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MULTI V™

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MULTI V™

LG HVAC SOLUTION

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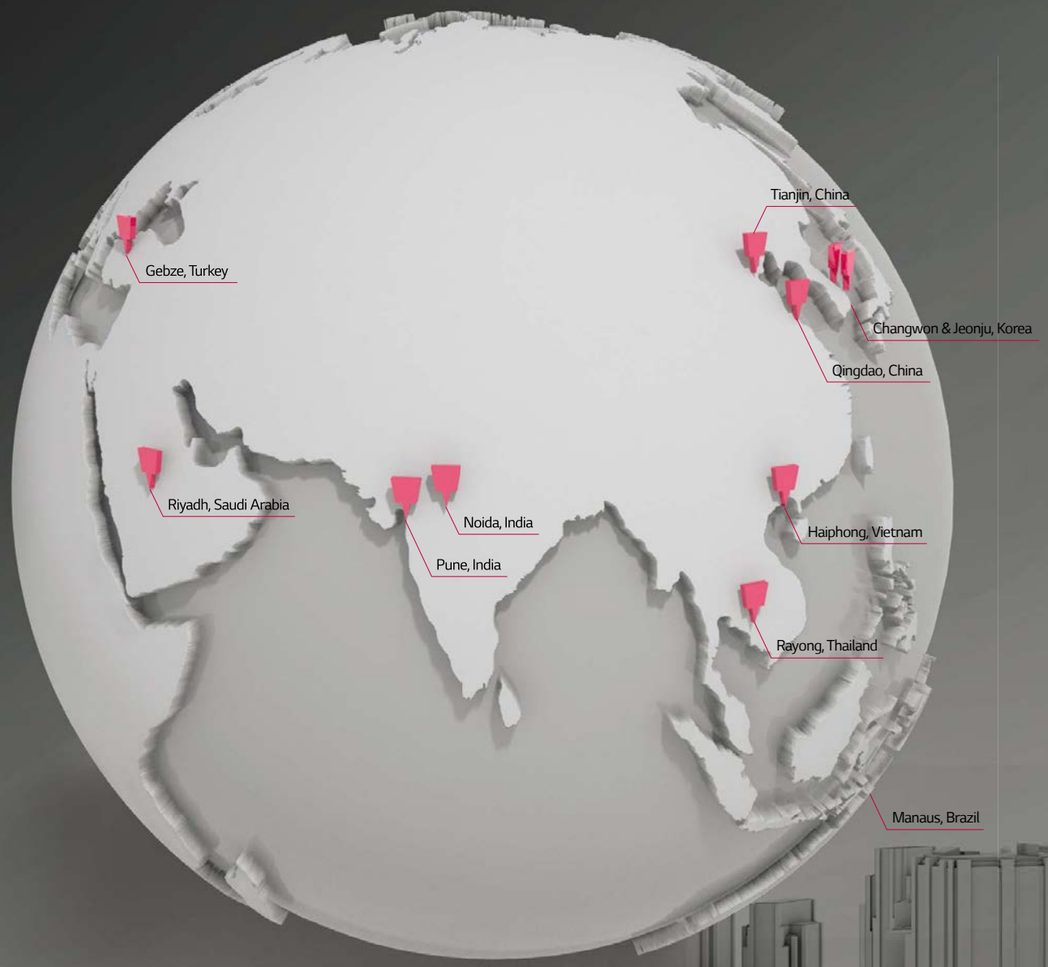
INDEX

LG AIR SOLUTION

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER



* LG Air Solution production sites

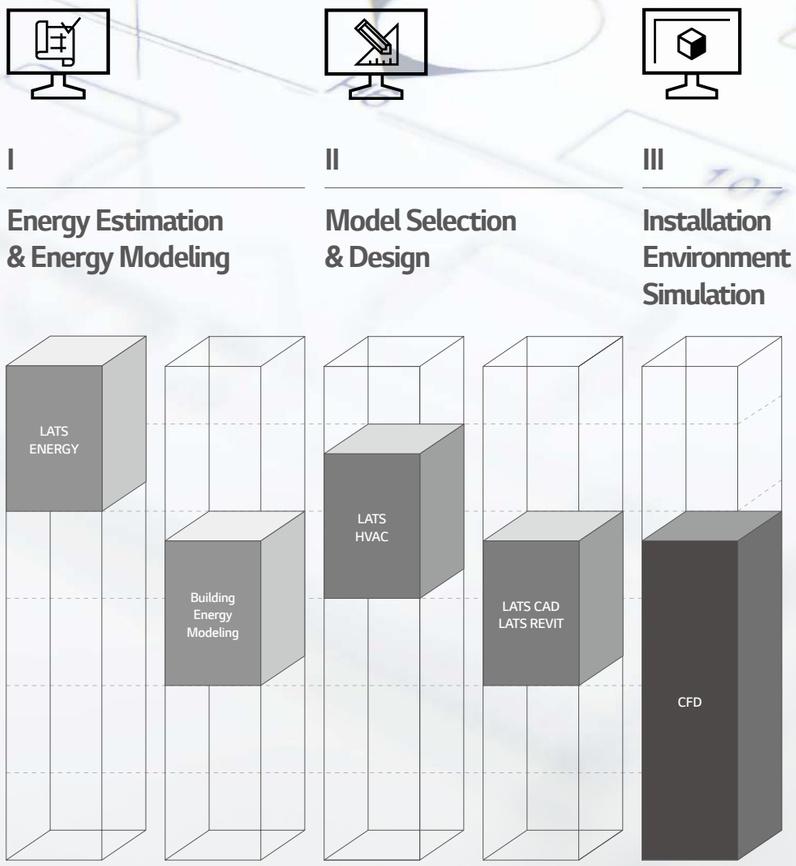
The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls.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

ENGINEERING CAPABILITY : HVAC TOOL & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes along 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. Due to the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout the 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 and the most optimized 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**

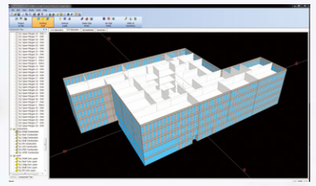


01 Draft Energy Estimation

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.

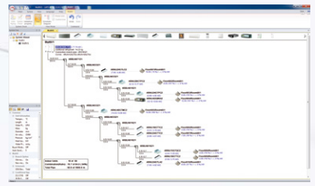
02 Building Energy Modeling

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

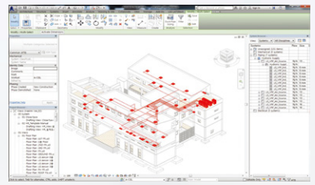
LATS HVAC
LATS HVAC is an integrated model selection program of LG HVAC products, enabling an accurate and quick selection on the best model suitable to each sites. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto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



04 Design

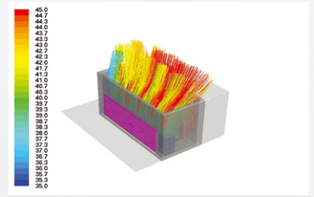
LATS CAD
LATS CAD enables faster and a more accurate design of LG HVAC products. Moreover, it offers not only designing, but also quotation and installation review in order to minimize problems during installation processes.

LATS Revit
LATS REVIT is developed to make 3D designing of LG HVAC products easier than the previous program. It enables engineers to check 3D images from designing stage and prevents possible issues of the installation stage.



05 Installation 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.

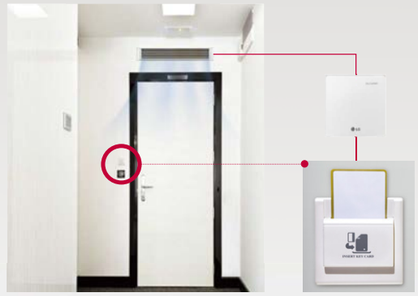


LG CONTROL SOLUTION

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

HOTEL

Hotel Room Solution



92kW

20kW

50kW

OFFICE

3rd Party BMS

Central Control Solution

Service/Maintenance

· Energy Management

· External Device

Lighting | Pump | Fan | CO_2 Sensor | Temp. Sensor

Integration Solution

reddot award
communication design

APARTMENT

Power Distribution Solution

RESIDENTIAL

Smart Individual Control Solution

SMALL BUILDING

Small Central Control Solution

OUTDOOR UNIT

MULTI V 5
MULTI V WATER IV

MULTI V S

OUTDOOR UNIT

LINE-UP

Unit : HP

Type	Features	Appearance	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	····	96
MULTI V 5	• High Efficiency • Ultimate Inverter Compressor • Large Capacity ODU with Biomimetics Technology Fan • Dual Sensing Control • Ocean Black Fin					●	●	●																																		
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																																							●	●	●	●	●	●
MULTI V S	• Saves valuable floor space • Flexible design applications - Slim, light and wide line up (4 ~ 12HP) - Combination of indoor unit		○	○																																						
			●	○●	○●																																						
						●	●	●																																			
MULTI V WATER IV	• Saves valuable floor space • Low noise level (no fans) • Flexible design applications • High efficient water source system					●	●	●	●	●	●	●																														
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● 380V, 3Ø ○ 220V, 1Ø

OUTDOOR UNIT KEY FEATURES

MULTI V 5

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 VRFs.

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 HiPORTM that directly returns oil to compressor and Vapor Injection that allows double compression by adding mid-pressure refrigerant. The innovative technologies of 4th generation secured MULTI V brand the product leadership based on efficient system like Smart Load Control that controls operational load according to external temperature and other technologies that are optimized to manage refrigerant and heat exchange for all cooling, heating and part load operations. Moreover, MULTI V developed wide range of VRF line-up that could satisfy various types and size of building; 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, finally, 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.

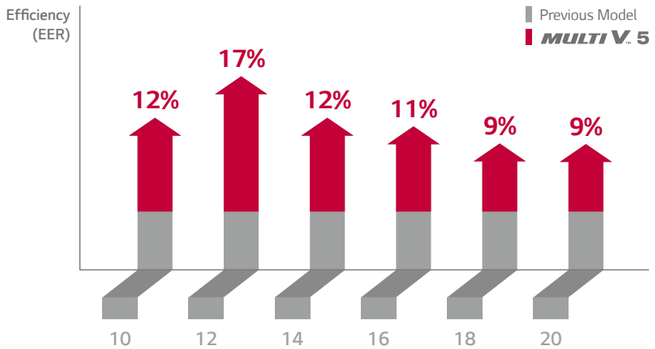
OUTDOOR UNIT KEY FEATURES

MULTI V 5

HIGH EFFICIENCY

With various industry-leading technologies, such as Ultimate Inverter Compressor and Dual Sensing Control, LG MULTI V 5 offers the world class high efficiency. These advanced technologies help MULTI V 5 to achieve the lowest energy consumption while preserving the environment.

Efficiency comparison



OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE INVERTER COMPRESSOR

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

All Inverter
Provide high efficiency with low vibration and low noise

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

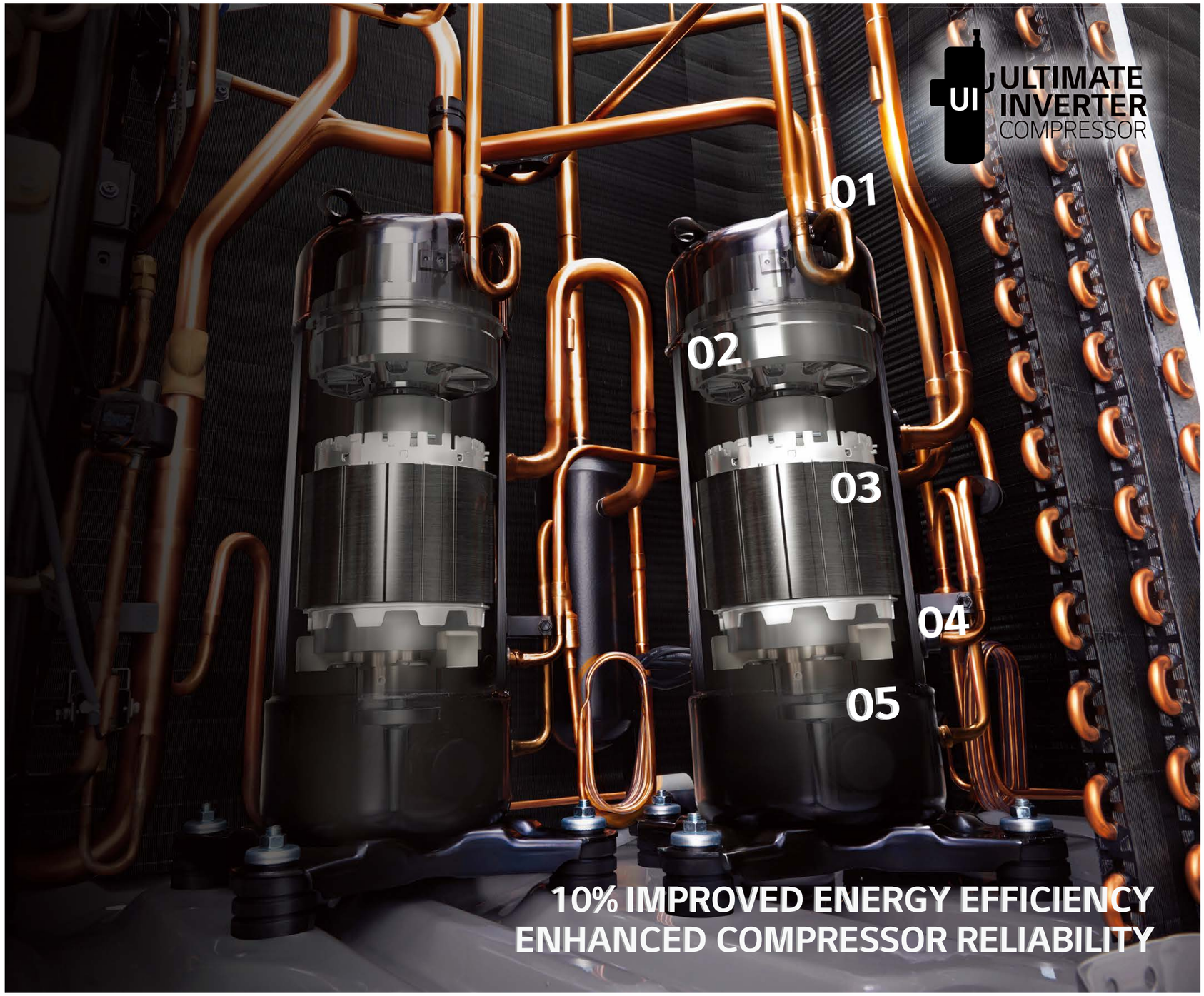
01. Vapor Injection
Maximize heating capacity via two-stage compression

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

03. Wide Operation Range from 10 to 165Hz
Improved part load efficiency at all operation ranges

04. HiPOR™ (High Pressure Oil Return)
Resolve compressor efficiency loss caused by oil return

05. Smart Oil Management
Oil level detection in real time



OUTDOOR UNIT KEY FEATURES

MULTI V 5

LARGE CAPACITY ODU WITH BIOMIMETICS TECHNOLOGY FAN

Large Capacity Outdoor Unit

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.

Humpback Whale Design

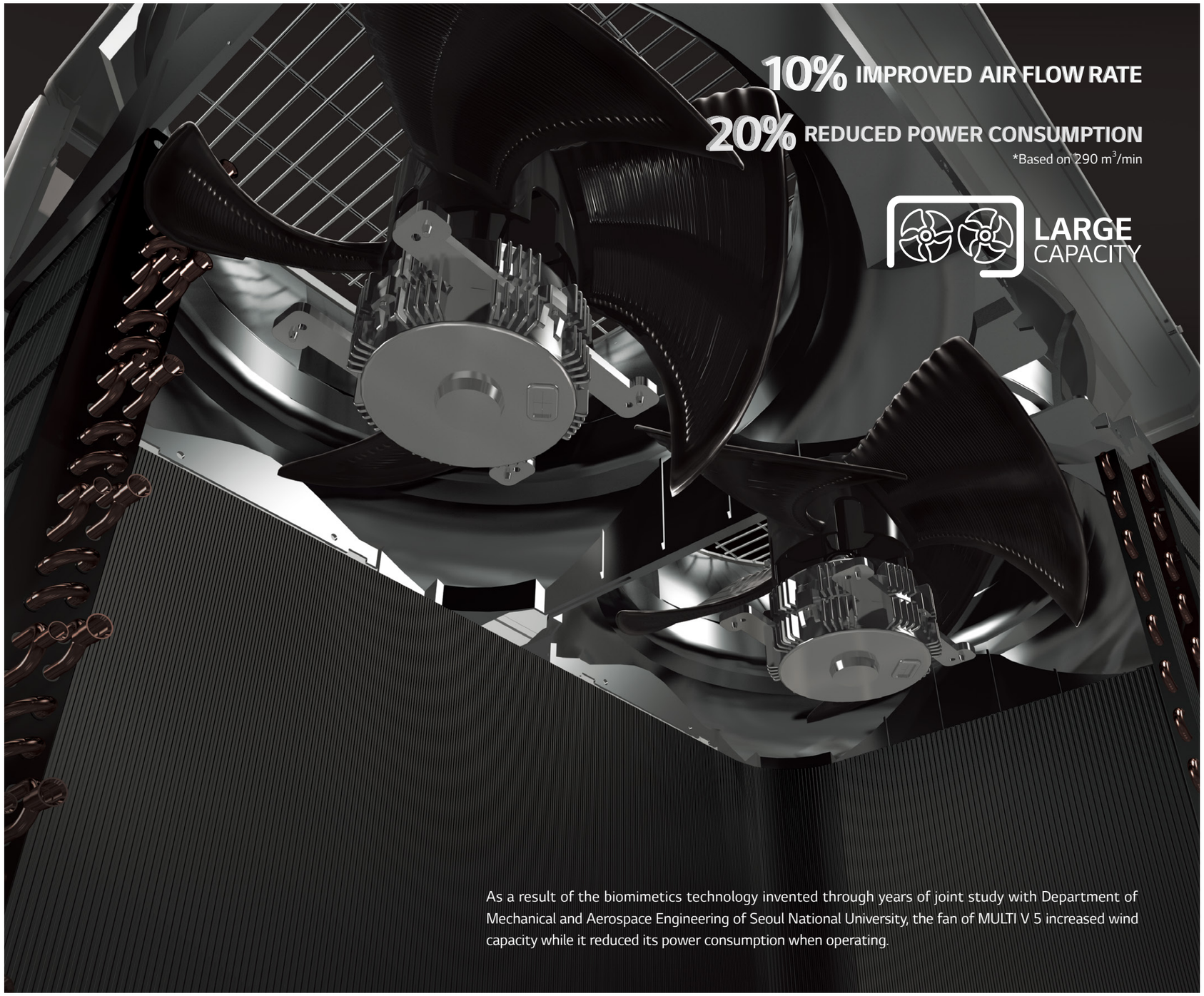
Inspired by the bumps on the humpback whale's flipper, the tubercles on the back side increased wind power by reducing flacking.

Clam Shell Pattern

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

Increased Air Flow Rate

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



As a result of the biomimetics technology invented through years of joint study with Department of Mechanical and Aerospace Engineering of Seoul National University, the fan of MULTI V 5 increased wind capacity while it reduced its power consumption when operating.

OUTDOOR UNIT KEY FEATURES

MULTI V 5

DUAL SENSING CONTROL

The cooling load is mainly based on the amount of both sensible heat load and latent heat load. Most importantly, the cooling load is keen to, and thus, greatly affected by external humidity, rather than the outdoor temperature. For such reason, Dual Sensing Control of MULTI V 5 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 eventually offers the most pleasant and comfortable cooling environment the users want with reduction in energy consumption.

Smart Load Control (SLC)

Optimizes energy efficiency for maximized indoor comfort level

Seasonal Efficiency
Up to 18%
(vs. standard mode at 26HP)

Comfort Cooling

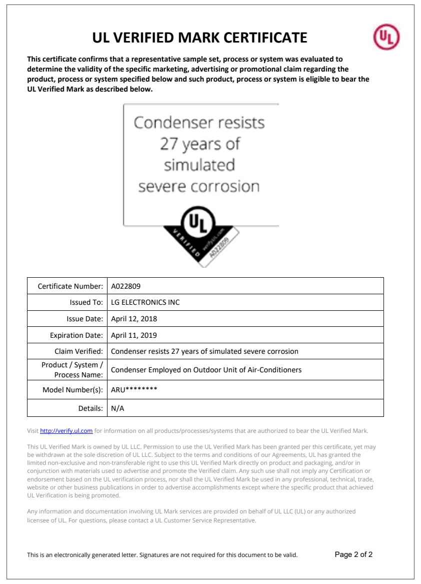
Mild cooling operation without stopping in between for maximized user comfort

Improved
Indoor Comfort

MULTI V 5

OCEAN BLACK FIN
HEAT EXCHANGER

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.



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This certificate confirms that a representative sample set, process or system was evaluated to determine the validity of the specific marketing, advertising or promotional claim regarding the product, process or system specified below and such product, process or system is eligible to bear the UL Verified Mark as described below.

Condenser resists 27 years of simulated severe corrosion

Certificate Number:	A022809
Issued To:	LG ELECTRONICS INC
Issue Date:	April 12, 2018
Expiration Date:	April 11, 2019
Claim Verified:	Condenser resists 27 years of simulated severe corrosion
Product / System / Process Name:	Condenser Employed on Outdoor Unit of Air-Conditioners
Model Number(s):	ARU********
Details:	N/A

Visit http://verify.ul.com for information on all products/processes/systems that are authorized to bear the UL Verified Mark.

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* Test Method B Simulation Validated
(Test condition: Salt contaminated condition + severe industrial/traffic environment (NO_2 / SO_2))
* Based on 1,500 UL test hours

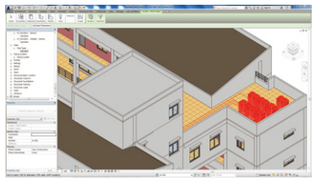
MULTI V 5

CONSULTANTS & HVAC DESIGNERS

From accurate 3D-based building modeling to strong system capability regardless of the building size and climate conditions, MULTI V 5 offers the most efficient and flexible installation environment for consultants and HVAC designers. Indeed, MULTI V 5 is the most reasonable HVAC system that has achieved the best efficiency through LG's enhanced inner parts, operational cycle and controlling technology.

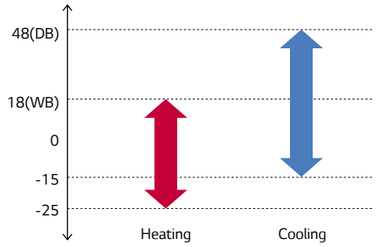
01 Improved designing effectiveness and accuracy via LATS Revit, the BIM application

LG provides 3D-based BIM simulation tool, LATS Revit, in order to offer product selection, positioning and piping from installation, interference check to correction phases based on systematic consideration of the load. This enables the easiest, yet the most accurate system modeling support.



02 Applicable to various climate conditions and purposes based on wide operational range for both heating and cooling operations

Even in the extreme climate situations, MULTI V 5 can perform stable heating and cooling operations. Due to LG's improved inner parts and cycle technology, it can perform heating operation at extremely cold temperature as low as -25C. For cooling performance, MULTI V 5 can operate from -15°C to 48°C. With wide operational range, it can perfectly perform heating operation in cold environment, making the product adequate for uses in specialized venues like server rooms.



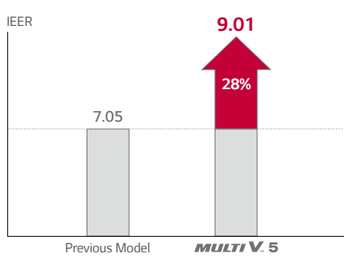
03 Flexible construction design available due to long piping technology

Through the world's best class piping technology MULTI V 5 provides the perfect solution for various types of building with diverse size and purposes. The longest piping length offered by MULTI V 5 is 225m and height difference between outdoor unit and indoor unit stretches up to 110m.

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

04 The most economical solution with the world's top class energy efficiency

Improved reliability based on LG's Ultimate Inverter Compressor and other core parts, as well as the most developed controlling technology due to optimal cycle operation achieved the world's best class seasonal efficiency (IEER) of 9.01. As a result, this enables the most economical system capability for MULTI V 5 in comparison to any other existing HVAC systems.



* Comparison based on 10HP in cooling mode

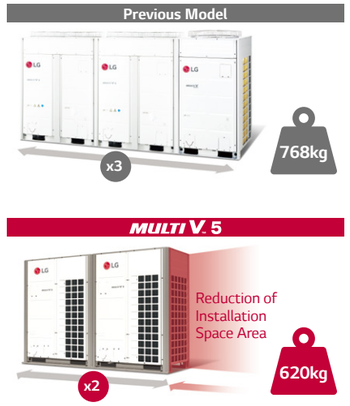
MULTI V 5

INSTALLERS

Due to increased capacity provided by single outdoor units, installation became simpler with reduced number of outdoor unit combination. Moreover, solutions connected to and operated by smart devices significantly shortened physical hours required for test run, diagnose and monitoring of multiple services while making these controlling more accurate.

01 Increased installation convenience due to large capacity units reducing number of outdoor units required for combination

By providing up to 26HP for single unit line up, MULTI V 5 decreases the total number of required outdoor units in order to ultimately simplify installation process, when compared to previous models. For example, previous system required a combination of a 20HP outdoor unit, a 18HP outdoor unit and a 10HP outdoor unit to run a total of 48HP. For MULTI V 5, however, only 2 outdoor units with each providing 24HP can cover the same amount. This significantly reduces installation hours, especially those that used to take long time such as using crane to properly place outdoor units on the rooftop.



02 Simple and easy installation and service with Mobile LGMV

With LGMV, the smarter SVC application, hours and resources spent for installation are significantly reduced and more accurate installation and service can be offered.

Auto test run

Mobile application allows automatic address setting and test run report releasing.

Refrigerant diagnose solution

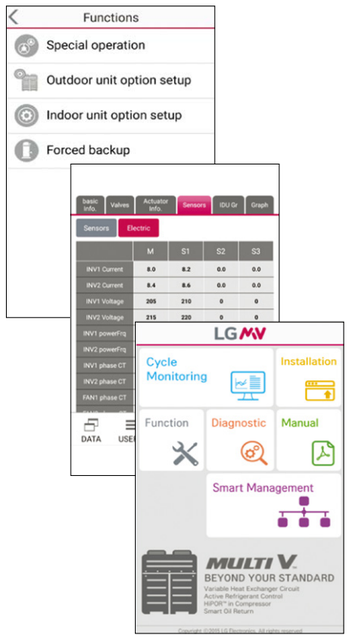
By regularly checking the amount of refrigerant, it automatically reloads if current amount is not enough.

Easier setting for installers

Unlike before when set up had to be done via DIP Switch of Outdoor unit, installers can simply manage setting via mobile app for MULTI V 5. Indeed, settings for SLC steps, Dual Sensing Control and outdoor unit fan's maximum RPM control can be easily managed via LGMV.

Smart management

By checking test run history, black box review and other previous records, site information can be managed efficiently.



MULTI V 5

BUILDING OWNERS

With increased reliability of core parts such as compressor and heat exchanger, as well as high operational efficiency, building owners can significantly reduce operational costs in comparison to other systems. At the same time, large capacity outdoor units minimize installation space which eventually allow better use of the floor space. Moreover, MULTI V 5 prevents overuse of the operational costs by planning and consuming the projected monthly energy usage.

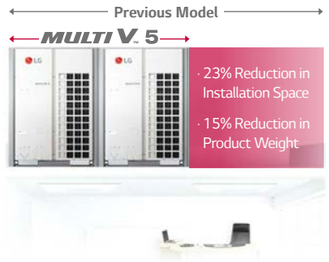
01 Corrosion resistance via Ocean Black Fin

Protection certified by UL (Underwriters Laboratories), LG's exclusive Ocean Black Fin is applied on the heat exchanger of MULTI V 5 in order to perform even in corrosive environments. The 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 5 operating without breakdown.

Ocean Black Fin

02 Minimized installation footprint via large capacity outdoor units for flexible usage of the saved floor space

MULTI V 5 provides up to 26HP for single unit line up. Considering that a total of 260HP is being installed, the total installation space is saved up to 23% while the overall product weight decreases up to 15% in comparison to previous model. This eventually resulted in the maximized use of the saved floor space. Moreover, reduced product weight of MULTI V 5 makes installation easier with less limitation on product weight installed on the building's rooftop.

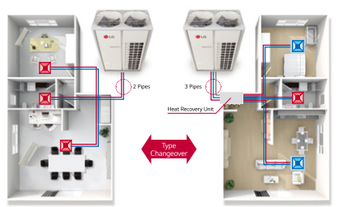


03 Operational costs management by presetting energy consumption

Energy management function allows MULTI V 5 to preset monthly energy usage and consume what has been previously planned. By analyzing and comparing previous consumption and planned energy usage for the month, overuse of the HVAC system operational costs can be prevented.

04 Easy building remodeling with Integral system that offers both the Heat Pump & Heat Recovery

MULTI V 5 offers HVAC solution with integrated system that offers both the Heat Pump and the Heat Recovery Systems.
Even if the site has been previously installed with Heat Pump System, user can easily replace it with Heat Recovery System or Hot Water Solution when necessary, through simple piping construction which eventually allows more rooms for future remodeling plans.



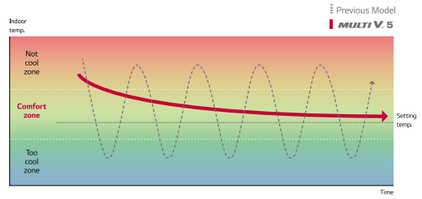
MULTI V 5

END USERS

LG's inverter technology and capability to actively respond to the building's both internal and external environment allow users to quickly arrive at the desired ambient and systematically maintain such condition. Moreover, users can control the indoor environment remotely via smartphone from wherever and whenever. Lastly, new Standard III Remote Controller with simple user interface and premium design provides users the optimal controlling experience.

01 More comfortable cooling via Dual Sensing Control

With the performance of LG's Ultimate Inverter Compressor MULTI V 5 can quickly approach at user's desired temperature. At the same time, Dual Sensing Control manages and maintains indoor temperature pleasantly based on its recognition of both the temperature and humidity in order to offer the optimal user comfort.



02 Continuous heating operation

Due to improved technologies of MULTI V 5 such as delayed defrost via Dual Sensing Control, partial defrost and smart oil management, users can enjoy pleasant and comfortable indoor environment with no stopping of heating operations in between.

CONTINUOUS HEATING

03 Optimal controlling environment with new Standard III Remote Controller

MULTI V 5's new wired remote controller offers simple and easy controlling experience via simplified user interface and 4.3-inch large colored LCD screen. Moreover, it provides diverse information such as indoor temperature, humidity, cleanliness and real-time check on energy consumption.

5
MAIN FEATURES

- ULTIMATE EFFICIENCY
- ULTIMATE PERFORMANCE
- ULTIMATE COMFORT
- ULTIMATE FLEXIBILITY
- ULTIMATE CONTROL
- HEAT RECOVERY

OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE EFFICIENCY

MULTI V 5 ensures world's best class energy efficiency with innovative technology including the LG's Ultimate Inverter Compressor.

LG's Ultimate Inverter Compressor

The newly designed bearing of the Ultimate Inverter Compressor allows low-frequency operation at 10 Hz from the previously lowest speed at 15 Hz, increasing the ultimate efficiency and reliability of MULTI V 5.

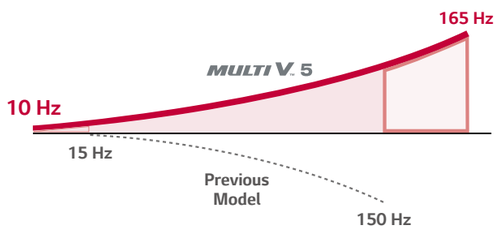
ULTIMATE INVERTER COMPRESSOR

Vapor Injection

- Maximize heating capacity via two-stage compression
- Provide powerful heating in low temperature conditions
- Improve energy efficiency and heating performance

Extended Compressor Speed from 10 Hz

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



Concentration Motor

- 10% increase of magnetic flux density

HiPOR™

- Minimizing energy loss with direct oil return

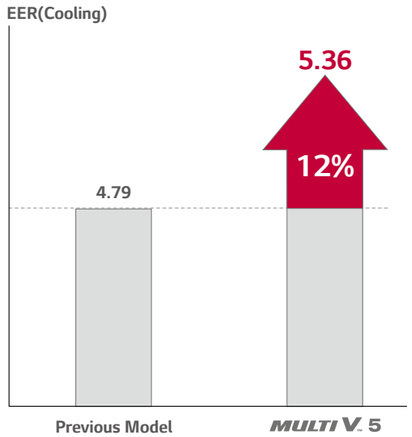
Smart Oil Management

- Measuring the presence of oil through the oil sensor

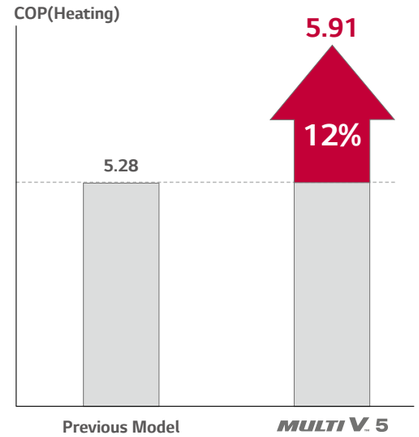
Enhanced Bearing with PEEK Material for Increased Durability and Reliability

- Applied newly invented scroll system driven by PEEK (Polyetheretherketone) bearing used for aero engine
- Can operate longer without oil supply
- Increase durability and reliability

World's First Class, Rated Efficiency (ISO Test Condition)

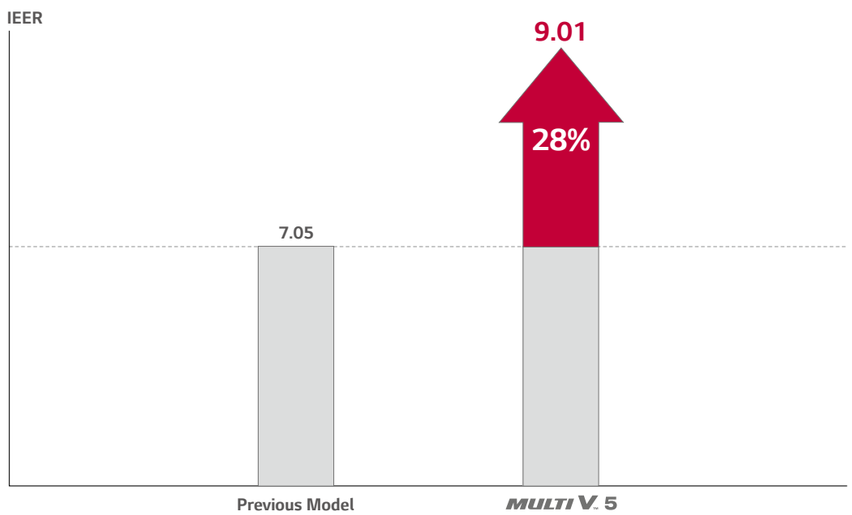


* Comparison based on 10HP in cooling mode



* Comparison based on 10HP in heating mode

World's First Class IEER



* Comparison based on 10HP in cooling mode

MULTI V 5

ULTIMATE EFFICIENCY

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 seasonal efficiency up to 18% at standard humidity condition for maximum 26 HP in comparison to the non SLC mode.

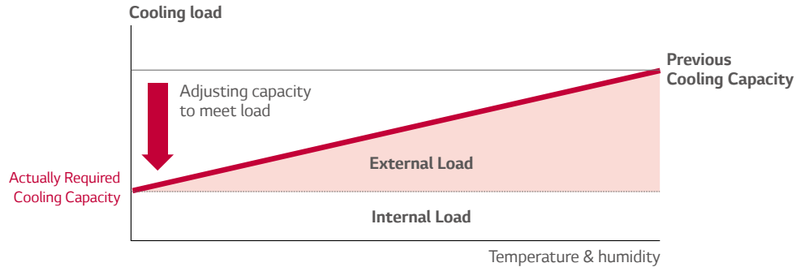
Increased Seasonal Efficiency

Up to 18%
Up to 14% (High humidity) **~ 29%** (Low humidity)

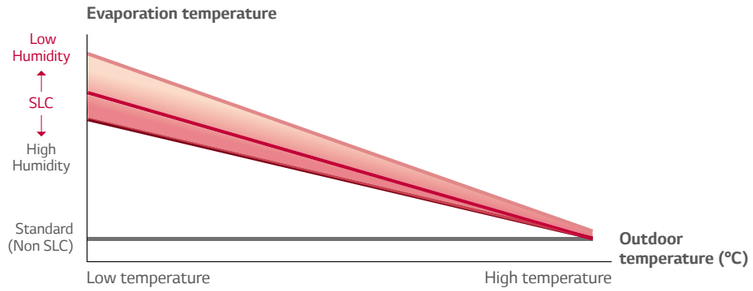
* LG internal test result

DUAL SENSING CONTROL

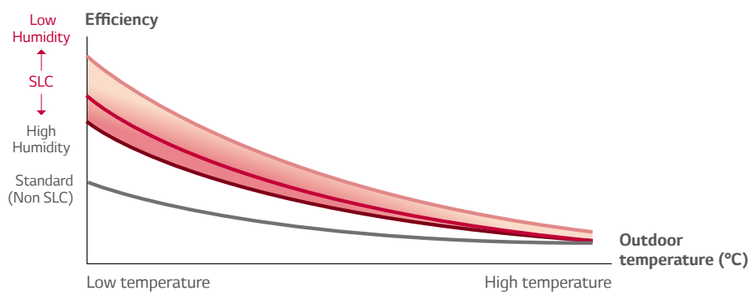
For low temperature, lower load and capacity are required



Lower load and capacity need higher evaporation temperature



Higher evaporation temperature results in higher efficiency



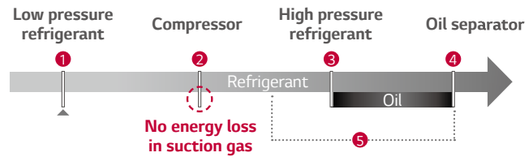
* Low humidity: Below 50% / Standard: 50~70% / High humidity: 70~100%
* Setting is available in indoor (Standard III Remote Controller)

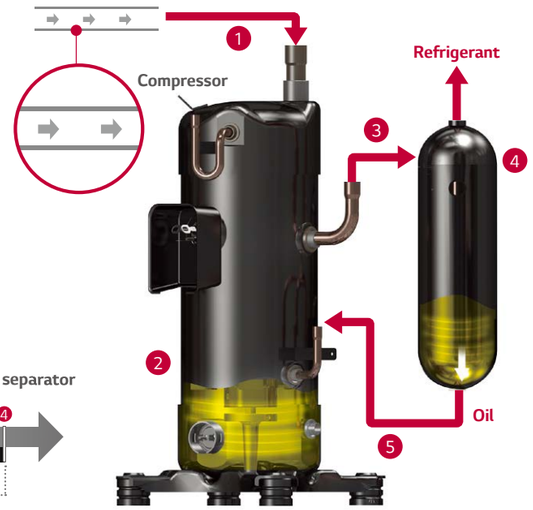
HiPOR™ (High Pressure Oil Return)

HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe in order to minimize energy losses while maximizing the efficiency of compressor.
The previous model compressor that caused loss of low pressure refrigerant return to the refrigerant pipe. However MULTI V 5 maximizes reliability and efficiency of the compressor by reducing high pressure refrigerant loss.

Process comparison

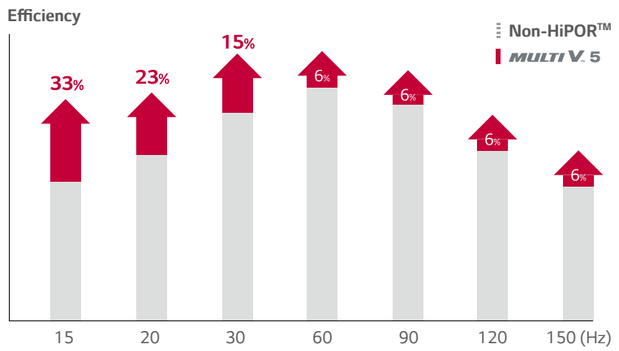
• Non-HiPOR™ vs. MULTI V 5





Efficiency comparison

• Non-HiPOR™ vs. MULTI V 5



* Rating condition (Tc=54.4°C, Te=7.2°C)

OUTDOOR UNIT KEY FEATURES

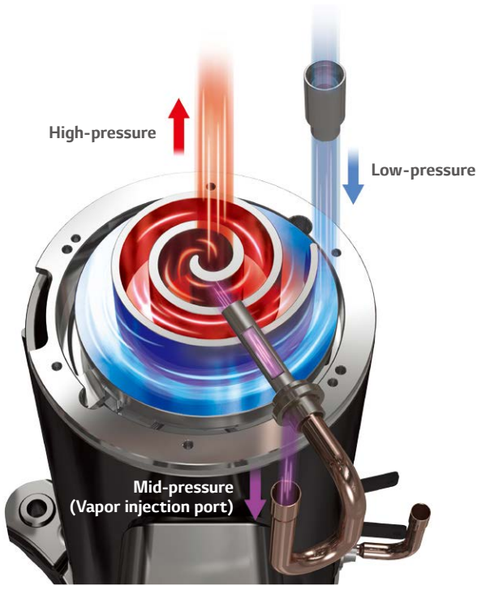
MULTI V 5

ULTIMATE EFFICIENCY

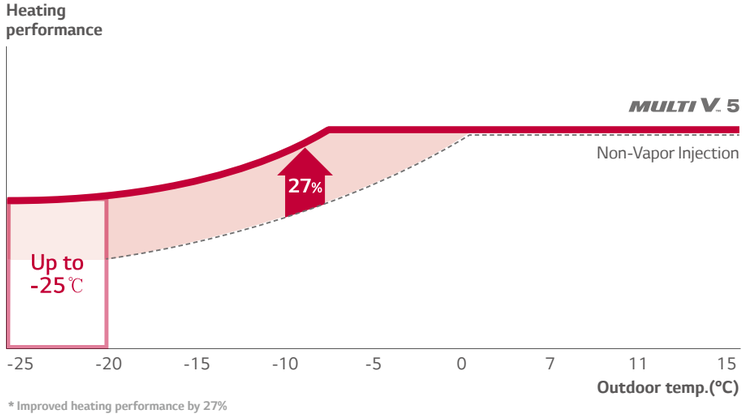
Vapor Injection

Vapor Injection uses a two-stage compression effect, which is designed to provide efficient heating in very cold environments. Combined with HiPOR™, this system boosts heating performance and enhances heating temperature range.

Technology mechanism



Performance comparison

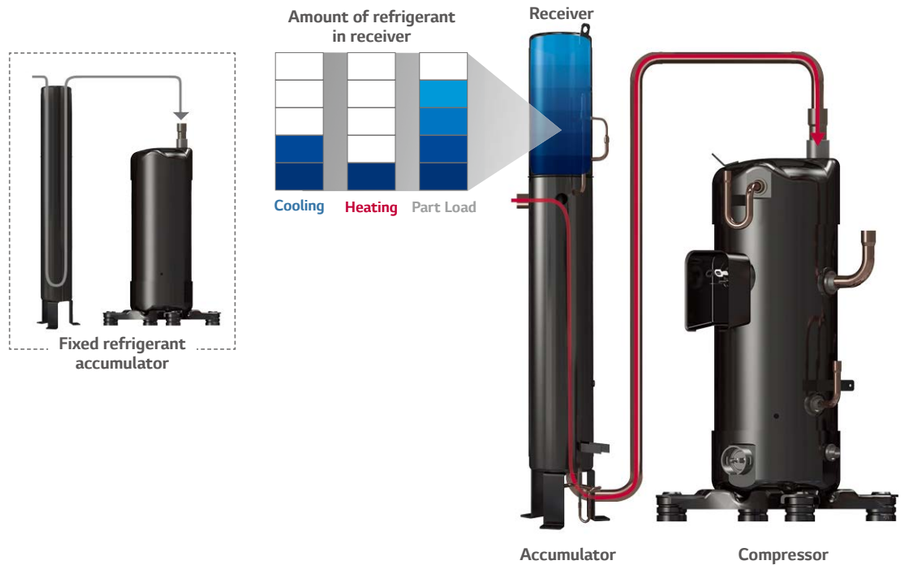


* Improved heating performance by 27%
* Comparison tested on 10HP model

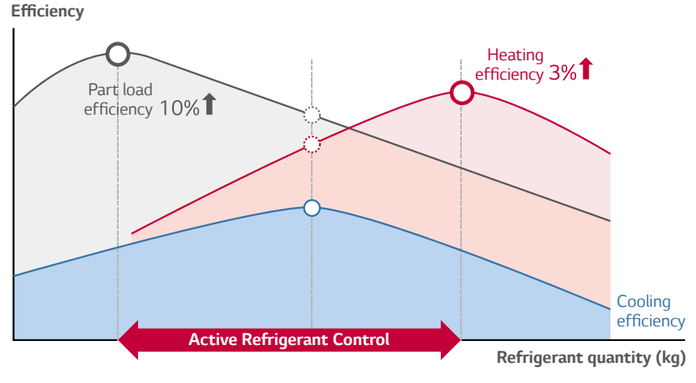
Active Refrigerant Control

Active Refrigerant Control monitors and adjusts the quantity of circulating refrigerant during each cycle to maximize efficiency in real time when it runs cooling and heating operation, as well as the part load operation.
This five step control leads to an improvement in energy efficiency, unlike when fixed amount of refrigerant is provided to the compressor regardless of operation mode, which limits optimal efficiency for each operation.

Technology mechanism



Efficiency performance



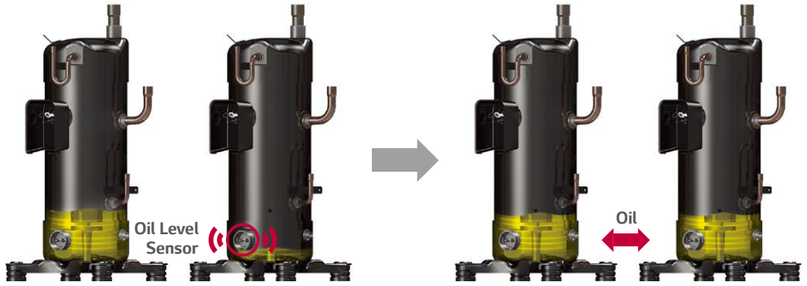
MULTI V 5

ULTIMATE EFFICIENCY

Smart Oil Management

Compressor reliability and Efficiency are improved with an oil sensor that allows oil balancing and oil return. The value of the capacitance between the electrodes can measure the presence of oil in real-time. It is the best way to minimize the oil recovery operation through oil level sensing with the use of the oil level sensor, shortening the time for oil recovery operation for reducing energy loss and minimizing discomforts.

