (Default)	Qty	EA	2	4	
	Type	-	Cleanable fibrous fleeces		
	Size (W x H x D)	mm	1,056 x 6 x 212.5		
Filters (Optional)	Model	-	AHFT100H0		
	Qty	EA	2	4	
	Type	-	F7		
	Size (W x H x D)	mm	520 x 192 x 25		
Dry Contact		PDRYCB000			

- Note : 1. ERV mode : Total Heat Recovery Ventilation mode
 2. * : Refer to dimensional drawings.
 3. Noise level : - The operating conditions are assumed to be standard
 - Sound measured at 1.5m below the center the body.
 - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
 4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
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 6. Temperature Exchange efficiency is tested at heating condition.
 7. F7 Filter is 2 pieces in 1 filter package

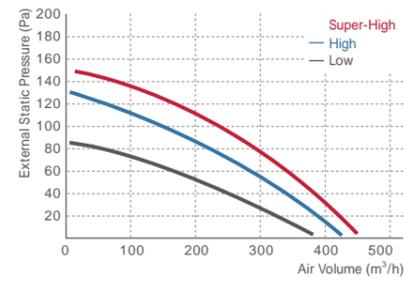
Premium	Standard III	Standard II	CO ₂ Sensor
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTBB01 PREMTB001	AHCS100H0 (Internal Type : Default)

ERV

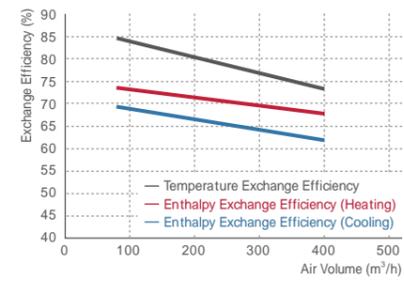
LZ-H025GBA4



Ventilation



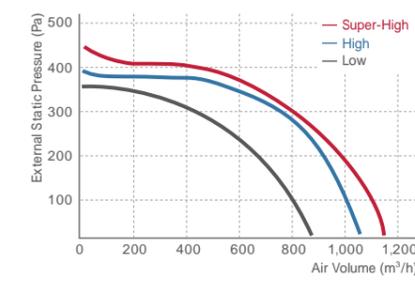
Efficiency



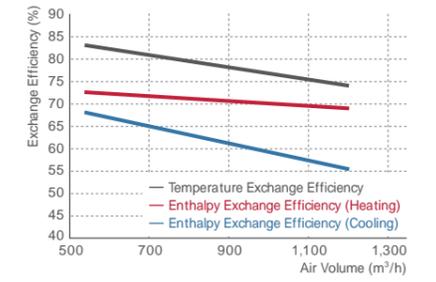
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Ventilation



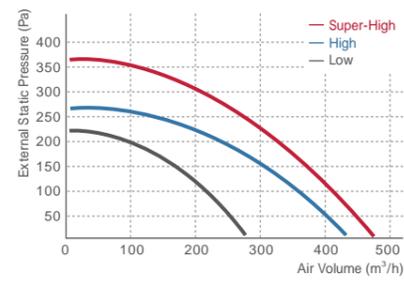
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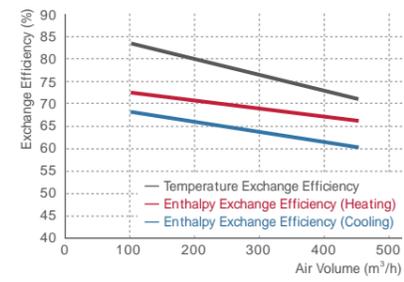
LZ-H035GBA4



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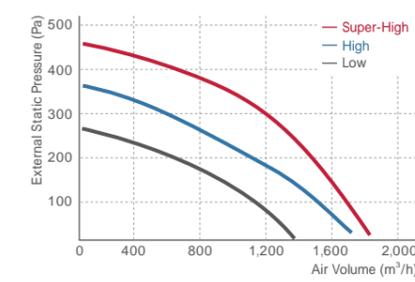
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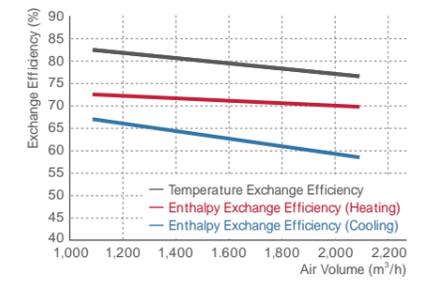
LZ-H150GBA4