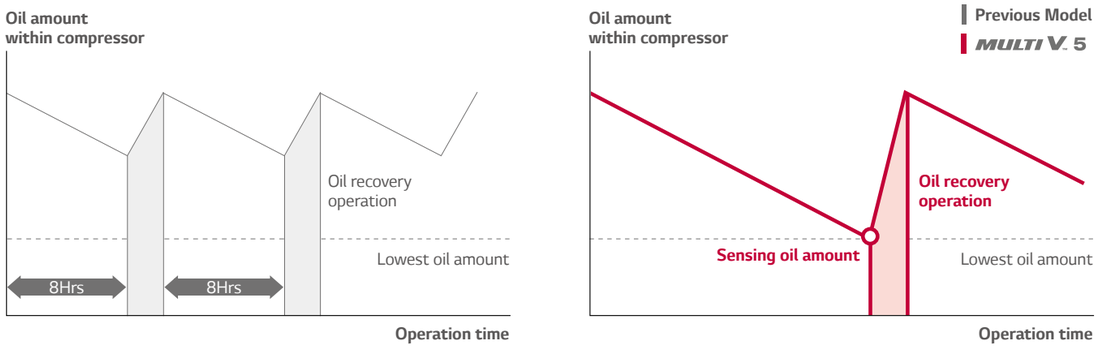
Auto Oil Balancing



Smart Oil Return

Oil recovery system comparison

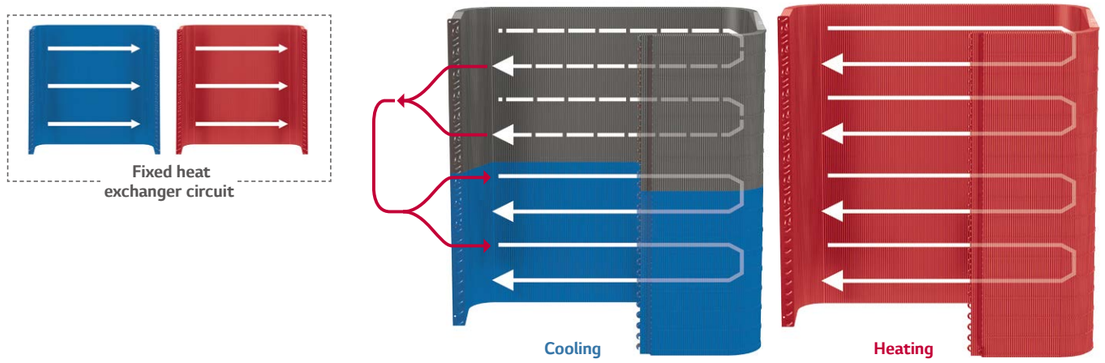
• Non-oil sensor model vs. MULTI V 5



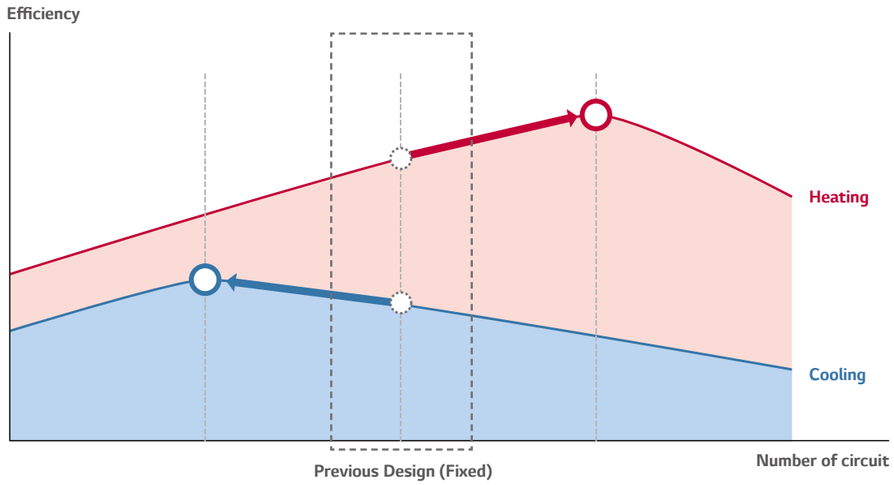
Variable Heat Exchanger Circuit

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.

Technology mechanism



Efficiency performance



ULTIMATE PERFORMANCE

MULTI V 5 ensures ultimate reliability with Ocean Black Fin, large capacity fan and enhanced bearing system for the best performance across the various environments.

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

LG's exclusive Ocean Black Fin is applied on the heat exchanger of MULTI V 5 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 5 operating without breakdown. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Previous Model

4-sided heat exchanger

Ocean Black Fin

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).

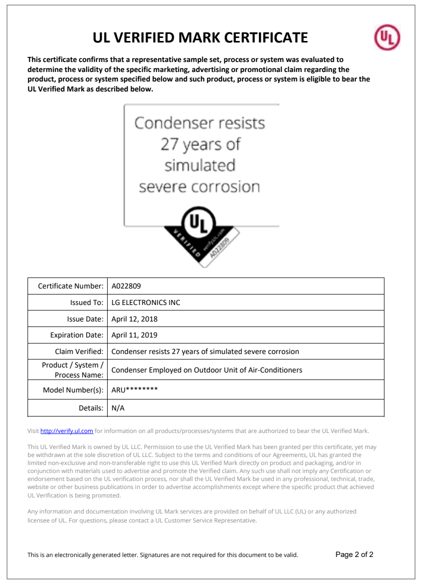
Certified protection

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%	10×10^{-5}	5×10^{-6}



UL VERIFIED MARK CERTIFICATE

This certificate confirms that a representative sample set, process or system was evaluated to determine the validity of the specific marketing, advertising or promotional claim regarding the product, process or system specified below and such product, process or system is eligible to bear the UL Verified Mark as described below.

Condenser resists 27 years of simulated severe corrosion

Certificate Number:	A022809
Issued To:	LG ELECTRONICS INC
Issue Date:	April 12, 2018
Expiration Date:	April 11, 2019
Claim Verified:	Condenser resists 27 years of simulated severe corrosion
Product / System / Process Name:	Condenser Employed on Outdoor Unit of Air-Conditioners
Model Number(s):	ARU********
Details:	N/A

Visit http://verify.ul.com for information on all products/processes/systems that are authorized to bear the UL Verified Mark.

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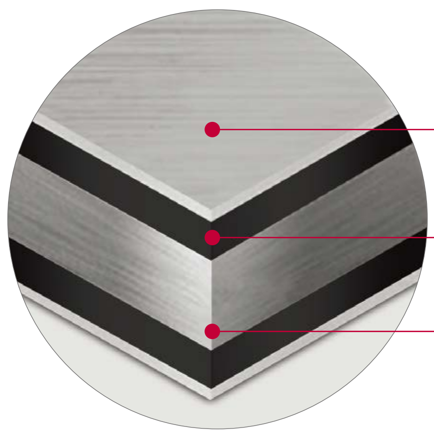
* Test Method B Simulation Validated
(Test condition: Salt contaminated condition
+ severe industrial/traffic environment(NO_2/SO_2))

* Based on 1,500 UL test hours

Enhanced Coating Layers

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



Hydrophilic film (Water flow) 0.2 ~ 0.3㎛

The hydrophilic coating minimizes moisture buildup on the fin.

Epoxy resin (Corrosion resistant) 1.6 ~ 2.0㎛

The black coating provides strong protection from corrosion.

Aluminum fin

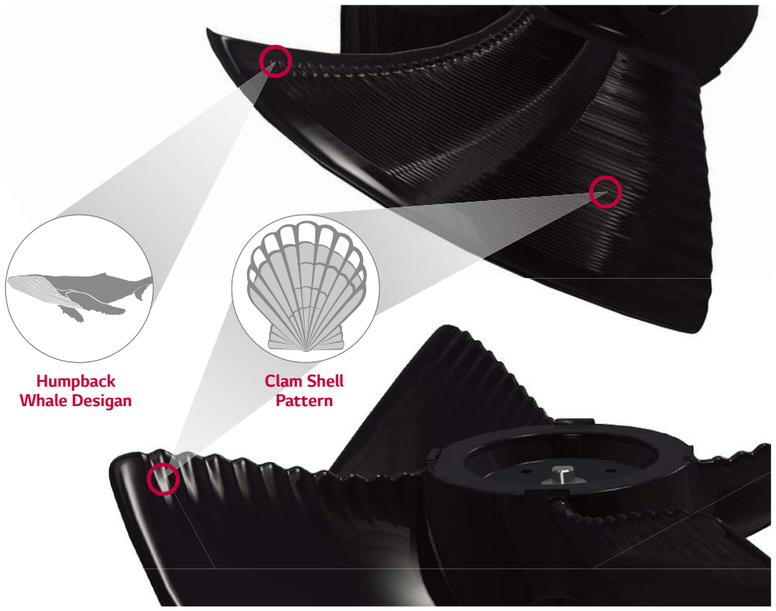
OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE PERFORMANCE

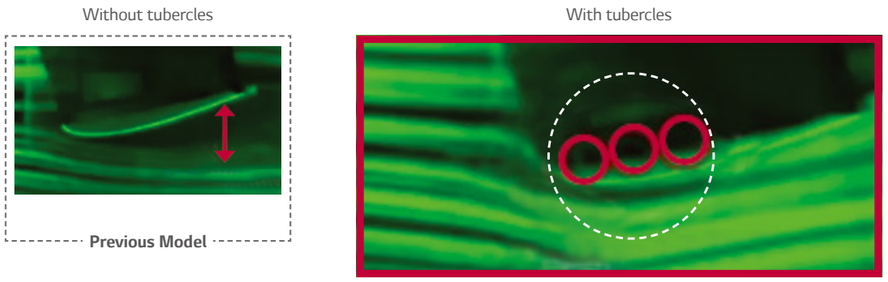
Larger Capacity ODU with Biomimetics Technology Fan

The moire pattern from external texture of clam shells has been applied on fans to create the range difference which 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.



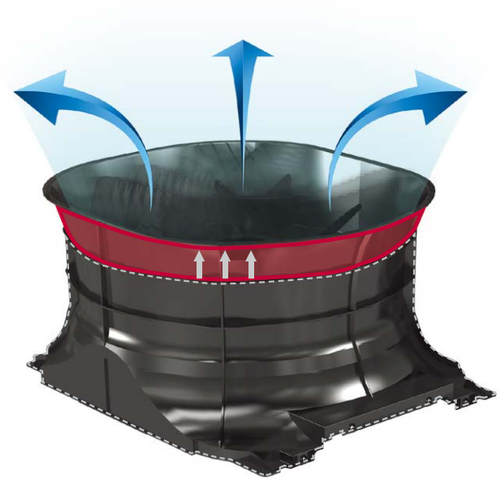
Flow difference comparison caused by tubercles

• Previous Model vs. MULTI V 5



Increased Air Flow Rate with Bigger Shroud

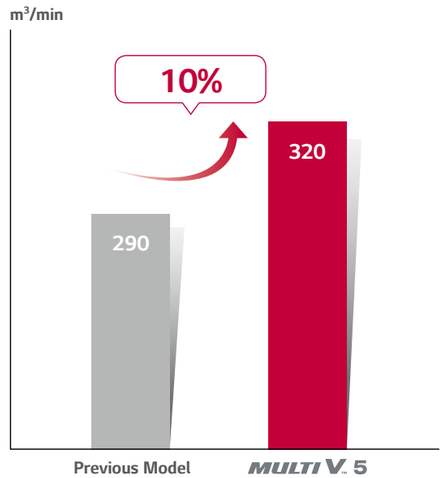
In addition to the biomimetics technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.



Enhanced Performance with Newly Developed Fan

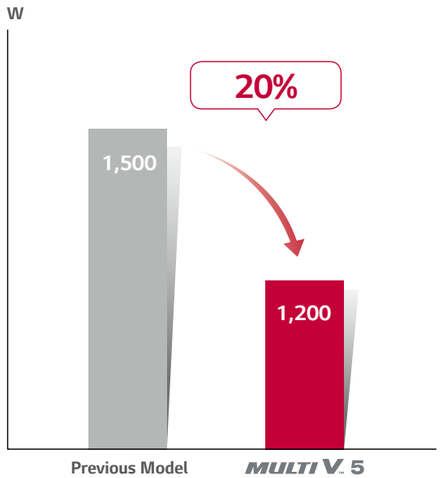
Based on the biomimetics technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20%. This eventually results in maximized performance with large capacity.

Air flow rate



* Comparison based on 20HP model

Power consumption



* Comparison based on air volume of 290m³/min

OUTDOOR UNIT KEY FEATURES

MULTI V 5

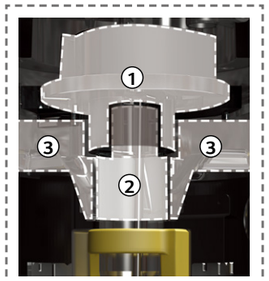
ULTIMATE PERFORMANCE

Enhanced Bearing with PEEK Material

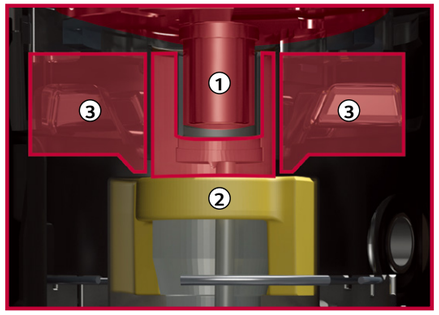
Motivated by the lubricative material of PEEK(Polyetheretherketone) bearing used for aero engines, the newly invented scroll system with refined shape increases durability and reliability of compressor. It also helps MULTI V 5 to operate longer without oil supply in comparison to the previousmodels.

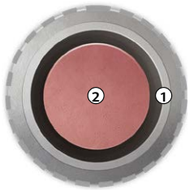
Technology mechanism comparison

• Previous Model vs. MULTI V 5

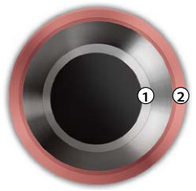


Previous Model





① Material : FR160
①+② Structure : Inner Bearing
③ Supporter



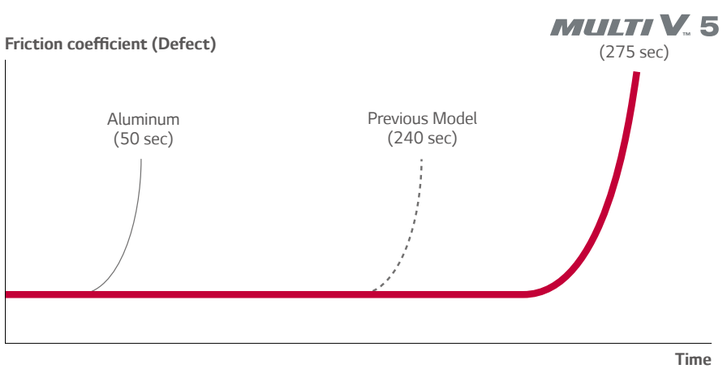
① Material : PEEK (Polyetheretherketone)
①+② Structure : New Outer Bearing
③ Supporter : High speed operation with reduction of bearing load and vibration

Operating time without oil supply
Up to 15%

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

Oilless operation hours comparison

• Previous Model vs. MULTI V 5



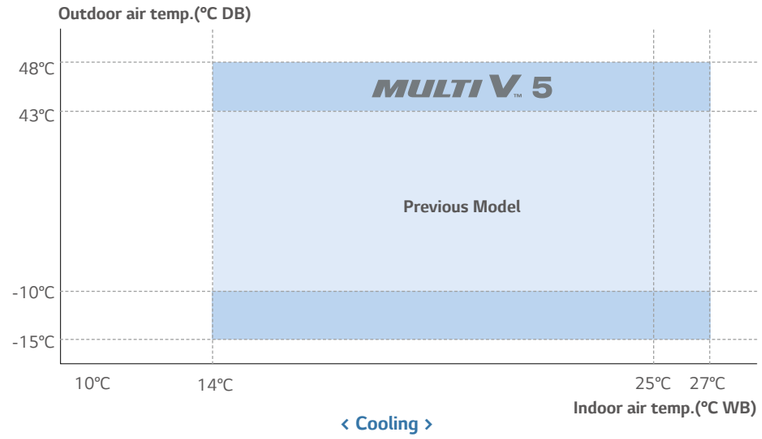
* LG Internal test result
* Test condition : Bearing oil blocking test (Oil blocking at 60 Hz)

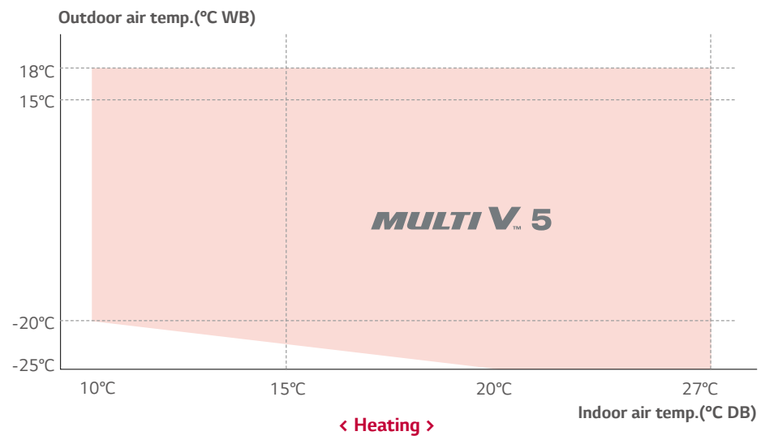
Reliable Performance in Extreme Environment

MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C. It is improved perfectly to fully function at extreme conditions such as performing cooling operation at -15°C, making the product adequate for uses in specialized venues like technical rooms.
Moreover, with enhanced inverter compressor and control technology coming from improved supercooling technology installation, vapor injection and Ocean Black Fin, 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.

Wider operational range for each performance

• Previous Model vs. MULTI V 5





* Under the condition of -25°C for outdoor temperature and 20°C for indoor temperature

OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE COMFORT

MULTI V 5 closely senses environment's climate conditions via Dual Sensing Control to control cooling and heating operations. By maintaining specific conditions users set for indoor environment without stopping or changing, MULTI V 5 offers ultimate comfort for the users.

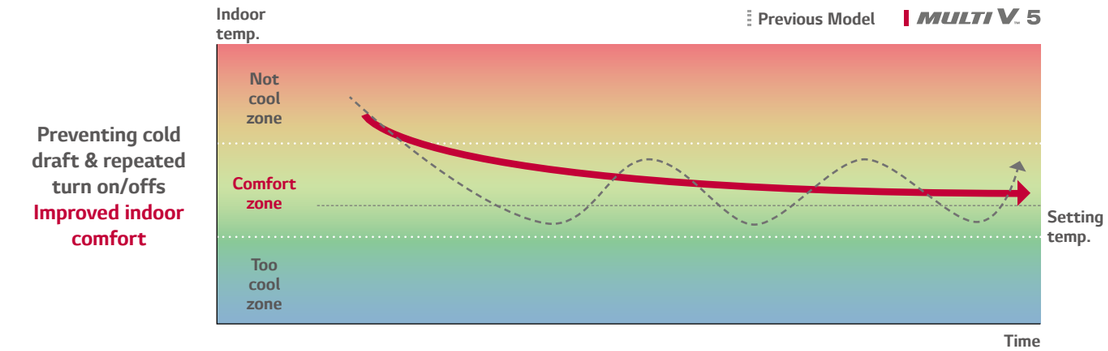
Comfort Cooling

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/offs previously required to match the set temperature, users can experience more comfortable indoor environment.

DUAL SENSING CONTROL

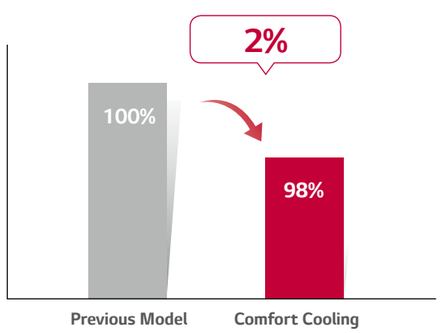
Cooling operation comparison

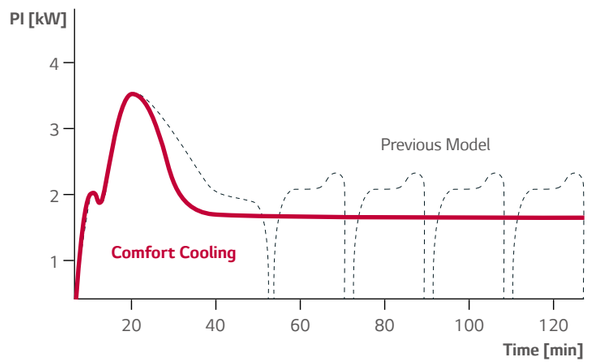
• Previous Model vs. MULTI V 5



Energy Saving

With comfort cooling feature of MULTI V 5, target superheat of indoor unit is increased while refrigerant flow rate is decreased when compared to the previous model. Moreover, thermo-on time has been increased from previous 47 minutes to 120 minutes or longer. Since there is no repeating of thermo on/off, average electric power is saved up to 2%.





*120min. average power input[kW]

Back Up Function

When an operating compressor is malfunctioning, automatic emergency back up function is activated in order to continue cooling or heating operation using another compressor or another outdoor unit for back up operation whilst waiting for service. This function is for emergency situation, so users should contact their authorized service dealer as soon as fault has occurred.

Case 1)

Compressor fails in a single system

The 2nd compressor continues to operate

Case 2)

One outdoor unit fails in combined system

The other outdoor unit continues to operate

Extended Compressor Life Cycle by Alternative Operation

The running sequence of compressors are monitored by a built-in micro computer to ensure accumulated operation hours of all compressors are balanced. This leads to the longer working life of the compressors and the system.

OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE COMFORT

Continuous Heating

With Dual Sensing Control, partial defrost and smart oil management via oil sensor, continuous heating technology has been improved.

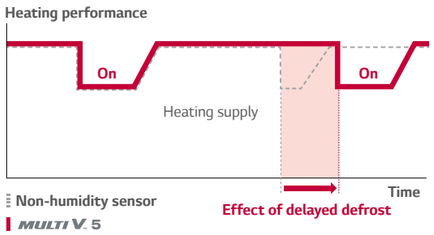
11% Increase in Heating Operation Time Per Day
7% Reduction in Power Input

CONTINUOUS HEATING

Delayed Defrost via Humidity Sensor of Dual Sensing Control

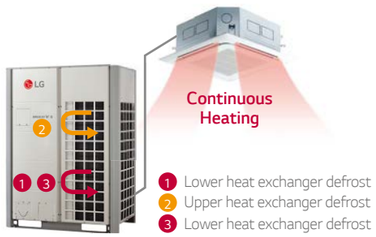
By controlling the evaporation temperature considering the humidity, heating operation time is improved.

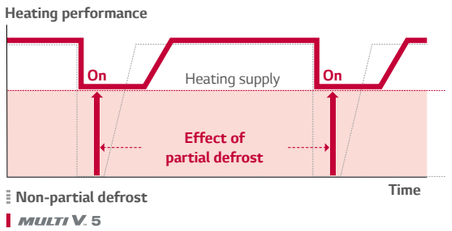
DUAL SENSING CONTROL



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.



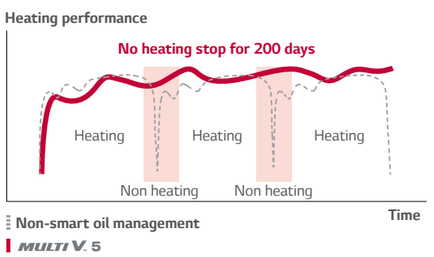


Smart Oil Management

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

ULTIMATE INVERTER COMPRESSOR

Eliminated Unnecessary Oil Return via Oil Sensor



* LG internal test result

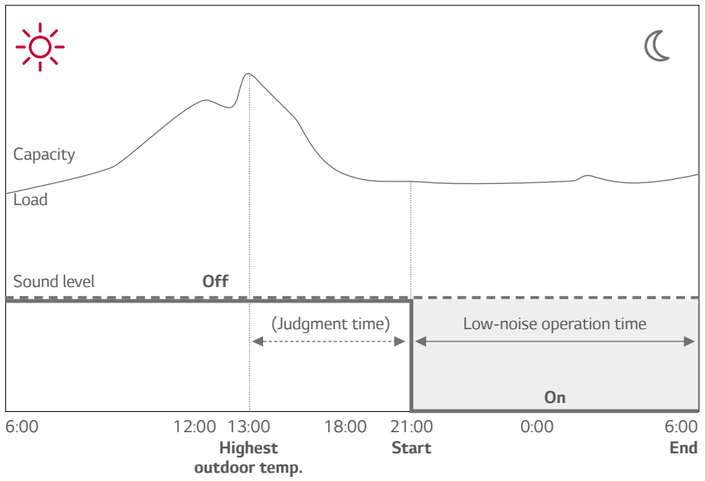
Low-Noise Operation

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.

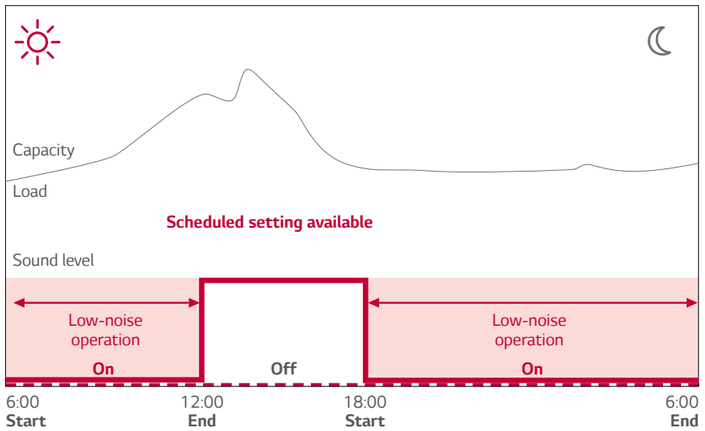
Operation hours comparison

• Previous Model vs. MULTI V 5

Previous Model



MULTI V. 5



* Indoor unit set up available with Standard III Remote Controller

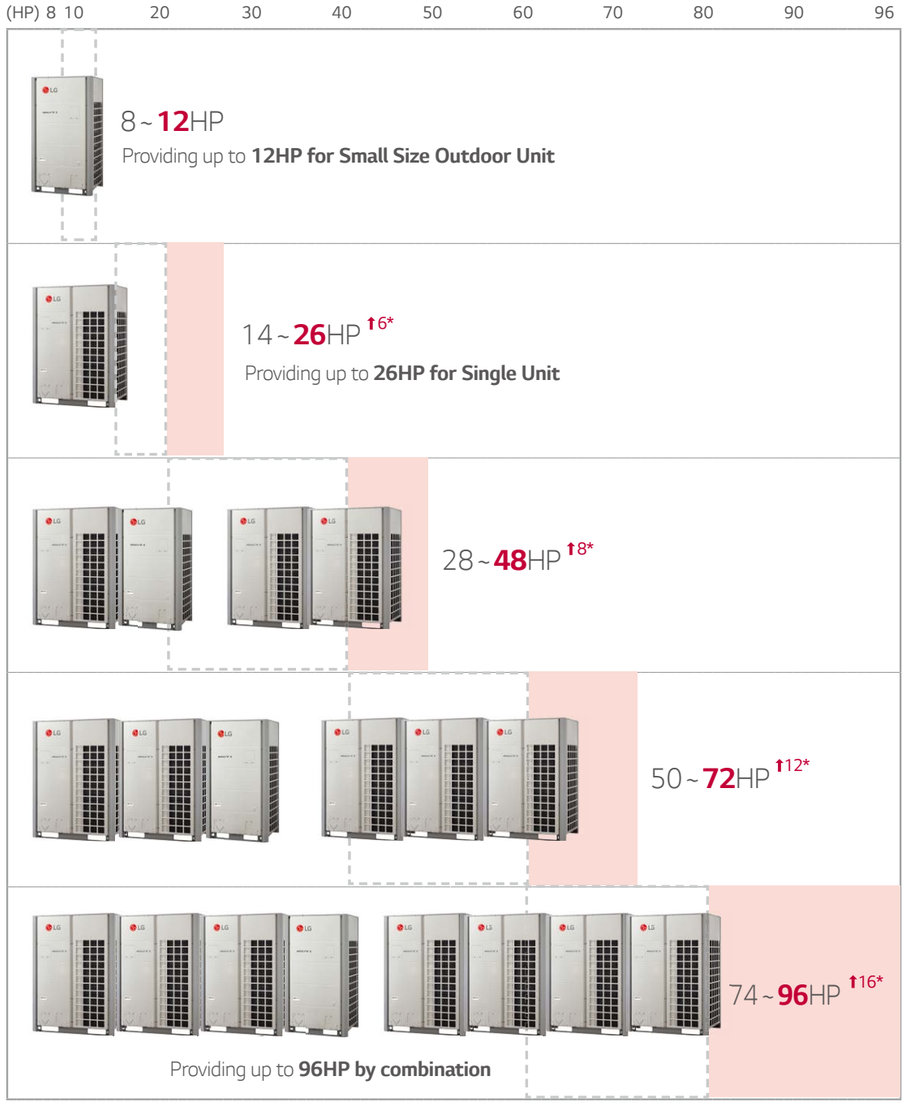
OUTDOOR UNIT KEY FEATURES

MULTI V 5

ULTIMATE FLEXIBILITY

With industry's top level piping technology and large capacity outdoor unit, MULTI V 5 allows users to make better use of the space, offering more flexible installation design.

MULTI V 5 Outdoor Unit Line Up



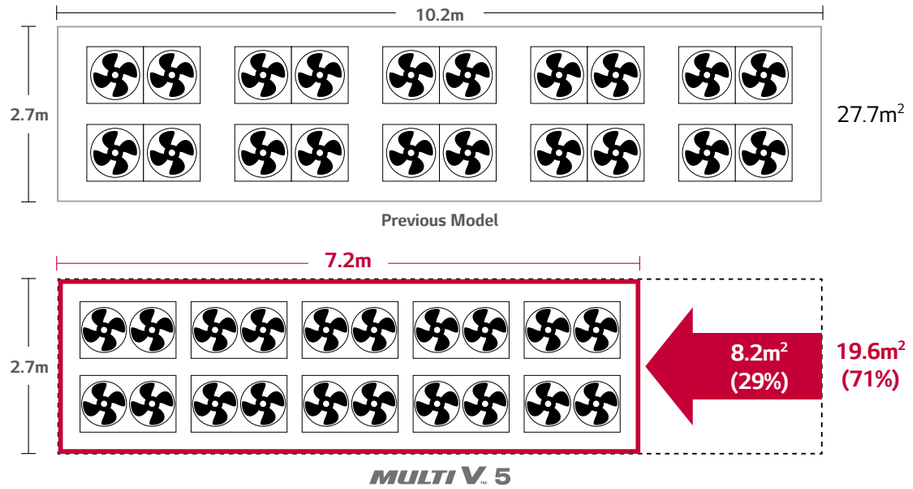
* Capacity increase compared to previous model

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

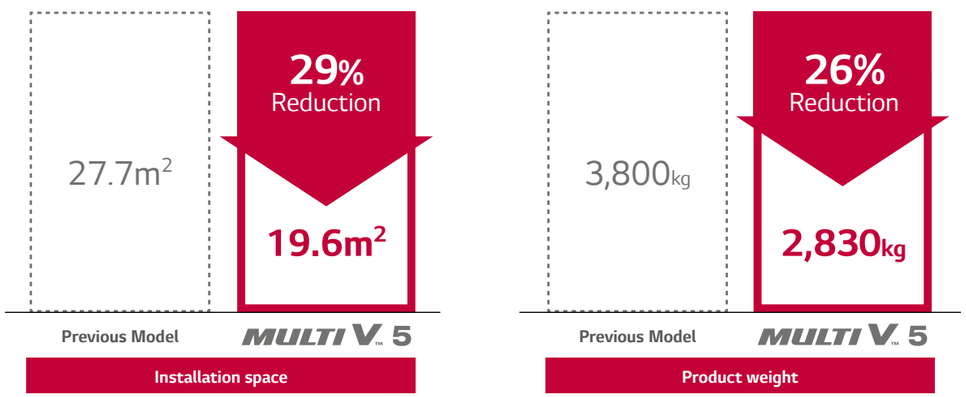
• Previous Model vs. MULTI V 5



* 260HP(26HP*10sets) installation case

Installation space area and product weight comparison

• Previous Model vs. MULTI V 5



* 260HP(26HP*10sets) installation case

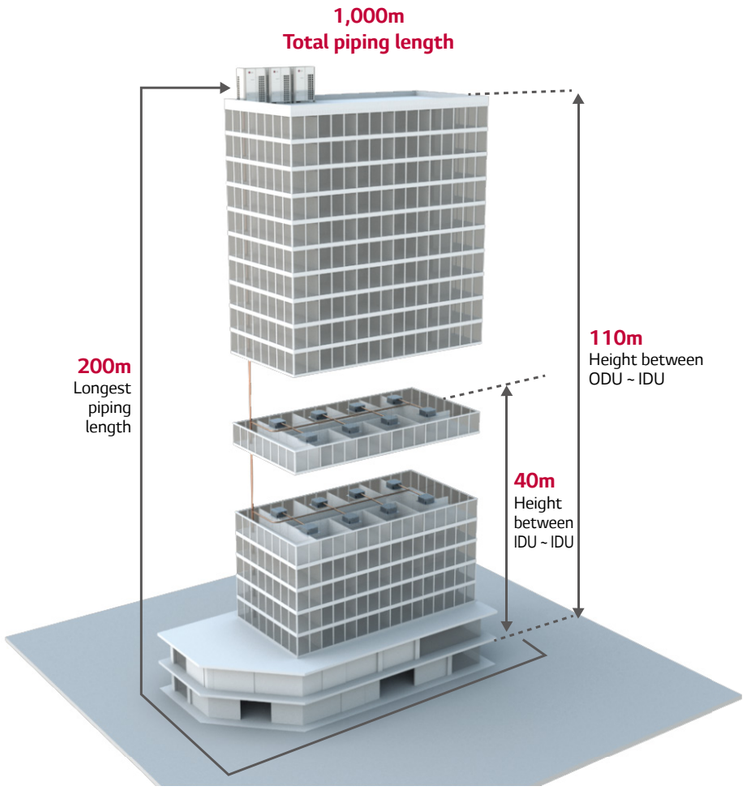
MULTI V 5

ULTIMATE FLEXIBILITY

Extensive Piping Capabilities for Flexible Installation

Due to improved supercooling circuit and refrigerant controlling technologies, MULTI V 5 allows users to install world's best class piping lengths, which results in more flexible installation design.

Piping length



Piping capabilities

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

ULTIMATE CONTROL

Various maintenance solutions provided by MULTI V 5 offers smart, convenient and reliable functionality.

Energy Management

Energy Management allows MULTI V 5 to analyze previous data in order to forecast energy usage beforehand and prevent from exceeding the monthly energy consumption plan by systematically controlling the cooling volume. With energy consulting program that provides automatic operation options for 7 levels of energy management such as compressor capacity management and indoor unit operation level control, users can monitor energy usage anytime and efficiently manage their energy bills.

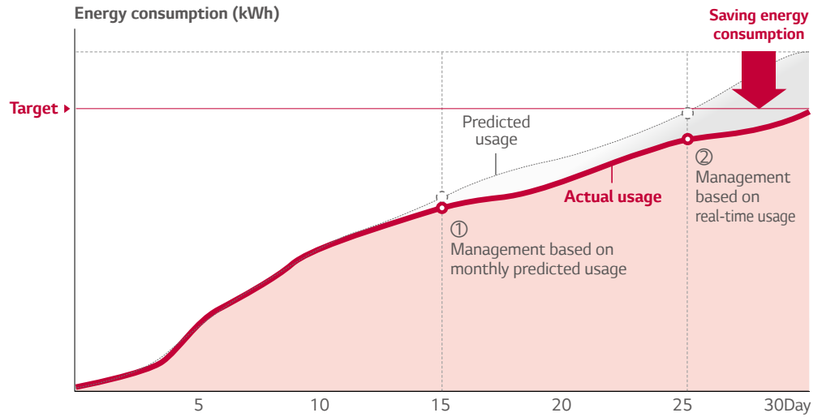
Monthly
Target Setting

↓

Control Step
& Logic Selecting
(Up to 7 Steps)

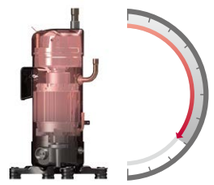
↓

Automatic
Control By
Power consumption



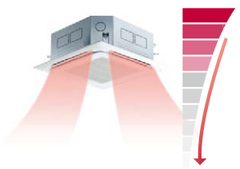
Management setting example
① When predicted usage is 120% ② When the real-time usage is 90%
* Energy Management allows maximum 7 steps (Input format is percent for predicted and real-time usage)
* Central control kit such as ACP IV or AC Smart IV and PDI are required for energy management function

Control methods



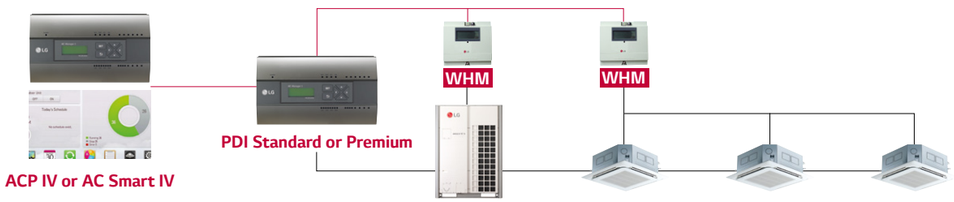
Compressor capacity management

Operation rate control of indoor unit



Indoor unit operation management

System architecture



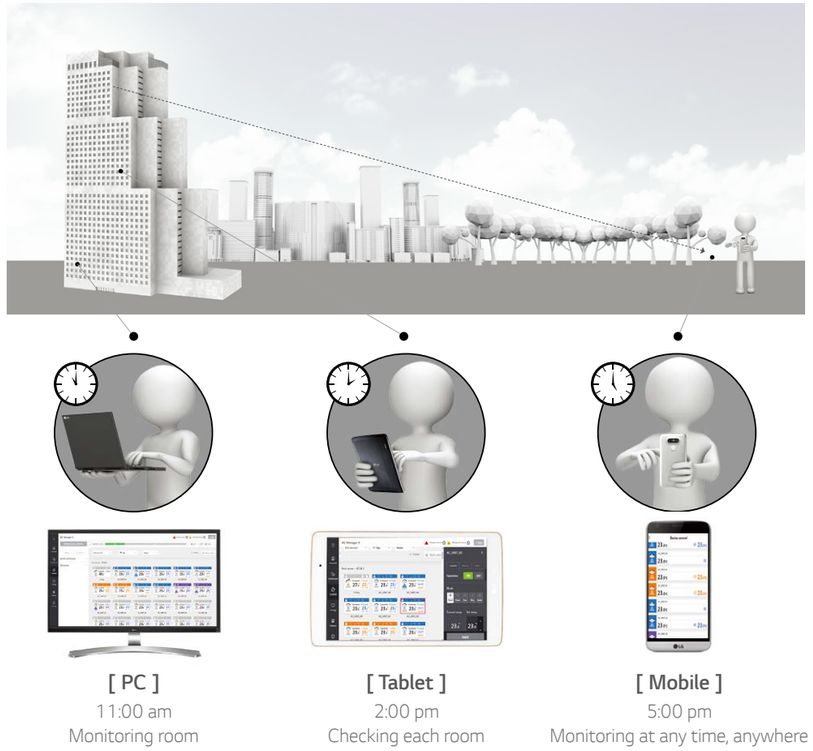
MULTI V 5

ULTIMATE CONTROL

AC Manager 5 with User Friendly Interface

As an advanced central controller, AC Manager 5 offers flexible interface for each user by assessing the device screen and automatically customizing the layout to provide the most optimized interface. Moreover, it provides effective system air conditioner management through user friendly interface and various functions.

reddot award
communication design



[PC]
11:00 am
Monitoring room

[Tablet]
2:00 pm
Checking each room

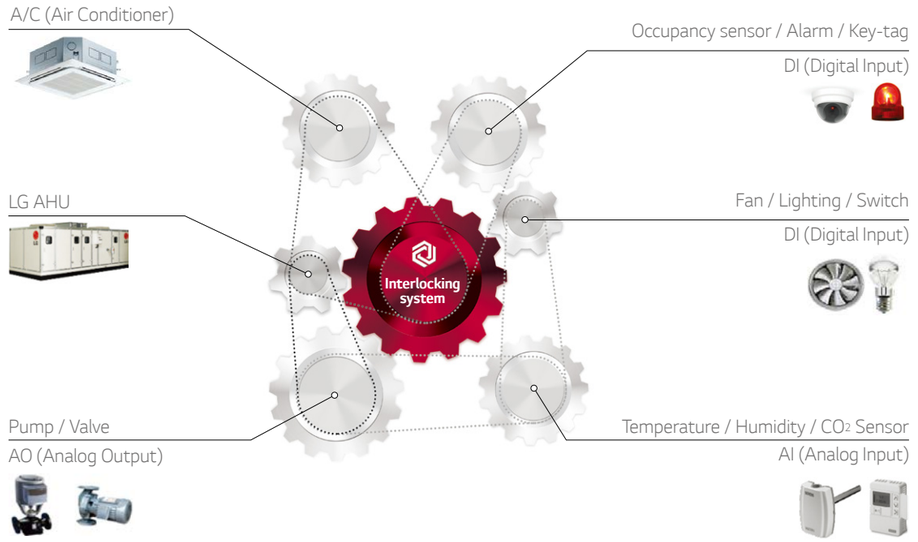
[Mobile]
5:00 pm
Monitoring at any time, anywhere

Various functions of AC Manager 5

Schedule function | Advanced energy monitoring | Operational trend

Expandability & Programmability

The expandable control system can be interlocked with sensors and facilities of building, as well as air conditioners. It makes building management smart by setting up logic optimized for the site.

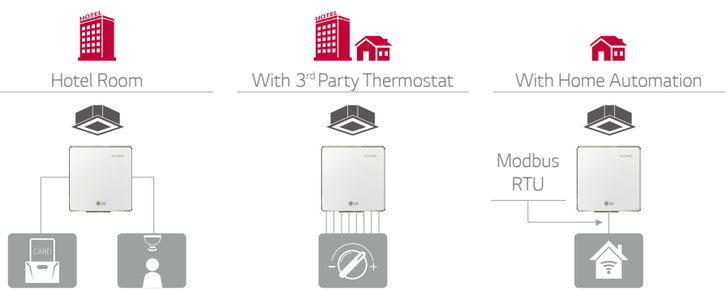


System Flexibility

It can be linked with 3rd party BMS via Gateway and provide flexible control system for each site via Dry Contact.

Interlock with 3rd party BMS

Dry Contact optimized for variable scenario



OUTDOOR UNIT KEY FEATURES

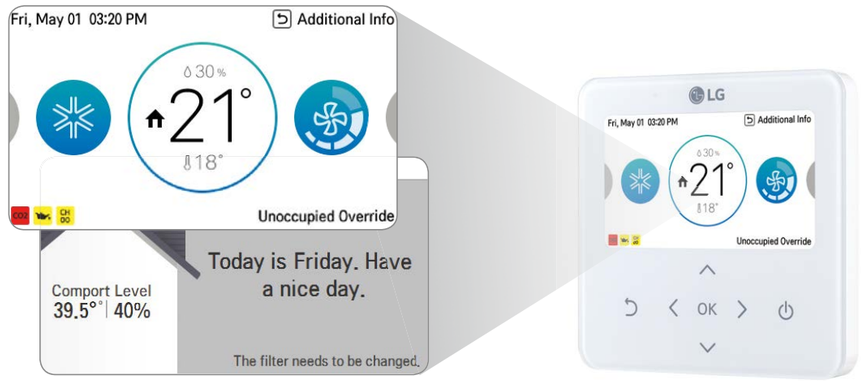
MULTI V 5

ULTIMATE CONTROL

Smart Individual Controller (with Standard III Remote Controller)

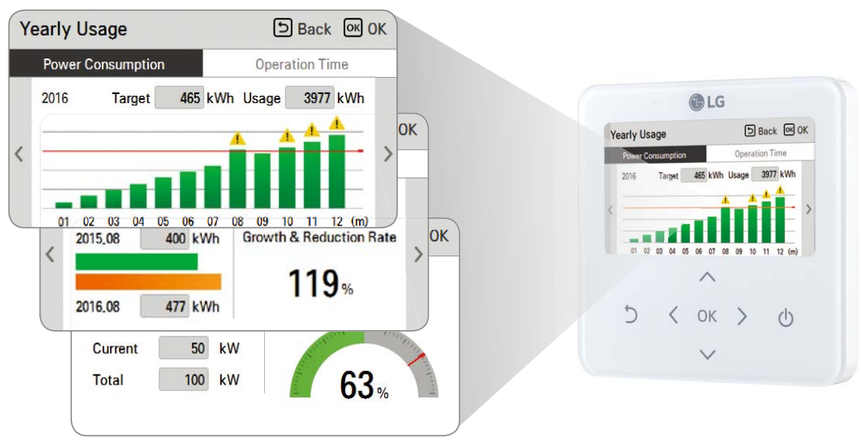
New Standard III Remote Controller of MULTI V 5 offers 4.3-inch large LCD screen with neat and premium design. This luxurious design well-matches interior design through large colored LCD screen with curved display and simple button layout which makes it easier to control. With diverse information offered such as temperature, humidity and cleanliness information, users can check on currently consumed power in real-time and electricity consumption data(weekly/monthly/annually) to predict and plan power consumption usage. Moreover, simple and geometrically neat design of user interface makes data comprehension visually easy. With circular visual theme, information are labelled in different-sized circles based on their priorities.

Intuitive & Emotional Interface



Luxurious Design

Energy Management



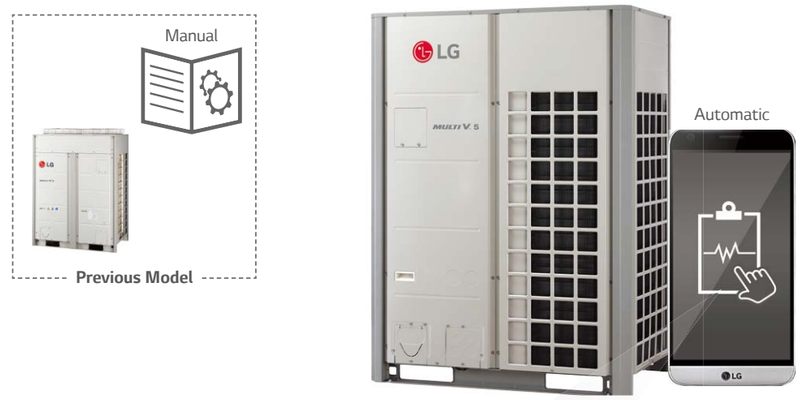
* Central control kit such as ACP IV or AC Smart IV and PDI are required for energy management function

Simple Test Run via LGMV

In order to bring out performance to the 100% level, proper product test run is necessary. For previous product, professional engineer who is well-aware of more than 40 different functional settings and 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, however, 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.

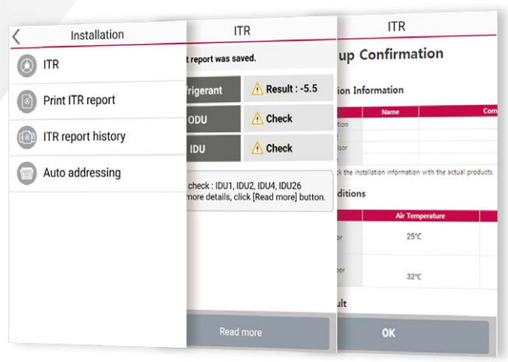
Test run comparison

• Previous Model vs. MULTI V 5



LGMV smartphone application setting pages

Wi-Fi MV Module



37% Reduction in Installation Hours

* This feature is provided only to qualified professional installers

OUTDOOR UNIT KEY FEATURES

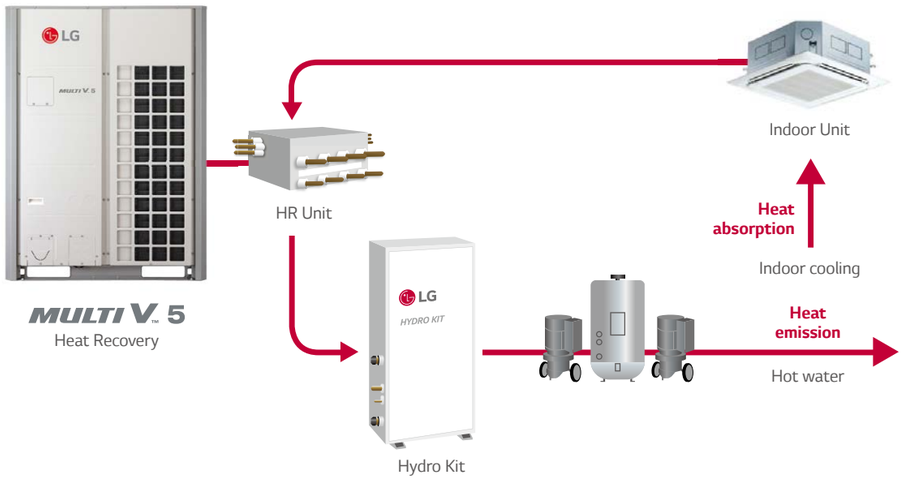
MULTI V 5

HEAT RECOVERY

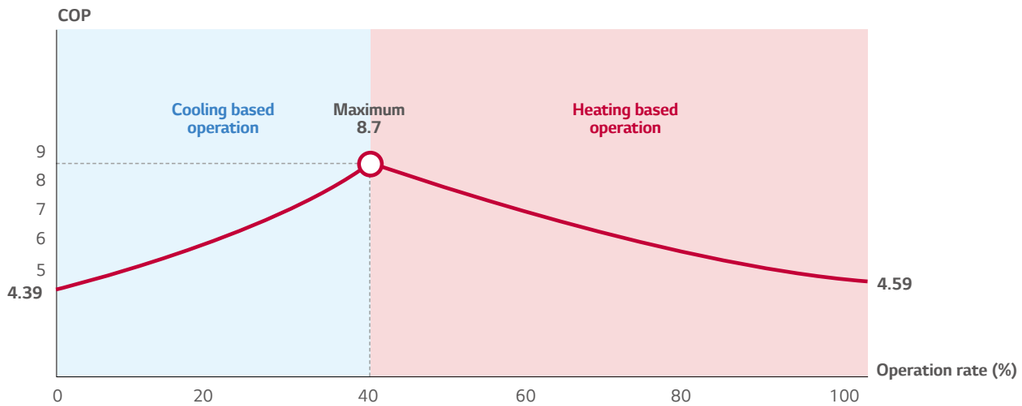
Energy Saving with Simultaneous Operation

MULTI V 5 Heat Recovery system with HR Unit can perform both cooling and heating operations simultaneously. For continuous operation, it minimizes in order to switch mode while it increases efficiency with simultaneous operation.
Moreover, it allows the COP to reach up to 8.5 under circumstances of 40% cooling and 60% heating operations, which results in the decreased energy consumption up to 30%.

Technology mechanism



COP with simultaneous operation

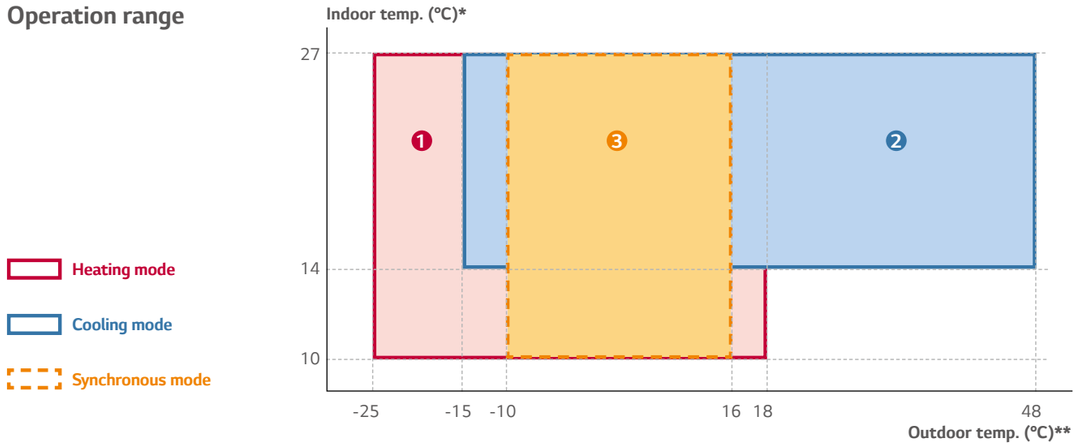


* Outdoor temperature : 7°C DB / 6°C WB
* Indoor temperature : 20°CDB / 15°C WB
* ARUM200LTE5

Wide Operation Range

Both the low and high temperature operation ranges are expanded through condenser with various control. For heating mode, the outdoor temperature can go from as low as -25°C to 24°C, and from -15°C to as high as 48°C for cooling mode. As for the synchronous mode, it can run from -10°C to 16°C.

Operation range



Outdoor Temperature

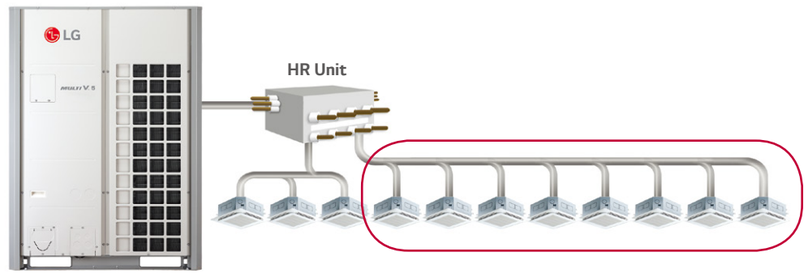
❶ Heating mode : - 25°C WB ~ 18°C WB ❷ Cooling mode : - 15°C DB ~ 48°C ❸ Synchronous mode : -10°C WB ~ 16°C WB

* Heating (°C DB), Cooling (°C WB), Synchronous (°C DB) ** Heating (°C WB), Cooling (°C DB), Synchronous (°C WB)

Flexible Connection of Heat Recovery Unit

LG MULTI V 5 Heat Recovery Unit allows flexible connection both in series and in a row. With the zone control function, up to 8 indoor units can be connected to a branch while the maximum of 32 indoor units can be connected to a HR unit, saving the installation cost by flexible connection.

Zoning control



OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN080LTE5 / ARUN100LTE5 / ARUN120LTE5 / ARUN140LTE5

HP			8	10	12	14
Model Name	Combination Unit		ARUN080LTE5	ARUN100LTE5	ARUN120LTE5	ARUN140LTE5
	Independent Unit		ARUN080LTE5	ARUN100LTE5	ARUN120LTE5	ARUN140LTE5
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	Heating (Rated)	kW	25.2	31.5	37.8	44.1
		Btu/h	86,000	107,500	129,000	150,500
Input	Cooling (Rated)	kW	4.59	5.70	7.91	9.12
	Heating (Rated)	kW	4.74	5.78	8.06	9.78
EER (Rated)			4.88	4.91	4.25	4.30
COP (Rated)			5.32	5.45	4.69	4.51
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 1	5,300 × 1	5,300 × 1	5,300 × 1
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	1,200 × 1	1,200 × 1	1,200 × 1	900 × 2
	Air Flow Rate(High)	m^3/min	240 × 1	240 × 1	240 × 1	320 × 1
		ft^3/min	8,476 × 1	8,476 × 1	8,476 × 1	11,301 × 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 Connctions	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 × H × D)		mm	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1
Net Weight		kg	203 × 1	203 × 1	203 × 1	230 × 1
		lbs	448 × 1	448 × 1	448 × 1	507 × 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.0	59.0	60.0
	Heating	dB(A)	59.0	59.0	60.0	61.0
Sound Power Level	Cooling	dB(A)	78.0	78.0	79.0	82.0
	Heating	dB(A)	79.0	79.0	80.0	84.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	10.0	10.0	10.0	13.0
		lbs	22.0	22.0	22.0	28.7
	TCO_2eq		20.9	20.9	20.9	27.1
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			13(20)	16(25)	20(30)	23(35)

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN160LTE5 / ARUN180LTE5 / ARUN200LTE5 / ARUN220LTE5

HP			16	18	20	22
Model Name	Combination Unit		ARUN160LTE5	ARUN180LTE5	ARUN200LTE5	ARUN220LTE5
	Independent Unit		ARUN160LTE5	ARUN180LTE5	ARUN200LTE5	ARUN220LTE5
Capacity	Cooling (Rated)	kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	Heating (Rated)	kW	50.4	56.7	63.0	69.3
		Btu/h	172,000	193,500	215,000	236,500
Input	Cooling (Rated)	kW	10.80	10.96	12.31	14.84
	Heating (Rated)	kW	11.59	12.06	15.52	17.54
EER (Rated)			4.15	4.60	4.55	4.15
COP (Rated)			4.35	4.70	4.06	3.95
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 1	5,300 × 1 + 4,200 × 1	5,300 × 2	5,300 × 2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 2	900 × 2	900 × 2	900 × 2
	Air Flow Rate(High)	m^3/min	320 × 1	320 × 1	320 × 1	320 × 1
		ft^3/min	11,301 × 1	11,301 × 1	11,301 × 1	11,301 × 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 Connctions	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 × H × D)		mm	(1,240 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1
Net Weight		kg	230 × 1	270 × 1	288 × 1	288 × 1
		lbs	507 × 1	595 × 1	635 × 1	635 × 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.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0	13.0	14.0	14.0
		lbs	28.7	28.7	30.9	30.9
	TCO_2eq		27.1	27.1	29.2	29.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			26(40)	29(45)	32(50)	35(56)

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN240LTE5 / ARUN260LTE5 / ARUN221LTE5 / ARUN241LTE5

HP			24	26	22'	24'
Model Name	Combination Unit		ARUN240LTE5	ARUN260LTE5	ARUN221LTE5	ARUN241LTE5
	Independent Unit		ARUN240LTE5	ARUN260LTE5	ARUN120LTE5 ARUN100LTE5	ARUN120LTE5 ARUN120LTE5
Capacity	Cooling (Rated)	kW	67.2	72.8	61.6	67.2
		Btu/h	229,300	248,400	210,100	229,200
	Heating (Rated)	kW	74.3	74.3	69.3	75.6
		Btu/h	253,400	253,400	236,500	258,000
Input	Cooling (Rated)	kW	16.76	19.41	13.60	15.81
	Heating (Rated)	kW	18.85	19.49	13.80	16.12
EER (Rated)			4.01	3.75	4.53	4.25
COP (Rated)			3.94	3.81	5.01	4.69
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 2	5,300 × 2	5,300 × 2	5,300 × 2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 2	900 × 2	(1,200 × 1) + (1,200 × 1)	(1,200 × 1) + (1,200 × 1)
	Air Flow Rate(High)	m^3/min	320 × 1	320 × 1	(240 × 1) + (240 × 1)	(240 × 1) + (240 × 1)
		ft^3/min	11,301 × 1	11,301 × 1	(8,476 × 1) + (8,476 × 1)	(8,476 × 1) + (8,476 × 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 Connctions	Liquid Pipe	mm(inch)	15.88(5/8)	19.05(3/4)	15.88(5/8)	15.88(5/8)
	Gas Pipe	mm(inch)	34.9(1-3/8)	34.9(1-3/8)	28.58(1-1/8)	34.9(1-3/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 2	(930 × 1,690 × 760) × 2
Net Weight		kg	290 × 1	290 × 1	203 × 2	203 × 2
		lbs	639 × 1	639 × 1	448 × 2	448 × 2
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	61.5	62.0
	Heating	dB(A)	67.0	67.0	62.5	63.0
Sound Power Level	Cooling	dB(A)	88.0	88.0	81.5	82.0
	Heating	dB(A)	90.0	90.0	82.5	83.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0	16.0	10.0 + 10.0	10.0 + 10.0
		lbs	35.3	35.3	22.0 + 22.0	22.0 + 22.0
	TCO_2eq		33.4	33.4	41.8	41.8
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [6]			39(61)	42(64)	35(44)	39(48)

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN261LTE5 / ARUN280LTE5 / ARUN300LTE5 / ARUN320LTE5

HP			26'	28	30	32
Model Name	Combination Unit		ARUN261LTE5	ARUN280LTE5	ARUN300LTE5	ARUN320LTE5
	Independent Unit		ARUN140LTE5 ARUN120LTE5	ARUN160LTE5 ARUN120LTE5	ARUN180LTE5 ARUN120LTE5	ARUN200LTE5 ARUN120LTE5
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0	89.6
		Btu/h	248,400	267,500	286,600	305,700
	Heating (Rated)	kW	81.9	88.2	94.5	100.8
		Btu/h	279,500	301,000	322,500	344,000
Input	Cooling (Rated)	kW	17.02	18.70	18.86	20.21
	Heating (Rated)	kW	17.84	19.65	20.12	23.58
EER (Rated)			4.28	4.19	4.45	4.43
COP (Rated)			4.59	4.49	4.70	4.28
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 2	5,300 × 2	(5,300 × 2) + (4,200 × 1)	(5,300 × 2) + (4,200 × 1)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)
	Air Flow Rate(High)	m^3/min	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)
		ft^3/min	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 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 Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	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 × H × D)		mm	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1
Net Weight		kg	(230 × 1) + (203 × 1)	(230 × 1) + (203 × 1)	(270 × 1) + (203 × 1)	(288 × 1) + (203 × 1)
		lbs	(507 × 1) + (448 × 1)	(507 × 1) + (448 × 1)	(595 × 1) + (448 × 1)	(635 × 1) + (448 × 1)
Sound Pressure Level	Cooling	dB(A)	62.5	62.8	63.1	63.8
	Heating	dB(A)	63.5	63.8	64.1	65.8
Sound Power Level	Cooling	dB(A)	83.8	84.5	86.0	86.8
	Heating	dB(A)	85.5	86.2	87.0	87.8
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0 + 10.0	13.0 + 10.0	13.0 + 10.0	14.0 + 10.0
		lbs	28.7 + 22.0	28.7 + 22.0	28.7 + 22.0	30.9 + 22.0
	TCO_2eq		48.0	48.0	48.0	50.1
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [6]			42(52)	45(56)	49(60)	52(64)

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN340LTE5 / ARUN360LTE5 / ARUN380LTE5 / ARUN400LTE5

HP			34	36	38	40
Model Name	Combination Unit		ARUN340LTE5	ARUN360LTE5	ARUN380LTE5	ARUN400LTE5
	Independent Unit		ARUN220LTE5 ARUN120LTE5	ARUN240LTE5 ARUN120LTE5	ARUN240LTE5 ARUN140LTE5	ARUN240LTE5 ARUN160LTE5
Capacity	Cooling (Rated)	kW	95.2	100.8	106.4	112.0
		Btu/h	324,800	343,900	363,100	382,200
	Heating (Rated)	kW	107.1	112.1	118.4	124.7
		Btu/h	365,500	382,400	403,900	425,400
Input	Cooling (Rated)	kW	22.75	24.66	25.87	27.55
	Heating (Rated)	kW	25.60	26.91	28.62	30.43
EER (Rated)			4.18	4.09	4.11	4.06
COP (Rated)			4.18	4.16	4.13	4.10
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 3	5,300 × 3	5,300 × 3	5,300 × 3
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	900 × 4	900 × 4
	Air Flow Rate(High)	m^3/min	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	320 × 2	320 × 2
		ft^3/min	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	11,301 × 2	11,301 × 2
	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 Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe	mm(inch)	34.9(1-3/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2
Net Weight		kg	(288 × 1) + (203 × 1)	(290 × 1) + (203 × 1)	(290 × 1) + (230 × 1)	(290 × 1) + (230 × 1)
		lbs	(635 × 1) + (448 × 1)	(639 × 1) + (448 × 1)	(639 × 1) + (507 × 1)	(639 × 1) + (507 × 1)
Sound Pressure Level	Cooling	dB(A)	65.6	66.0	66.2	66.3
	Heating	dB(A)	66.6	67.8	68.0	68.1
Sound Power Level	Cooling	dB(A)	86.8	88.5	89.0	89.2
	Heating	dB(A)	88.6	90.4	91.0	91.2
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 10.0	16.0 + 10.0	16.0 + 13.0	16.0 + 13.0
		lbs	30.9 + 22.0	35.3 + 22.0	35.3 + 28.7	35.3 + 28.7
	TCO_2eq		50.1	54.3	60.5	60.5
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			55(64)	58(64)	61(64)	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN420LTE5 / ARUN440LTE5 / ARUN460LTE5 / ARUN480LTE5

HP			42	44	46	48
Model Name	Combination Unit		ARUN420LTE5	ARUN440LTE5	ARUN460LTE5	ARUN480LTE5
	Independent Unit		ARUN240LTE5 ARUN180LTE5	ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN220LTE5	ARUN240LTE5 ARUN240LTE5
Capacity	Cooling (Rated)	kW	117.6	123.2	128.8	134.4
		Btu/h	401,300	420,400	439,500	458,600
	Heating (Rated)	kW	131.0	137.3	143.6	148.5
		Btu/h	446,900	468,400	489,900	506,800
Input	Cooling (Rated)	kW	27.71	29.07	31.60	33.52
	Heating (Rated)	kW	30.91	34.36	36.39	37.69
EER (Rated)			4.24	4.24	4.08	4.01
COP (Rated)			4.24	3.99	3.94	3.94
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	(5,300 × 3) + (4,200 × 1)	5,300 × 4	5,300 × 4	5,300 × 4
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 4	900 × 4	900 × 4	900 × 4
	Air Flow Rate(High)	m^3/min	320 × 2	320 × 2	320 × 2	320 × 2
		ft^3/min	11,301 × 2	11,301 × 2	11,301 × 2	11,301 × 2
	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 Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	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)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2
Net Weight		kg	(290 × 1) + (270 × 1)	(290 × 1) + (288 × 1)	(290 × 1) + (288 × 1)	290 × 2
		lbs	(639 × 1) + (595 × 1)	(639 × 1) + (635 × 1)	(639 × 1) + (635 × 1)	639 × 2
Sound Pressure Level	Cooling	dB(A)	66.5	66.8	67.8	68.0
	Heating	dB(A)	68.2	68.9	69.3	70.0
Sound Power Level	Cooling	dB(A)	89.8	90.1	90.1	91.0
	Heating	dB(A)	91.5	91.8	92.1	93.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 13.0	16.0 + 14.0	16.0 + 14.0	16.0 + 16.0
		lbs	35.3 + 28.7	35.3 + 30.9	35.3 + 30.9	35.3 + 35.3
	TCO_2eq		60.5	62.6	62.6	66.8
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN500LTE5 / ARUN520LTE5 / ARUN540LTE5 / ARUN560LTE5

HP			50	52	54	56
Model Name	Combination Unit		ARUN500LTE5	ARUN520LTE5	ARUN540LTE5	ARUN560LTE5
	Independent Unit		ARUN240LTE5 ARUN140LTE5 ARUN120LTE5	ARUN240LTE5 ARUN160LTE5 ARUN120LTE5	ARUN240LTE5 ARUN180LTE5 ARUN120LTE5	ARUN240LTE5 ARUN200LTE5 ARUN120LTE5
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2	156.8
		Btu/h	477,700	496,800	515,900	535,000
	Heating (Rated)	kW	156.2	162.5	168.8	175.1
		Btu/h	532,900	554,400	575,900	597,400
Input	Cooling (Rated)	kW	33.78	35.46	35.62	36.97
	Heating (Rated)	kW	36.68	38.49	38.97	42.42
EER (Rated)			4.14	4.11	4.24	4.24
COP (Rated)			4.26	4.22	4.33	4.13
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 4	5,300 × 4	(5,300 × 4) + (4,200 × 1)	5,300 × 5
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)
	Air Flow Rate(High)	m^3/min	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)
		ft^3/min	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 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 Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	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)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1
Net Weight		kg	(290 × 1) + (230 × 1) + (203 × 1)	(290 × 1) + (230 × 1) + (203 × 1)	(290 × 1) + (270 × 1) + (203 × 1)	(290 × 1) + (288 × 1) + (203 × 1)
		lbs	(639 × 1) + (507 × 1) + (448 × 1)	(639 × 1) + (507 × 1) + (448 × 1)	(639 × 1) + (595 × 1) + (448 × 1)	(639 × 1) + (635 × 1) + (448 × 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.1	67.2	67.4
	Heating	dB(A)	68.6	68.7	68.8	69.5
Sound Power Level	Cooling	dB(A)	89.4	89.6	90.1	90.4
	Heating	dB(A)	91.3	91.5	91.8	92.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 13.0 + 10.0	16.0 + 13.0 + 10.0	16.0 + 13.0 + 10.0	16.0 + 14.0 + 10.0
		lbs	35.3 + 28.7 + 22.0	35.3 + 28.7 + 22.0	35.3 + 28.7 + 22.0	35.3 + 30.9 + 22.0
	TCO_2eq		81.4	81.4	81.4	83.5
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN580LTE5 / ARUN600LTE5 / ARUN620LTE5 / ARUN640LTE5

HP			58	60	62	64
Model Name	Combination Unit		ARUN580LTE5	ARUN600LTE5	ARUN620LTE5	ARUN640LTE5
	Independent Unit		ARUN240LTE5 ARUN220LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN140LTE5	ARUN240LTE5 ARUN240LTE5 ARUN160LTE5
Capacity	Cooling (Rated)	kW	162.4	168.0	173.6	179.2
		Btu/h	554,100	573,200	592,400	611,500
	Heating (Rated)	kW	181.4	186.3	192.6	198.9
		Btu/h	618,900	635,800	657,300	678,800
Input	Cooling (Rated)	kW	39.51	41.42	42.63	44.31
	Heating (Rated)	kW	44.45	45.75	47.47	49.28
EER (Rated)			4.11	4.06	4.07	4.04
COP (Rated)			4.08	4.07	4.06	4.04
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 5	5,300 × 5	5,300 × 5	5,300 × 5
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	900 × 6	900 × 6
	Air Flow Rate(High)	m^3/min	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	320 × 3	320 × 3
		ft^3/min	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	11,301 × 3	11,301 × 3
	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 Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	44.5(1-3/4)	44.5(1-3/4)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
Net Weight		kg	(290 × 1) + (288 × 1) + (203 × 1)	(290 × 2) + (203 × 1)	(290 × 2) + (230 × 1)	(290 × 2) + (230 × 1)
		lbs	(639 × 1) + (635 × 1) + (448 × 1)	(639 × 2) + (448 × 1)	(639 × 2) + (507 × 1)	(639 × 2) + (507 × 1)
Sound Pressure Level	Cooling	dB(A)	68.3	68.5	68.6	68.7
	Heating	dB(A)	69.8	70.4	70.5	70.6
Sound Power Level	Cooling	dB(A)	90.4	91.3	91.5	91.6
	Heating	dB(A)	92.4	93.2	93.5	93.6
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 14.0 + 10.0	16.0 + 16.0 + 10.0	16.0 + 16.0 + 13.0	16.0 + 16.0 + 13.0
		lbs	35.3 + 30.9 + 22.0	35.3 + 35.3 + 22.0	35.3 + 35.3 + 28.7	35.3 + 35.3 + 28.7
	TCO_2eq		83.5	87.7	93.9	93.9
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN660LTE5 / ARUN680LTE5 / ARUN700LTE5 / ARUN720LTE5

HP			66	68	70	72
Model Name	Combination Unit		ARUN660LTE5	ARUN680LTE5	ARUN700LTE5	ARUN720LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN180LTE5	ARUN240LTE5 ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN240LTE5 ARUN220LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5
Capacity	Cooling (Rated)	kW	184.8	190.4	196.0	201.6
		Btu/h	630,600	649,700	668,800	687,900
	Heating (Rated)	kW	205.2	211.5	217.8	222.8
		Btu/h	700,300	721,800	743,300	760,200
Input	Cooling (Rated)	kW	44.47	45.82	48.36	50.27
	Heating (Rated)	kW	49.76	53.21	55.24	56.54
EER (Rated)			4.16	4.16	4.05	4.01
COP (Rated)			4.12	3.97	3.94	3.94
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	(5,300 × 5) + (4,200 × 1)	5,300 × 6	5,300 × 6	5,300 × 6
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 6	900 × 6	900 × 6	900 × 6
	Air Flow Rate(High)	m^3/min	320 × 3	320 × 3	320 × 3	320 × 3
		ft^3/min	11,301 × 3	11,301 × 3	11,301 × 3	11,301 × 3
	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 Connctions	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
Net Weight		kg	(290 × 2) + (270 × 1)	(290 × 2) + (288 × 1)	(290 × 2) + (288 × 1)	290 × 3
		lbs	(639 × 2) + (595 × 1)	(639 × 2) + (635 × 1)	(639 × 2) + (635 × 1)	639 × 3
Sound Pressure Level	Cooling	dB(A)	68.8	69.0	69.6	69.8
	Heating	dB(A)	70.6	71.1	71.3	71.8
Sound Power Level	Cooling	dB(A)	92.0	92.2	92.2	92.8
	Heating	dB(A)	93.8	94.0	94.2	94.8
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 13.0	16.0 + 16.0 + 14.0	16.0 + 16.0 + 14.0	16.0 + 16.0 + 16.0
		lbs	35.3 + 35.3 + 28.7	35.3 + 35.3 + 30.9	35.3 + 35.3 + 30.9	35.3 + 35.3 + 35.3
	TCO_2eq		93.9	96.0	96.0	100.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN740LTE5 / ARUN760LTE5 / ARUN780LTE5 / ARUN800LTE5

HP			74	76	78	80
Model Name	Combination Unit		ARUN740LTE5	ARUN760LTE5	ARUN780LTE5	ARUN800LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN140LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN160LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN180LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN200LTE5 ARUN120LTE5
Capacity	Cooling (Rated)	kW	207.2	212.8	218.4	224.0
		Btu/h	707,000	726,100	745,200	764,300
	Heating (Rated)	kW	230.4	236.7	243.0	249.3
		Btu/h	786,300	807,800	829,300	850,800
Input	Cooling (Rated)	kW	50.54	52.22	52.38	53.73
	Heating (Rated)	kW	55.53	57.34	57.82	61.27
EER (Rated)			4.10	4.08	4.17	4.17
COP (Rated)			4.15	4.13	4.20	4.07
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 6	5,300 × 6	(5,300 × 6) + (4,200 × 1)	5,300 × 7
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)
	Air Flow Rate(High)	m^3/min	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)
		ft^3/min	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 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 Connctions	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1
Net Weight		kg	(290 × 2) + (230 × 1) + (203 × 1)	(290 × 2) + (230 × 1) + (203 × 1)	(290 × 2) + (270 × 1) + (203 × 1)	(290 × 2) + (288 × 1) + (203 × 1)
		lbs	(639 × 2) + (507 × 1) + (448 × 1)	(639 × 2) + (507 × 1) + (448 × 1)	(639 × 2) + (595 × 1) + (448 × 1)	(639 × 2) + (635 × 1) + (448 × 1)
Sound Pressure Level	Cooling	dB(A)	69.1	69.2	69.2	69.4
	Heating	dB(A)	70.9	70.9	71.0	71.4
Sound Power Level	Cooling	dB(A)	91.8	91.9	92.2	92.4
	Heating	dB(A)	93.7	93.8	94.0	94.2
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 13.0 + 10.0	16.0 + 16.0 + 14.0 + 10.0
		lbs	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 28.7 + 22.0	35.3 + 35.3 + 30.9 + 22.0
	TCO_2eq		114.8	114.8	114.8	116.9
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HIGH EFFICIENCY

ARUN820LTE5 / ARUN840LTE5 / ARUN860LTE5 / ARUN880LTE5

HP			82	84	86	88
Model Name	Combination Unit		ARUN820LTE5	ARUN840LTE5	ARUN860LTE5	ARUN880LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN220LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN120LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN140LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN160LTE5
Capacity	Cooling (Rated)	kW	229.6	235.2	240.8	246.4
		Btu/h	783,400	802,500	821,700	840,800
	Heating (Rated)	kW	255.6	260.6	266.9	273.2
		Btu/h	872,300	889,200	910,700	932,200
Input	Cooling (Rated)	kW	56.27	58.18	59.39	61.07
	Heating (Rated)	kW	63.30	64.60	66.32	68.13
EER (Rated)			4.08	4.04	4.05	4.03
COP (Rated)			4.04	4.03	4.02	4.01
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	5,300 × 7	5,300 × 7	5,300 × 7	5,300 × 7
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	900 × 8	900 × 8
	Air Flow Rate (High)	m^3/min	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	320 × 4	320 × 4
		ft^3/min	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	11,301 × 4	11,301 × 4
	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 Connctions	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4
Net Weight		kg	(290 × 2) + (288 × 1) + (203 × 1)	(290 × 3) + (203 × 1)	(290 × 3) + (230 × 1)	(290 × 3) + (230 × 1)
		lbs	(639 × 2) + (635 × 1) + (448 × 1)	(639 × 3) + (448 × 1)	(639 × 3) + (507 × 1)	(639 × 3) + (507 × 1)
Sound Pressure Level	Cooling	dB(A)	70.0	70.1	70.2	70.3
	Heating	dB(A)	71.6	72.1	72.1	72.2
Sound Power Level	Cooling	dB(A)	92.4	92.9	93.1	93.2
	Heating	dB(A)	94.4	94.9	95.1	95.2
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 14.0 + 10.0	16.0 + 16.0 + 16.0 + 10.0	16.0 + 16.0 + 16.0 + 13.0	16.0 + 16.0 + 16.0 + 13.0
		lbs	35.3 + 35.3 + 30.9 + 22.0	35.3 + 35.3 + 35.3 + 22.0	35.3 + 35.3 + 35.3 + 28.7	35.3 + 35.3 + 35.3 + 28.7
	TCO_2eq		116.9	121.1	127.3	127.3
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN900LTE5 / ARUN920LTE5 / ARUN940LTE5 / ARUN960LTE5

HP			90	92	94	96
Model Name	Combination Unit		ARUN900LTE5	ARUN920LTE5	ARUN940LTE5	ARUN960LTE5
	Independent Unit		ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN180LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN200LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN220LTE5	ARUN240LTE5 ARUN240LTE5 ARUN240LTE5 ARUN240LTE5
Capacity	Cooling (Rated)	kW	252.0	257.6	263.2	268.8
		Btu/h	859,900	879,000	898,100	917,200
	Heating (Rated)	kW	279.5	285.8	292.1	297.0
		Btu/h	953,700	975,200	996,700	1,013,600
Input	Cooling (Rated)	kW	61.23	62.58	65.12	67.03
	Heating (Rated)	kW	68.60	72.06	74.08	75.39
EER (Rated)			4.12	4.12	4.04	4.01
COP (Rated)			4.07	3.97	3.94	3.94
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Motor Output × Number	W × No.	(5,300 × 7) + (4,200 × 1)	5,300 × 8	5,300 × 8	5,300 × 8
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 8	900 × 8	900 × 8	900 × 8
	Air Flow Rate(High)	m^3/min	320 × 4	320 × 4	320 × 4	320 × 4
		ft^3/min	11,301 × 4	11,301 × 4	11,301 × 4	11,301 × 4
	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 Connctions	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4
Net Weight		kg	(290 × 3) + (270 × 1)	(290 × 3) + (288 × 1)	(290 × 3) + (288 × 1)	290 × 4
		lbs	(639 × 3) + (595 × 1)	(639 × 3) + (635 × 1)	(639 × 3) + (635 × 1)	639 × 4
Sound Pressure Level	Cooling	dB(A)	70.3	70.4	70.9	71.0
	Heating	dB(A)	72.2	72.5	72.7	73.0
Sound Power Level	Cooling	dB(A)	93.4	93.6	93.6	94.0
	Heating	dB(A)	95.3	95.4	95.6	96.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	16.0 + 16.0 + 16.0 + 13.0	16.0 + 16.0 + 16.0 + 14.0	16.0 + 16.0 + 16.0 + 14.0	16.0 + 16.0 + 16.0 + 16.0
		lbs	35.3 + 35.3 + 35.3 + 28.7	35.3 + 35.3 + 35.3 + 30.9	35.3 + 35.3 + 35.3 + 30.9	35.3 + 35.3 + 35.3 + 35.3
	TCO_2eq		127.3	129.4	129.4	133.6
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [6]			64	64	64	64

Note
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Power factor could vary less than ±1% according to the operating conditions.
4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
   Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
   Therefore, these values can be increased owing to ambient conditions during operation.
5. Performances are based on the following conditions :
   *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
6. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.
7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM080LTE5 / ARUM100LTE5 / ARUM120LTE5 / ARUM140LTE5

HP			8	10	12	14
Model Name	Combination Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
	Independent Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	Heating (Rated)	kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	Heating (Max)	kW	25.2	31.5	37.8	44.1
		Btu/h	86,000	107,500	129,000	150,500
Input[1)]	Cooling (Rated)	kW	4.49	5.80	7.58	8.68
	Heating (Rated)	kW	3.97	4.92	6.85	8.13
	Heating (Max)	kW	4.78	5.92	8.26	9.72
EER[1)]			4.99	4.83	4.43	4.52
ESEER[1)]			8.41	8.13	7.47	7.33
COP[1)]	Rated capacity		5.64	5.69	4.91	4.82
	Max. capacity		5.27	5.32	4.58	4.54
Input[2)]	Cooling (Rated)	kW	4.28	5.22	6.84	8.39
	Heating (Rated)	kW	3.92	4.74	6.73	8.33
	Heating (Max)	kW	4.54	5.46	7.73	9.55
EER[2)]			5.23	5.36	4.91	4.67
IEER[2)]			9.33	9.01	8.26	8.43
COP[2)]	Rated capacity		5.71	5.91	4.99	4.71
	Max. capacity		5.55	5.77	4.89	4.62
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	4,200 × 1	5,300 × 1	5,300 × 1	5,300 × 1
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	1,200 × 1	1,200 × 1	1,200 × 1	900 × 2
	Air Flow Rate(High)	m^3/min	240 × 1	240 × 1	240 × 1	320 × 1
		ft^3/min	8,476 × 1	8,476 × 1	8,476 × 1	1,1301 × 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Low Pressure Gas Pipe	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)	28.58(1-1/8)
	High Pressure Gas Pipe	mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	22.2(7/8)
Dimensions(W × H × D)		mm	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760)×1
Net Weight		kg	198 × 1	215 × 1	215 × 1	237 × 1
		lbs	437 × 1	474 × 1	474 × 1	522 × 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.0	59.0	60.0
	Heating	dB(A)	59.0	59.0	60.0	61.0
Sound Power Level	Cooling	dB(A)	77.0	78.0	79.0	82.0
	Heating	dB(A)	78.0	79.0	80.0	84.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	7.5	9.5	9.5	13.5
		lbs	16.5	20.9	20.9	29.8
	TCO_2eq		15.7	19.8	19.8	28.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[8)]			13(20)	16(25)	20(30)	23(35)

* 1) Eurovent, 2) ISO test condition

ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5 / ARUM220LTE5

HP			16	18	20	22
Model Name	Combination Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM220LTE5
	Independent Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM220LTE5
Capacity	Cooling (Rated)	kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	Heating (Rated)	kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	Heating (Max)	kW	50.4	56.7	63.0	69.3
		Btu/h	172,000	193,500	215,000	236,500
Input[1)]	Cooling (Rated)	kW	10.89	10.91	12.77	15.70
	Heating (Rated)	kW	10.28	10.12	12.20	14.15
	Heating (Max)	kW	12.39	11.94	14.69	16.76
EER[1)]			4.11	4.62	4.39	3.92
ESEER[1)]			6.59	7.40	7.03	6.68
COP[1)]	Rated capacity		4.36	4.98	4.59	4.35
	Max. capacity		4.07	4.75	4.29	4.13
Input[2)]	Cooling (Rated)	kW	10.41	9.83	11.51	14.15
	Heating (Rated)	kW	10.11	9.52	11.42	13.14
	Heating (Max)	kW	11.57	11.13	13.26	15.20
EER[2)]			4.30	5.13	4.87	4.35
IEER[2)]			8.02	8.62	8.12	7.77
COP[2)]	Rated capacity		4.43	5.29	4.90	4.69
	Max. capacity		4.36	5.09	4.75	4.56
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	5,300 × 1	5,300 × 1 + 4,200 × 1	5,300 × 1 + 4,200 × 1	5,300 × 1 + 4,200 × 1
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 2	900 × 2	900 × 2	900 × 2
	Air Flow Rate (High)	m^3/min	320 × 1	320 × 1	320 × 1	320 × 1
		ft^3/min	1,1301 × 1	1,1301 × 1	1,1301 × 1	1,1301 × 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Low Pressure Gas Pipe	mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
	High Pressure Gas Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	28.58(1-1/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1
Net Weight		kg	237 × 1	300 × 1	300 × 1	300 × 1
		lbs	522 × 1	661 × 1	661 × 1	661 × 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.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.5	16.0	16.0	16.0
		lbs	29.8	35.3	35.3	35.3
	TCO_2eq		28.2	33.4	33.4	33.4
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units[8)]			26(40)	29(45)	32(50)	35(56)

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM240LTE5 / ARUM260LTE5 / ARUM221LTE5 / ARUM241LTE5

HP			24	26	22'	24'
Model Name	Combination Unit		ARUM240LTE5	ARUM260LTE5	ARUM221LTE5	ARUM241LTE5
	Independent Unit		ARUM240LTE5	ARUM260LTE5	ARUM120LTE5 ARUM100LTE5	ARUM120LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	67.2	72.8	61.6	67.2
		Btu/h	229,300	248,400	210,200	229,300
	Heating (Rated)	kW	67.2	67.2	61.6	67.2
		Btu/h	229,300	229,300	210,200	229,300
	Heating (Max)	kW	74.3	74.3	69.3	75.6
		Btu/h	253,400	253,400	236,500	257,900
Input [1)]	Cooling (Rated)	kW	17.40	20.20	13.4	15.2
	Heating (Rated)	kW	15.89	15.99	11.8	13.7
	Heating (Max)	kW	18.80	19.15	14.2	16.5
EER [1)]			3.86	3.60	4.60	4.43
ESEER [1)]			6.57	6.34	7.76	7.47
COP [1)]	Rated capacity		4.23	4.20	5.23	4.91
	Max. capacity		3.95	3.88	4.89	4.58
Input [2)]	Cooling (Rated)	kW	15.91	18.03	12.1	13.7
	Heating (Rated)	kW	15.06	15.68	11.5	13.5
	Heating (Max)	kW	17.13	17.55	13.2	15.5
EER [2)]			4.22	4.04	5.11	4.91
IEER [2)]			7.62	7.38	8.59	8.26
COP [2)]	Rated capacity		4.46	4.29	5.37	4.99
	Max. capacity		4.33	4.23	5.25	4.89
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	5,300 × 2	5,300 × 2	5,300 × 2	5,300 × 2
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 2	900 × 2	(1200 × 1) + (1,200 × 1)	(1200 × 1) + (1,200 × 1)
	Air Flow Rate (High)	m^3/min	320 × 1	320 × 1	(240 × 1) + (240 × 1)	(240 × 1) + (240 × 1)
		ft^3/min	1,1301 × 1	1,1301 × 1	(8,476 × 1) + (8,476 × 1)	(8,476 × 1) + (8,476 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	15.88(5/8)	19.05(3/4)	15.88(5/8)	15.88(5/8)
	Low Pressure Gas Pipe	mm(inch)	34.9(1-3/8)	34.9(1-3/8)	28.58(1-1/8)	34.9(1-3/8)
	High Pressure 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 × H × D)		mm	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1	(930 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1
Net Weight		kg	310 × 1	310 × 1	(215 × 1) + (215 × 1)	(215 × 1) + (215 × 1)
		lbs	683 × 1	683 × 1	(474 × 1) + (474 × 1)	(474 × 1) + (474 × 1)
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	61.5	62.0
	Heating	dB(A)	67.0	67.0	62.5	63.0
Sound Power Level	Cooling	dB(A)	88.0	88.0	81.5	82.0
	Heating	dB(A)	90.0	90.0	82.5	83.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	17.0	17.0	19.0	19.0
		lbs	37.5	37.5	41.9	41.9
	TCO_2eq		35.5	35.5	39.7	39.7
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]			39(61)	42(64)	35(44)	39(48)

* 1) Eurovent, 2) ISO test condition

ARUM261LTE5 / ARUM280LTE5 / ARUM300LTE5 / ARUM320LTE5

HP			26'	28	30	32
Model Name	Combination Unit		ARUM261LTE5	ARUM280LTE5	ARUM300LTE5	ARUM320LTE5
	Independent Unit		ARUM140LTE5 ARUM120LTE5	ARUM160LTE5 ARUM120LTE5	ARUM180LTE5 ARUM120LTE5	ARUM200LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0	89.6
		Btu/h	248,400	267,500	286,600	305,700
	Heating (Rated)	kW	72.8	78.4	84.0	89.6
		Btu/h	248,400	267,500	286,600	305,700
	Heating (Max)	kW	81.9	88.2	94.5	100.8
		Btu/h	279,400	300,900	322,400	343,900
Input [1)]	Cooling (Rated)	kW	16.3	18.5	18.5	20.4
	Heating (Rated)	kW	15.0	17.1	17.0	19.1
	Heating (Max)	kW	18.0	20.7	20.2	22.9
EER [1)]			4.48	4.24	4.54	4.40
ESEER [1)]			7.39	6.94	7.43	7.19
COP [1)]	Rated capacity		4.86	4.58	4.95	4.70
	Max. capacity		4.56	4.27	4.68	4.39
Input [2)]	Cooling (Rated)	kW	15.2	17.3	16.7	18.4
	Heating (Rated)	kW	15.1	16.84	16.25	18.15
	Heating (Max)	kW	17.3	19.30	18.86	20.99
EER [2)]			4.78	4.54	5.04	4.88
IEER [2)]			8.35	8.12	8.47	8.17
COP [2)]	Rated capacity		4.83	4.66	5.17	4.94
	Max. capacity		4.74	4.57	5.01	4.80
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	5,300 × 2	5,300 × 2	(5,300 × 2) + (4,200 × 1)	(5,300 × 2) + (4,200 × 1)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)
	Air Flow Rate (High)	m^3/min	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)
		ft^3/min	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas Pipe	mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
	High Pressure 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 × H × D)		mm	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1
Net Weight		kg	(237 × 1) + (215 × 1)	(237 × 1) + (215 × 1)	(300 × 1) + (215 × 1)	(300 × 1) + (215 × 1)
		lbs	(522 × 1) + (474 × 1)	(522 × 1) + (474 × 1)	(661 × 1) + (474 × 1)	(661 × 1) + (474 × 1)
Sound Pressure Level	Cooling	dB(A)	62.5	62.8	63.1	63.8
	Heating	dB(A)	63.5	63.8	64.1	65.8
Sound Power Level	Cooling	dB(A)	83.8	84.5	86.0	86.8
	Heating	dB(A)	85.5	86.2	87.0	87.8
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	23.0	23.0	25.5	25.5
		lbs	50.7	50.7	56.2	56.2
	TCO_2eq		48.0	48.0	53.2	53.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]			42(52)	45(56)	49(60)	52(64)

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM340LTE5 / ARUM360LTE5 / ARUM380LTE5 / ARUM400LTE5