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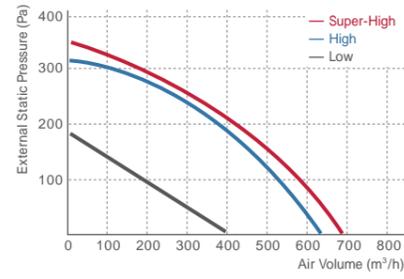
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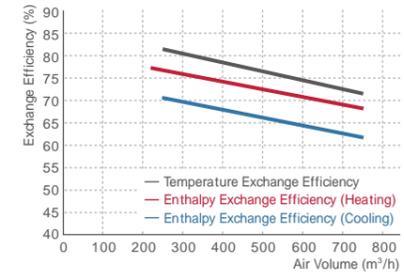
LZ-H050GBA4



Ventilation



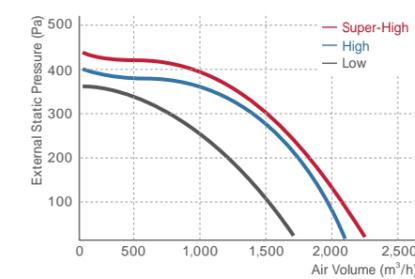
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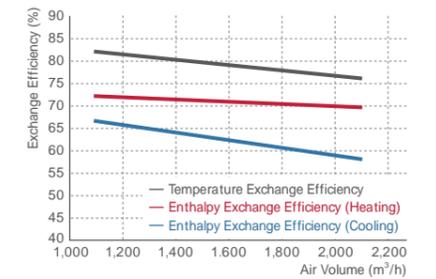
LZ-H200GBA4