HP				34	36	38	40
Model Name	Combination Unit			ARUM340LTE5	ARUM360LTE5	ARUM380LTE5	ARUM400LTE5
	Independent Unit			ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM140LTE5	ARUM240LTE5 ARUM160LTE5
Capacity	Cooling (Rated)		kW	95.2	100.8	106.4	112.0
			Btu/h	324,800	343,900	363,000	382,100
	Heating (Rated)		kW	95.2	100.8	106.4	112.0
			Btu/h	324,800	343,900	363,000	382,100
	Heating (Max)		kW	107.1	112.1	118.4	124.7
			Btu/h	365,400	382,300	403,800	425,300
Input [1)]	Cooling (Rated)		kW	23.3	25.0	26.1	28.3
	Heating (Rated)		kW	21.0	22.7	24.0	26.2
	Heating (Max)		kW	25.0	27.1	28.5	31.2
EER [1)]				4.09	4.04	4.08	3.96
ESEER [1)]				6.94	6.85	6.83	6.58
COP [1)]	Rated capacity			4.53	4.43	4.43	4.28
	Max. capacity			4.28	4.14	4.15	4.00
Input [2)]	Cooling (Rated)		kW	21.0	22.8	24.3	26.3
	Heating (Rated)		kW	19.87	21.79	23.39	25.17
	Heating (Max)		kW	22.93	24.86	26.68	28.70
EER [2)]				4.54	4.43	4.38	4.26
IEER [2)]				7.93	7.82	7.90	7.77
COP [2)]	Rated capacity			4.79	4.63	4.55	4.45
	Max. capacity			4.67	4.51	4.44	4.34
Power Factor	Rated		-	0.93	0.93	0.93	0.93
Exterior	Color			Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code			NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger				Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number		W × No.	(5,300 × 2) + (4,200 × 1)	5,300 × 3	5,300 × 3	5,300 × 3
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number		W	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	900 × 4	900 × 4
	Air Flow Rate (High)		m^3/min	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	320 × 2	320 × 2
			ft^3/min	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	11,301 × 2	11,301 × 2
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas Pipe		mm(inch)	34.9(1-3/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure Gas Pipe		mm(inch)	28.58(1-1/8)	28.58(1-1/8)	34.9(1-3/8)	34.9(1-3/8)
Dimensions (W × H × D)			mm	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 1 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2
Net Weight			kg	(300 × 1) + (215 × 1)	(310 × 1) + (215 × 1)	(310 × 1) + (237 × 1)	(310 × 1) + (237 × 1)
			lbs	(661 × 1) + (474 × 1)	(683 × 1) + (474 × 1)	(683 × 1) + (522 × 1)	(683 × 1) + (522 × 1)
Sound Pressure Level	Cooling		dB(A)	65.6	66.0	66.2	66.3
	Heating		dB(A)	66.6	67.8	68.0	68.1
Sound Power Level	Cooling		dB(A)	86.8	88.5	89.0	89.2
	Heating		dB(A)	88.6	90.4	91.0	91.2
Communication Cable			No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant name			R410A	R410A	R410A	R410A
	Precharged Amount in factory		kg	25.5	26.5	30.5	30.5
			lbs	56.2	58.4	67.2	67.2
	TCO_2eq			53.2	55.3	63.7	63.7
	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
				380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]				55(64)	58(64)	61(64)	64

ARUM420LTE5 / ARUM440LTE5 / ARUM460LTE5 / ARUM480LTE5

HP				42	44	46	48
Model Name	Combination Unit			ARUM420LTE5	ARUM440LTE5	ARUM460LTE5	ARUM480LTE5
	Independent Unit			ARUM240LTE5 ARUM180LTE5	ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5
Capacity	Cooling (Rated)		kW	117.6	123.2	128.8	134.4
			Btu/h	401,300	420,400	439,500	458,600
	Heating (Rated)		kW	117.6	123.2	128.8	134.4
			Btu/h	401,300	420,400	439,500	458,600
	Heating (Max)		kW	131.0	137.3	143.6	148.5
			Btu/h	446,800	468,300	489,800	506,700
Input [1)]	Cooling (Rated)		kW	28.3	30.2	33.1	34.8
	Heating (Rated)		kW	26.0	28.1	30.0	31.8
	Heating (Max)		kW	30.7	33.5	35.6	37.6
EER [1)]				4.15	4.08	3.89	3.86
ESEER [1)]				6.90	6.77	6.62	6.57
COP [1)]	Rated capacity			4.52	4.39	4.29	4.23
	Max. capacity			4.26	4.10	4.04	3.95
Input [2)]	Cooling (Rated)		kW	25.7	27.4	30.1	31.8
	Heating (Rated)		kW	24.58	26.48	28.20	30.12
	Heating (Max)		kW	28.26	30.39	32.33	34.26
EER [2)]				4.57	4.49	4.28	4.22
IEER [2)]				8.02	7.83	7.69	7.62
COP [2)]	Rated capacity			4.78	4.65	4.57	4.46
	Max. capacity			4.63	4.52	4.44	4.33
Power Factor	Rated		-	0.93	0.93	0.93	0.93
Exterior	Color			Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code			NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger				Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number		W × No.	(5,300 × 3) + (4,200 × 1)	(5,300 × 3) + (4,200 × 1)	(5,300 × 3) + (4,200 × 1)	5,300 × 4
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number		W	900 × 4	900 × 4	900 × 4	900 × 4
	Air Flow Rate (High)		m^3/min	320 × 2	320 × 2	320 × 2	320 × 2
			ft^3/min	11,301 × 2	11,301 × 2	11,301 × 2	11,301 × 2
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas Pipe		mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure 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 × H × D)			mm	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2
Net Weight			kg	(310 × 1) + (300 × 1)	(310 × 1) + (300 × 1)	(310 × 1) + (300 × 1)	310 × 2
			lbs	(683 × 1) + (661 × 1)	(683 × 1) + (661 × 1)	(683 × 1) + (661 × 1)	683 × 2
Sound Pressure Level	Cooling		dB(A)	66.5	66.8	67.8	68.0
	Heating		dB(A)	68.2	68.9	69.3	70.0
Sound Power Level	Cooling		dB(A)	89.8	90.1	90.1	91.0
	Heating		dB(A)	91.5	91.8	92.1	93.0
Communication Cable			No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refrigerant	Refrigerant name			R410A	R410A	R410A	R410A
	Precharged Amount in factory		kg	33.0	33.0	33.0	34.0
			lbs	72.8	72.8	72.8	75.0
	TCO_2eq			68.9	68.9	68.9	71.0
	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
				380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]				64	64	64	64

* 1) Eurovent, 2) ISO test condition

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM500LTE5 / ARUM520LTE5 / ARUM540LTE5 / ARUM560LTE5

HP			50	52	54	56
Model Name	Combination Unit		ARUM500LTE5	ARUM520LTE5	ARUM540LTE5	ARUM560LTE5
	Independent Unit		ARUM240LTE5 ARUM140LTE5 ARUM120LTE5	ARUM240LTE5 ARUM160LTE5 ARUM120LTE5	ARUM240LTE5 ARUM180LTE5 ARUM120LTE5	ARUM240LTE5 ARUM200LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	140.0	145.6	151.2	156.8
		Btu/h	477,700	496,800	515,900	535,000
	Heating (Rated)	kW	140.0	145.6	151.2	156.8
		Btu/h	477,700	496,800	515,900	535,000
	Heating (Max)	kW	156.2	162.5	168.8	175.1
		Btu/h	532,800	554,300	575,800	597,300
Input [1]	Cooling (Rated)	kW	33.7	35.9	35.9	37.8
	Heating (Rated)	kW	30.9	33.0	32.9	34.9
	Heating (Max)	kW	36.8	39.4	39.0	41.7
EER [1]			4.16	4.06	4.21	4.15
ESEER [1]			6.97	6.76	7.02	6.91
COP [1]	Rated capacity		4.54	4.41	4.60	4.49
	Max. capacity		4.25	4.12	4.33	4.19
Input [2]	Cooling (Rated)	kW	31.1	33.2	32.6	34.3
	Heating (Rated)	kW	30.12	31.90	31.31	33.21
	Heating (Max)	kW	34.41	36.43	35.99	38.12
EER [2]			4.50	4.39	4.64	4.58
IEER [2]			7.98	7.88	8.07	7.92
COP [2]	Rated capacity		4.65	4.56	4.83	4.72
	Max. capacity		4.54	4.46	4.69	4.59
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	5,300 × 4	5,300 × 4	(5,300 × 4) + (4,200 × 1)	(5,300 × 4) + (4,200 × 1)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)
	Air Flow Rate (High)	m^3/min	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)
		ft^3/min	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Conncions #1	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Low Pressure Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
	High Pressure 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 × H × D)		mm	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1
Net Weight		kg	(310 × 1) + (237 × 1) + (215 × 1)	(310 × 1) + (237 × 1) + (215 × 1)	(310 × 1) + (300 × 1) + (215 × 1)	(310 × 1) + (300 × 1) + (215 × 1)
		lbs	(683 × 1) + (522 × 1) + (474 × 1)	(683 × 1) + (522 × 1) + (474 × 1)	(683 × 1) + (661 × 1) + (474 × 1)	(683 × 1) + (661 × 1) + (474 × 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.1	67.2	67.4
	Heating	dB(A)	68.6	68.7	68.8	69.5
Sound Power Level	Cooling	dB(A)	89.4	89.6	90.1	90.4
	Heating	dB(A)	91.3	91.5	91.8	92.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	40.0	40.0	42.5	42.5
		lbs	88.2	88.2	93.7	93.7
	TCO_2eq		83.5	83.5	88.7	88.7
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8]			64	64	64	64

* 1) Eurovent, 2) ISO test condition

ARUM580LTE5 / ARUM600LTE5 / ARUM620LTE5 / ARUM640LTE5

HP			58	60	62	64
Model Name	Combination Unit		ARUM580LTE5	ARUM600LTE5	ARUM620LTE5	ARUM640LTE5
	Independent Unit		ARUM240LTE5 ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM140LTE5	ARUM240LTE5 ARUM240LTE5 ARUM160LTE5
Capacity	Cooling (Rated)	kW	162.4	168.0	173.6	179.2
		Btu/h	554,100	573,200	592,300	611,400
	Heating (Rated)	kW	162.4	168.0	173.6	179.2
		Btu/h	554,100	573,200	592,300	611,400
	Heating (Max)	kW	181.4	186.3	192.6	198.9
		Btu/h	618,800	635,700	657,200	678,700
Input [1]	Cooling (Rated)	kW	40.7	42.4	43.5	45.7
	Heating (Rated)	kW	36.9	38.6	39.9	42.1
	Heating (Max)	kW	43.8	45.9	47.3	50.0
EER [1]			3.99	3.96	3.99	3.92
ESEER [1]			6.78	6.73	6.73	6.58
COP [1]	Rated capacity		4.40	4.35	4.35	4.26
	Max. capacity		4.14	4.06	4.07	3.98
Input [2]	Cooling (Rated)	kW	36.9	38.7	40.2	42.2
	Heating (Rated)	kW	34.93	36.85	38.45	40.23
	Heating (Max)	kW	40.06	41.99	43.81	45.83
EER [2]			4.40	4.35	4.32	4.24
IEER [2]			7.80	7.74	7.79	7.71
COP [2]	Rated capacity		4.65	4.56	4.51	4.45
	Max. capacity		4.53	4.44	4.40	4.34
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	(5,300 × 4) + (4,200 × 1)	5,300 × 5	5,300 × 5	5,300 × 5
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 4) + (1,200 × 1)	(900 × 4) + (1,200 × 1)	900 × 6	900 × 6
	Air Flow Rate (High)	m^3/min	(320 × 2) + (240 × 1)	(320 × 2) + (240 × 1)	320 × 3	320 × 3
		ft^3/min	(11,301 × 2) + (8,476 × 1)	(11,301 × 2) + (8,476 × 1)	11,301 × 3	11,301 × 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Conncions #1	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	44.5(1-3/4)	44.5(1-3/4)
	High Pressure Gas Pipe	mm(inch)	34.9(1-3/8)	34.9(1-3/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 2 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
Net Weight		kg	(310 × 1) + (300 × 1) + (215 × 1)	(310 × 2) + (215 × 1)	(310 × 2) + (237 × 1)	(310 × 2) + (237 × 1)
		lbs	(683 × 1) + (661 × 1) + (474 × 1)	(683 × 2) + (474 × 1)	(683 × 2) + (522 × 1)	(683 × 2) + (522 × 1)
Sound Pressure Level	Cooling	dB(A)	68.3	68.5	68.6	68.7
	Heating	dB(A)	69.8	70.4	70.5	70.6
Sound Power Level	Cooling	dB(A)	90.4	91.3	91.5	91.6
	Heating	dB(A)	92.4	93.2	93.5	93.6
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	42.5	43.5	47.5	47.5
		lbs	93.7	95.9	104.7	104.7
	TCO_2eq		88.7	90.8	99.2	99.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8]			64	64	64	64

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM660LTE5 / ARUM680LTE5 / ARUM700LTE5 / ARUM720LTE5

HP			66	68	70	72
Model Name	Combination Unit		ARUM660LTE5	ARUM680LTE5	ARUM700LTE5	ARUM720LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM180LTE5	ARUM240LTE5 ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5
Capacity	Cooling (Rated)	kW	184.8	190.4	196.0	201.6
		Btu/h	630,500	649,600	668,800	687,900
	Heating (Rated)	kW	184.8	190.4	196.0	201.6
		Btu/h	630,500	649,600	668,800	687,900
	Heating (Max)	kW	205.2	211.5	217.8	222.8
		Btu/h	700,200	721,700	743,200	760,100
Input [1)]	Cooling (Rated)	kW	45.7	47.6	50.5	52.2
	Heating (Rated)	kW	41.9	44.0	45.9	47.7
	Heating (Max)	kW	49.5	52.3	54.4	56.4
EER [1)]			4.04	4.00	3.88	3.86
ESEER [1)]			6.78	6.70	6.60	6.57
COP [1)]	Rated capacity		4.41	4.33	4.27	4.23
	Max. capacity		4.14	4.05	4.01	3.95
Input [2)]	Cooling (Rated)	kW	41.7	43.3	46.0	47.7
	Heating (Rated)	kW	39.64	41.54	43.26	45.18
	Heating (Max)	kW	45.39	47.52	49.46	51.39
EER [2)]			4.44	4.39	4.26	4.22
IEER [2)]			7.87	7.75	7.66	7.62
COP [2)]	Rated capacity		4.66	4.58	4.53	4.46
	Max. capacity		4.52	4.45	4.40	4.33
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	(5,300 × 5) + (4,200 × 1)	(5,300 × 5) + (4,200 × 1)	(5,300 × 5) + (4,200 × 1)	5,300 × 6
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 6	900 × 6	900 × 6	900 × 6
	Air Flow Rate (High)	m^3/min	320 × 3	320 × 3	320 × 3	320 × 3
		ft^3/min	11,301 × 3	11,301 × 3	11,301 × 3	11,301 × 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Conncions #1	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
Net Weight		kg	(310 × 2) + (300 × 1)	(310 × 2) + (300 × 1)	(310 × 2) + (300 × 1)	310 × 3
		lbs	(683 × 2) + (661 × 1)	(683 × 2) + (661 × 1)	(683 × 2) + (661 × 1)	683 × 3
Sound Pressure Level	Cooling	dB(A)	68.8	69.0	69.6	69.8
	Heating	dB(A)	70.6	71.1	71.3	71.8
Sound Power Level	Cooling	dB(A)	92.0	92.2	92.2	92.8
	Heating	dB(A)	93.8	94.0	94.2	94.8
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	50.0	50.0	50.0	51.0
		lbs	110.2	110.2	110.2	112.4
	TCO_2eq		104.4	104.4	104.4	106.5
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]			64	64	64	64

ARUM740LTE5 / ARUM760LTE5 / ARUM780LTE5 / ARUM800LTE5

HP			74	76	78	80
Model Name	Combination Unit		ARUM740LTE5	ARUM760LTE5	ARUM780LTE5	ARUM800LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM140LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM160LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM180LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM200LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	207.2	212.8	218.4	224.0
		Btu/h	707,000	726,100	745,200	764,300
	Heating (Rated)	kW	207.2	212.8	218.4	224.0
		Btu/h	707,000	726,100	745,200	764,300
	Heating (Max)	kW	230.4	236.7	243.0	249.3
		Btu/h	786,200	807,700	829,200	850,700
Input [1)]	Cooling (Rated)	kW	51.1	53.3	53.3	55.2
	Heating (Rated)	kW	46.8	48.9	48.8	50.8
	Heating (Max)	kW	55.6	58.2	57.8	60.5
EER [1)]			4.06	3.99	4.10	4.06
ESEER [1)]			6.84	6.70	6.88	6.80
COP [1)]	Rated capacity		4.43	4.35	4.48	4.41
	Max. capacity		4.15	4.06	4.20	4.12
Input [2)]	Cooling (Rated)	kW	47.1	49.1	48.5	50.2
	Heating (Rated)	kW	45.18	46.96	46.37	48.27
	Heating (Max)	kW	51.54	53.56	53.12	55.25
EER [2)]			4.40	4.34	4.50	4.46
IEER [2)]			7.86	7.79	7.92	7.82
COP [2)]	Rated capacity		4.59	4.53	4.71	4.64
	Max. capacity		4.47	4.42	4.57	4.51
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	5,300 × 6	5,300 × 6	(5,300 × 6) + (4,200 × 1)	(5,300 × 6) + (4,200 × 1)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)
	Air Flow Rate (High)	m^3/min	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)
		ft^3/min	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Conncions #1	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1
Net Weight		kg	(310 × 2) + (237 × 1) + (215 × 1)	(310 × 2) + (237 × 1) + (215 × 1)	(310 × 2) + (300 × 1) + (215 × 1)	(310 × 2) + (300 × 1) + (215 × 1)
		lbs	(683 × 2) + (522 × 1) + (474 × 1)	(683 × 2) + (522 × 1) + (474 × 1)	(683 × 2) + (661 × 1) + (474 × 1)	(683 × 2) + (661 × 1) + (474 × 1)
Sound Pressure Level	Cooling	dB(A)	69.1	69.2	69.2	69.4
	Heating	dB(A)	70.9	70.9	71.0	71.4
Sound Power Level	Cooling	dB(A)	91.8	91.9	92.2	92.4
	Heating	dB(A)	93.7	93.8	94.0	94.2
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	57.0	57.0	59.5	59.5
		lbs	125.7	125.7	131.2	131.2
	TCO_2eq		119.0	119.0	124.2	124.2
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8)]			64	64	64	64

* 1) Eurovent, 2) ISO test condition

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

HEAT RECOVERY

ARUM820LTE5 / ARUM840LTE5 / ARUM860LTE5 / ARUM880LTE5

HP			82	84	86	88
Model Name	Combination Unit		ARUM820LTE5	ARUM840LTE5	ARUM860LTE5	ARUM880LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM140LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM160LTE5
Capacity	Cooling (Rated)	kW	229.6	235.2	240.8	246.4
		Btu/h	783,400	802,500	821,600	840,700
	Heating (Rated)	kW	229.6	235.2	240.8	246.4
		Btu/h	783,400	802,500	821,600	840,700
	Heating (Max)	kW	255.6	260.6	266.9	273.2
		Btu/h	872,100	889,100	910,600	932,000
Input [1]	Cooling (Rated)	kW	58.1	59.8	60.9	63.1
	Heating (Rated)	kW	52.8	54.5	55.8	58.0
	Heating (Max)	kW	62.6	64.7	66.1	68.8
EER [1]			3.95	3.93	3.96	3.91
ESEER [1]			6.72	6.69	6.68	6.57
COP [1]	Rated capacity		4.35	4.31	4.32	4.25
	Max. capacity		4.08	4.03	4.04	3.97
Input [1]	Cooling (Rated)	kW	52.8	54.6	56.1	58.1
	Heating (Rated)	kW	49.99	51.91	53.51	55.29
	Heating (Max)	kW	57.19	59.12	60.94	62.96
EER [2]			4.35	4.31	4.29	4.24
IEER [2]			7.74	7.70	7.74	7.69
COP [2]	Rated capacity		4.59	4.53	4.50	4.46
	Max. capacity		4.47	4.41	4.38	4.34
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	(5,300 × 6) + (4,200 × 1)	5,300 × 7	5,300 × 7	5,300 × 7
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	(900 × 6) + (1,200 × 1)	(900 × 6) + (1,200 × 1)	900 × 8	900 × 8
	Air Flow Rate (High)	m^3/min	(320 × 3) + (240 × 1)	(320 × 3) + (240 × 1)	320 × 4	320 × 4
		ft^3/min	(11,301 × 3) + (8,476 × 1)	(11,301 × 3) + (8,476 × 1)	11,301 × 4	11,301 × 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760) × 3 + (930 × 1,690 × 760) × 1	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4
Net Weight		kg	(310 × 2) + (300 × 1) + (215 × 1)	(310 × 3) + (215 × 1)	(310 × 3) + (237 × 1)	(310 × 3) + (237 × 1)
		lbs	(683 × 2) + (661 × 1) + (474 × 1)	(683 × 3) + (474 × 1)	(683 × 3) + (522 × 1)	(683 × 3) + (522 × 1)
Sound Pressure Level	Cooling	dB(A)	70.0	70.1	70.2	70.3
	Heating	dB(A)	71.6	72.1	72.1	72.2
Sound Power Level	Cooling	dB(A)	92.4	92.9	93.1	93.2
	Heating	dB(A)	94.4	94.9	95.1	95.2
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	59.5	60.5	64.5	64.5
		lbs	131.2	133.4	142.2	142.2
	TCO_2eq		124.2	126.3	134.6	134.6
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8]			64	64	64	64

* 1) Eurovent, 2) ISO test condition

ARUM900LTE5 / ARUM920LTE5 / ARUM940LTE5 / ARUM960LTE5

HP			90	92	94	96
Model Name	Combination Unit		ARUM900LTE5	ARUM920LTE5	ARUM940LTE5	ARUM960LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM180LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM240LTE5
Capacity	Cooling (Rated)	kW	252.0	257.6	263.2	268.8
		Btu/h	859,800	878,900	898,000	917,100
	Heating (Rated)	kW	252.0	257.6	263.2	268.8
		Btu/h	859,800	878,900	898,000	917,100
	Heating (Max)	kW	279.5	285.8	292.1	297.0
		Btu/h	953,500	975,000	996,500	1,013,400
Input [1]	Cooling (Rated)	kW	63.1	65.0	67.9	69.6
	Heating (Rated)	kW	57.8	59.9	61.8	63.6
	Heating (Max)	kW	68.3	71.1	73.2	75.2
EER [1]			3.99	3.96	3.88	3.86
ESEER [1]			6.72	6.66	6.60	6.57
COP [1]	Rated capacity		4.36	4.30	4.26	4.23
	Max. capacity		4.09	4.02	3.99	3.95
Input [2]	Cooling (Rated)	kW	57.6	59.2	61.9	63.6
	Heating (Rated)	kW	54.70	56.60	58.32	60.24
	Heating (Max)	kW	62.52	64.65	66.59	68.52
EER [2]			4.38	4.35	4.25	4.22
IEER [2]			7.80	7.72	7.65	7.62
COP [2]	Rated capacity		4.61	4.55	4.51	4.46
	Max. capacity		4.47	4.42	4.39	4.33
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Exterior	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
	RAL code		NL503K / NA507K	NL503K / NA507K	NL503K / NA507K	NL503K / NA507K
Heat Exchanger			Ocean Black Fin	Ocean Black Fin	Ocean Black Fin	Ocean Black Fin
Compressor	Motor Output × Number	W × No.	(5,300 × 7) + (4,200 × 1)	(5,300 × 7) + (4,200 × 1)	(5,300 × 7) + (4,200 × 1)	5,300 × 8
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 8	900 × 8	900 × 8	900 × 8
	Air Flow Rate (High)	m^3/min	320 × 4	320 × 4	320 × 4	320 × 4
		ft^3/min	11,301 × 4	11,301 × 4	11,301 × 4	11,301 × 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions #1	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Low Pressure Gas Pipe	mm(inch)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)	53.98(2-1/8)
	High Pressure Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)	44.5(1-3/4)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4	(1,240 ×1,690 × 760) × 4
Net Weight		kg	(310 × 3) + (300 × 1)	(310 × 3) + (300 × 1)	(310 × 3) + (300 × 1)	310 × 4
		lbs	(683 × 3) + (661 × 1)	(683 × 3) + (661 × 1)	(683 × 3) + (661 × 1)	683 × 4
Sound Pressure Level	Cooling	dB(A)	70.3	70.4	70.9	71.0
	Heating	dB(A)	72.2	72.5	72.7	73.0
Sound Power Level	Cooling	dB(A)	93.4	93.6	93.6	94.0
	Heating	dB(A)	95.3	95.4	95.6	96.0
Communication Cable		No.×mm^2 (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	67.0	67.0	67.0	68.0
		lbs	147.7	147.7	147.7	149.9
	TCO_2eq		139.9	139.9	139.9	142.0
	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
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [8]			64	64	64	64

* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

Notes

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

2. Wiring cable size must comply with the applicable local and national codes. And “Electric characteristics” chapter should be considered for electrical

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

4. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values can be increased owing to ambient conditions during operation.

5. Performances are based on the following conditions :
   - *Cooling : Indoot Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   - *Heating : Indoot Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

6. EUROVENT Test Condition :
   - Performance values on the this PDB are based on Ceiling concealed duct combination.
   - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.

7. ESEER calculation corresponds with below conditions and power input of indoor units is not included.
   ESEER Formula = A x EER100% + B x EER75% + C x EER50% + D x EER25%
   - Coefficient : A=0.03, B=0.33, C=0.41, D=0.23
   - Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35°CDB / 30°CDB / 25°CDB / 20°CDB
   - Indoor temperature condition : 27°C(80.6°F) DB / 19°C(66.2°F) WB

8. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination. The recommended ratio is 130%.

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

10. Electric Characteristics

Model	Unit			Power Supply			COMP			OFM	
	Hz	Volts	Voltage-range	MCA	TOCA	MFA	MSC	RLA(Cooling)	RLA(Heating)	kW	FLA
8 HP	50	380-415	Min.:342, Max.:456	25.2	28.0	32	5.9	5.0	5.5	1.20	2.5
10 HP	50	380-415	Min.:342, Max.:456	25.5	28.0	32	5.9	6.8	7.2	1.20	2.5
12 HP	50	380-415	Min.:342, Max.:456	25.5	28.0	32	5.9	10.4	11.9	1.20	2.5
14 HP	50	380-415	Min.:342, Max.:456	26.1	29.0	32	5.9	12.4	13.4	1.80	2.5
16 HP	50	380-415	Min.:342, Max.:456	27.3	30.0	32	5.9	15.1	18.8	1.80	2.5
18 HP	50	380-415	Min.:342, Max.:456	40.0	44.0	50	10.2	12.5	16.5	1.80	2.5
20 HP	50	380-415	Min.:342, Max.:456	41.8	46.0	50	11.8	17.6	21.5	1.80	2.5
22 HP	50	380-415	Min.:342, Max.:456	46.8	52.0	50	11.8	21.7	24.9	1.80	2.5
24 HP	50	380-415	Min.:342, Max.:456	50.0	56.0	63	11.8	24.9	28.2	1.80	2.5
26 HP	50	380-415	Min.:342, Max.:456	54.5	60.0	63	11.8	29.2	28.1	1.80	2.5
22' HP	50	380-415	Min.:342, Max.:456	50.9	56.0	63	11.8	17.2	19.1	2.40	5.0
24' HP	50	380-415	Min.:342, Max.:456	50.9	56.0	63	11.8	20.8	23.8	2.40	5.0
26' HP	50	380-415	Min.:342, Max.:456	51.8	57.0	63	11.8	22.8	25.4	3.00	5.0
28 HP	50	380-415	Min.:342, Max.:456	52.7	58.0	63	11.8	25.6	30.7	3.00	5.0
30 HP	50	380-415	Min.:342, Max.:456	65.5	72.0	80	16.1	26.1	28.5	3.00	5.0
32 HP	50	380-415	Min.:342, Max.:456	67.3	74.0	80	17.7	28.0	33.4	3.00	5.0
34 HP	50	380-415	Min.:342, Max.:456	72.7	80.0	80	17.7	32.2	36.8	3.00	5.0
36 HP	50	380-415	Min.:342, Max.:456	76.4	84.0	80	17.7	35.3	40.1	3.00	5.0
38 HP	50	380-415	Min.:342, Max.:456	77.3	85.0	100	17.7	37.3	41.6	3.60	5.0
40 HP	50	380-415	Min.:342, Max.:456	78.2	86.0	100	17.7	40.0	47.0	3.60	5.0
42 HP	50	380-415	Min.:342, Max.:456	90.9	100.0	100	22.0	40.6	44.8	3.60	5.0
44 HP	50	380-415	Min.:342, Max.:456	92.7	102.0	100	23.6	42.5	49.7	3.60	5.0
46 HP	50	380-415	Min.:342, Max.:456	96.4	108.0	100	23.6	46.6	53.1	3.60	5.0
48 HP	50	380-415	Min.:342, Max.:456	101.8	112.0	125	23.6	49.8	56.4	3.60	5.0
50 HP	50	380-415	Min.:342, Max.:456	102.3	113.0	125	23.6	47.7	53.6	4.80	7.5
52 HP	50	380-415	Min.:342, Max.:456	103.6	114.0	125	23.6	50.4	58.9	4.80	7.5
54 HP	50	380-415	Min.:342, Max.:456	116.4	128.0	125	27.9	51.0	56.7	4.80	7.5
56 HP	50	380-415	Min.:342, Max.:456	117.1	130.0	125	29.5	52.9	61.6	4.80	7.5
58 HP	50	380-415	Min.:342, Max.:456	123.6	136.0	150	29.5	57.0	65.0	4.80	7.5
60 HP	50	380-415	Min.:342, Max.:456	126.7	140.0	150	29.5	60.2	68.3	4.80	7.5
62 HP	50	380-415	Min.:342, Max.:456	127.0	141.0	150	29.5	62.2	69.9	5.40	7.5
64 HP	50	380-415	Min.:342, Max.:456	129.1	142.0	150	29.5	64.9	75.2	5.40	7.5
66 HP	50	380-415	Min.:342, Max.:456	140.5	156.0	150	33.8	65.5	73.0	5.40	7.5
68 HP	50	380-415	Min.:342, Max.:456	143.6	158.0	150	35.4	67.4	77.9	5.40	7.5
70 HP	50	380-415	Min.:342, Max.:456	149.1	164.0	150	35.4	71.5	81.3	5.40	7.5
72 HP	50	380-415	Min.:342, Max.:456	151.4	168.0	175	35.4	74.6	84.6	5.40	7.5
74 HP	50	380-415	Min.:342, Max.:456	152.9	169.0	175	35.4	72.6	81.8	6.60	10.0
76 HP	50	380-415	Min.:342, Max.:456	154.5	170.0	175	35.4	75.3	87.1	6.60	10.0
78 HP	50	380-415	Min.:342, Max.:456	167.3	184.0	200	39.7	75.9	84.9	6.60	10.0
80 HP	50	380-415	Min.:342, Max.:456	169.1	186.0	200	41.3	77.8	89.8	6.60	10.0
82 HP	50	380-415	Min.:342, Max.:456	174.5	192.0	200	41.3	81.9	93.2	6.60	10.0
84 HP	50	380-415	Min.:342, Max.:456	176.6	196.0	200	41.3	85.1	96.6	6.60	10.0
86 HP	50	380-415	Min.:342, Max.:456	177.5	197.0	200	41.3	87.0	98.1	7.20	10.0
88 HP	50	380-415	Min.:342, Max.:456	180.0	198.0	200	41.3	89.8	103.4	7.20	10.0
90 HP	50	380-415	Min.:342, Max.:456	192.7	212.0	200	45.6	90.4	101.2	7.20	10.0
92 HP	50	380-415	Min.:342, Max.:456	194.5	214.0	200	47.2	92.2	106.1	7.20	10.0
94 HP	50	380-415	Min.:342, Max.:456	200.0	220.0	200	47.2	96.4	109.5	7.20	10.0
96 HP	50	380-415	Min.:342, Max.:456	203.6	224.0	250	47.2	99.5	112.8	7.20	10.0

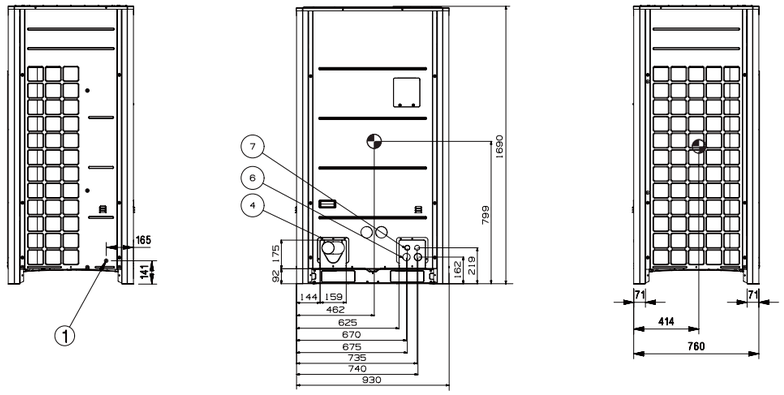
Note
1. Voltage supplied to the unit terminals should be within the minimum and maximum range. 2. Maximum allowable voltage unbalance between phase is 2%.
3. MSC means the Max. current during the starting of compressor. 4. MSC and RLA are measured as the compressor only test condition.
5. OFM are measured as the outdoor unit test condition. 6. TOCA means the total over current value of each outdoor unit. 7. Select the wire size based on the larger value among MCA or TOCA.
8. MFA is used to select the circuit breaker and ground fault circuit interrupter, and recommended circuit breaker type is ELCB(Earth Leakage Circuit Breaker).
9. Select the electrical equipment of combination unit according to the electrical characteristics of individual unit.' : 2 unit combination models
Symbols
• MCA : Minimum Circuit Amperes (A) • TOCA : Total Over Current Amperes (A) • MFA : Maximum Fuse Amperes (A) • MSC : Maximum Starting Current (A) • RLA : Rated Load Amperes (A)
• OFM : Outdoor Fan Motor • kW : Fan Motor rated output (kW) • FLA : Full Load Amperes (A)

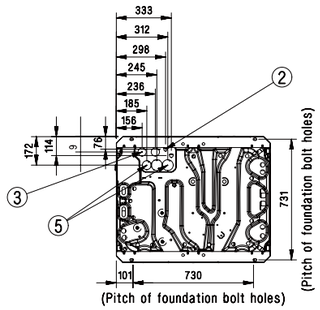
OUTDOOR UNIT SPECIFICATION

MULTI V 5

11. Dimensions

ARUN080LTE5 / ARUN100LTE5 / ARUN120LTE5





[mm(inch)]

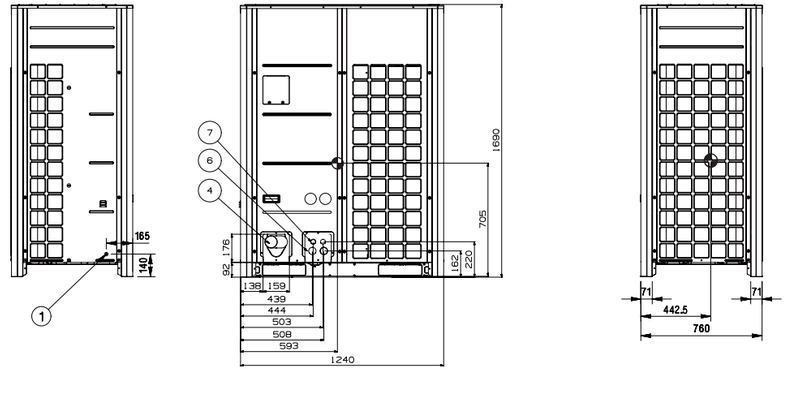
No.	Part Name	Description
1	Leakage test hole (side)	Ø 22.2
2	Wire routing hole (bottom)	2 - Ø 22.2
3	Power cord routing hole (bottom)	2 - Ø 50
4	Pipe routing hole (front)	-
5	Pipe routing hole (bottom)	2 - Ø 66, Ø 53.88
6	Power cord routing hole (front)	2 - Ø 45
7	Wire routing hole (front)	2 - Ø30

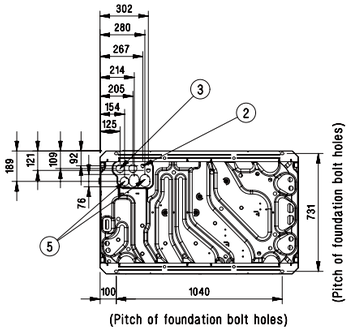
System	Heat Recovery			Heat Pump	
HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
8	Ø 9.52 (3/8)	Ø 19.05 (3/4)	Ø 15.88 (5/8)	Ø 9.52 (3/8)	Ø 19.05 (3/4)
10	Ø 9.52 (3/8)	Ø 22.2 (7/8)	Ø 19.05 (3/4)	Ø 9.52 (3/8)	Ø 22.2 (7/8)
12	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)

Note

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

ARUN140LTE5 / ARUN160LTE5 / ARUN180LTE5 / ARUN200LTE5 / ARUN220LTE5 / ARUN240LTE5 / ARUN260LTE5





[mm(inch)]

No.	Part Name	Description
1	Leakage test hole (side)	Ø 22.2
2	Wire routing hole (bottom)	2 - Ø 22.2
3	Power cord routing hole (bottom)	2 - Ø 50
4	Pipe routing hole (front)	-
5	Pipe routing hole (bottom)	2 - Ø 66, Ø 53.88
6	Power cord routing hole (front)	2 - Ø 45
7	Wire routing hole (front)	2 - Ø30

System	Heat Recovery			Heat Pump	
HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
14~16	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)
18~20	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
22	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
24	Ø 15.88 (5/8)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 34.9 (1-3/8)
26~34	Ø 19.05 (3/4)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)
36~40	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
42~60	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 34.9 (1-3/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
62~64	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)	Ø 41.3 (1-5/8)	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)
66~96	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)	Ø 44.5 (1-3/4)	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)

Note

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

MULTI V 5

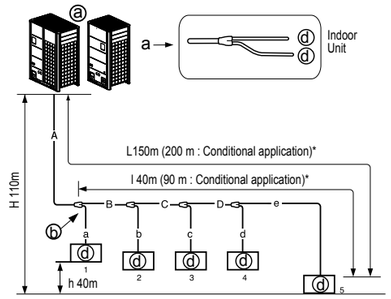
12. Pipe Connection Method between outdoor unit / indoor unit

Heat Pump System

• Single Outdoor Unit Connection

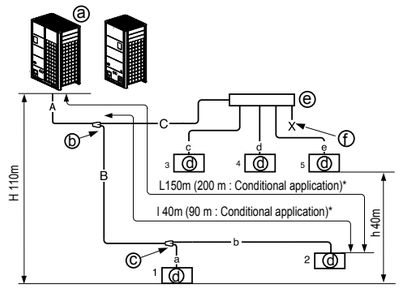
Y branch method

ⓐ Outdoor Unit
ⓑ 1st branch (Y branch)
ⓒ Indoor Units



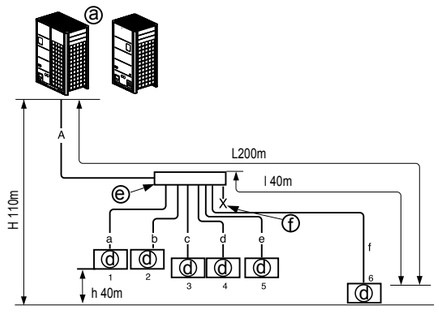
Combination of Y branch / header method

ⓐ Outdoor Unit
ⓑ 1st branch (Y branch)
ⓒ Y branch
ⓓ Indoor Units
ⓔ Header
ⓕ Sealed piping



Header Method

ⓐ Outdoor Unit
ⓓ Indoor Units
ⓔ Header
ⓕ Sealed piping



⚠ WARNING

Pipe length after header branching

• It is recommended that difference in length of the pipes connected to the indoor units (a~f) is minimized. Performance difference between indoor units may occur.

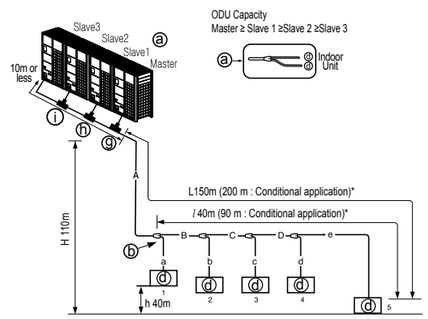
⚠ WARNING

• Branch pipe can not be used after header

• Single Outdoor Unit Connection

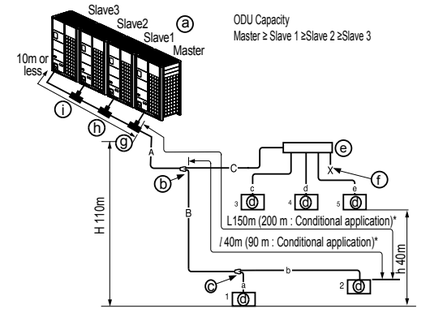
Y branch method

ⓐ Outdoor Unit
ⓑ 1st branch (Y branch)
ⓓ Indoor Units
ⓖ Connection branch pipe between outdoor units (ARCNN41)
ⓗ Connection branch pipe between outdoor units (ARCNN31)
ⓘ Connection branch pipe between outdoor units (ARCNN21)



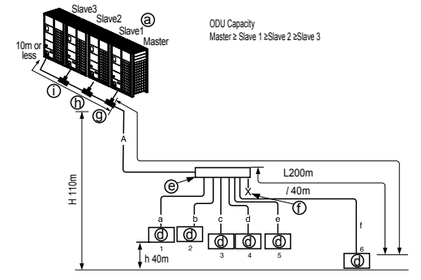
Combination of Y branch / header method

ⓐ Outdoor Unit
ⓑ 1st branch (Y branch)
ⓒ Y branch
ⓓ Indoor Units
ⓔ Header
ⓕ Sealed piping
ⓖ Connection branch pipe between outdoor units (ARCNN41)
ⓗ Connection branch pipe between outdoor units (ARCNN31)
ⓘ Connection branch pipe between outdoor units (ARCNN21)



Header Method

ⓐ Outdoor Unit
ⓓ Indoor Units
ⓔ Header
ⓕ Sealed piping
ⓖ Connection branch pipe between outdoor units (ARCNN41)
ⓗ Connection branch pipe between outdoor units (ARCNN31)
ⓘ Connection branch pipe between outdoor units (ARCNN21)



⚠ WARNING

Pipe length after header branching

• It is recommended that difference in length of the pipes connected to the indoor units (a~f) is minimized. Performance difference between indoor units may occur.

⚠ WARNING

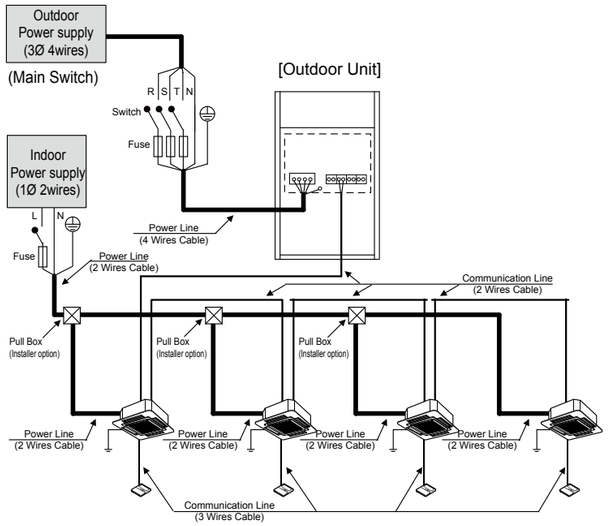
• Branch pipe can not be used after header

MULTI V 5

13. Field wiring

• Example Connection of Communication Cable

Combination of Y branch / header method

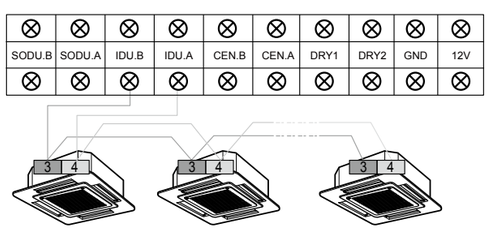


Frequency	Voltage range(V)	
	Outdoor	Indoor
60Hz	380	220
50Hz	380-415	220-240

⚠ WARNING

- Indoor Unit ground Lines are required for preventing electrical shock accident during current leakage, Communication disorder by noise effect and motor current leakage (without connection to pipe).
- Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply. If individual power supply is necessary for each indoor unit, IPM (Independent Power Module) should be applied at each indoor unit. (optional)
- Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
- If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.

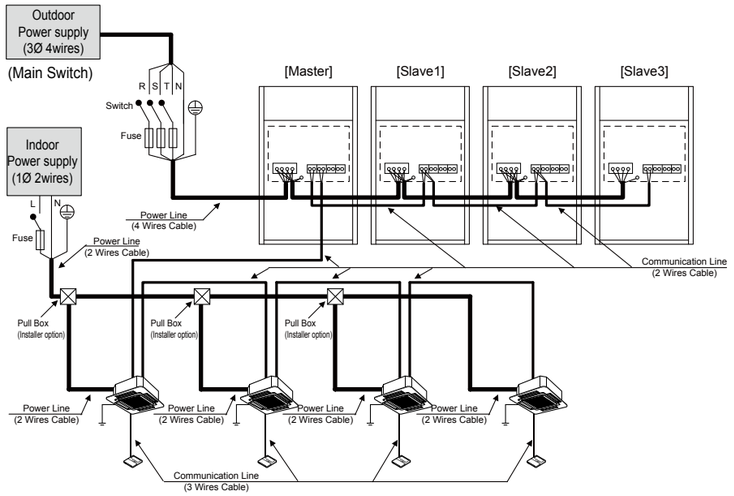
Between Indoor and Master Outdoor unit



The GND terminal at the main PCB is a '-' terminal for day contact, it is not the point to make ground connection.

• Series Outdoor Unit

When the power source is connected In series between the units.



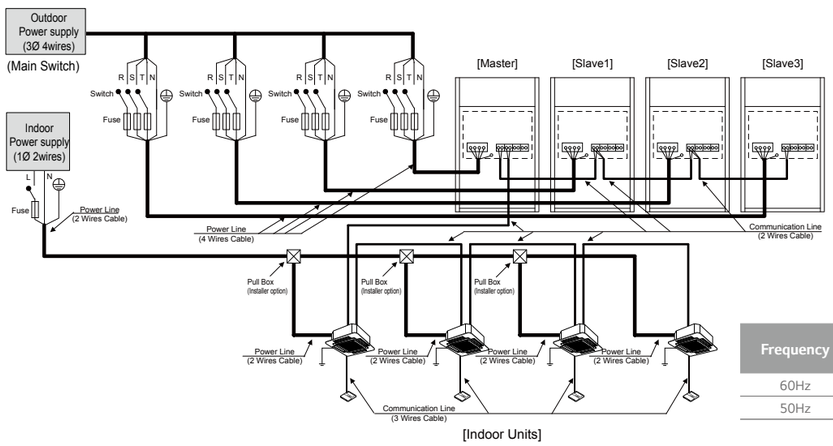
Frequency	Voltage range(V)	
	Outdoor	Indoor
60Hz	380	220
50Hz	380-415	220-240

※ The below System is representative Multi V 5 System. Actual combination of outdoor unit may be different by product line-up of region.

⚠ WARNING

When the total capacity is over than 68Hp, do not use single power source for connecting series units. The First terminal block could be burnt out.

When the power source is supplied to Each outdoor unit individually.



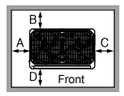
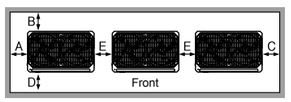
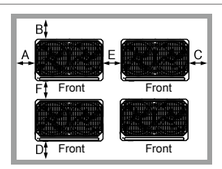
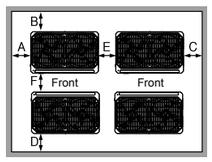
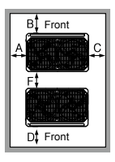
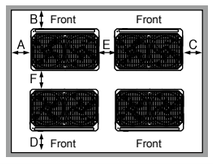
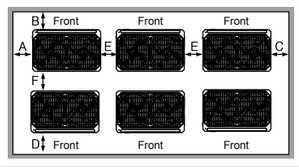
Frequency	Voltage range(V)	
	Outdoor	Indoor
60Hz	380	220
50Hz	380-415	220-240

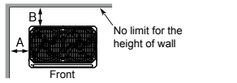
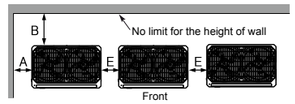
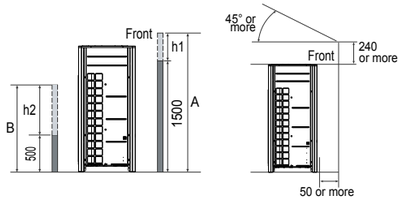
※ The below System is representative Multi V 5 System. Actual combination of outdoor unit may be different by product line-up of region.

MULTI V 5

14. Individual Installation

During the installation of the unit, consider service, inlet, and outlet and acquire the minimum space as shown in the figures below.
Side space should be more than 49 mm for operating of Auto Dust Removal mode.

Category	Installation Space	Case 1 (10mm≤Side Space≤49mm)	Case 2 (Side Space≥49mm)
4 sides are walls		A ≥ 10 B ≥ 300 C ≥ 10 D ≥ 500	A ≥ 50 B ≥ 100 C ≥ 50 D ≥ 500
		A ≥ 10 B ≥ 300 C ≥ 10 D ≥ 500 E ≥ 20	A ≥ 50 B ≥ 100 C ≥ 50 D ≥ 500 E ≥ 100
		A ≥ 10 B ≥ 300 C ≥ 10 D ≥ 500 E ≥ 20 F ≥ 600	A ≥ 50 B ≥ 100 C ≥ 50 D ≥ 500 E ≥ 100 F ≥ 500
		A ≥ 10 B ≥ 300 C ≥ 10 D ≥ 300 E ≥ 20 F ≥ 500	A ≥ 50 B ≥100 C ≥ 50 D ≥ 100 E ≥ 100 F ≥ 500
Rear to Rear		A ≥ 10 B ≥ 500 C ≥ 10 D ≥ 500 F ≥ 900	A ≥ 50 B ≥ 500 C ≥ 50 D ≥ 500 F ≥ 600
		A ≥ 10 B ≥ 500 C ≥ 10 D ≥ 500 E ≥ 20 F ≥ 1200	A ≥ 50 B ≥ 500 C ≥ 50 D ≥ 500 E ≥ 100 F ≥ 900
		A ≥ 10 B ≥ 500 C ≥10 D ≥ 500 E ≥ 20 F ≥ 1800	A ≥ 50 B ≥ 500 C ≥ 50 D ≥ 500 E ≥ 100 F ≥ 1200

Category	Installation Space	Case 1 (10mm≤Side Space≤49mm)	Case 2 (Side Space≥49mm)
Only 2 sides are walls		A ≥ 10 B ≥ 300	-
		A ≥ 10 B ≥ 300 E ≥ 20	-
Limitations on the height of the wall (Refer to 4 side walls)		• The height of the wall on the front side must be 1500mm or less. • The height of the wall on the rear side must be 500mm or less. • There is no limit to the wall on the side. • If the height of the walls on the front and the rear side are higher than the limit, there must be additional space on the front and the rear side. – Additional Space on the front side by 1/2 of h1. – Additional Space on the rear side by 1/2 of h2 – h1 = A(Actual height) - 1500 – h2 = B(Actual height) - 500	

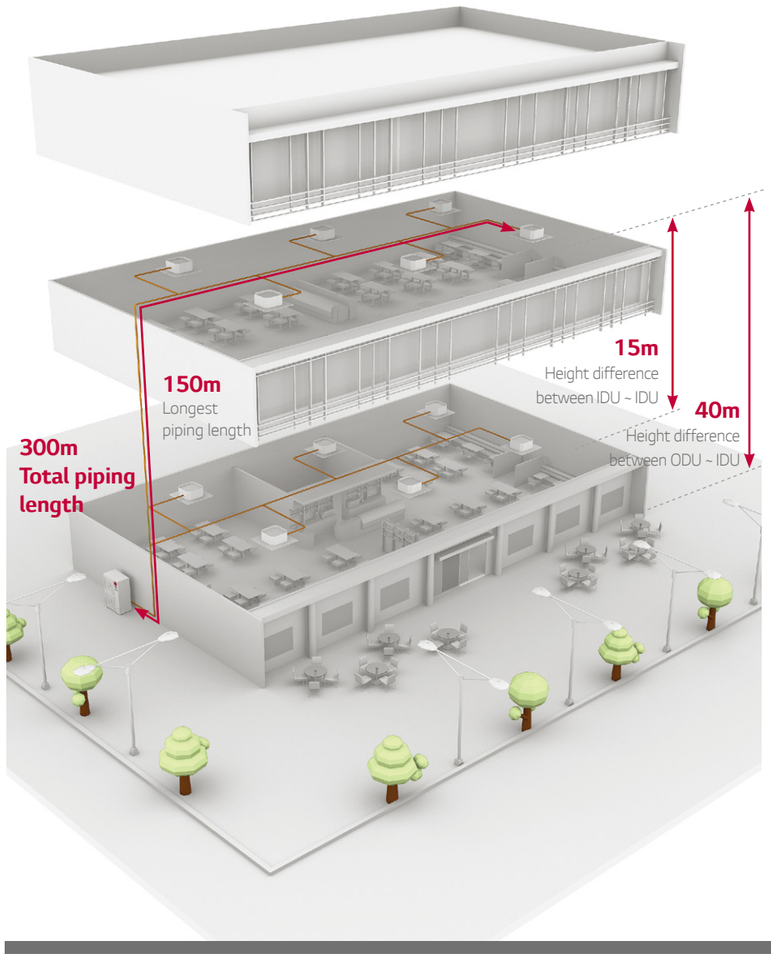
- Seasonal wind and cautions in winter
  - Sufficient measures are required in a snow area or severe cold area in winter so that product can be operated well.
  - Get ready for seasonal wind or snow in winter even in other areas.
  - Install a suction and discharge duct not to let in snow or rain.
  - Install the outdoor unit in such a way that it should not come in contact with snow directly. If snow piles up and freezes on the air suction hole, the system may malfunction. If it is installed at snowy area, attach the hood to the system.
  - Install the outdoor unit at the higher installation console by 50cm than the average snowfall (annual average snowfall) if it is installed at the area with much snowfall.
  - Where snow accumulated on the upper part of the Outdoor Unit by more than 10cm, always remove snow for operation.

⚠ WARNING

1. The height of H frame must be more than 2 times the snowfall and its width shall not exceed the width of the product. (If width of the frame is wider than that of the product, snow may accumulate)
2. Don't install the suction hole and discharge hole of the Outdoor Unit facing the seasonal wind.

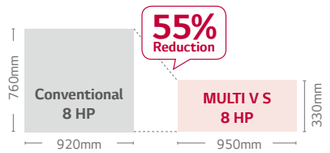
OUTDOOR UNIT KEY FEATURES

MULTI V S



MULTI V S

1. Compact Size



2. Piping Capabilities

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	40m* (50m**)
Height difference between IDU ~ IDU	15m

* In case of outdoor unit installed lower than indoor unit
** In case of outdoor unit installed upper than indoor unit

3. Operation Range

- Heating : -20 ~ 18°C WB
- Cooling : -5 ~ 43°C DB

Benefit

- Saves valuable floor space
- Flexible design applications
  - Slim, light and wide line up (4 ~ 12HP)
  - Combination of indoor unit

Application

- Premium residential apartment / House (With small balcony)
- Small sized office / Restaurant / Retail shops
- Building with multiple owners

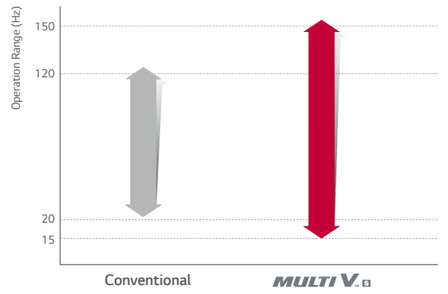
EFFICIENCY

LG's 4th Generation Inverter Compressor

MULTI V S has high efficiency inverter scroll compressor with frequency range 15Hz ~ 150Hz.

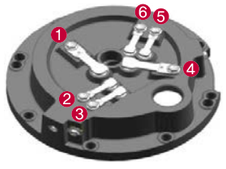
World Best Class Compressor Speed

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



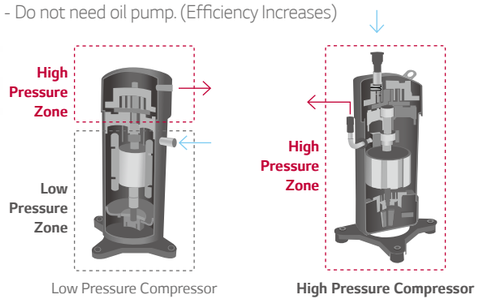
6 By-pass Valve

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



High Pressure Compressor

- Viscosity of oil is secured due to high temperature and pressure.
- Do not need oil pump. (Efficiency Increases)



Low Pressure Compressor | **High Pressure Compressor**

Inverter Scroll Compressor

- Inverter SCROLL compressor of high efficiency
- Low vibration / Low noise

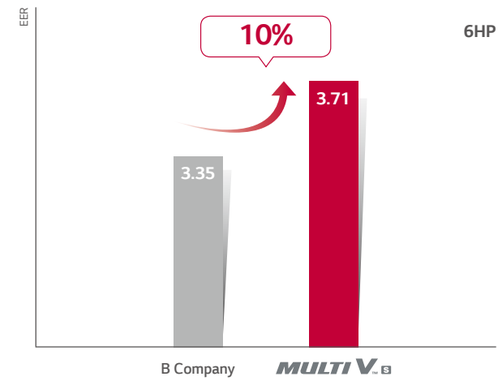
OUTDOOR UNIT KEY FEATURES

MULTI V S

EFFICIENCY

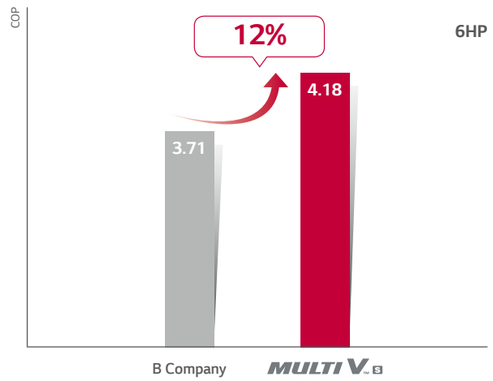
High Efficiency

EER (Cooling)



* Comparison Based on 6HP in cooling mode

COP (Heating)



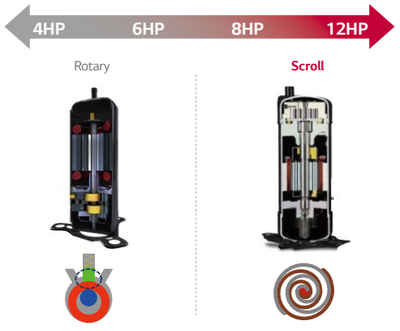
* Comparison Based on 6HP in heating mode

Reliable Inverter Compressor

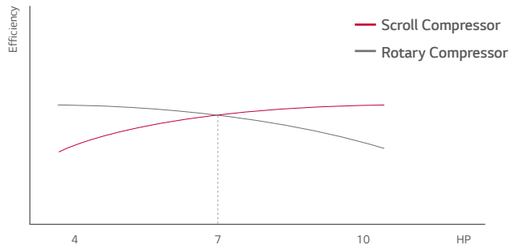
MULTI V S Inverter compressors are highly efficient and reliable for all commercial & residential applications.

MULTI V S

High reliability and efficiency at all capacity
- Below 7HP : Rotary compressor
- Upper 7HP : Scroll compressor



Compressor Efficiency Comparison



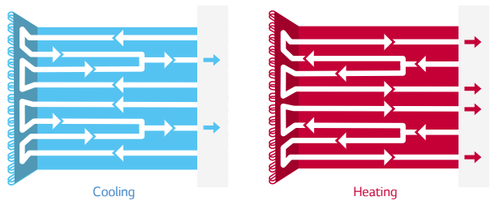
* Based on internal test data

Optimal Heat Exchanger Circuit

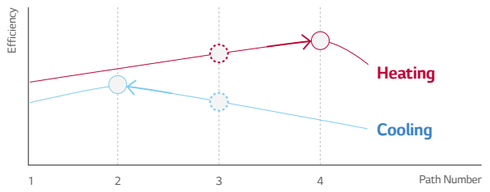
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling (Efficiency increased up to 5%).

MULTI V S

Variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing to an increase in energy efficiency

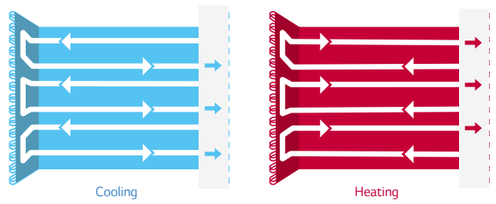


Maximizing efficiency for all operations

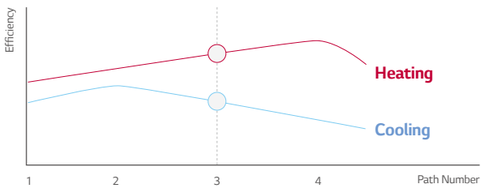


Conventional

The number and direction of path are fixed independent of temperature and operation mode. A fixed path limits efficiency



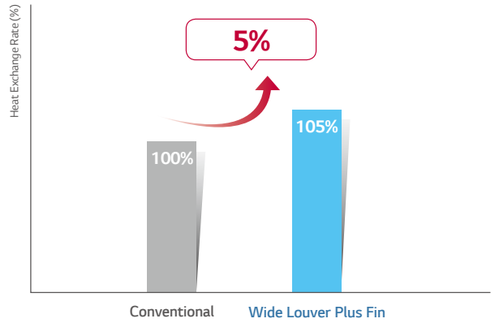
Compromising efficiency for each operation



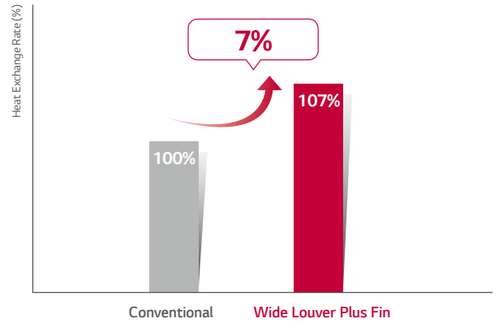
Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 7%.

Cooling



Heating



OUTDOOR UNIT KEY FEATURES

MULTI V S

EFFICIENCY

Pressure Sensor

Temperature + Pressure Control

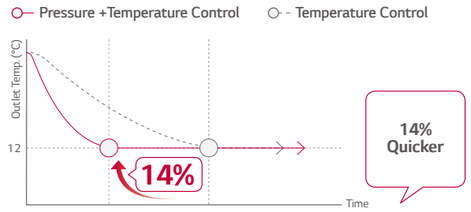
Senses and controls pressure directly using pressure sensor for faster and more exact response to load variation

High Pressure Sensor

Low Pressure Sensor

Quick Operating Response

Pressure control takes up to 14% less time in cooling mode, to reach the desired temperature.

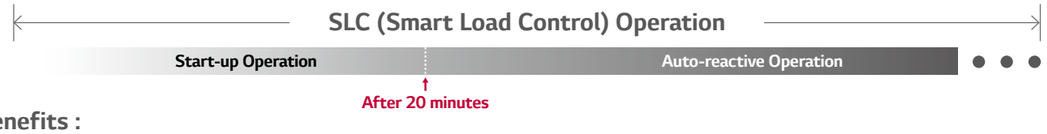


The indoor environment can be made more comfortable, faster and more accurately.

* Based on internal test data

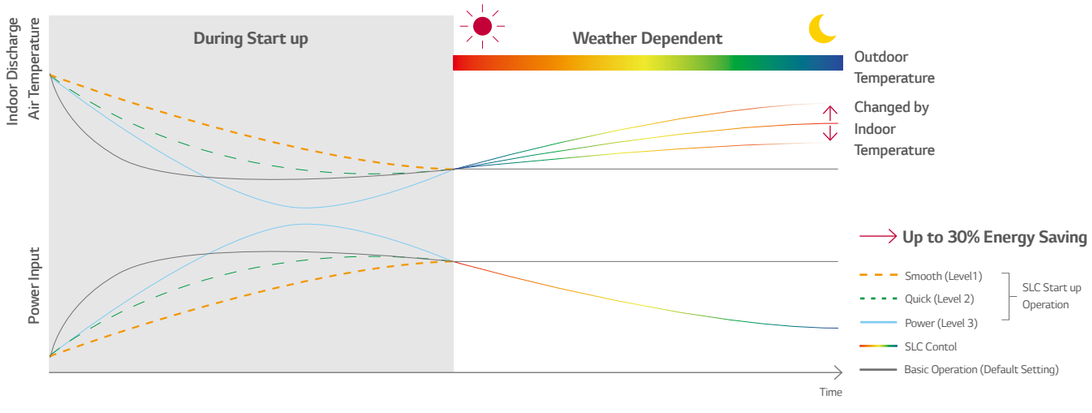
Smart Load Control

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



Benefits :

- 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



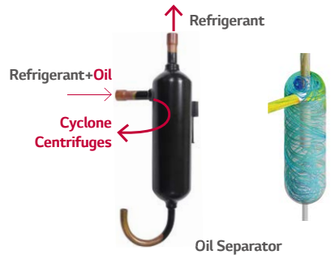
PERFORMANCE

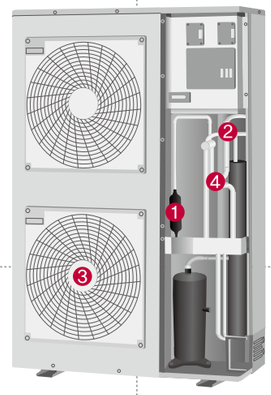
High Reliability of Refrigerant Cycle

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

1. Cyclone Centrifuges Oil Separator

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





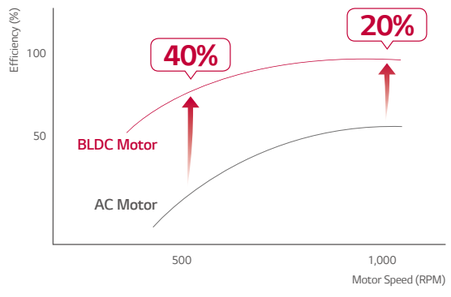
2. Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (138% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction

Accumulator

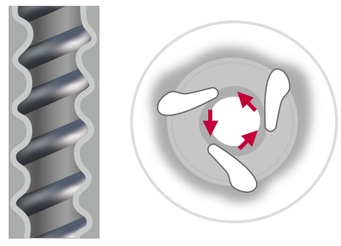
3. BLDC Fan Motor

- 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



4. 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



Double Sub-cool Interchanger

OUTDOOR UNIT KEY FEATURES

MULTI V S

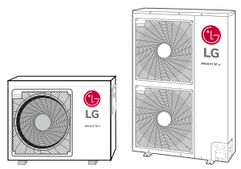
PERFORMANCE

Fan Technology and E.S.P. Control

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

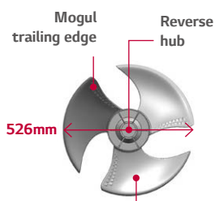
Fan Technology

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.



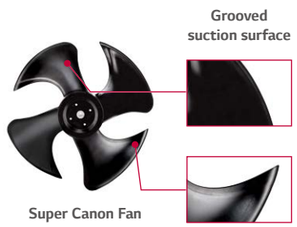
(1Ø) 4 / 5HP

(1Ø) 5 / 6HP
(3Ø) 4 / 5 / 6 / 8HP



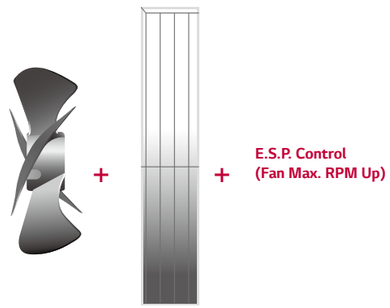
Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB (A).

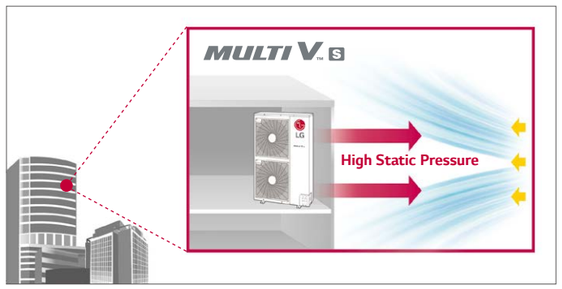
(3Ø) 10 / 12HP



High E.S.P. Technology

Flow of air has straightness due to fan shroud and E.S.P. control even in high-rise building.



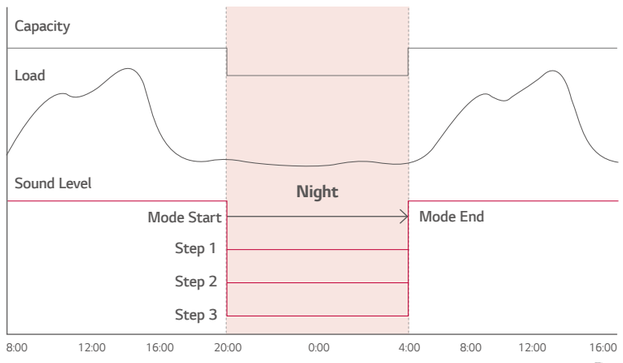


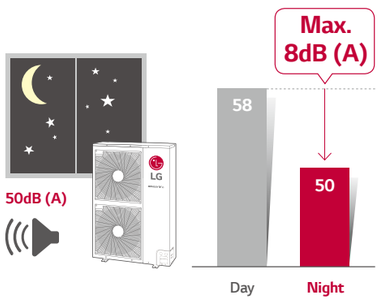
• Straight air flow
- New shroud adopted
- Performs high static pressure

* E.S.P : External Static Pressure

Night Silent Operation

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



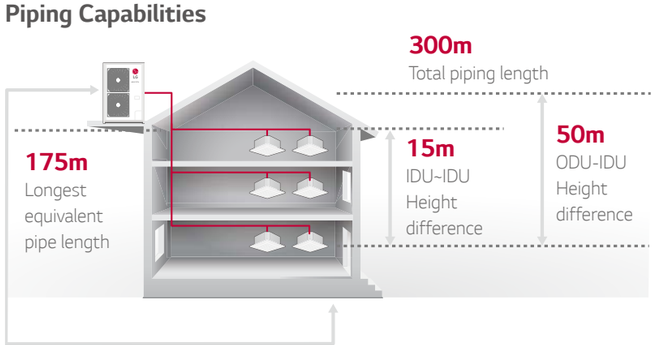


* Normal mode noise level (10HP) : 58dB(A)
* Night 3 step noise level (10HP) : 56dB(A), 53dB(A), 50dB(A)
* Sound pressure tested by following conditions :
1m distance / 1.5m height

Expanded Piping Capabilities

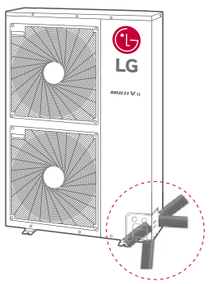
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

Piping Capabilities



4 Way Piping

- Free design and installation by 4 way piping.



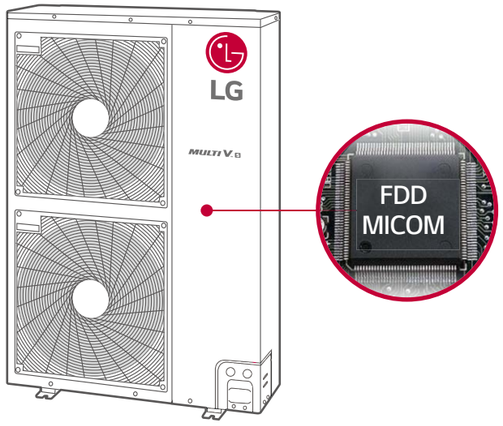
OUTDOOR UNIT KEY FEATURES

MULTI V S

CONVENIENCE

Upgraded Fault Detection and Diagnosis

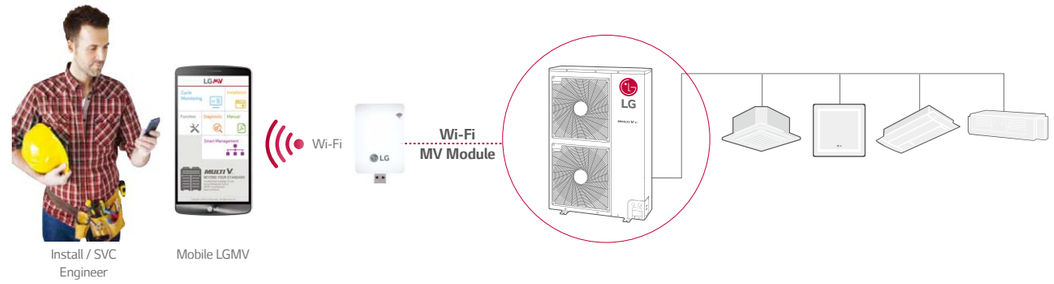
The inclusion of FDD elements - Auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance.



- 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

Smartphone Monitoring & Control

Mobile LGMV helps users to monitor the MULTI V S system cycle using Wi-Fi MV Module.
Technicians can check LGMV data 10m away from MULTI V S outdoor with smartphone.



Connection type : Wi-Fi / To use Mobile LGMV Application, exclusive Wi-Fi MV Module is required

Smart Phone Specification

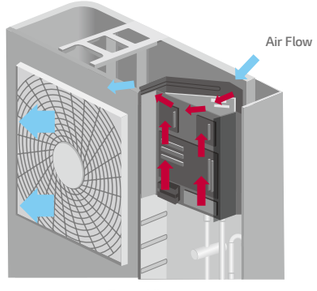
App. Name	OS	Recommended Specification	Resolution	Wireless communication effective distancd
Mobile LGMV	iOS (iPad Only)	AppiOS 8.0 / 8.1	2,048 x 1,536 (Optimization) / 1,024 x 768	• Effective distance : 10m (Open area) • The effective distance may be reduced by the communication environment
	Android	Android 4.4 (Android 3.x, Honeycomb not supported)	480 x 800 / 720 x 1,280, 768 x 1,280 / 768 x 1,024 / 1,080 x 1,920	

Self Cooled Control

MULTI V S has heat exchanger structure and diagonal shape of control box. (Efficiency increased up to 3%)

Control Box Cooling System

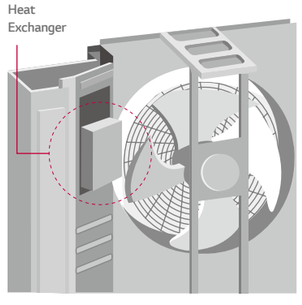
- Feature of control box is diagonal shape, it makes naturally air flowing (Directly pulling air back of the fan)
- Reduced heating / cooling efficiency loss



Front View

Heat Exchanger Technology

- Heat exchanger structure
- Optimal air flow by aluminum heat exchanger on control box.



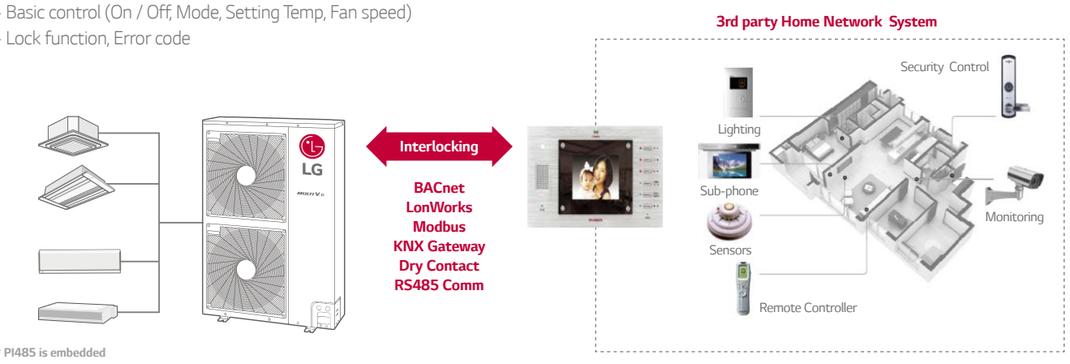
Rear View

With Home Network System

Interlocking with home network system enables various application.
Depending on building size and usage, various communication method can be given.

Compatibility to Home Network System

- Basic control (On / Off, Mode, Setting Temp, Fan speed)
- Lock function, Error code



* PI485 is embedded

OUTDOOR UNIT SPECIFICATION

MULTI V S

HEAT PUMP

ARUN040GSS0

1Φ 4HP

HP			4
Model Name	Combination Unit		ARUN040GSS0
Capacity [1] (Rated)	Cooling	kW	12.1
	Heating	kW	12.5
Input (Rated) [1]	Cooling	kW	3.57
	Heating	kW	2.91
EER			3.39
COP			4.3
Compressor	Type		BLDC Inverter Twin Rotary
	Piston Displacement	cm^3/rev	44.2
	Motor Output	W	4,000
	Starting Method		DC Inverter Starting
Fan	Type		Axial Flow Fan
	Motor Output x Number	W	124 x 1
	Air Flow Rate (High)	m^3/min	60
		ft^3/min	2,119
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe Connections	Liquid	mm(inch)	Ø 9.52(3/8)
	Gas	mm(inch)	Ø 15.88(5/8)
Dimensions (W x H x D)		mm	950 × 834 × 330
Net Weight		kg	69
Sound Pressure Level	Cooling	dB(A)	50
	Heating	dB(A)	52
Sound Power Level		dB(A)	66
Communication Cable		No. x mm^2 (VCTF-SB)	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R410A
	Precharged Amount	kg	1.8
		lbs	4.0
	GWP		2,087.5
	t-CO_2eq		3.8
	Control		Electronic Expansion Valve
Refrigerant Oil	Type		FVC68D(PVE)
	Charge	cc	1,300
Power Supply		V, Ø, Hz	220-240 , 1 , 50
			220, 1, 60
Number of maxmum connectable indoor units [3]			6

Notes:
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
   - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
2. Performances are based on the following conditions :
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
3. The maximum combination ratio is 160%.
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN050GSS0 / ARUN060GSS0

1Φ 5HP, 6HP

HP			5	6
Model Name	Combination Unit		ARUN050GSS0	ARUN060GSS0
Capacity [1] (Rated)	Cooling	kW	14.0	15.5
	Heating	kW	16.0	18.0
Input (Rated) [1]	Cooling	kW	3.51	4.18
	Heating	kW	3.60	4.31
EER			3.99	3.71
COP			4.44	4.18
Compressor	Type		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Piston Displacement	cm^3/rev	44.2	44.2
	Motor Output	W	4,000	4,000
	Starting Method		DC Inverter Starting	DC Inverter Starting
Fan	Type		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 2	124 x 2
	Air Flow Rate (High)	m^3/min	110	110
		ft^3/min	3,885	3,885
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connections	Liquid	mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)
	Gas	mm(inch)	Ø 15.88(5/8)	Ø 19.05(3/4)
Dimensions (W x H x D)		mm	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight		kg	94	94
Sound Pressure Level	Cooling	dB(A)	51	52
	Heating	dB(A)	53	54
Sound Power Level		dB(A)	67	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	3.0	3.0
		lbs	6.6	6.6
	GWP		2,087.5	2,087.5
	t-CO_2eq		6.3	6.3
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		FVC68D(PVE)	FVC68D(PVE)
	Charge	cc	1,300	1,300
Power Supply		V, Ø, Hz	220-240 , 1 , 50	220-240 , 1 , 50
			220, 1, 60	220, 1, 60
Number of maxmum connectable indoor units [3]			9	13

Notes:
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
   - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
2. Performances are based on the following conditions :
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
3. The maximum combination ratio is 160%.
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V S

HEAT PUMP

ARUN040LSS0 / ARUN050LSS0 / ARUN060LSS0

3Φ 4HP, 5HP, 6HP

HP				4	5	6
Model Name	Combination Unit			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
Capacity [1] (Rated)	Cooling		kW	12.1	14.0	15.5
	Heating		kW	12.5	16.0	18.0
Input (Rated) [1]	Cooling		kW	2.88	3.56	4.18
	Heating		kW	2.76	3.60	4.31
EER				4.20	3.93	3.71
COP				4.53	4.44	4.18
Compressor	Type			BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Piston Displacement		cm^3/rev	44.2	44.2	44.2
	Motor Output		W	4,000	4,000	4,000
	Starting Method			DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
Fan	Type			Axial Flow Fan	Axial Flow Fan	Axial Flow 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
	Drive			DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	Side	Side	Side
Pipe Connections	Liquid		mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 9.52(3/8)
	Gas		mm(inch)	Ø 15.88(5/8)	Ø 15.88(5/8)	Ø 19.05(3/4)
Dimensions (W x H x D)			mm	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight			kg	96	96	96
Sound Pressure Level	Cooling		dB(A)	50	51	52
	Heating		dB(A)	52	53	54
Sound Power Level			dB(A)	66	67	69
Communication Cable			No. x mm^2 (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name			R410A	R410A	R410A
	Precharged Amount		kg	3.0	3.0	3.0
			lbs	6.6	6.6	6.6
	GWP			2,087.5	2,087.5	2,087.5
	t-CO_2eq			6.3	6.3	6.3
	Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Charge		cc	1,300	1,300	1,300
Power Supply			V, Ø, Hz	380-415 , 3 , 50	380-415 , 3 , 50	380-415 , 3 , 50
				380, 3, 60	380, 3, 60	380, 3, 60
Number of maxmum connectable indoor units [3]				6	8	9

Notes:
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
   - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
2. Performances are based on the following conditions :
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
3. The maximum combination ratio is 160%.
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0
ARUN080LSR0 / ARUN100LSR0 / ARUN120LSR0

3Φ 8HP, 10HP, 12HP

HP				8	10	12
Model Name	Combination Unit			ARUN080LSS0/ ARUN080LSR0	ARUN100LSS0/ ARUN100LSR0	ARUN120LSS0/ ARUN120LSR0
Capacity [1] (Rated)	Cooling		kW	22.4	28.0	33.6
	Heating		kW	24.5	30.6	36.7
Input (Rated) [1]	Cooling		kW	6.27	8.70	10.50
	Heating		kW	6.28	7.56	9.66
EER				3.57	3.22	3.20
COP				3.90	4.05	3.80
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement		cm^3/rev	43.8	62.1	62.1
	Motor Output		W	4,200	5,300	5,300
	Starting Method			Direct On Line	Direct On Line	Direct On Line
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number		W	124 x 2	250 x 2	250 x 2
	Air Flow Rate (High)		m^3/min	140	190	190
			ft^3/min	4,944	6,710	6,710
	Drive			DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	Side	Side	Side
Pipe Connections	Liquid		mm(inch)	Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 12.7(1/2)
	Gas		mm(inch)	Ø 19.05(3/4)	Ø 22.2(7/8)	Ø 28.58(1 1/8)
Dimensions (W x H x D)			mm	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 x 1,625 x 380
Net Weight			kg	115	144	157
Sound Pressure Level	Cooling		dB(A)	57	58	60
	Heating		dB(A)	57	58	60
Sound Power Level			dB(A)	74	77	78
Communication Cable			No. x mm^2 (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name			R410A	R410A	R410A
	Precharged Amount		kg	3.5	4.5	6.0
			lbs	7.7	9.9	13.2
	GWP			2,087.5	2,087.5	2,087.5
	t-CO_2eq			7.3	9.4	12.5
	Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Charge		cc	2,400	2,600	3,400
Power Supply			V, Ø, Hz	380-415 , 3 , 50	380-415 , 3 , 50	380-415 , 3 , 50
				380 , 3 , 60	380 , 3 , 60	380 , 3 , 60
Number of maxmum connectable indoor units [3]				13	16	20

Notes:
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.
   - Refer to EUROVENT certification regulation for more detail test conditions. - Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.
2. Performances are based on the following conditions :
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB / Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
3. The maximum combination ratio is 160%.
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNIT SPECIFICATION

MULTI V S

COOLING ONLY

ARUV030GSD0 / ARUV040GSD0

1Φ 3HP, 4HP

HP			3	4
Model Name	Combination Unit		ARUV030GSD0	ARUV040GSD0
Capacity [1] (Rated)	Cooling	kW	9.2	11.0
		kcal/h	7,911	9,458
		Btu/h	31,400	37,600
	Heating	kW	-	-
		kcal/h	-	-
		Btu/h	-	-
Input (Rated) [1]	Cooling	kW	2.10	2.75
	Heating	kW	-	-
Power Factor	Rated	-	1	1
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetic Motor Compressor	Hermetic Motor Compressor
	Piston Displacement	cm^3/rev	24	24
	Number of Revolution	rev/min	6,600	6,600
	Motor Output x Number	W x No.	2,137 x 1	2,137 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
	Oil Charge		900	900
Fan	Type		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124.0 x 1	124.0 x 1
	Air Flow Rate (High)	m^3/min	60	60
		ft^3/min	2,118	2,118
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connctions	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)
	Gas	mm(inch)	15.88(5/8)	15.88(5/8)
Dimensions (W x H x D)		mm	950 x 834 x 330	950 x 834 x 330
		inch	37-13/32 × 32-27/32 × 13	37-13/32 × 32-27/32 × 13
Net Weight		kg	59	59
		lbs	130	130
Sound Pressure Level	Cooling	dB(A)	50	50
	Heating	dB(A)	-	-
Sound Power Level		dB(A)	-	-
Protection Devices	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/Fan	-	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable		No. x mm^2 (VCTF-SB)	1.0~1.5 x 2	1.0~1.5 x 2
Refigerant	Refigerant name		R410A	R410A
	Precharged Amount	kg	1.4	1.4
		lbs	3.1	3.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V, Ø, Hz	1, 220-240, 50	1, 220-240, 50
Number of maxmum connectable indoor units [2]			5	6

ARUV050GSD0 / ARUV060GSD0

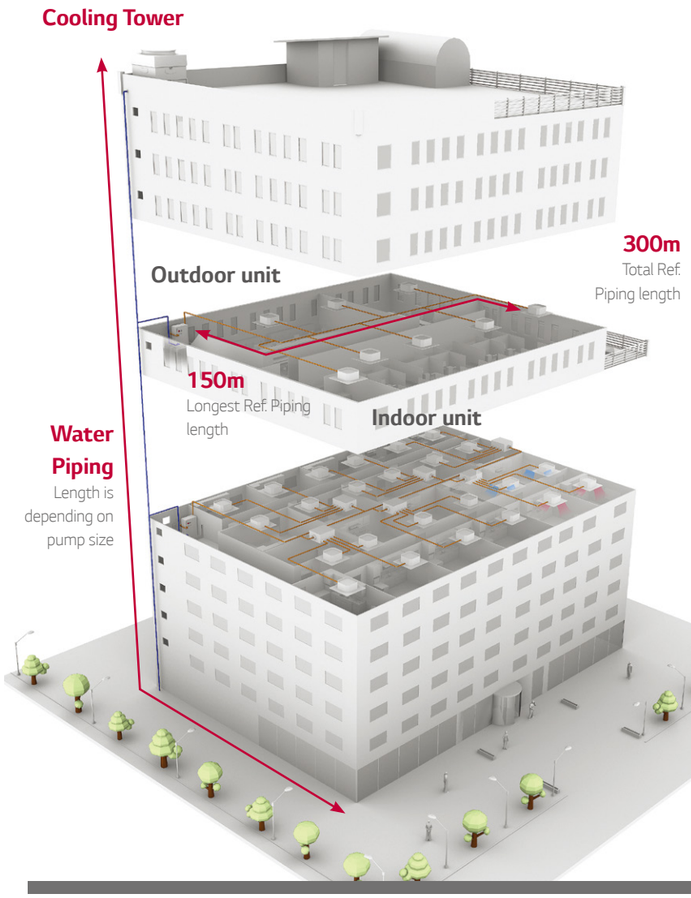
1Φ 5HP

1Φ 6HP

HP			5	6
Model Name	Combination Unit		ARUV050GSD0	ARUV060GSD0
Capacity [1] (Rated)	Cooling	kW	14.5	17.0
		kcal/h	12,470	14,620
		Btu/h	49,500	58,000
	Heating	kW	-	-
		kcal/h	-	-
		Btu/h	-	-
Input (Rated) [1]	Cooling	kW	3.85	4.00
	Heating	kW	-	-
Power Factor	Rated	-	1	1
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetic Motor Compressor	Hermetic Motor Compressor
	Piston Displacement	cm^3/rev	44.2	44.2
	Number of Revolution	rev/min	6,000	6,000
	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
	Oil Charge		1,300	1,300
Fan	Type		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124.0 x 1	85.4 x 2
	Air Flow Rate (High)	m^3/min	60	90
		ft^3/min	2,118	3,178
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe Connctions	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)
	Gas	mm(inch)	15.88(5/8)	19.05(3/4)
Dimensions (W x H x D)		mm	950 x 834 x 330	950 x 1,170 x 330
		inch	37-13/32 × 32-27/32 × 13	37-13/32 × 46-1/16 × 13
Net Weight		kg	66	79
		lbs	146	174
Sound Pressure Level	Cooling	dB(A)	51	52
	Heating	dB(A)	-	-
Sound Power Level		dB(A)	-	-
Protection Devices	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch
	Compressor/Fan	-	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection
Communication Cable		No. x mm^2 (VCTF-SB)	1.0~1.5 x 2	1.0~1.5 x 2
Refigerant	Refigerant name		R410A	R410A
	Precharged Amount	kg	1.4	2.3
		lbs	3.1	5.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V, Ø, Hz	1, 220-240, 50	1, 220-240, 50
Number of maxmum connectable indoor units [2]			8	9

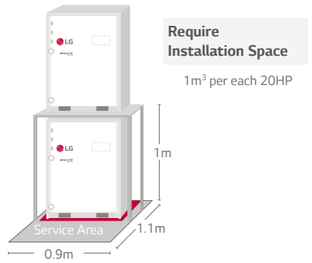
OUTDOOR UNIT KEY FEATURES

MULTI V WATER IV

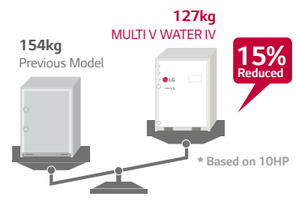


MULTI V™ WATER IV

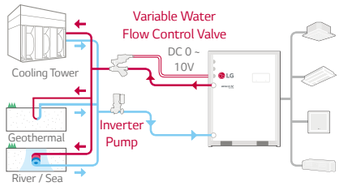
1. Compact Size



2. Light Weight



3. Variable Water Flow Control Kit



Benefit

- Saves valuable floor space
- Low noise level (no fans)
- Flexible design applications
- High efficient water source system

Application

- Large scale office
- Commercial building using geothermal / Water supply
- Luxurious residential building

Superior Efficiency via Integration of Smart Technologies

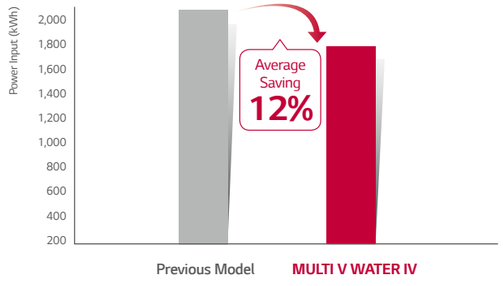
Today's businesses demand highly efficient temperature control solutions, capable of providing optimal energy savings without sacrificing performance. When it comes to cooling and heating a multi-storey or high-rise building, water cooled HVAC systems have become the solution of choice. Offering several performance enhancements and greater installation versatility, LG's MULTI V WATER IV combines intelligent functions with advanced inverter technology; boosting both energy efficiency and operational range.

Along with outstanding energy efficiency, the new solution comes with a range of truly smart features, including optimized cycle composition and smart control. For ease of installation and better economy of space, MULTI V WATER IV is both lighter in weight and smaller in overall size. LG, a leading innovator in HVAC technologies, will continue to develop and manufacture high performance, energy efficient solutions for the benefit of its growing global customer-base.