Ventilation



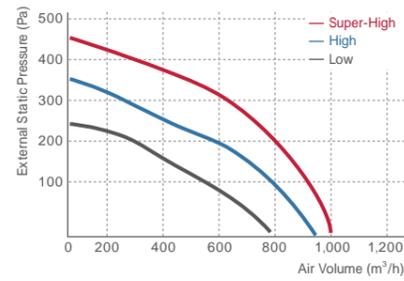
Efficiency



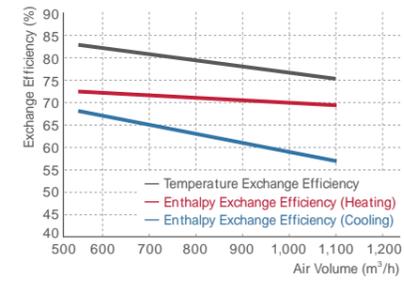
LZ-H080GBA4



Ventilation



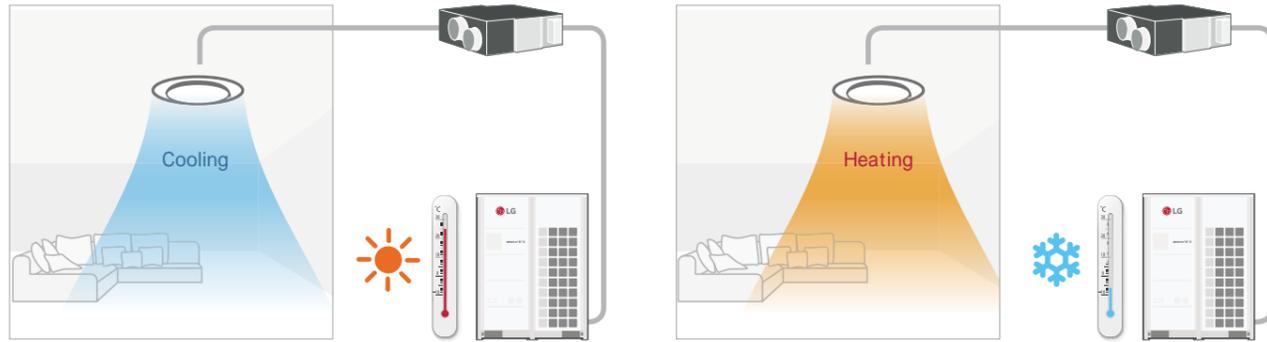
Efficiency



ERV WITH DX COIL

Providing Cool & Warm Fresh Air

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

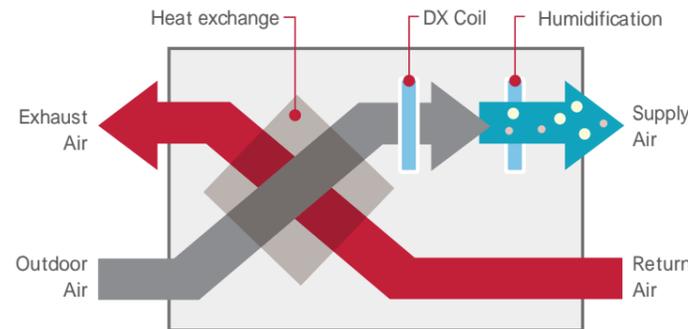


LZ-H050GXH4 / LZ-H080GXH4 / LZ-H100GXH4
LZ-H050GXN4 / LZ-H080GXN4 / LZ-H100GXN4



Total Air Conditioning Solution

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



Model		LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4	
Fresh Air Conditioning Load	Cooling	4.93	7.46	9.12	4.93	7.46	9.12	
	Heating	6.73	9.80	11.72	6.73	9.80	11.72	
Temperature Exchange Efficiency	SH / H / L	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	
	Enthalpy Exchange Efficiency	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	
Operation Range	Outdoor air Temperature	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	
	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Air Flow Rate	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80
Humidifier	System	Natural Evaporating Type						
	Amount	kg/h	2.70	4.00	5.40			
	Pressure Feed Water	Mpa	0.02 ~ 0.49					
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB (A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB (A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant		R410A						
Power Supply	Ø / V / Hz	1 / 220-240 / 50, 60						
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat exchange system		Air to air cross flow total heat (sensible + latent heat) exchange			Air to air cross flow total heat (sensible + latent heat) exchange			
Heat exchange element		Specially processed non-flammable paper			Specially processed non-flammable paper			
Air Filter		Multidirectional fibrous fleeces			Multidirectional fibrous fleeces			
Dimensions	W x H x D	mm			mm			
Net Weight		kg			kg			
	Liquid	mm			mm			
Piping Connection	Gas	mm			mm			
	Water	mm			mm			
	Drain Pipe (Internal Dia.)	mm (inch)			mm (inch)			
Connection Duct Diameter		mm			mm			

- Note : 1. Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2. Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3. Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
4. Cooling and heating capacities are based on the following conditions. : Fan is based on High and Super-high.
5. The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber.
6. The specifications, designs and information here are subject to change without notice.

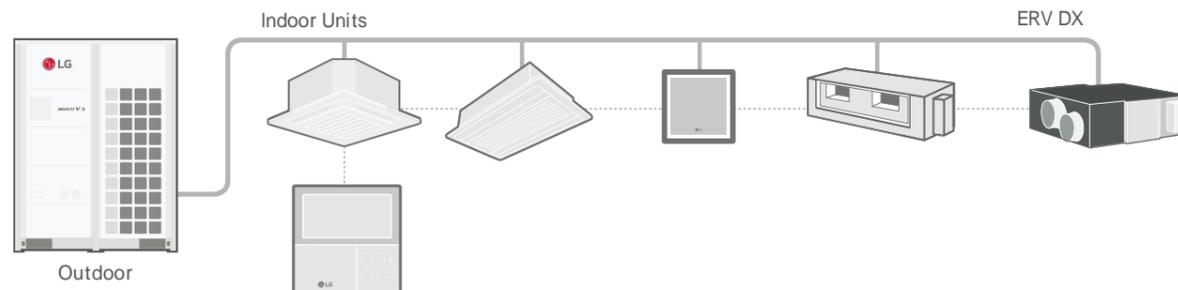
Accessories

Chassis	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump	-	-	-	-	-	-
Cassette Cover	-	-	-	-	-	-
Refrigerant Leakage Detector	-	-	-	PRLDNV50	-	-
EEV Kit	-	-	-	-	-	-
Independent Power Module	-	-	-	-	-	-
Robot Cleaner	-	-	-	-	-	-
Pre Filter (washable / anti-fungus)	-	-	-	-	-	-
Ion Generator	-	-	-	-	-	-
CO ₂ Sensor	-	-	-	AHCS100H0	-	-
Ventilation Kit	-	-	-	-	-	-
IR Receiver	-	-	-	-	-	-
Zone Controller	-	-	-	-	-	-
Dry Contact (with additional accessory)	-	-	-	PDRYCB000 (1 point contact)	PDRYCB500 (Modbus)	-
External Input (1 point)	-	-	-	-	-	-
Wi-Fi	-	-	-	-	-	-

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

Interlocking with MULTI V

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





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