Economical, Highly Efficient System

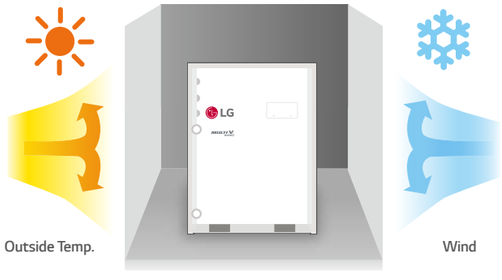
Adopting a water-based cooling method, this unit optimizes performance in comparison to compressor capacity. It also ensures heat exchange performance for high-rise buildings, thus allowing electrical-savings.

Source :
LG Energy Estimate Program (LEEP)
simulation data-5th floor building in Paris, France



High Efficiency System Regardless of External Conditions

Regardless of outdoor temperature and other environmental conditions, MULTI V WATER IV is the optimal solution for high-rise buildings.



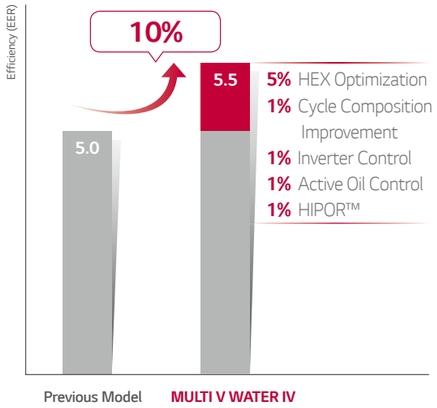
OUTDOOR UNIT KEY FEATURES

MULTI V WATER IV

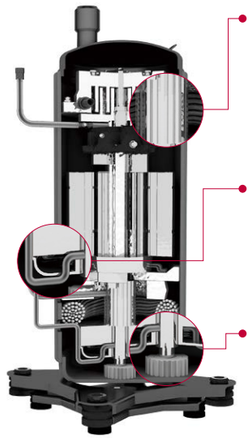
EFFICIENCY

LG's 4th Generation Inverter Compressor

With a fourth generation inverter compressor, the MULTI V WATER IV boasts top-class energy efficiency.



* Comparison between 10HP in cooling mode



Extended Compressor Speed 20Hz ~ 140Hz
- Rapid operation response
- Capable of reaching required temperature quickly
- Increase part load efficiency

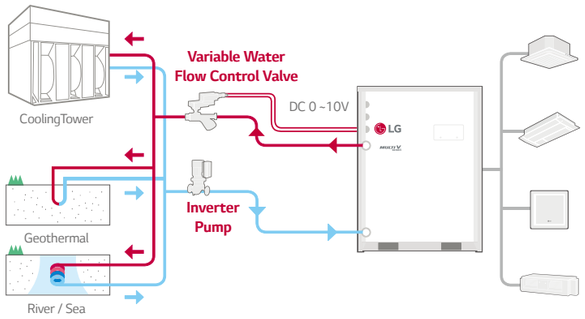
HiPOR™ (High Pressure Oil Return)
- Eliminating loss in suction gas by returning oil directly to compressor
- Resolve compressor efficiency loss caused by oil return

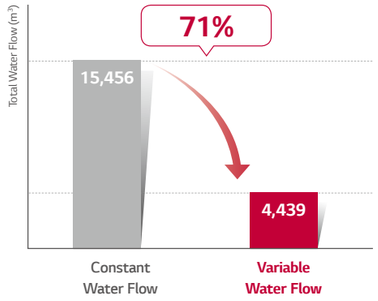
Smart Oil Return
- Oil recovery occurs only when required
- Enhanced compressor reliability & user comfort

Variable Water Flow Control Kit (Option)

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

- Adjust water flow by pressure control after connecting PCB in the existing MULTI V Water Outdoor unit





Note
1. Location : France
2. Total operationn time : 1,344hr
3. Indoor temperature : Normal office environment
4. Outdoor temperature : Average summer temperature
5. Inlet flow temperature : Approximately 30°C

PERFORMANCE

Largest Capacity

Providing 8 ~ 20HP with single unit, and up to the world's largest capacity 80HP by combination.

Line up (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42 ~ 60	62 ~ 80
LG	1 Unit							2 Units										3 Units	4 Units
Company B	1 Unit		-	-	2 Unit			-	3 Unit				-	-	-	-	-	-	-
Company C	1 Unit			-	2 Unit					3 Unit						-	-	-	-

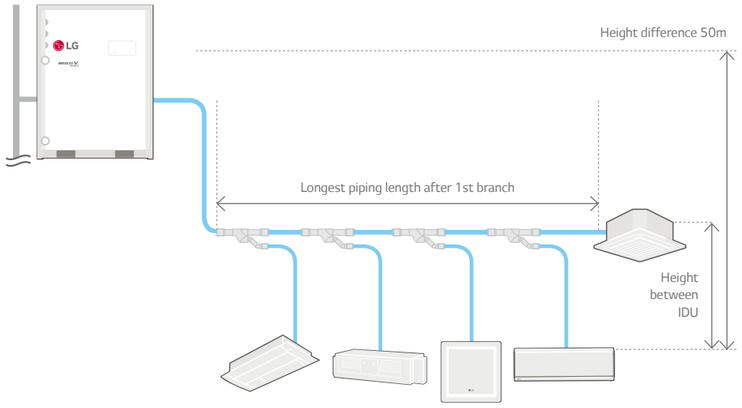
OUTDOOR UNIT KEY FEATURES

MULTI V WATER IV

FLEXIBLE DESIGN

Longest Piping Length

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

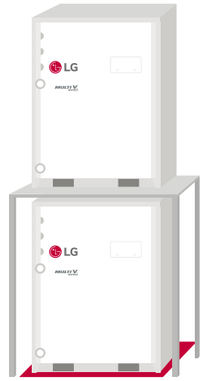


Total piping length	300m
Actual longest piping length (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	50m
Height difference between IDU ~ IDU	40m

Compact Size

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

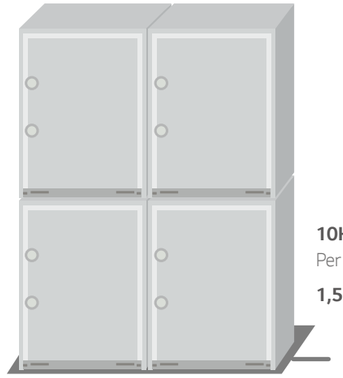
MULTI V WATER IV



20HP × 2EA
Per Each
755 × 500

* 40HP Capacity Installation scene

Company B



10HP × 4EA
Per Each
1,560 × 550

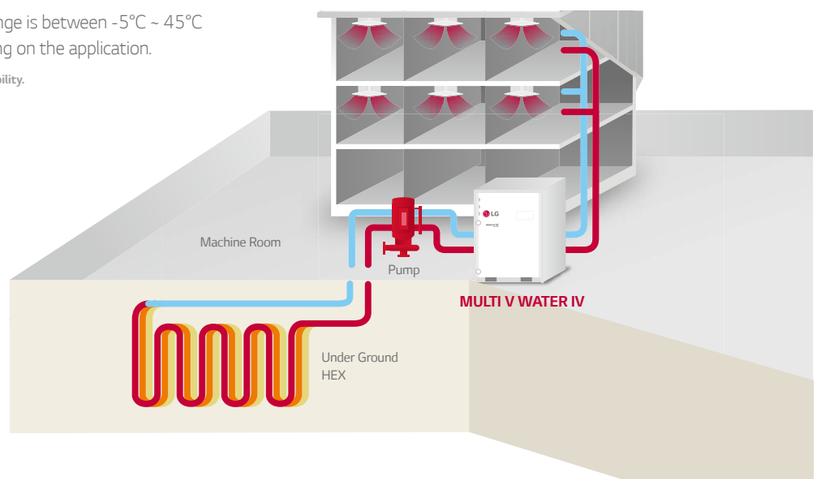
* Double stacking floor area
** 40HP Capacity Installation scene

MULTI V WATER IV System for Geothermal Applications

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

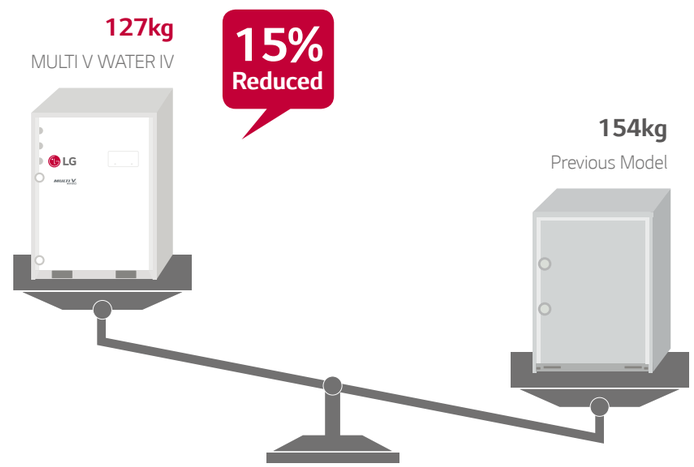
- The Circulating water temperature range is between -5℃ ~ 45℃
- Antifreeze should be applied depending on the application.

*** Please contact local LG office for application availability.**



Light Weight

Easier to transport and install thanks to 13% reduction in unit size and 15% reduction in overall weight.



* Based on 10HP

OUTDOOR UNIT SPECIFICATION

MULTI V WATER IV

ARWN080LAS4 / ARWN100LAS4 / ARWN120LAS4

HP					8	10	12
Model	Combination Unit				ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
	Independent Unit				ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
Capacity	Cooling	Nom		kW	22.4	28.0	33.6
	Heating	Nom		kW	25.2	31.5	37.8
Power Input	Cooling	Nom		kW	3.86	5.09	6.46
	Heating	Nom		kW	4.20	5.34	6.75
EER	Cooling				5.80	5.50	5.20
COP	Heating				6.00	5.90	5.60
ESEER					7.77	7.71	7.26
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				1	1	1
Sound Pressure	Cooling	Nom		dBA	47	50	56
	Heating	Nom		dBA	51	53	56
Sound Power	Cooling	Nom		dBA	59	62	68
	Heating	Nom		dBA	63	65	68
Dimensions		W x H x D		mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
Net Weight				kg	127 x 1	127 x 1	127 x 1
Refrigerant	Type				R410A	R410A	R410A
	Precharged Amount			kg	5.8	5.8	5.8
				lbs	12.8	12.8	12.8
	GWP				2,087.5	2,087.5	2,087.5
	TCO_2eq				12.1	12.1	12.1
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	2,800	2,800	2,800
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total		Max	m	300	300	300
	Actual Longest Piping Length		Max	m	150	150	150
	After 1st Y Branch		Max	m	40	40	40
Piping Level Difference	IDU - ODU		Max	m	50	50	50
	IDU - IDU		Max	m	40	40	40
Piping Connection	Liquid			mm(inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Gas			mm(inch)	22.2 (7/8)	22.2 (7/8)	25.4 (1)
Number of Outdoor Units					1	1	1
Number of Connectable Indoor Units			Max		20	25	30
Ratio of the Connectable Indoor Units			Min ~ Max		50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance		Max	kgf/cm^2	45	45	45
	Rated Water Flow			L/min	77	96	116
	Head Loss			kPa	11	16	22
Water Connection Pipe	Inlet			mm	PT 40	PT 40	PT 40
	Outlet			mm	PT 40	PT 40	PT 40
	Drain Outlet			mm	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water under inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

ARWN140LAS4 / ARWN160LAS4 / ARWN180LAS4 / ARWN200LAS4

HP					14	16	18	20
Model	Combination Unit				ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
	Independent Unit				ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
Capacity	Cooling	Nom		kW	39.2	44.8	50.4	56.0
	Heating	Nom		kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom		kW	7.84	8.15	9.69	11.20
	Heating	Nom		kW	8.17	8.54	10.13	11.67
EER	Cooling				5.00	5.50	5.20	5.00
COP	Heating				5.40	5.90	5.60	5.40
ESEER					6.96	7.18	7.10	7.02
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				1	1	1	1
Sound Pressure	Cooling	Nom		dBA	58	53	55	54
	Heating	Nom		dBA	57	57	56	60
Sound Power	Cooling	Nom		dBA	70	65	67	66
	Heating	Nom		dBA	69	69	68	72
Dimensions		W x H x D		mm	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1	(755 × 997 × 500) × 1
Net Weight				kg	127 x 1	140 x 1	140 x 1	140 x 1
Refrigerant	Type				R410A	R410A	R410A	R410A
	Precharged Amount			kg	5.8	3.0	3.0	3.0
				lbs	12.8	6.6	6.6	6.6
	GWP				2,087.5	2,087.5	2,087.5	2,087.5
	TCO_2eq				12.1	6.3	6.3	6.3
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	2,800	3,000	3,000	3,000
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total		Max	m	300	300	300	300
	Actual Longest Piping Length		Max	m	150	150	150	150
	After 1st Y Branch		Max	m	40	40	40	40
Piping Level Difference	IDU - ODU		Max	m	50	50	50	50
	IDU - IDU		Max	m	40	40	40	40
Piping Connection	Liquid			mm(inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Gas			mm(inch)	25.4 (1)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Outdoor Units					1	1	1	1
Number of Connectable Indoor Units			Max		35	40	45	50
Ratio of the Connectable Indoor Units			Min ~ Max		50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance		Max	kgf/cm^2	45	45	45	45
	Rated Water Flow			L/min	135	154	173	192
	Head Loss			kPa	29	20	25	31
Water Connection Pipe	Inlet			mm	PT 40	PT 40	PT 40	PT 40
	Outlet			mm	PT 40	PT 40	PT 40	PT 40
	Drain Outlet			mm	20	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

OUTDOOR UNIT SPECIFICATION

MULTI V WATER IV

ARWN220LAS4 / ARWN240LAS4

HP				22	24
Model	Combination Unit			ARWN220LAS4	ARWN240LAS4
	Independent Unit			ARWN120LAS4 ARWN100LAS4	ARWN120LAS4 ARWN120LAS4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Power Input	Cooling	Nom	kW	11.55	12.92
	Heating	Nom	kW	12.09	13.50
EER	Cooling			5.33	5.20
COP	Heating			5.73	5.60
ESEER				7.34	7.21
Temp. range of Inlet Water	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure	Cooling	Nom	dBA	57	57
	Heating	Nom	dBA	57	57
Sound Power	Cooling	Nom	dBA	70	70
	Heating	Nom	dBA	70	70
Dimensions		W x H x D	mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg	127 x 2	127 x 2
Refrigerant	Type			R410A	R410A
	Precharged Amount		kg	11.6	11.6
			lbs	25.6	25.6
	GWP			2,087.5	2,087.5
	TCO_2eq			24.2	24.2
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Charge		cc	5,600	5,600
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	150
	After 1st Y Branch	Max	m	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50
	IDU - IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05 (3/4)	19.05 (3/4)
	Gas		mm(inch)	34.9 (1-3/8)	34.9 (1-3/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units		Max		44	48
Ratio of the Connectable Indoor Units		Min ~ Max		50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm^2	45	45
	Rated Water Flow		L/min	116 + 96	116 + 116
	Head Loss		kPa	22 + 16	22 + 22
Water Connection Pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases. (R410A)

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

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

ARWN260LAS4 / ARWN280LAS4

HP				26	28
Model	Combination Unit			ARWN260LAS4	ARWN280LAS4
	Independent Unit			ARWN140LAS4 ARWN120LAS4	ARWN140LAS4 ARWN140LAS4
Capacity	Cooling	Nom	kW	72.8	78.4
	Heating	Nom	kW	81.9	88.2
Power Input	Cooling	Nom	kW	14.30	15.68
	Heating	Nom	kW	14.92	16.34
EER	Cooling			5.09	5.00
COP	Heating			5.49	5.40
ESEER				7.11	7.02
Temp. range of Inlet Water	Cooling	Min ~ Max	°C DB	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max	°C WB	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure	Cooling	Nom	dBA	59	59
	Heating	Nom	dBA	58	58
Sound Power	Cooling	Nom	dBA	72	72
	Heating	Nom	dBA	71	71
Dimensions		W x H x D	mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight			kg	127 x 2	127 x 2
Refrigerant	Type			R410A	R410A
	Precharged Amount		kg	11.6	11.6
			lbs	25.6	25.6
	GWP			2,087.5	2,087.5
	TCO_2eq			24.2	24.2
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Charge		cc	5,600	5,600
Power Supply			Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	150
	After 1st Y Branch	Max	m	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50
	IDU - IDU	Max	m	40	40
Piping Connection	Liquid		mm(inch)	19.05 (3/4)	19.05 (3/4)
	Gas		mm(inch)	34.9 (1-3/8)	34.9 (1-3/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units		Max		52	56
Ratio of the Connectable Indoor Units		Min ~ Max		50 ~ 160%	50 ~ 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf/cm^2	45	45
	Rated Water Flow		L/min	135 + 116	135 + 135
	Head Loss		kPa	29 + 22	29 + 29
Water Connection Pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

* This product contains Fluorinated Greenhouse Gases. (R410A)

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

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

OUTDOOR UNIT SPECIFICATION

MULTI V WATER IV

ARWN300LAS4 / ARWN320LAS4 / ARWN340LAS4

HP					30	32	34
Model	Combination Unit				ARWN300LAS4	ARWN320LAS4	ARWN340LAS4
	Independent Unit				ARWN160LAS4 ARWN140LAS4	ARWN180LAS4 ARWN140LAS4	ARWN200LAS4 ARWN140LAS4
Capacity	Cooling	Nom		kW	84.0	89.6	95.2
	Heating	Nom		kW	94.5	100.8	107.1
Power Input	Cooling	Nom		kW	15.99	17.53	19.04
	Heating	Nom		kW	16.71	18.30	19.84
EER	Cooling				5.25	5.11	5.00
COP	Heating				5.66	5.51	5.40
ESEER					7.12	7.07	7.01
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2	2
Sound Pressure	Cooling	Nom		dBA	59	59	59
	Heating	Nom		dBA	58	58	61
Sound Power	Cooling	Nom		dBA	72	72	72
	Heating	Nom		dBA	71	71	74
Dimensions		W x H x D		mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight				kg	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)
Refrigerant	Type				R410A	R410A	R410A
	Precharged Amount			kg	8.8	8.8	8.8
				lbs	19.4	19.4	19.4
	GWP				2,087.5	2,087.5	2,087.5
	TCO_2eq				18.4	18.4	18.4
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	5,800	5,800	5,800
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max		m	300	300	300
	Actual Longest Piping Length	Max		m	150	150	150
	After 1st Y Branch	Max		m	40	40	40
Piping Level Difference	IDU - ODU	Max		m	50	50	50
	IDU - IDU	Max		m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas			mm(inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Number of Outdoor Units					2	2	2
Number of Connectable Indoor Units		Max			60	64	64
Ratio of the Connectable Indoor Units		Min ~ Max			50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max		kgf/cm^2	45	45	45
	Rated Water Flow			L/min	154 + 135	173 + 135	192 + 135
	Head Loss			kPa	20 + 29	25 + 29	31 + 29
Water Connection Pipe	Inlet			mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet			mm	20	20	20

* This product contains Fluorinated Greenhouse Gases. (R410A)

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

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

ARWN360LAS4 / ARWN380LAS4 / ARWN400LAS4

HP					36	38	40
Model	Combination Unit				ARWN360LAS4	ARWN380LAS4	ARWN400LAS4
	Independent Unit				ARWN180LAS4 ARWN180LAS4	ARWN200LAS4 ARWN180LAS4	ARWN200LAS4 ARWN200LAS4
Capacity	Cooling	Nom		kW	100.8	106.4	112.0
	Heating	Nom		kW	113.4	119.7	126.0
Power Input	Cooling	Nom		kW	19.38	20.89	22.40
	Heating	Nom		kW	20.26	21.80	23.34
EER	Cooling				5.20	5.09	5.00
COP	Heating				5.60	5.49	5.40
ESEER					7.11	7.06	7.01
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				2	2	2
Sound Pressure	Cooling	Nom		dBA	56	56	55
	Heating	Nom		dBA	57	61	61
Sound Power	Cooling	Nom		dBA	69	69	68
	Heating	Nom		dBA	70	74	74
Dimensions		W x H x D		mm	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2	(755 × 997 × 500) x 2
Net Weight				kg	140 x 2	140 x 2	140 x 2
Refrigerant	Type				R410A	R410A	R410A
	Precharged Amount			kg	6	6	6
				lbs	13.2	13.2	13.2
	GWP				2,087.5	2,087.5	2,087.5
	TCO_2eq				12.5	12.5	12.5
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	6,000	6,000	6,000
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max		m	300	300	300
	Actual Longest Piping Length	Max		m	150	150	150
	After 1st Y Branch	Max		m	40	40	40
Piping Level Difference	IDU - ODU	Max		m	50	50	50
	IDU - IDU	Max		m	40	40	40
Piping Connection	Liquid			mm(inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas			mm(inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Number of Outdoor Units					2	2	2
Number of Connectable Indoor Units		Max			64	64	64
Ratio of the Connectable Indoor Units		Min ~ Max			50 ~ 160%	50 ~ 160%	50 ~ 160%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max		kgf/cm^2	45	45	45
	Rated Water Flow			L/min	173 + 173	192 + 173	192 + 192
	Head Loss			kPa	25 + 25	31 + 25	31 + 31
Water Connection Pipe	Inlet			mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet			mm	20	20	20

* This product contains Fluorinated Greenhouse Gases. (R410A)

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero
- Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)

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

OUTDOOR UNIT SPECIFICATION

MULTI V WATER IV

ARWN420LAS4 / ARWN440LAS4 / ARWN460LAS4 / ARWN480LAS4 / ARWN500LAS4

HP					42	44	46	48	50
Model	Combination Unit				ARWN420LAS4	ARWN440LAS4	ARWN460LAS4	ARWN480LAS4	ARWN500LAS4
	Independent Unit				ARWN200LAS4 ARWN120LAS4 ARWN100LAS4	ARWN200LAS4 ARWN120LAS4 ARWN120LAS4	ARWN200LAS4 ARWN140LAS4 ARWN120LAS4	ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	ARWN200LAS4 ARWN160LAS4 ARWN140LAS4
Capacity	Cooling	Nom		kW	117.6	123.2	128.8	134.4	140.0
	Heating	Nom		kW	132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom		kW	22.75	24.12	25.50	26.88	27.19
	Heating	Nom		kW	23.76	25.17	26.59	28.01	28.38
EER	Cooling				5.17	5.11	5.05	5.00	5.15
COP	Heating				5.57	5.51	5.45	5.40	5.55
ESEER					7.18	7.12	7.06	7.01	7.07
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				3	3	3	3	3
Sound Pressure	Cooling	Nom		dBA	58	58	60	60	60
	Heating	Nom		dBA	62	62	62	62	62
Sound Power	Cooling	Nom		dBA	72	72	74	74	74
	Heating	Nom		dBA	76	76	76	76	76
Dimensions		W x H x D		mm	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight				kg	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)	(140 x 1) + (127 x 2)	(140 x 2) + (127 x 1)
Refrigerant	Type				R410A	R410A	R410A	R410A	R410A
	Precharged Amount			kg	14.6	14.6	14.6	14.6	11.8
				lbs	32.2	32.2	32.2	32.2	26.0
	GWP				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
	TCO_2eq				30.5	30.5	30.5	30.5	24.6
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	8,600	8,600	8,600	8,600	8,800
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max		m	300	300	300	300	300
	Actual Longest Piping Length	Max		m	150	150	150	150	150
	After 1st Y Branch	Max		m	40	40	40	40	40
Piping Level Difference	IDU - ODU	Max		m	50	50	50	50	50
	IDU - IDU	Max		m	40	40	40	40	40
Piping Connection	Liquid			mm(inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas			mm(inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Number of Outdoor Units					3	3	3	3	3
Number of Connectable Indoor Units		Max			64	64	64	64	64
Ratio of the Connectable Indoor Units		Min ~ Max			50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max		kgf/cm^2	45	45	45	45	45
	Rated Water Flow			L/min	192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss			kPa	31 + 22 + 16	31 + 22 + 22	31 + 29 + 22	31 + 29 + 29	31 + 20 + 29
Water Connection Pipe	Inlet			mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet			mm	20	20	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

ARWN520LAS4 / ARWN540LAS4 / ARWN560LAS4 / ARWN580LAS4 / ARWN600LAS4

HP					52	54	56	58	60
Model	Combination Unit				ARWN520LAS4	ARWN540LAS4	ARWN560LAS4	ARWN580LAS4	ARWN600LAS4
	Independent Unit				ARWN200LAS4 ARWN180LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN180LAS4 ARWN180LAS4	ARWN200LAS4 ARWN200LAS4 ARWN180LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Capacity	Cooling	Nom		kW	145.6	151.2	156.8	162.4	168.0
	Heating	Nom		kW	163.8	170.1	176.4	182.7	189.0
Power Input	Cooling	Nom		kW	28.73	30.24	30.58	32.09	33.60
	Heating	Nom		kW	29.97	31.51	31.93	33.47	35.01
EER	Cooling				5.07	5.00	5.13	5.06	5.00
COP	Heating				5.47	5.40	5.52	5.46	5.40
ESEER					7.04	7.01	7.07	7.04	7.01
Temp. range of Inlet Waterb	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				3	3	3	3	3
Sound Pressure	Cooling	Nom		dBA	60	60	57	57	56
	Heating	Nom		dBA	62	62	62	62	62
Sound Power	Cooling	Nom		dBA	74	74	71	71	70
	Heating	Nom		dBA	76	76	76	76	76
Dimensions		W x H x D		mm	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3	(755 × 997 × 500) x 3
Net Weight				kg	(140 x 2) + (127 X 1)	(140 x 2) + (127 X 1)	140 x 3	140 x 3	140 x 3
Refrigerant	Type				R410A	R410A	R410A	R410A	R410A
	Precharged Amount			kg	11.8	11.8	9	9	9
				lbs	26.0	26.0	19.8	19.8	19.8
	GWP				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
	TCO_2eq				24.6	24.6	18.8	18.8	18.8
Refrigerant Oil	Type				FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Charge			cc	8,800	8,800	9,000	9,000	9,000
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total	Max		m	300	300	300	300	300
	Actual Longest Piping Length	Max		m	150	150	150	150	150
	After 1st Y Branch	Max		m	40	40	40	40	40
Piping Level Difference	IDU - ODU	Max		m	50	50	50	50	50
	IDU - IDU	Max		m	40	40	40	40	40
Piping Connection	Liquid			mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas			mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
Number of Outdoor Units					3	3	3	3	3
Number of Connectable Indoor Units		Max			64	64	64	64	64
Ratio of the Connectable Indoor Units		Min ~ Max			50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max		kgf/cm^2	45	45	45	45	45
	Rated Water Flow			L/min	192 + 173 + 135	192 + 192 + 135	192 + 173 + 173	192 + 192+ 173	192 + 192+ 192
	Head Loss			kPa	31 + 25 + 29	31 + 31 + 29	31 + 25 + 25	31 + 31 + 25	31 + 31 + 31
Water Connection Pipe	Inlet			mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet			mm	20	20	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

OUTDOOR UNIT SPECIFICATION

MULTI V WATER IV

ARWN620LAS4 / ARWN640LAS4 / ARWN660LAS4 / ARWN680LAS4 / ARWN700LAS4

HP					62	64	66	68	70
Model	Combination Unit				ARWN620LAS4	ARWN640LAS4	ARWN660LAS4	ARWN680LAS4	ARWN700LAS4
	Independent Unit				ARWN200LAS4 ARWN200LAS4 ARWN120LAS4 ARWN100LAS4	ARWN200LAS4 ARWN200LAS4 ARWN120LAS4 ARWN120LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN120LAS4	ARWN200LAS4 ARWN200LAS4 ARWN140LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN160LAS4 ARWN140LAS4
Capacity	Cooling	Nom		kW	173.6	179.2	184.8	190.4	196.0
	Heating	Nom		kW	195.3	201.6	207.9	214.2	220.5
Power Input	Cooling	Nom		kW	33.95	35.32	36.70	38.08	38.39
	Heating	Nom		kW	35.43	36.84	38.26	39.68	40.05
EER	Cooling				5.11	5.07	5.04	5.00	5.11
COP	Heating				5.51	5.47	5.43	5.40	5.51
ESEER					7.12	7.08	7.04	7.01	7.05
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				4	4	4	4	4
Sound Pressure	Cooling	Nom		dBA	59	59	61	61	61
	Heating	Nom		dBA	63	63	63	63	63
Sound Power	Cooling	Nom		dBA	73	73	75	75	75
	Heating	Nom		dBA	77	77	77	77	77
Dimensions		W x H x D		mm	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4
Net Weight				kg	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 2) + (127 x 2)	(140 x 3) + (127 x 1)
Refrigerant	Type				R410A	R410A	R410A	R410A	R410A
	Precharged Amount			kg	17.6	17.6	17.6	17.6	14.8
				lbs	38.8	38.8	38.8	38.8	32.6
	GWP				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
	TCO_2eq				36.7	36.7	36.7	36.7	30.9
Refrigerant Oil	Type				FVC68D (PVE)	FVC69D (PVE)	FVC70D (PVE)	FVC71D (PVE)	FVC72D (PVE)
	Charge			cc	11,600	11,600	11,600	11,600	11,800
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total		Max	m	300	300	300	300	300
	Actual Longest Piping Length		Max	m	150	150	150	150	150
	After 1st Y Branch		Max	m	40	40	40	40	40
Piping Level Difference	IDU - ODU		Max	m	50	50	50	50	50
	IDU - IDU		Max	m	40	40	40	40	40
Piping Connection	Liquid			mm(inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas			mm(inch)	44.5 (1-3/4)	44.5 (1-3/4)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Number of Outdoor Units					4	4	4	4	4
Number of Connectable Indoor Units			Max		64	64	64	64	64
Ratio of the Connectable Indoor Units			Min ~ Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance		Max	kgf/cm^2	45	45	45	45	45
	Rated Water Flow			L/min	192 + 192 + 116 + 96	192 + 192 + 116 + 116	192 + 192 + 135 + 116	192 + 192 + 135 + 135	192 + 192 + 154 + 135
	Head Loss			kPa	31 + 31 + 22 + 16	31 + 31 + 22 + 22	31 + 31 + 29 + 22	31 + 31 + 29 + 29	31 + 31 + 20 + 29
Water Connection Pipe	Inlet			mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet			mm	20	20	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

ARWN720LAS4 / ARWN740LAS4 / ARWN760LAS4 / ARWN780LAS4 / ARWN800LAS4

HP					72	74	76	78	80
Model	Combination Unit				ARWN720LAS4	ARWN740LAS4	ARWN760LAS4	ARWN780LAS4	ARWN800LAS4
	Independent Unit				ARWN200LAS4 ARWN200LAS4 ARWN180LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN140LAS4	ARWN200LAS4 ARWN200LAS4 ARWN180LAS4 ARWN180LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN180LAS4	ARWN200LAS4 ARWN200LAS4 ARWN200LAS4 ARWN200LAS4
Capacity	Cooling	Nom		kW	201.6	207.2	212.8	218.4	224.0
	Heating	Nom		kW	226.8	233.1	239.4	245.7	252.0
Power Input	Cooling	Nom		kW	39.93	41.44	41.78	43.29	44.80
	Heating	Nom		kW	41.64	43.18	43.60	45.14	46.68
EER	Cooling				5.05	5.00	5.09	5.05	5.00
COP	Heating				5.45	5.40	5.49	5.44	5.40
ESEER					7.03	7.01	7.05	7.03	7.01
Temp. range of Inlet Water	Cooling	Min ~ Max		°C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min ~ Max		°C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type				Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor				4	4	4	4	4
Sound Pressure	Cooling	Nom		dBA	61	61	58	58	57
	Heating	Nom		dBA	63	63	63	63	63
Sound Power	Cooling	Nom		dBA	75	75	72	72	71
	Heating	Nom		dBA	77	77	77	77	77
Dimensions		W x H x D		mm	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4	(755 × 997 × 500) x 4
Net Weight				kg	(140 x 3) + (127 x 1)	(140 x 3) + (127 x 1)	140 x 4	140 x 4	140 x 4
Refrigerant	Type				R410A	R410A	R410A	R410A	R410A
	Precharged Amount			kg	14.8	14.8	12	12	12
				lbs	32.6	32.6	26.5	26.5	26.5
	GWP				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
	TCO_2eq				30.9	30.9	25.1	25.1	25.1
Refrigerant Oil	Type				FVC73D (PVE)	FVC74D (PVE)	FVC75D (PVE)	FVC76D (PVE)	FVC77D (PVE)
	Charge			cc	11,800	11,800	12,000	12,000	12,000
Power Supply				Ø / V / Hz	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm^2	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5	2C × 1.0~1.5
Piping Length	Total		Max	m	300	300	300	300	300
	Actual Longest Piping Length		Max	m	150	150	150	150	150
	After 1st Y Branch		Max	m	40	40	40	40	40
Piping Level Difference	IDU - ODU		Max	m	50	50	50	50	50
	IDU - IDU		Max	m	40	40	40	40	40
Piping Connection	Liquid			mm(inch)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
	Gas			mm(inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
Number of Outdoor Units					4	4	4	4	4
Number of Connectable Indoor Units			Max		64	64	64	64	64
Ratio of the Connectable Indoor Units			Min ~ Max		50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
Heat Exchanger	Type				Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance		Max	kgf/cm^2	45	45	45	45	45
	Rated Water Flow			L/min	192 + 192 + 173 + 135	192 + 192 + 192 + 135	192 + 192 + 173 + 173	192 + 192 + 192 + 173	192 + 192 + 192 + 192
	Head Loss			kPa	31 + 31 + 25 + 29	31 + 31 + 31 + 29	31 + 31 + 25 + 25	31 + 31 + 31 + 25	31 + 31 + 31 + 31
Water Connection Pipe	Inlet			mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Outlet			mm	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40 + PT 40
	Drain Outlet			mm	20	20	20	20	20

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero

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

2. Capacities are net capacities

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

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

OUTDOOR UNIT

MULTI V WATER

REFERENCE SITE

108 Hospital project

LG MULTI V WATER Solution with DX AHU

Location	Building Type	Total Capacity
Ha Noi city	Hospital	2,160 HP

Customer's Need

Ensuring clean & sufficient fresh air supply also most comfortable conditions for patient's treatment.
Saving energy & stable operation and minimized installation area is also important.

LG Solution

Highly efficient with 100% inverter compressor, stable operation through water cooled operation. Multi V Water IV saves installation space and supplies sufficient air volume, enough static pressure, clean fresh air by adopting special filter with DX type Air Handling Unit.

INDOOR UNIT

Wall Mounted Unit
Ceiling Concealed Duct
Ceiling Mounted Cassette
MULTI V Indoor Compatibility

INDOOR UNIT

LINE-UP

kW			1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	17.5	22.4	28.0
Type		Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	60k	76k	96k
4th generation Wall Mounted Unit	Standard		•	•	•	•	•	•		•		•	•						
4th generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570)		•	•	•	•	•	•	•										
	4 Way Cassette (840 x 840)									•	•	•	•	•	•	•			
	2 Way Cassette				•	•		•		•									
	1 Way Cassette			•	•	•		•		•									
4th generation Ceiling Concealed duct	Low Statics		•	•	•	•	•	•	•	•									
	Mid Statics			•	•	•	•	•		•	•		•	•	•	•	•		
	High Statics			•	•	•	•	•		•	•		•	•	•	•		•	•
4th generation HYDRO KIT	Low Temperature														•				•

INDOOR UNIT

FEATURE OVERVIEW

Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Rerstart Function Disable / Enable
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
				•	•				•	•				

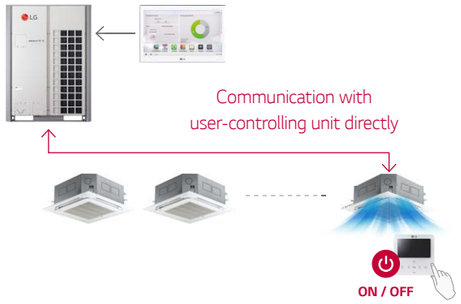
1) If 4th generation indoors are combined to 2nd generation indoors, some of function will not be activated.
→ More detailed information, refer to the "MULTI V INDOOR COMPATIBILITY"

COMFORT

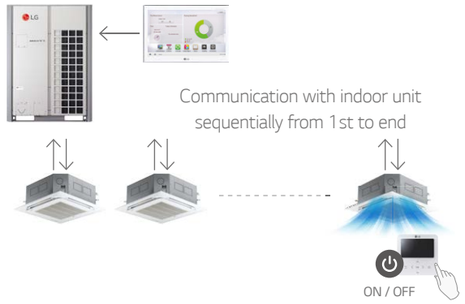
Quick Control

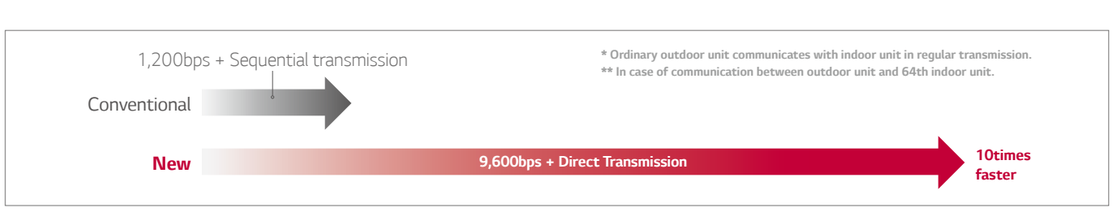
4th Generation indoor unit offers rapid heating and cooling about 10times faster than conventional through communication mode change and improved communication speed.

New



Conventional

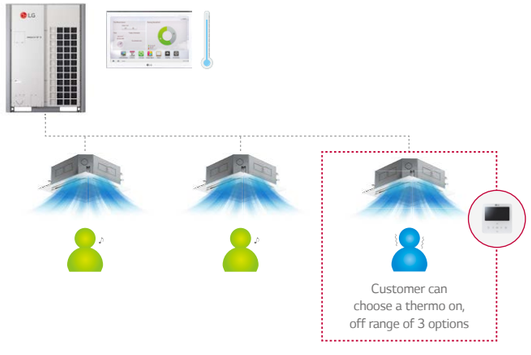




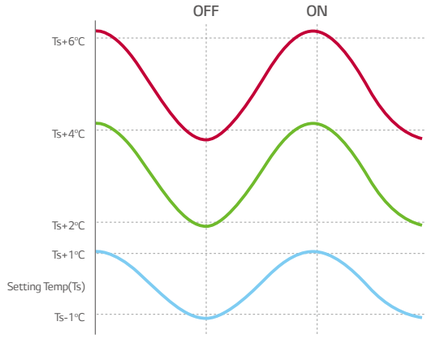
Thermo On / Off Range Setting (Cooling)

User can set cooling thermo on / off range with wired remote controller for prevention overcooling and making optimized indoor environment.

Prevention Overcooling



Cooling Thermo On / Off Range



Filter Sign (Remaining Time)

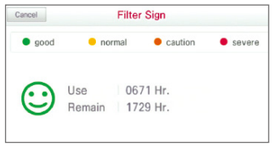
The alarm is activated when the filter needs to be cleaned, and the time remaining for cleaning is displayed on the screen, which is convenient for users.

New

Remain Time Until Indoor Filter Cleaning + Alarm

Standard Wired
Remote Controller

Remain time until indoor filter cleaning 2400hr.

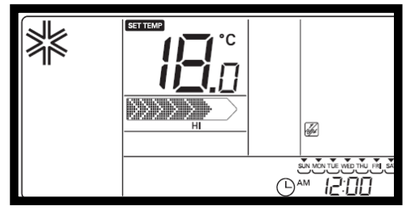


Premium Wired
Remote Controller

Remain time until indoor filter cleaning 1729hr.

Conventional

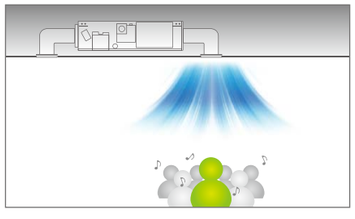
Only Alarm

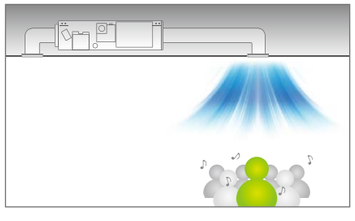


Static Pressure 11 Step Control (Only for Ceiling Concealed Duct)

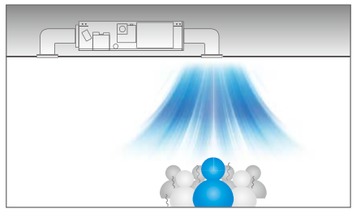
Depending on the installation environment, 4series ceiling concealed duct is controlled the static pressure to 11 step, for providing comfortable environment suitable for any environment.

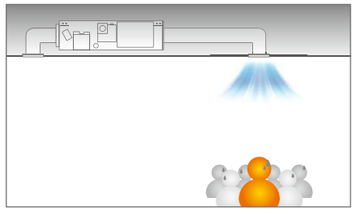
New





Conventional





CONVENIENCE

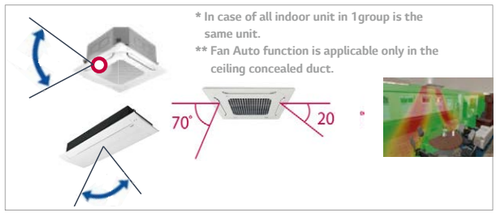
Group Control

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

New

Cooling / Heating Dehumidification
Fan only operating Setting temp.

Standard Operation
+
In Case of Group Control



Conventional

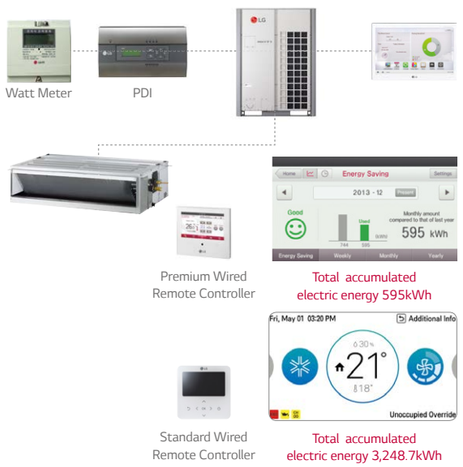
Cooling / Heating Dehumidification
Fan only operating Setting temp.

Standard Operation

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.

1 Point External Input (On / Off Control)

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

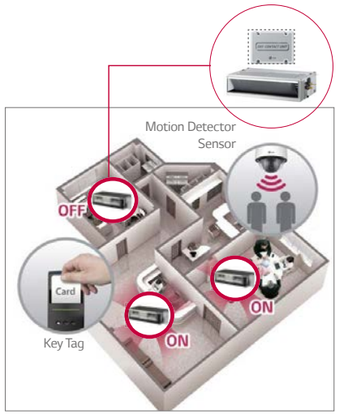
New

Connection between an indoor unit and external devices directly

Cost Savings

Conventional

Connection between an indoor unit and external devices through dry contact



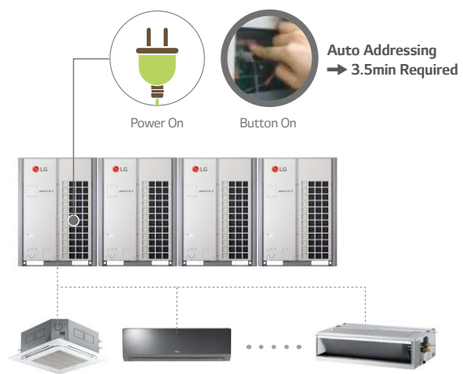
* In case of needing more functions beside on / off control, a dry contact is required to be installed.

Auto Addressing

Addressing time has been reduced up to 1.5min., that needed only power on without any process. Auto addressing takes shorter as 57% as compared to conventional.

New

Conventional



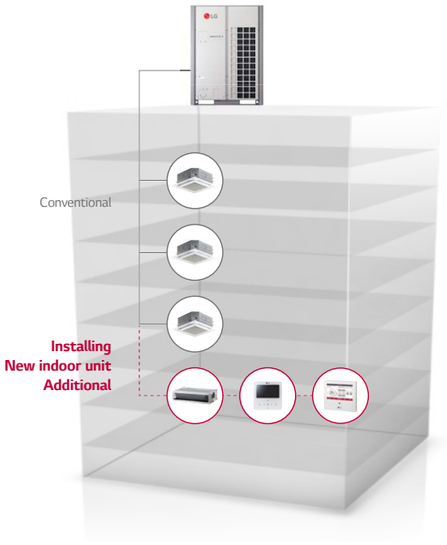
* 64ea indoor units installing time

INDOOR UNIT KEY FEATURES

CONVENIENCE

Compatibility

- **Outdoor unit**
  - Any MULTI V series outdoor unit can be installed
- **Indoor unit**
  - Any MULTI V series can be installed
- **Wired remote controller**
  - Standard III : PREMTB100, PREMTBB10
  - Standard II : PREMTB001, PREMTBB01
  - Premium : PREMTA000, PREMTA000A, PREMTA000B
- **Implementable Functions**
  - Static Pressure 11 Step Control
  - Cooling thermo on / off range setting
  - Filter Sign
  - Control the external devices
  - Heating test run mode
  - Convenient check information



Model Information Monitoring

User can check indoor unit and outdoor unit's information with wired remote controller, so that is convenient for service.

Category	No.	Model
First number : Outdoor unit	0	MULTI V
	1	MULTI
	2	Single

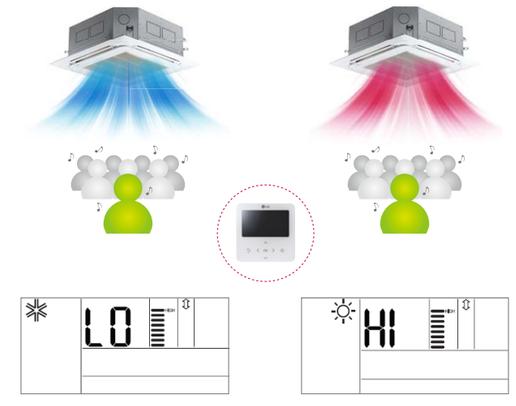
Category	No.	Model	No.	Model	No.	Model
Second number : Indoor unit	0	CST	6	Console	A	Hydro kit for medium temp.
	1	Duct	7	Single Package	B	Hydro kit for high temp.
	2	CVT	8	General Ventilation	-	-
	3	PAC	9	AWHP	-	-
	4	RAC	-	-	-	-

Category		No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
Third number : capacity of the indoor unit	MULTI V	0	5K	4	15K	8	36K	C	76K
		1	7K	5	18K	9	42K	D	96K
		2	9K	6	24K	A	48K	-	-
		3	12K	7	28K	B	54K	-	-
	MULTI	0	5K	4	12K	8	20K	-	-
		1	7K	5	14K	9	24K	-	-
		2	8K	6	15K	A	30K	-	-
		3	9K	7	18K	B	36K	-	-
	Single	0	9K	4	24K	8	48K	-	-
		1	12K	5	30K	9	60K	-	-
		2	18K	6	36K	-	-	-	-
		3	21K	7	42K	-	-	-	-

Test Run (Heating)

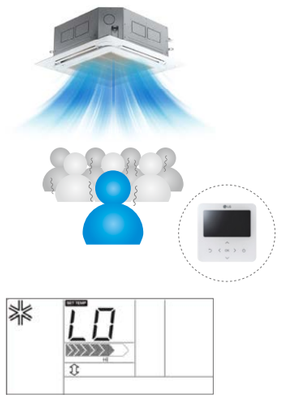
Test run mode can be operated cooling mode and heating mode for easy service.

New



Heating and cooling test run mode are available

Conventional

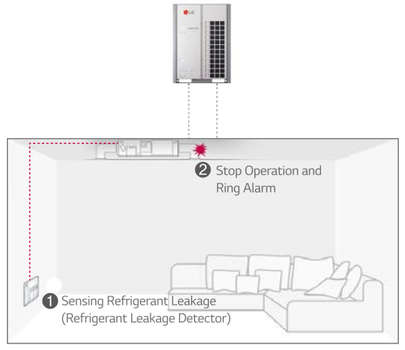


Heating test run mode is unavailable

Refrigerant Leakage Detection (Option Function)

To meet the Global refrigerant leakage regulation, LG uses refrigerant leakage detection kit. This detector senses refrigerant leakage and when the refrigerant concentration exceeds 6,000ppm not only stopping the indoor unit operation but also giving an alarm using buzzer and sensor LED (The green and red LED lights blink simultaneously).

Refrigerant Leakage Detection

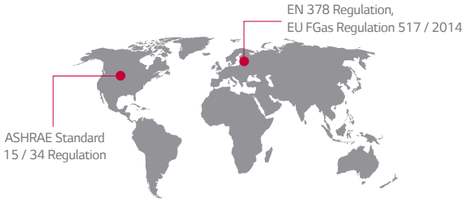


*** Refrigerant leakage detector is option accessory.**

In Case of Leak Refrigerant

Oxygen Reduction | Life Span Reduction | Environmental Pollution

Global Regulation



WALL MOUNTED UNIT

Embedded Wi-Fi

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 Smart ThinQ

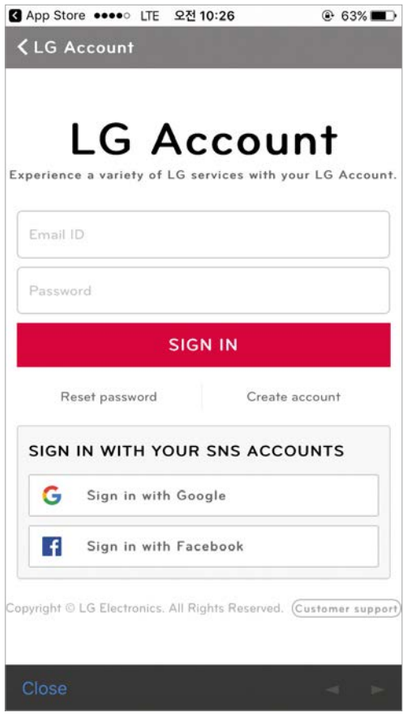
Search "LG Smart ThinQ" on Google market or Appstore then download the app. ANDROID iOS

LG Smart ThinQ

How it Works

Easy Registration and Log-in

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

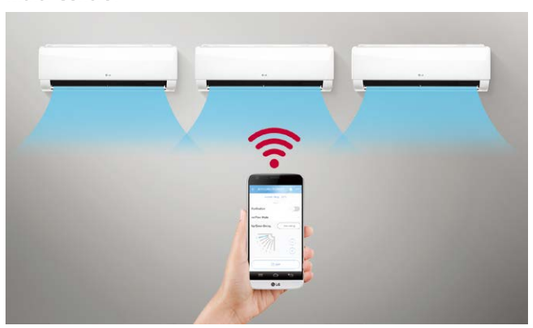


Wi-Fi Connectivity

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



* Can be controlled by multiple users, but not simultaneously

Plasmaster™ Ionizer+PLUS

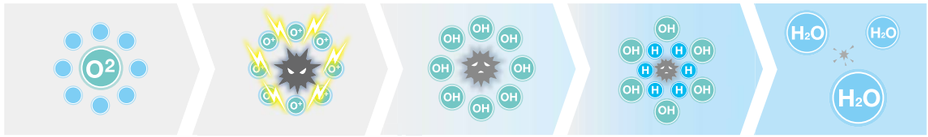
The powerful plasma Ionizer protects you from odors and harmful substances in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, cleaner environment.

* Specifications may vary for each model.
* Depending on the experimental conditions.
* This function will be available with following models and date.
  - ARNU**GSJN4, ARNU**GSKN4 : From `17 May

How It Works

Sterilization and Deodorization (Utilizes Over 3 Million Ions)

Plasmaster Ionizer+ reduces harmful microscopic particles by infusing the air passing through the air conditioner with over 3 millions ions.

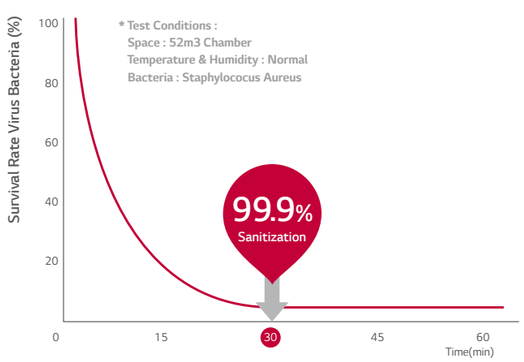


Ion Cluster Generation	Surrounding Harmful Substances	OH Radical Production	Chemical Reaction	Sterilization
Ions are released into air	H- and O- bond to harmful particles	OH radicles inactivate harmful substances	OH radicles bond with H particles in the air	H_2O molecules are produced

Test Result

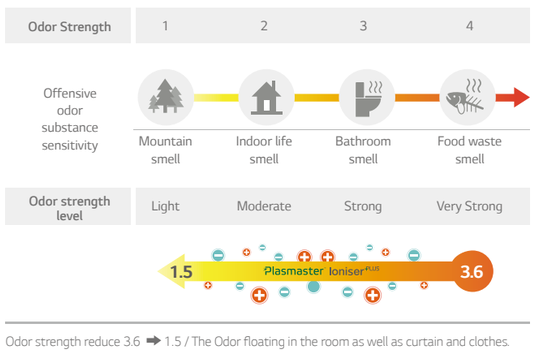
Sterilization Performance Evaluations

Plasmaster Ionizer+ reduces harmful microscopic particles by infusing the air passing through the air conditioner with over 3 millions ions.



2.1 odor strength decrease in 60 minutes

An odor of strength 2 or less indicates that there is odor but no sense of displeasure (degree of odor permissible).



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

WALL MOUNTED UNIT

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

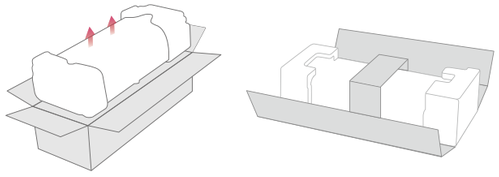
* Specifications may vary for each model.

Concept

By reducing the manpower and time required for installation, it is now possible to install more units in less time.

How It Works

One Simple Packing Box

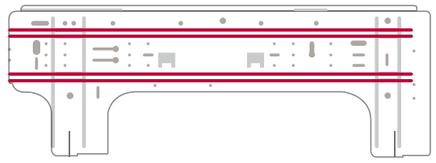


Conventional

LG

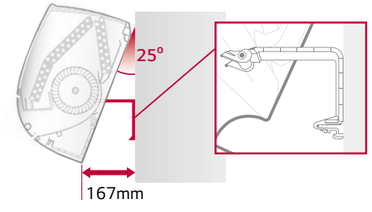
Installation Plate Improvement

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



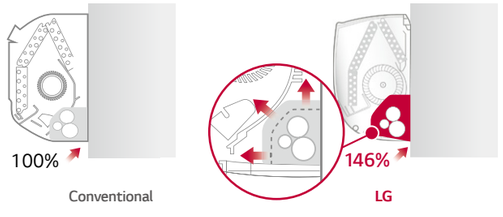
Installation Support Clip

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



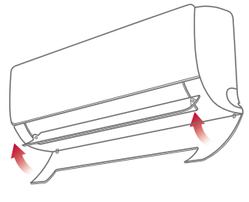
Wider Tubing Space

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



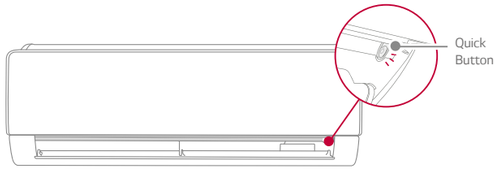
Detachable Bottom Cover

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



Quick button for running test

The test button is conveniently located and easy to find.



STANDARD

ARNU05GSJN4 / ARNU07GSJN4 / ARNU09GSJN4 / ARNU12GSJN4 / ARNU15GSJN4
ARNU18GSKN4 / ARNU24GSKN4 / ARNU30GSVA4 / ARNU36GSVA4

Model	Independent Unit			ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4	ARNU18GSKN4	ARNU24GSKN4	ARNU30GSVA4	ARNU36GSVA4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	7.1	8.5	10.4
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	7.5	9.2	10.8
Power Input	Cooling / Heating	Nom [1]	W	10.0	11.0	12.0	15.0	23.0	32.0	39.0	83	98
	Cooling / Heating	Rated [2]	W	30.0	30.0	30.0	30.0	30.0	53.0	53.0	154	154
Power Supply			Ø / V / Hz	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60	1 / 220 ~ 240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5	22.0 / 19.0 / 16.0	27.0 / 24.0 / 20.0
	Heating	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	14.0 / 12.0 / 10.5	15.2 / 12.7 / 10.5	22.0 / 19.0 / 16.0	27.0 / 24.0 / 20.0
Sound Pressure		H / M / L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32	43/ 39 / 34	46 / 41 / 34	48 / 45 / 42	50 / 47 / 43
Sound Power		H / M / L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54	63 / 57 / 52	65 / 60 / 54	61 / 58 / 55	63 / 60 / 57
Dimensions	Body	W x H x D	mm	837 x 302 x 189	837 x 302 x 189	837 x 302 x 189	837 x 302 x 189	837 x 302 x 189	998 x 330 x 210	998 x 330 x 210	1,190 x 346 x 265	1,190 x 346 x 265
Net Weight			kg	8.50	8.50	8.50	8.50	8.50	12.50	12.50	19.0	19.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88	15.88	15.9
	Drain	I.D	mm	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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		ARNU05GSJN4	ARNU07GSJN4	ARNU09GSJN4	ARNU12GSJN4	ARNU15GSJN4	ARNU18GSKN4	ARNU24GSKN4	ARNU30GSVA4	ARNU36GSVA4
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		PRGK024A0							-	

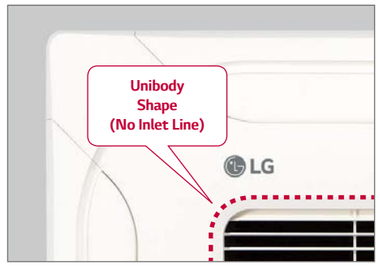
Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
							
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)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

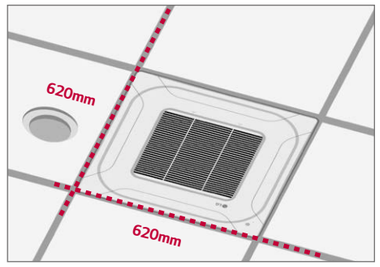
INDOOR UNIT KEY FEATURES

CEILING MOUNTED CASSETTE (4 Way)

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



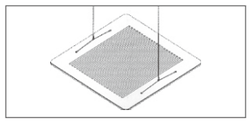


Auto Elevation Grille

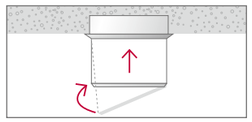
The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.

Easy filter cleaning with elevation grill.

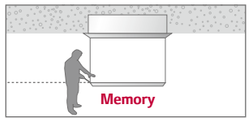
4-Point Support Structure



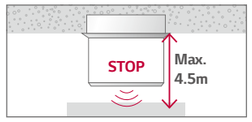
Auto Leveling



Memory for User's Level



Auto Stop Detection

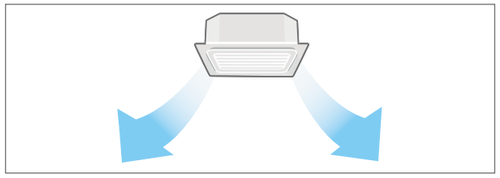


* Operating with wired remote controller (Model Name : PREMTB001,PREMTBB01) and wireless remote controller included in PTEGM0.
* Except ARNU05GTRC4, ARNU07GTRC4, ARNU09GTRC4, ARNU12GTRC4, ARNU15GTQC4, ARNU18GTQC4, ARNU21GTQC4
* Applied to Cassette panel PT-UMC1

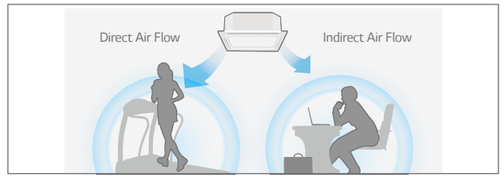
Independent Vane Control

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

All Vane Operation

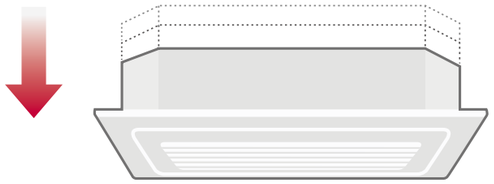


Independent Vane Control



Compact Size

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



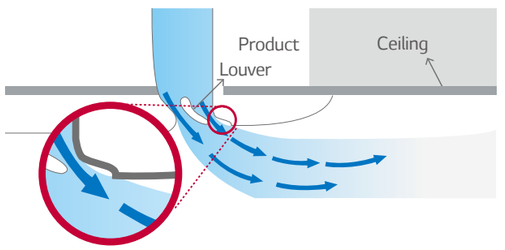
Capacity	Height
7.1 ~ 9.0kW	204mm
10.6kW	246mm
12.3 ~ 15.8kW	288mm

* Length Width : 840 x 840mm

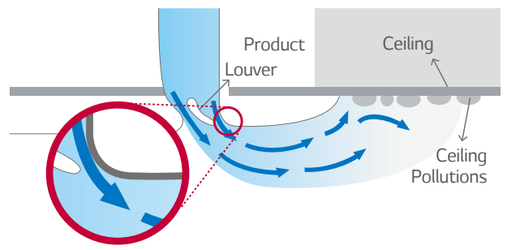
Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.

Coanda Design



Conventional

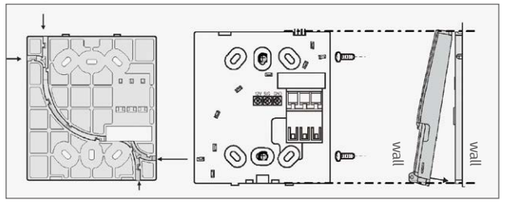


CEILING MOUNTED CASSETTE (4 Way / 2 Way)

Flexible Connection

Flexible connection of remote controller.
- Group control : 1 remote controller up to 16 indoor units. / Second remote control : 2 remote controllers to 1 indoor unit.

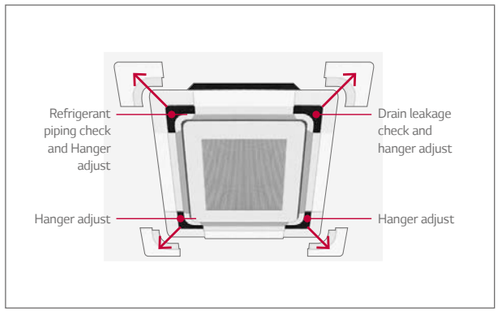
Easy & Solid Attachment to the Wall



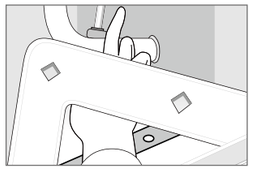
Convenient Panel Installation

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

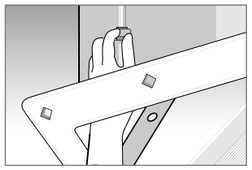
Detachable Corner Design



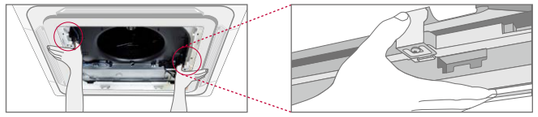
Drain leakage check



Hanger adjust

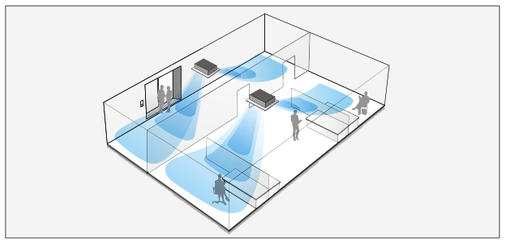


It is easy to install the panel to the body, using the button type panel design.



2 Way air flow without temperature variation

2 Way cassette is suitable for narrow type of space such as office / hotel / dormitory corridor and it provides thermal comfort without temperature variation.

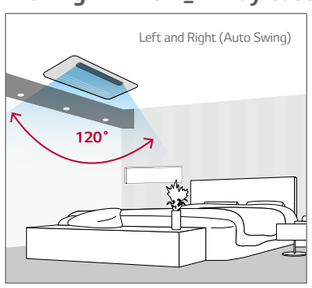


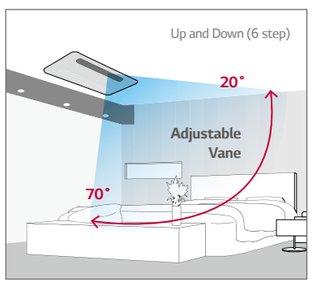
CEILING MOUNTED CASSETTE (1 Way)

6-Step Vane Control

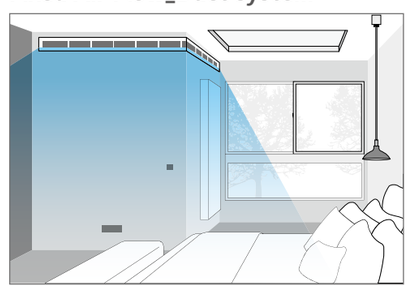
There are 6 different steps to control air flow direction. Also 1 way cassette has vane to move auto swing between left and right as 120 degree.

Moving Air Flow_1 Way cassette





Fixed Air Flow_Duct system



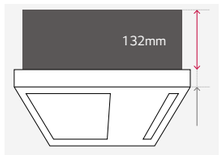
Minimized Height

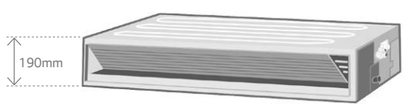
LG 1 Way cassette isn't affected by installation environment. LG 1 Way cassette height is 132mm and duct is 190mm, so it can provide ideal solution for installation in limited space.

Size Comparison

(Unit : mm)

	LG	A company	B company
1 way cassette	132	215	230
Duct	190	200	200

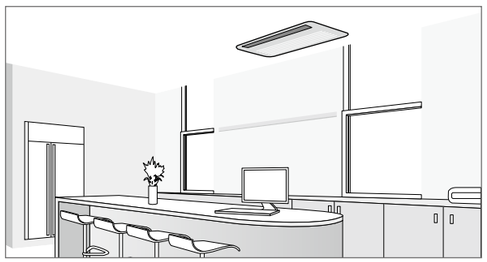




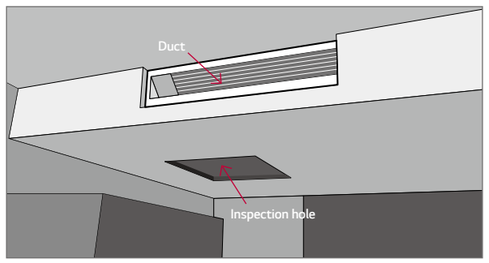
Flexible Installation

The access for inspection at 1 Way Cassette does not require additional ducted space making the installation environment uncomplicated.

1 Way cassette



Duct



INDOOR UNIT SPECIFICATION

4 Way CASSETTE (570 × 570)

ARNU05GTR*4 / ARNU07GTR*4 / ARNU09GTR*4 / ARNU12GTR*4
ARNU15GTQ*4 / ARNU18GTQ*4 / ARNU21GTQ*4

A : Basic / C : Plasma

Model	Independent Unit			ARNU05GTR*4	ARNU07GTR*4	ARNU09GTR*4	ARNU12GTR*4	ARNU15GTQ*4	ARNU18GTQ*4	ARNU21GTQ*4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input	Cooling / Heating	Nom 1)	W	13	13	14	17	24	25	28
	Cooling / Heating	Rated 2)	W	30	30	30	30	30	30	30
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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
	Heating	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
Sound Pressure		H / M / L	dBA	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power		H / M / L	dBA	46 / 44 / 43	46 / 44 / 43	47 / 46 / 44	48 / 47 / 44	51 / 49 / 47	52 / 50 / 49	55 / 53 / 49
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
Net Weight			kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Decoration Panel 1	Model			PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC	PT-UQC
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700	700 x 22 x 700
	Weight		kg	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Decoration Panel 2	Model			PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0	PT-QCHW0
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620	620 x 35 x 620
	Weight		kg	3.1	3.1	3.1	3.1	3.1	3.1	3.1

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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		ARNU05GTR*4	ARNU07GTR*4	ARNU09GTR*4	ARNU12GTR*4	ARNU15GTQ*4	ARNU18GTQ*4	ARNU21GTQ*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						
Front Panel		PT-QCHW0 / PT-UQC						
Ventilation Kit		PTVK430						
EEV Kit for MULTI V Indoor		PRGK024A0					-	

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

INDOOR UNIT SPECIFICATION

4 Way CASSETTE (840 × 840)

ARNU24GTP*4 / ARNU28GTP*4 / ARNU30GTP*4 / ARNU36GTN*4
ARNU42GTM*4 / ARNU48GTM*4 / ARNU54GTM*4

A : Basic / C : Plasma

Model	Independent Unit			ARNU24GTP*4	ARNU28GTP*4	ARNU30GTP*4	ARNU36GTN*4	ARNU42GTM*4	ARNU48GTM*4	ARNU54GTM*4
Capacity	Cooling	Nom	kW	7.1	8.2	9.0	10.6	12.3	14.1	15.8
	Heating	Nom	kW	8.0	9.2	10.0	11.9	13.8	15.9	18.0
Power Input	Cooling / Heating	Nom 1)	W	31	40	40	70	104	120	135
	Cooling / Heating	Rated 2)	W	40	40	40	144	144	144	144
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
	Heating	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	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
Sound Pressure		H / M / L	dBA	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power		H / M / L	dBA	55 / 53 / 50	56 / 54 / 52	57 / 54 / 52	62 / 59 / 56	63 / 59 / 56	65 / 61 / 59	69 / 67 / 63
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
Net Weight			kg	20.8	20.8	20.8	23.5	25.6	25.6	26.5
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1	PT-UMC1
	Color (RAL Code)			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950	950 x 25 x 950
	Weight		kg	5.6	5.6	5.6	5.6	5.6	5.6	5.6

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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		ARNU24GTP*4	ARNU28GTP*4	ARNU30GTP*4	ARNU36GTN*4	ARNU42GTM*4	ARNU48GTM*4	ARNU54GTM*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						
Front Panel		PT-UMC1						
Ventilation Kit		PTEGM0						
EEV Kit for MULTI V Indoor		PTVK410 / PTVK420 / PTVK430						

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

INDOOR UNIT SPECIFICATION

2 Way CASSETTE

ARNU09GTS*4 / ARNU12GTS*4
ARNU18GTS*4 / ARNU24GTS*4

Model	Independent Unit			ARNU09GTS*4	ARNU12GTS*4	ARNU18GTS*4	ARNU24GTS*4
Capacity	Cooling	Nom	kW	2.8	3.6	5.6	7.1
	Heating	Nom	kW	3.2	4.0	6.3	8.0
Power Input	Cooling / Heating	Nom 1)	W	28	30	34	40
	Cooling / Heating	Rated 2)	W	70	70	70	70
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m^3/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.4	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Heating	H / M / L	m^3/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.4	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
Sound Pressure		H / M / L	dBA	33 / 31 / 30	34 / 32 / 31	35 / 33 / 31	40 / 37 / 33
Sound Power		H / M / L	dBA	42 / 40 / 38	43 / 41 / 39	44 / 43 / 41	49 / 46 / 41
Dimensions	Body	W x H x D	mm	830 × 225 × 600	830 × 225 × 600	830 × 225 × 600	830 × 225 × 600
Net Weight			kg	18.1	18.1	18.1	18.1
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-USC	PT-USC	PT-USC	PT-USC
	Color			Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)	Morning Fog (RAL 120-4)
	Dimensions	W x H x D	mm	1,100 x 33 x 690	1,100 x 33 x 690	1,100 x 33 x 690	1,100 x 33 x 690
	Weight		kg	4.65	4.65	4.65	4.65

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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		ARNU09GTS*4	ARNU12GTS*4	ARNU18GTS*4	ARNU24GTS*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			
Front Panel		PT-USC			
EEV Kit for MULTI V Indoor		PRGK024A0		-	

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

INDOOR UNIT SPECIFICATION

1 Way CASSETTE

ARNU07GTU*4 / ARNU09GTU*4 / ARNU12GTU*4
ARNU18GTT*4 / ARNU24GTT*4

A : Basic / C : Plasma

Model	Independent Unit			ARNU07GTU*4	ARNU09GTU*4	ARNU12GTU*4	ARNU18GTT*4	ARNU24GTT*4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	6.3	7.1
Power Input	Cooling / Heating	Nom 1)	W	20	22	24	38	51
	Cooling / Heating	Rated 2)	W	40	40	40	70	70
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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
	Heating	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
Sound Pressure		H / M / L	dBA	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power		H / M / L	dBA	50 / 47 / 43	53 / 52 / 50	57 / 53 / 50	59 / 56 / 54	62 / 59 / 55
Dimensions	Body	W x H x D	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
Net Weight			kg	13.6	13.6	13.6	15.6	15.6
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0
Decoration Panel	Model			PT-UUC (Grill) / PT-UUD (Panel)	PT-UUC (Grill) / PT-UUD (Panel)	PT-UUC (Grill) / PT-UUD (Panel)	PT-UTC (Grill) / PT-UTD (Panel)	PT-UTC (Grill) / PT-UTD (Panel)
	Color (RAL Code)			Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)	Noble White (RAL 110-1)
	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	1,420 x 34 x 500	1,420 x 34 x 500
	Weight		kg	4.6	4.6	4.6	5.5	5.5

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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		ARNU07GTU*4	ARNU09GTU*4	ARNU12GTU*4	ARNU18GTT*4	ARNU24GTT*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				
Front Panel		PT-UUC (Grill) / PT-UUD (Panel)			PT-UTC (Grill) / PT-UTD (Panel)	
EEV Kit for MULTI V Indoor		PRGK024A0			-	

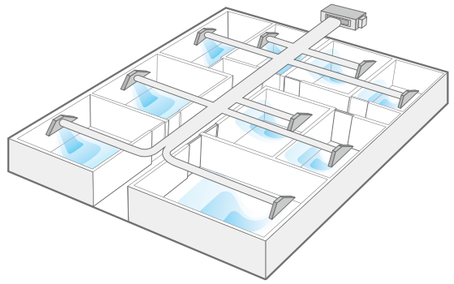
Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
							
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)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

INDOOR UNIT KEY FEATURES

CEILING CONCEALED DUCT

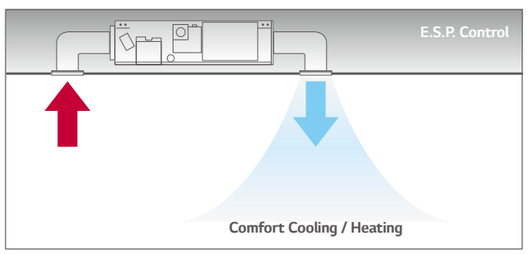
Operation for Multiple Rooms

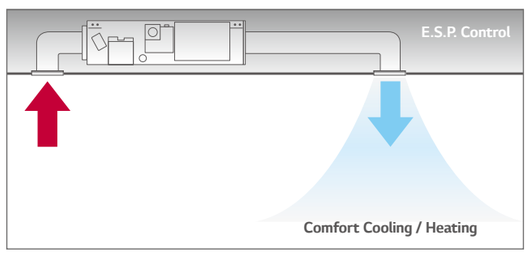
Using a spiral duct (embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



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

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

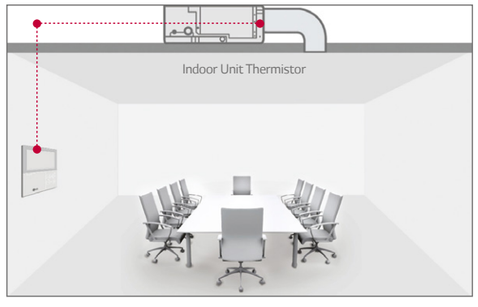




Two Thermistors Control

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.

Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users.

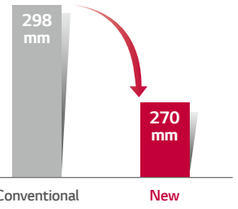


Remote Controller Thermistor

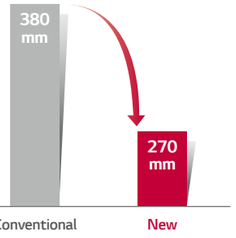
Minimized Height

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

8 / 10kW



12.5kW

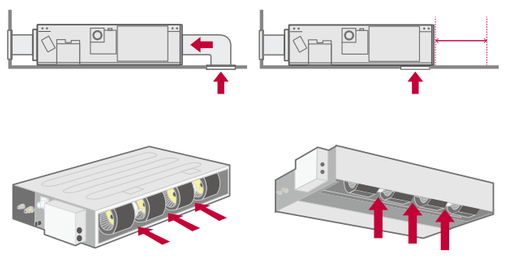


Flexible Installation (Low Static Duct Only)

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

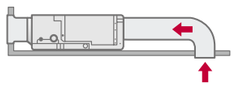
New Low Static Duct

Air intake at the rear or bottom



Conventional

Air intake at the only rear



INDOOR UNIT SPECIFICATION

LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4

Model	Independent Unit			ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Capacity	Cooling	Nom	kW	1.7	2.2	2.8
	Heating	Nom	kW	1.9	2.5	3.2
Power Input	Cooling / Heating	Nom 1)	W	29	31	39
	Cooling / Heating	Rated 2)	W	40	40	40
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
Airflow Rate	Cooling	H / M / L	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	Heating	H / M / L	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
External Static Pressure		Min ~ Max	mmAq(Pa)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)
Sound Pressure		H / M / L	dBA	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power		H / M / L	dBA	47 / 46 / 44	48 / 46 / 44	49 / 47 / 44
Dimensions	Body	W x H x D	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
Net Weight			kg	17.5	17.5	17.5
Piping Connection	Liquid		mm	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7
	Drain	I.D	mm	25.4	25.4	25.4

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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. L1 : The Sound Pressure test condition is based on 20 Pa (Static Pressue) as standard.

ARNU12GL2G4 / ARNU15GL2G4 / ARNU18GL2G4
ARNU21GL3G4 / ARNU24GL3G4

Model	Independent Unit			ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
Capacity	Cooling	Nom	kW	3.6	4.5	5.6	6.2	7.1
	Heating	Nom	kW	4.0	5.0	6.3	7.0	8.0
Power Input	Cooling / Heating	Nom 1)	W	41	56	71	72	103
	Cooling / Heating	Rated 2)	W	85	85	85	115	115
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m^3/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	Heating	H / M / L	m^3/min	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
External Static Pressure		Min ~ Max	mmAq(Pa)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)	0(0) ~ 5(49)
Sound Pressure		H / M / L	dBA	30 / 27 / 25	33 / 30 / 28	35 / 32 / 29	35 / 29 / 28	36 / 33 / 28
Sound Power		H / M / L	dBA	52 / 49 / 46	53 / 52 / 50	54 / 53 / 52	56 / 53 / 51	58 / 54 / 51
Dimensions	Body	W x H x D	mm	900 x 190 x 700	900 x 190 x 700	900 x 190 x 700	1,100 x 190 x 700	1,100 x 190 x 700
Net Weight			kg	23.0	23.0	23.0	27.0	27.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	9.52	9.52
	Gas		mm	12.7	12.7	12.7	15.88	15.88
	Drain	I.D	mm	25.4	25.4	25.4	25.4	25.4

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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 Pressue) as standard.

Accessories

Model		ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
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		PRGK024A0		
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

Accessories

Model		ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4	ARNU21GL3G4	ARNU24GL3G4
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		PRGK024A0			-	
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

INDOOR UNIT SPECIFICATION

MID STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4

Model	Independent Unit			ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Nom	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power Input	Cooling / Heating	Nom [1]	W	39	40	46	67	85	91
	Cooling / Heating	Rated [2]	W	190	190	190	190	190	190
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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
	Heating	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		Min~Max	mmAq(Pa)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)	2(20) ~ 15(147)
Sound Pressure		H / M / L	dBA	26 / 24 / 23	27 / 25 / 23	27 / 25 / 23	30 / 27 / 23	31 / 28 / 25	32 / 29 / 26
Sound Power		H / M / L	dBA	55 / 54 / 51	55 / 54 / 52	55 / 54 / 52	56 / 54 / 53	58 / 56 / 54	59 / 58 / 56
Dimensions	Body	W x H x D	mm	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700	900 × 270 × 700
Net Weight			kg	25.5	25.5	25.5	25.5	25.5	26.5
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas		mm	12.7	12.7	12.7	12.7	12.7	15.88
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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.

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4
ARNU48GM3A4 / ARNU54GM3A4 / ARNU60GM3A4

Model	Independent Unit			ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	ARNU60GM3A4
Capacity	Cooling	Nom	kW	8.2	10.6	12.3	14.1	15.8	17.5
	Heating	Nom	kW	9.2	11.9	13.8	15.9	18.0	19.7
Power Input	Cooling / Heating	Nom [1]	W	123	184	231	172	260	310
	Cooling / Heating	Rated [2]	W	350	350	350	400	400	400
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	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	51.0 / 46.0 / 41.0
	Heating	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	51.0 / 46.0 / 41.0
External Static Pressure		Min~Max	mmAq(Pa)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 15(147)	4(39) ~ 10(98)
Sound Pressure		H / M / L	dBA	36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39	42 / 41 / 40
Sound Power		H / M / L	dBA	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	65 / 61 / 59	66 / 64 / 63	67 / 66 / 65
Dimensions	Body	W x H x D	mm	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 270 × 700	1,250 × 360 × 700	1,250 × 360 × 700	1,250 × 360 × 700
Net Weight			kg	38.0	38.0	39.5	44.0	44.0	44.0
Piping Connection	Liquid		mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		mm	15.88	15.88	15.88	15.88	19.05	19.05
	Drain	I.D	mm	25.0	25.0	25.0	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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

Model		ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
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		PRGK024A0					-
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

Accessories

Model		ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4	ARNU60GM3A4
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

INDOOR UNIT SPECIFICATION

HIGH STATIC

ARNU07GBHA4 / ARNU09GBHA4 / ARNU12GBHA4
ARNU15GBHA4 / ARNU18GBHA4 / ARNU24GBHA4

Model	Independent Unit			ARNU07GBHA4	ARNU09GBHA4	ARNU12GBHA4	ARNU15GBHA4	ARNU18GBHA4	ARNU24GBHA4
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		kW	2.5	3.2	4	5	6.3	8
Power Input		H / M / L	W	58 / 52 / 49	67 / 58 / 52	78 / 67 / 58	90 / 48 / 58	103 / 90 / 78	132 / 117 / 103
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60
Airflow Rate		H / M / L	CMM	7.3 / 6.3 / 5.6	7.3 / 6.3 / 5.6	8.7 / 7.3 / 5.6	11.0 / 10.1 / 8.7	13.2 / 11.7 / 7.3	17.5 / 14.7 / 12.6
Sound Pressure Levels		H / M / L	dB(A)	26 / 25 / 23	26 / 25 / 23	27 / 26 / 23	28 / 27 / 25	30 / 29 / 26	33 / 31 / 28
Sound Power Levels		H / M / L	dB(A)	51 / 50 / 49	51 / 50 / 49	53 / 52 / 50	54 / 53 / 52	55 / 54 / 53	58 / 57 / 56
Dimensions	Body	W x H x D	mm	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450	882 x 260 x 450
Net Weight	Body		kg(lbs)	26(57.4)	26(57.4)	26(57.4)	26(57.4)	26.5(58.4)	26.5(58.4)
Piping Connection	Liquid Side		mm(inch)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)
	Gas Side		mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drain Pipe(Internal Dia.)		mm(inch)	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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. B8 : The Sound Pressure test condition is based on 220 Pa (High Static Pressue) as standard.

Accessories

Model		ARNU07GBHA4	ARNU09GBHA4	ARNU12GBHA4	ARNU15GBHA4	ARNU18GBHA4	ARNU24GBHA4
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		PRGK024A0					-
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

ARNU28GBHA4 / ARNU36GBGA4 / ARNU42GBGA4 / ARNU48GBGA4
ARNU54GBRA4 / ARNU76GB8A4 / ARNU96GB8A4

Model	Independent Unit			ARNU28GBHA4	ARNU36GBGA4	ARNU42GBGA4	ARNU48GBGA4	ARNU54GBRA4	ARNU76GB8A4	ARNU96GB8A4
Capacity	Cooling		kW	8.2	10.6	12.3	14.1	15.8	22.4	28
	Heating		kW	9.2	11.9	13.8	15.9	18	25.2	31.5
Power Input		H / M / L	W	148 / 129 / 108	235 / 204 / 176	267 / 250 / 235	279 / 242 / 204	490 / 425 / 320	765 / 500 / 500	800 / 750 / 750
Power Supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60
Airflow Rate		H / M / L	CMM	18.3 / 17.3 / 14.8	28.4 / 25.3 / 21.8	32.0 / 28.4 / 27.2	33.9 / 28.7 / 26.3	51.5 / 47.5 / 39.5	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
Sound Pressure Levels		H / M / L	dB(A)	39 / 38 / 36	33 / 31 / 28	36 / 33 / 30	41 / 38 / 37	39 / 37 / 35	45 / 41 / 40	47 / 42 / 41
Sound Power Levels		H / M / L	dB(A)	58 / 57 / 55	58 / 57 / 55	56 / 54 / 53	59 / 56 / 55	59 / 57 / 55	67 / 62 / 60	68 / 64 / 62
Dimensions	Body	W x H x D	mm	882 x 260 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,182 x 298 x 450	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight	Body		kg(lbs)	27.0(59.5)	38(83.8)	38(83.8)	38(83.8)	53(117)	87(192)	87(192)
Piping Connection	Liquid Side		mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side		mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	19.05(3/4)	22.2(7/8)
	Drain Pipe(Internal Dia.)		mm(inch)	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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. B8 : The Sound Pressure test condition is based on 220 Pa (High Static Pressue) as standard.

Accessories

Model		ARNU28GBHA4	ARNU36GBGA4	ARNU42GBGA4	ARNU48GBGA4	ARNU54GBRA4	ARNU76GB8A4	ARNU96GB8A4
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

INDOOR UNIT

COMPATIBILITY

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

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

Wired Remote Controller					Centralized Controller				
Premium (PREMTA000 PREMTA000A PREMTA000B)	Standard III (PREMTB100) (PREMTB10)	Standard II (PREMTBB01) (PREMTB001)	Simple		AC EZ (PQCSZ250S0)	AC EZ Touch (PACEZA000)	AC Smart IV (PACS4B000)	ACP IV (PACP4B000)	AC Manager IV (PACM4B000)
			Simple for Hotel (PQRCHCA0Q / QW)	Simple (PQRCVCL0Q / QW)					
•	•	•	X	X	X	•	•	•	•
					X	•	•	•	•
•	•	X	X	X	X	•	•	•	•
•	•	X	X	X	X	•	•	•	•
•	•	•	X	X					
•	•	•	X	X					
•	•	•	X	X					
•	•	•	X	X					
•	•	•	X	X					
•	•	•	X	X					
• (4 step)	• (4 step)	• (3 step)	• (3 step)	• (3 step)					
•	•	•	•	•					
X	•	•	X	X					
•	•	•	X	X					
•	•	•	X	X					
X	•	X	X	X					
X	•	X	X	X					
X	•	X	X	X					
X	•	X	X	X					
X	•	X	X	X					

X : Not included this function in the Controller

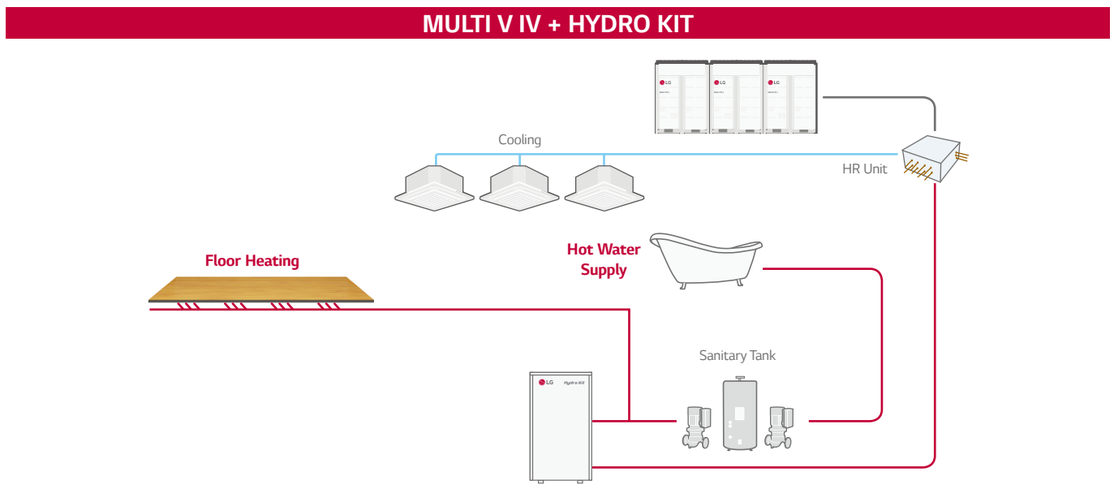
HOT WATER SOLUTION

Hydro Kit

HYDRO KIT

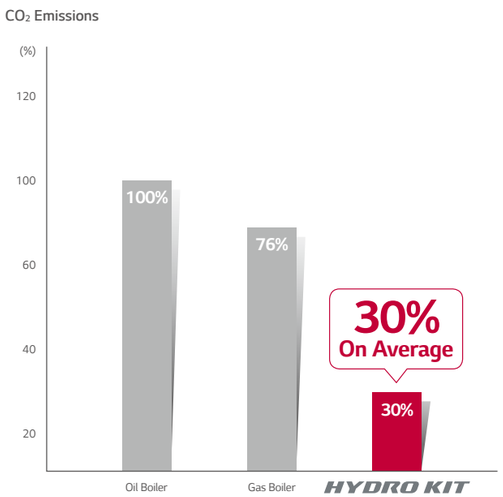
Easy Installation

Easy to install as it uses a compact and modular structure.



Eco-friendly Green Energy Solution

Green energy solution through the reduction of CO_2 emmisions.



Saving Cost through High Efficiency

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

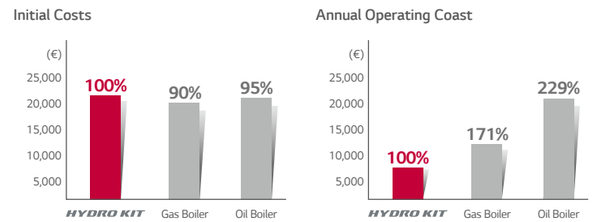
1st Proposal MULTI V IV HYDRO KIT
(Air Conditioning + Hot Water Supply + Floor Heating)

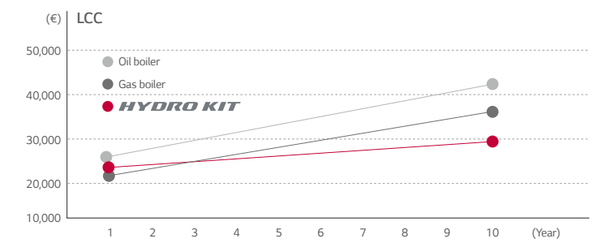
2nd Proposal MULTI V IV Air-Conditioning + Gas Boiler
(Hot Water Supply + Floor Heating)

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

Analysis Conditions

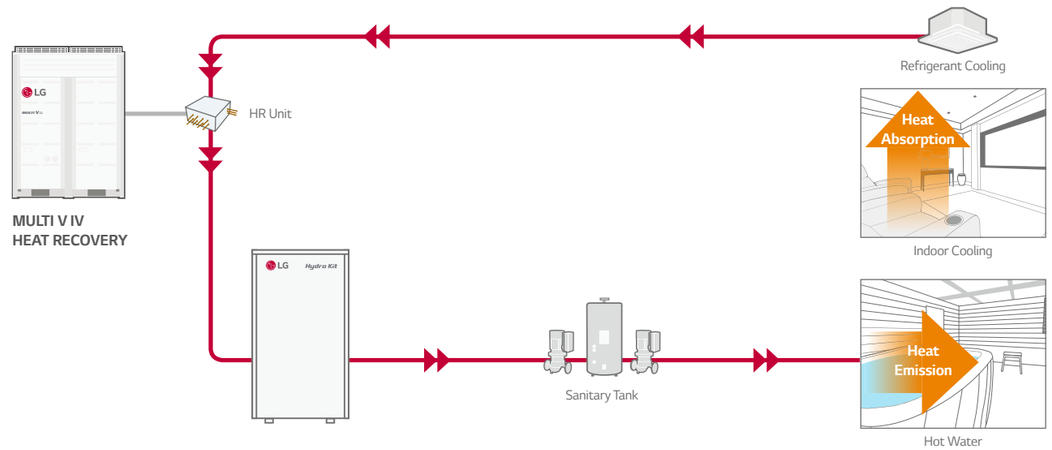
- Building Type : Dormitory, Flats
- Cooling / Floor Heating / Sanitary Hot Water for 10 years
- Cooling : MULTI V IV Indoor Unit
- Floor Heating : Medium Temp. HYDRO KIT (1ea)
- Sanitary Hot Water : High Temp. HYDRO KIT (2ea), Sanitary Hot Water Tanks
- Electricity Cost : Average Cost in EU
- Gas Cost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





Energy Saving through MULTI V IV Heat Recovery

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



HOT WATER SOLUTION KEY FEATURES

HYDRO KIT

Various Applications

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

Office

University / School

Hospital / Clinic

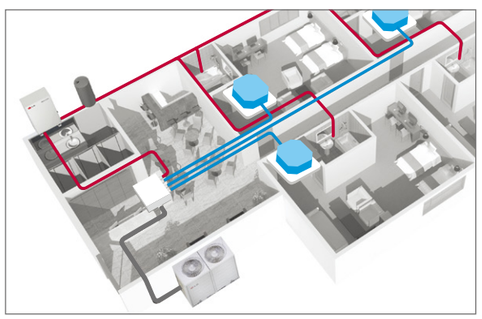
Shopping Mall / Restaurant

Hotel / Resort

Factory Facilities

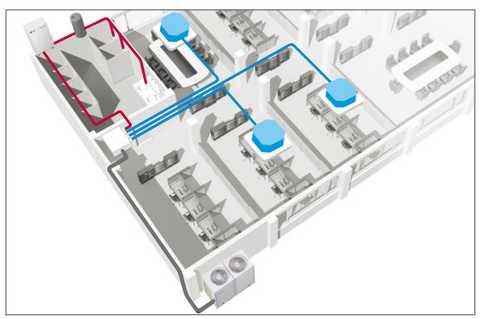
Hotel Application

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



Office Application

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



HOT WATER SOLUTION SPECIFICATION

HYDRO KIT

ARNH04GK2A4 / ARNH10GK2A4

Type				Low Temp.	Low Temp.
Model				ARNH04GK2A4	ARNH10GK2A4
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Capacity (Rated)	Cooling		kW	12.3	28.0
	Heating		kW	13.8	31.5
Power Input	Cooling	Nomal	kW	0.01	0.01
	Heating	Nomal	kW	0.01	0.01
Water Outlet Temperature	Cooling	Min	°C	5°C	5°C
	Heating	Max	°C	50°C	50°C
Casing				Painted Steel Plate	Painted Steel Plate
Dimensions	Body	W x H x D	mm	520 × 631 × 330	520 × 631 × 330
			inch	20-15 / 32 x 24-27 / 32 x13	20-15 / 32 x 24-27 / 32 x13
Net Weight			kg (lbs)	30.5 (67)	35.0 (77.2)
Heat Exchanger	Refrigerant to Water	Type		Brazed Plate HEX	Brazed Plate HEX
		Rated Water Flow	L/min	39.6	92.0
		Head Loss	kPa	41.0	69.0
	Refrigerant to Refrigerant	Type		-	-
Compressor		Type		-	-
Piping Connections	Water Side	Inlet	inch	Male PT 1	Male PT 1
		Outlet	inch	Male PT 1	Male PT 1
	Refrigerant Side	Liquid Side	mm (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Side	mm (inch)	15.88 (5/8)	22.2 (7/8)
Drain Piping Connection			mm (inch)	Male PT 1	Male PT 1
Sound Pressure Level	Cooling		dB (A)	26	26
	Heating		dB (A)	26	26
Refrigerant	Refrigerant to Refrigerant	Refrigerant Type		-	-
		Control		-	-
	Refrigerant to Water	Refrigerant Type		R410A	R410A
		Precharged Amount	kg (lbs)	-	-
		Control		EEV	EEV
Operation Range	Conntected to Heat Pump	Cooling	°C (DB)	10°C ~ 43°C	10°C ~ 43°C
		Heating	°C (DB)	-20°C ~ 35°C	-20°C ~ 35°C
	Conntected to Heat Recovery	Cooling	°C (DB)	10°C ~ 43°C	10°C ~ 43°C
		Heating	°C (DB)	-20°C ~ 43°C	-20°C ~ 43°C
Combination Ratio	Only Hydrokit	Min ~ Max	%	50 ~ 100	50 ~ 100
	Hydrokit + Standard IDUs	Min ~ Max	%	50 ~ 130	50 ~ 130

*** This product contains Fluorinated Greenhouse Gases. (R410A)**

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

- Cooling : Indoor 27°C (80.6°F) DB / 19° C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB, Water Inlet 23°C (73.4°F) / Outlet 18°C (64.4°F)

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

2. Piping Length : Interconnected Pipe Length = 7.5m

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

4. MULTI V S 4HP (ARUN040GSS0, ARUN040LSS0) cannot be connected to Hydro Kit.

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

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

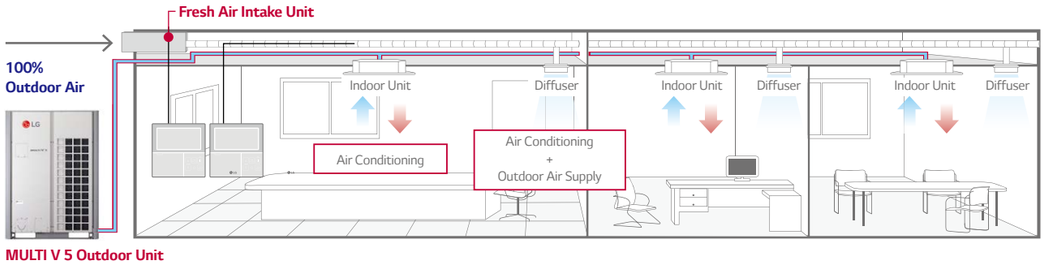
VENTILATION SOLUTION

Fresh Air Intake Unit ERV

FRESH AIR INTAKE UNIT

Fresh Outdoor Air Supply

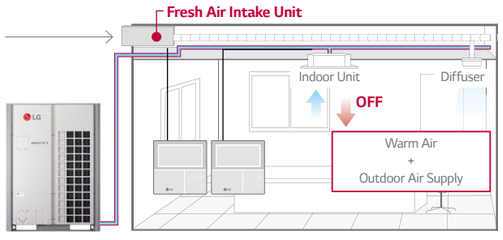
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated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



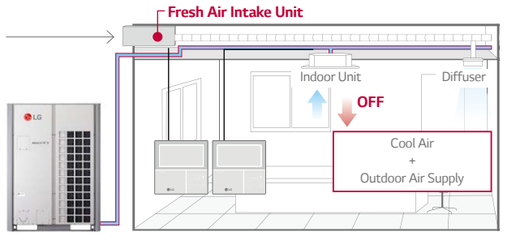
Economic Operation

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

Spring Season



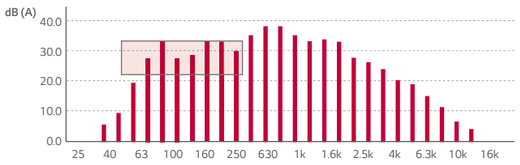
Autumn Season



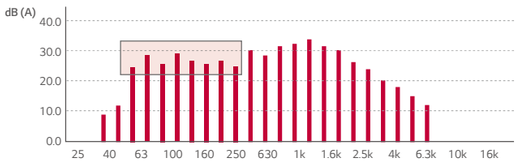
BLDC Fan Motor

It can reduce a noise at low frequencies.

AC Tap Motor



BLDC Motor



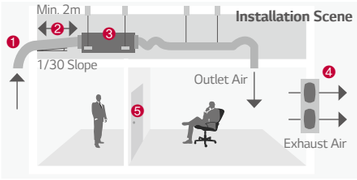
VENTILATION SOLUTION KEY FEATURES
FRESH AIR INTAKE UNIT

ARNU48GBRZ4 / ARNU76GB8Z4 / ARNU96GB8Z4



Model	Independent Unit			ARNU48GBRZ4	ARNU76GB8Z4	ARNU96GB8Z4
Capacity	Cooling	Nom	kW	14.1	22.4	28.0
	Heating	Nom	kW	13.5	21.4	26.7
Power Input	Cooling / Heating	Nom [1]	W	169	253	360
	Cooling / Heating	Rated [2]	W	169	360	360
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
Airflow Rate	Cooling	H / M / L	m^3/min	18.8 / 14.7 / 14.7	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
	Heating	H / M / L	m^3/min	18.8 / 14.7 / 14.7	23.7 / 13.2 / 13.2	35.7 / 23.7 / 23.7
Sound Pressure		H / M / L	dBA	41 / 40 / 38	45 / 43 / 43	47 / 45 / 45
Sound Power		H / M / L	dBA	62 / 63 / 62	70 / 67 / 67	72 / 68 / 68
Dimensions	Body	W x H x D	mm	1,230 x 380 x 590	1,562 x 460 x 688	1,562 x 460 x 688
Net Weight			kg	45.0	73.0	73.0
Piping Connection	Liquid		mm	9.52	9.52	9.52
	Gas		mm	15.88	19.05	22.2
	Drain	I.D	mm	25.0	25.0	25.0

* This product contains Fluorinated Greenhouse Gases. (R410A)
1) Nom. : Performance tested under EN14511
2) 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 capcity of fresh air intak 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

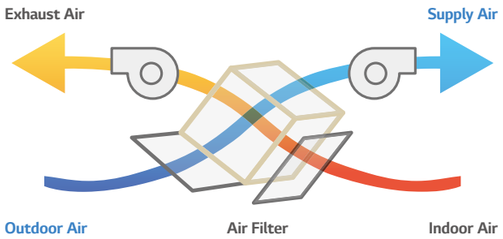
Model		ARNU48GBRZ4	ARNU76GB8Z4	ARNU96GB8Z4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000		
	2 Contact Point	PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		
IR Receiver		PWLRVN000		

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

ERV

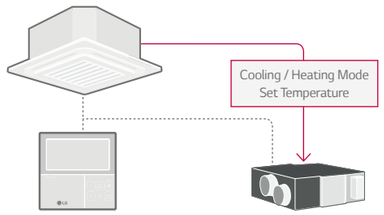
High Efficiency Heat Exchanger

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.



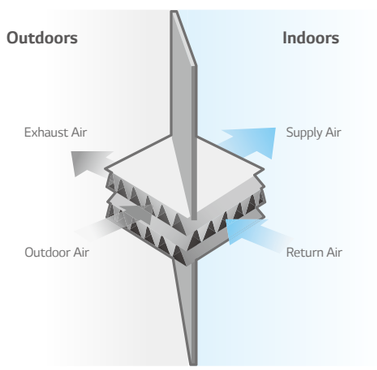
Interlocking with Air Conditioning System

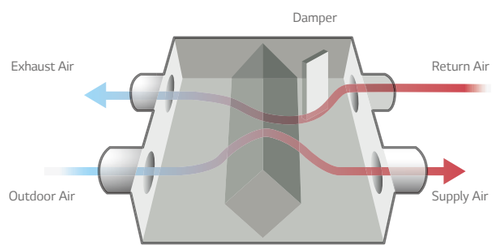
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with a remote control.



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.



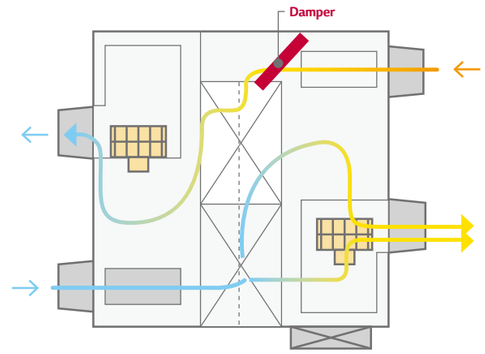


Total Heat Exchanger

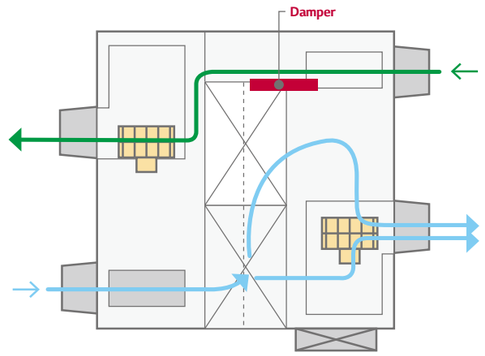
Bypass Ventilation

LG ERV automatically switches the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor / outdoor temperature.

Enthalpy Heat Exchange Mode (Summer / Winter)



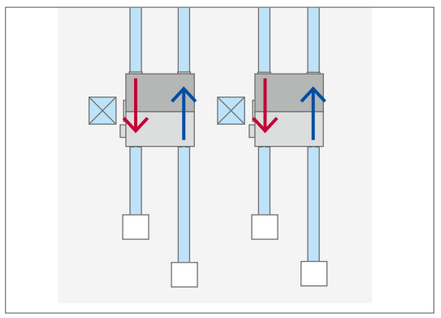
Bypass Mode (Seasonal Change)



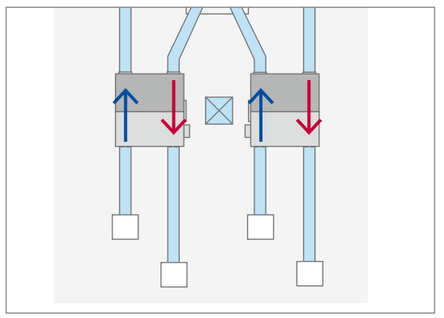
Flexibility of Installation

It's possible to install upside down when you need only one inspection hole.

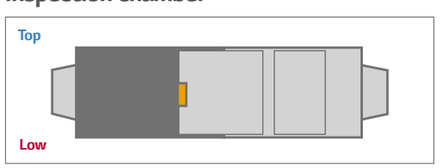
Normal installation of 2 units



Reverse installation of 1 unit (Left unit)



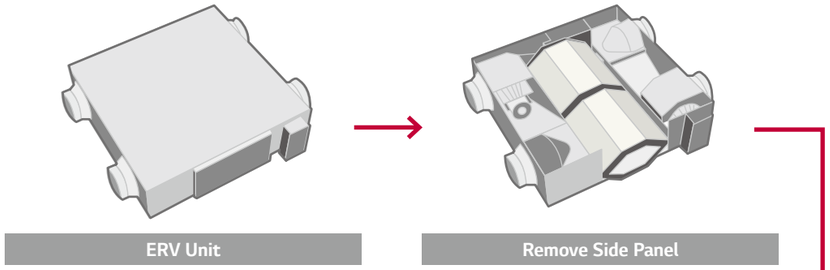
Inspection chamber



ERV

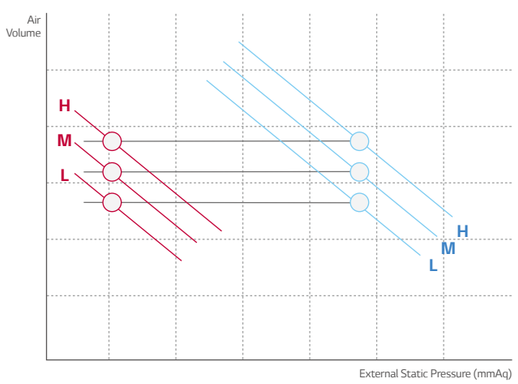
Easy Cleaning and Filter Change

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



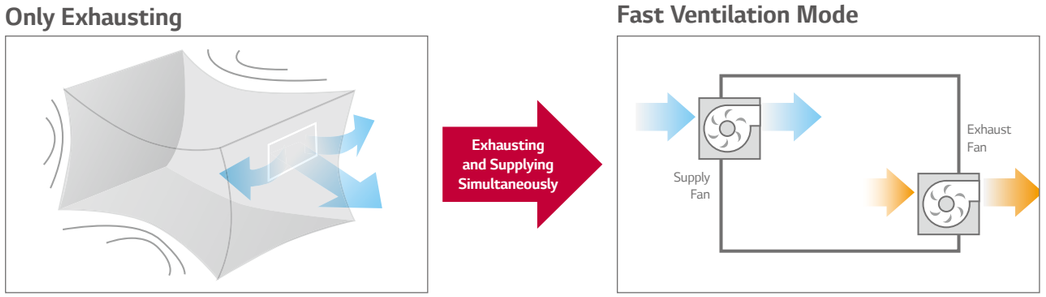
External Static Pressure Control

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

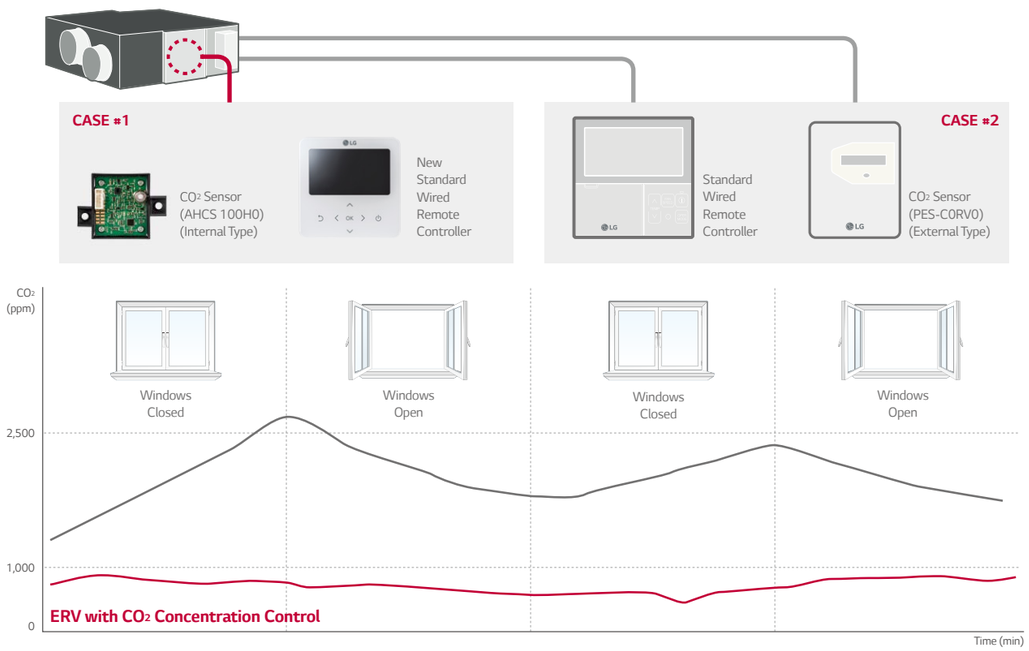
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.



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

CO_2 Concentration Control

Using CO_2 sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO_2 concentration.



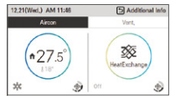
ERV

New Easy Controller

New wired remote controller is easy for usage.

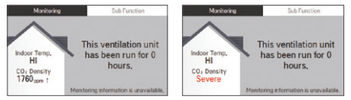
Easy!

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



Convenient!

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

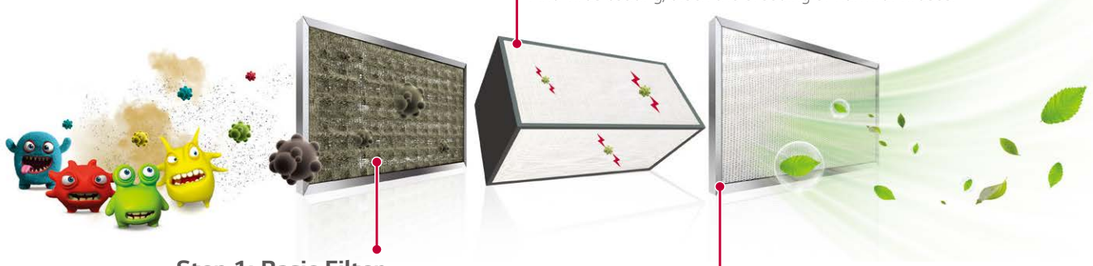


Visible!

- Indoor CO_2 level
- Alarm for filter change / Remained time to change filters

Air Purifying System (3 Steps)

LG ERV can effectively remove the various harmful substances, such as micro dust and viruses.
Possible selection of the high efficiency filter(F7) for micro dust removed.



Step 1: Basic Filter

Installed front and behind of heat exchanger

Step 2: Heat Exchanger

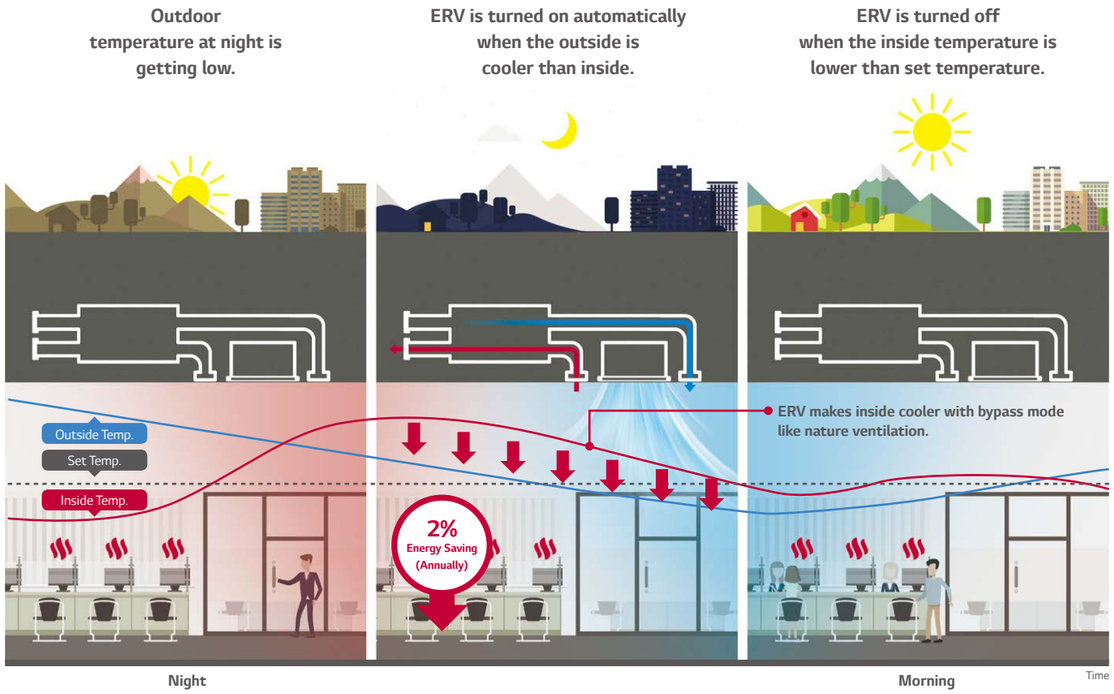
Anti virus coating, block the breeding of harmful viruses.

Step 3: High Efficiency Filter (F7)

F7 filter blocks 80 ~ 90% of dust sized 0.4μm. (EN 779 : 2012)
Installed in front of heat exchanger. (option)

Night Time 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 vary with condition.
*** Available only with Standard III

- Test Condition
  - Office (49,000 ft^2) / Occupancy : 30 / Area : London, UK
  - ERV (1 000 CMH) + MULTI V 4 (12 HP) Unit Combination
  - Other conditions are subject to BREEAM.
    (Building Research Establishment's Environmental Assessment Method)

ERV

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	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	68 / 68 / 70	73 / 73 / 75
		Cooling (SH / H / L)	%	66 / 66 / 68	63 / 63 / 65	66 / 66 / 69
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 28 / 24	32 / 30 / 27	34 / 32 / 25
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 29 / 25	32 / 30 / 27	35 / 33 / 25
Heat 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	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		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	PREMTBB10	PREMTBB01	PREMTB001	PES-C0RV0 (External Type)	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	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	79 / 79 / 82	77 / 77 / 78	79 / 79 / 82	77 / 77 / 78
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	72 / 72 / 74	70 / 70 / 72	72 / 72 / 74	70 / 70 / 72
		Cooling (SH / H / L)	%	63 / 63 / 66	59 / 59 / 63	63 / 63 / 66	59 / 59 / 63
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	40 / 37 / 31	41 / 38 / 32	43 / 40 / 34	44 / 41 / 35
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW			
	Current	SH / H / L	Amps	2.77 / 2.16 / 1.44	3.41 / 2.90 / 1.76	5.60 / 5.40 / 2.90	6.80 / 5.90 / 3.60
	Power Input	SH / H / L	W	390 / 280 / 187	480 / 385 / 210	780 / 540 / 377	960 / 770 / 420
	Air Flow	SH / H / L	CMH (CFM)	800 / 800 / 660 (471 / 471 / 388)	1,000 / 1,000 / 800 (589 / 589 / 471)	1,500 / 1,500 / 1,200 (883 / 883 / 706)	2,000 / 2,000 / 1,600 (1,177 / 1,177 / 942)
	External Static Pressure	SH / H / L	Pa (inWTR)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)	200 / 110 / 60 (0.80 / 0.44 / 0.24)	160 / 90 / 50 (0.64 / 0.36 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	41 / 38 / 32	41 / 39 / 33	44 / 41 / 35	44 / 42 / 36
Heat 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.
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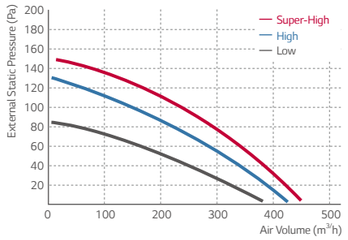
Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.
7. F7 Filter is 2 pieces in 1 filter package

Premium	Standard III		Standard II		CO_2 Sensor	
						
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTBB10	PREMTBB01	PREMTB001	PES-C0RV0 (External Type)	AHCS100H0 (Internal Type)

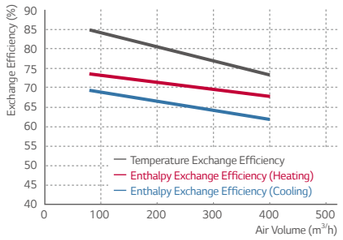
ERV

LZ-H025GBA4

Ventilation

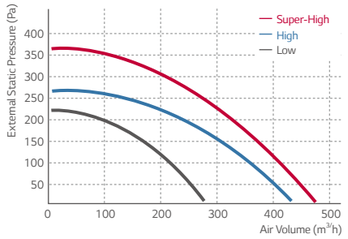


Efficiency

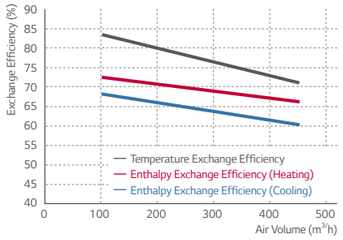


LZ-H035GBA4

Ventilation

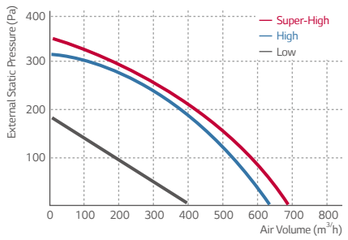


Efficiency

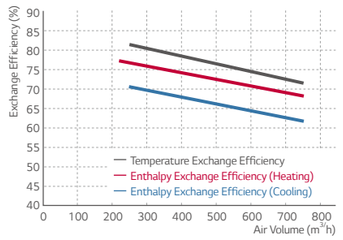


LZ-H050GBA4

Ventilation

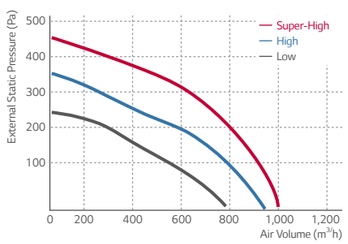


Efficiency

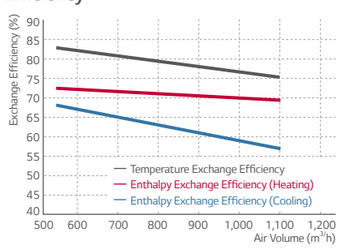


LZ-H080GBA4

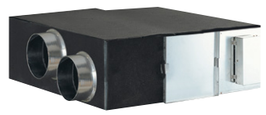
Ventilation



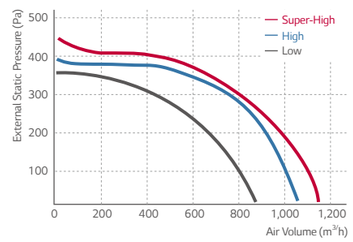
Efficiency



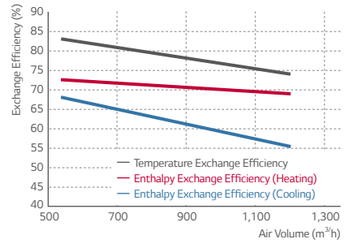
LZ-H100GBA4



Ventilation

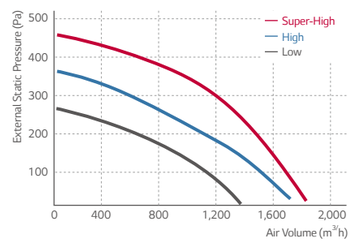


Efficiency

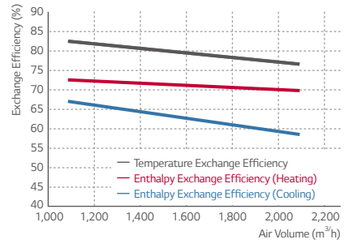


LZ-H150GBA4

Ventilation

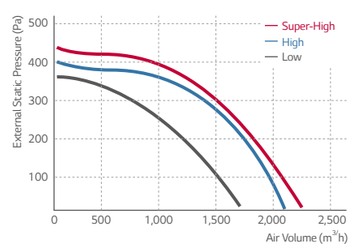


Efficiency

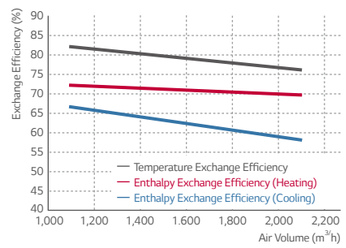


LZ-H200GBA4

Ventilation



Efficiency



CONTROL SOLUTION

Individual Control
System Integration Device

Centralized Control
Other Integration Control Solution

CONTROL SOLUTION

LG HVAC CONTROL LINE-UP

Individual Control

Wired Remote Controller

Premium

PREMTA000
PREMTA000A
PREMTA000B

Standard

Standard III (White)

PREMTB100

Standard III (Black)

PREMTBB10

Standard II (White)

PREMTB001

Standard II (Black)

PREMTBB01

Simple

PQRCVCL0QW

PQRCVCL0Q

PQRCHCA0QW
(Simple for Hotel)

PQRCHCA0Q
(Simple for Hotel)

Wireless Remote Controller

PQWRHQ0FDB

Wi-Fi controller

NEW! LG Wi-Fi Modem

For Indoor Unit
PWFMDD200*

Centralized Control

Indoor Unit ~ 32

AC Ez

PQCSZ250S0

Indoor Unit ~ 64

AC Ez Touch

PACEZA000

Indoor Unit ~ 128

AC Smart IV

PACS4B000

NEW! AC Smart 5

PACS5A000*

Indoor Unit ~ 256

ACP IV

PACP4B000

NEW! ACP 5

PACP5A000**

Indoor Unit ~ 8,192

AC Manager 5

PACM5A000

※ AC Smart IV & AC Smart BACnet will be replaced by AC Smart 5
※ ACP IV & ACP BACnet will be replaced by ACP 5
※ KNX Gateway is provided by INTESIS
* Launching in May
** Launching in Augustv

Centralized Control

System Integration Device

Facility Integrator

PDI
(Power Distribution Indicator)

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

ACS I/O Module
(Input / Output Module)

PEXPMB000

Chiller Option Kit

PCHILLN000

Gateway for Protocol

AC Smart BACnet

PBACNA000

ACP BACnet

PQNFB17C0

ACP Lonworks

PLNWKB000

NEW! Modbus RTU Gateway

PMBUSB00A**

KNX Gateway

LG-AC-KNX4
LG-AC-KNX8
LG-AC-KNX16
LG-AC-KNX64

PI-485

PI-485

For SINGLE /
MULTI / THERMA V
PMNFP14A1

For Indoor Unit
(Air-Conditioner, ERV)
PHNFP14A0

Other Integration Device

Indoor Unit

Dry Contact

Simple Dry Contact
PDRYCB000

2 Points Dry Contact
(For Setback)
PDRYCB400

Dry Contact for
Thermostat
PDRYCB300

For Modbus
PDRYCB500

Control Accessory

Group Control Wire

PZCWRCG3

Remote
Temperature Sensor

PQRSTA0

Zone Controller

4 Zones by
thermostat ABZCA

Outdoor Unit

IO Module
(Input / Output Module)

Demand Controller
For MULTI V IV/5
PVDSMN000

Dry Contact for
Demand Control

Demand Controller for
MULTI V III
PQDSBCDVM0

Variable Water Flow
Control kit

For MULTI V WATER IV
PWFCKN000

For MULTI V WATER II
PRVCO

Cool / Heat Selector

PRDSBM

AHU Kit

NEW! Communication Kit

Return/Room Air control
PAHCMR000

NEW!

Discharge Air control
PAHCMS000

Control kit

PRCKD21E (~ 4 ODUs)
PRCKD41E (~ 8 ODUs)

EEV Kit
(Electronic Expansion Valve)

PRLK048A0 (~ 10HP)
PRLK096A0 (~ 20HP)

TXV Kit
(Thermal Expansion Valve)

PATX13A0E (8 ~ 16HP)
PATX20A0E (18 ~ 26HP)
PATX25A0E (28 ~ 36 HP)
PATX35A0E (38 ~ 46 HP)
PATX50A0E (48~56 HP)

INDIVIDUAL CONTROL SOLUTION

LINE-UP

Standard III Wired Remote controller

Simple Wired Remote Controller

Premium Wired Remote Controller

Wireless Remote Controller

Standard II Wired Remote Controller

Wi-Fi Controller

Remote Controller Line Up

Model Name	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0QW PQRCVCL0Q PQRCHCA0QW PQRCHCA0Q	PQWRHQ0FDB	PWFMDD200
						
On / Off	•	•	•	•	•	•
Mode Change	•	•	•	•*	•	•
Temperature Setting	•	•	•	•	•	•
Fan Speed Control	•	•	•	•	•	•
Auto Swing	•	•	•	•*	•	•
Vane Control (Louver Direction)	•	•	•	•*	•	•
Additional Mode Setting	•	•	•	•	•	-
E.S.P (External Static Pressure)	•	•	•	•	-	-
Reservation	Weekly / Yearly	Weekly / Yearly	Weekly	-	Sleep, On / Off	Weekly On / Off
Child lock / Total Lock	•	•	•	•	-	-
Advanced Lock (on/off, mode, set point range)	•	•	Mode only	-	-	-
Electric Failure Compensation	•	•	•	•*	-	•
Time Display	•	•	•	-	-	-
Filter Sign	•	•	•	-	-	•
Energy Monitoring**	•	•	•	-	-	•
2 Set Points Control	•	•	-	-	-	-
External Ports	-	DO 1	-	-	-	-

• Indoor unit needs to have functions requested by the controller
* PQRCHCA0QW / PQRCHCA0Q doesn't offer this function
** LG centralized controller(available from AC Ez Touch or higher model) with PDI (PQNUD1S40 / PPWRDB000) installation is required for this function

STANDARD III WIRED REMOTE CONTROLLER

4.3 inch Color screen with a modern design

PREMTB100 (White) / PREMTBB10 (Black)

Features [1)]

The Optimized Controller in MULTI V 5

- Humidity sensor embedded
- Comfort cooling setting
- Smart Load Control setting
- Outdoor unit low noise setting
- Defrost mode setting

New Modern Design & Easy interface

- Seamless design / Touch button
- 4.3 inch Color LCD / Intuitive GUI

External Device On/Off

- Customized Interlocking control with indoor status

2 Set Points control [2)]

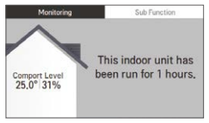
Multi Language support

English, French, German, Spanish, Italian, Portuguese, Polish, Czech, Russian, Chinese

Model Name	PREMTB100 / PREMTBB10
On / Off	•
Fan Speed Control	•
Temperature Setting	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting*	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	•
Vane Control (Louver direction)	•
E.S.P (External Static Pressure)**	•
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	•
Electric Failure Compensation	•
Lock	All / On & Off / Mode / Set temperature range
Filter Sign	• (Remain time + Alarm)
Energy Management	Check Energy Usage*** / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	•
Indoor Temperature Display	•
Indoor Humidity Display	•
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black light for Screen saver	•
Home Leave	2 set points control

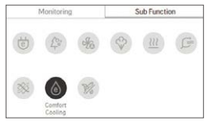
*It might not be indicated or operated at the partial product
** This function is available for certain indoor unit type
*** LG centralized controller(available from AC Ez Touch or higher model) with PDI (PQNUD1S40 / PPWRDB000) installation is required for this function
1) Indoor unit needs to have functions requested by the controller
2) 2 set points control works normally with MULT V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly

Fully Support MULTI V 5 functions



Inside Dual Sensing

Standard III remote controller can do sensing both Temperature and Relative Humidity.



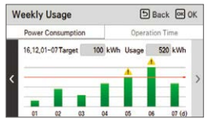
Comfort Cooling

Without cooling operation stopping, this function allows MULTI V 5 IDU to maintain operation at mild cooling mode.

Modern Design & Intuitive Interface

Colorful Icon

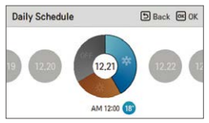
Standard III remote controller is possible to express various colors.



Weekly / Monthly / Yearly Trend & Target Setting control

Standard III remote controller provides convenient trend & target graph for different period.

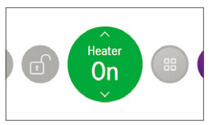
Cool Heat Dry Fan Auto



Easy Checking Schedule

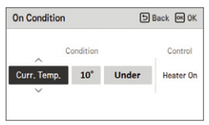
Standard III remote controller provides clock type daily schedule.

External Device On/Off



External Equipment Control

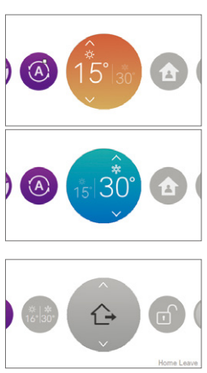
User can turn on or off the external equipment through contact point output.



Customized Interlocking Control

User can make control scenario.
example) When temperature is under 10 degree, turn on the external heater.

2 Set Points Control

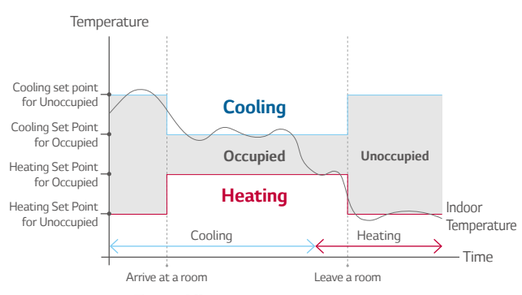


2 Set Points Control

Ambient indoor temperature is guaranteed by setting two-point temperature for cooling and heating. Standard III remote controller automatically changes from heating to cooling (and vice versa) depending on temperature.

Home Leave

Changeable setting for occupied / unoccupied status



INDIVIDUAL CONTROL SOLUTION

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design

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

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

Features [4]

Self-Management for Energy Saving

- Time limit operation / Power consumption monitoring
- Weekly / Monthly / Yearly trend tracking
- Target alert alarm
- Temperature range setting

Design with User's Convenience

- Full touch / Intuitive GUI (Graphic User Interface)
- Main display simple mode / Touch buzzer

Improved Scheduling

- Timer / Daily / Weekly / Yearly / Holiday

2 Set Points Control [5]

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

*It might not be indicated or operated at the partial product
** This function is available for certain indoor unit type
*** LG centralized controller(available from AC Ez Touch or higher model) with PDI (PQNUD1S40 / PPWRDB000) installation is required for this function
**** For ceiling type duct
4) Indoor unit needs to have functions requested by the controller
5) 2 set points control works normally with MULT V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly

Energy Management

Self Energy Management

After it gathers information about usage time or electricity usage*, offer periodical history data to users as visual information. By using various setting mode (operation hour / electricity usage etc.), you can manage on your own.

Weekly / Monthly / Yearly Trend & Target Setting Control

Premium remote controller provides convenient trend & target graph for different period.

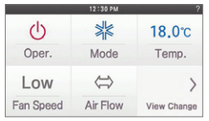
*** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function**

User Friendly Design

Standard Mode

Intuitive UI & GUI Design

It is more easy to use and control various functions.



Simple Mode

Display Configuration

Users can use of five buttons as shortcuts for frequently used features.

Enhanced Schedule Function

Yearly Schedule

Yearly / Weekly Schedule Function

If you set the schedule all at once, you will be able to effectively manage for various lengths of time. It provides 5 kinds of reservation functions. (Timer, Daily, Weekly, Yearly, Holiday)

Weekly Schedule Pattern

Easy Pattern Schedule

It is possible to embody various schedules as pattern setting.

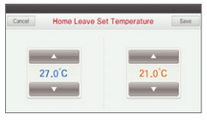
Weekly Schedule

*** Available to save up to a maximum of 20 error histories, 20 holiday reservations and 5 daily event on week**

2 Set Points Control

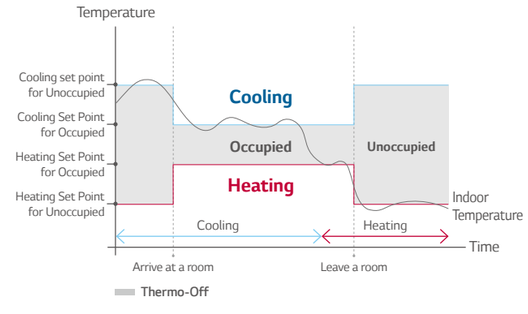
2 Set Points Control

Ambient indoor temperature is guaranteed by setting two-point temperature for cooling and heating. New Standard III remote automatically changes from heating to cooling (and vice versa) depending on temperature.



Home Leave

Changeable setting for occupied / unoccupied status



INDIVIDUAL CONTROL SOLUTION

STANDARD II WIRED REMOTE CONTROLLER

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

Standard II
PREMTB001 (White) / PREMTBB01 (Black)

Features[1)]

Model Name	PREMTB001 / PREMTBB01
On / Off	•
Fan Speed Control	•
Temperature Setting	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	•
Vane Control (Louver direction)	•
E.S.P (External Static Pressure)	•
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	•
Electric Failure Compensation	•
Child Lock	•
Filter Sign	• (Remain time + Alarm)
Operation Status LED	•
Indoor Temperature Display	•
Wireless Remote Controller Receiver	•*
Size (W x H x D, mm)	120 x 121 x 16
Blacklight	•
Power Consumption Monitoring	•**
Check Model Information	•

*** For ceiling type duct**
**** LG centralized controller(available from AC Ez Touch or higher model) with PDI (PQNUD1S40 / PPWRDB000) installation is required for this function**
1) Indoor unit needs to have functions requested by the controller

INDIVIDUAL CONTROL SOLUTION

SIMPLE WIRED REMOTE CONTROLLER

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

Simple

Simple for Hotel

Simple
PQRCVCL0QW (White) / PQRCVCL0Q (Black)

Simple for Hotel
PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Features[1)]

Model Name	PQRCVCL0QW / PQRCVCL0Q	PQRCHCA0QW / PQRCHCA0Q
On / Off	•	•
Fan Speed Control	•	•
Temperature Setting	•	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	Only Changeable by Central Controller
Auto Swing	•	-
Vane Control (Louver direction)	•	-
E.S.P (External Static Pressure)	•	•
Electric Failure Compensation	•	-
Child Lock	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	•*	•*
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	•	•

*** For ceiling type duct**
1) Indoor unit needs to have functions requested by the controller

INDIVIDUAL CONTROL SOLUTION

WIRELESS REMOTE CONTROLLER

PQWRHQ0FDB

Features

Model Name	PQWRHQ0FDB
On / Off	•
Fan Speed Control	•
Temperature Setting	•
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	•
Vane Control (Louver direction)	•
Reservation	Sleep / On / Off
Indoor Temperature Display	•
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

INDIVIDUAL CONTROL SOLUTION

LG Wi-Fi MODEM

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

PWFMDD200

Features

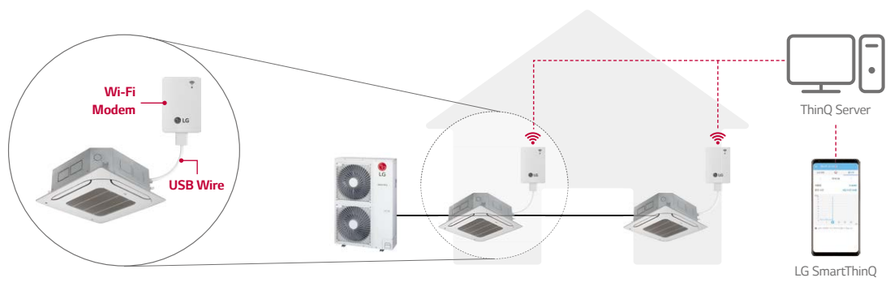
- **Access LG air conditioner anytime and from anywhere with Wi-Fi equipped device**
- **LG's exclusive Home Appliances control app(SmartThinQ) is available**
- **Simple operation for various functions**
  - On/Off
  - Fan Speed
  - Energy Monitoring [1)]
  - Operation Mode
  - Vane Control [2)]
  - Filter Management
  - Current/Set Temperature
  - Reservation (Sleep, Weekly On/Off)
  - Error check

Model Name	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	Multi V Indoor unit [3)]
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG SmartThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

Download on the App Store | GET IT ON Google Play

* Functionality may be different according to each IDU model
* User interface of application shall be revised for its design and contents improvement
* Application is optimized for smartphone use, so it may not be well functioning with tablet devices
1) LG Centralized controller and PDI installation is required for this function
2) Vane Control may not be possible according to the type of Indoor unit
3) For the compatibility with Indoor unit, please contact regional office

Overview



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

INDIVIDUAL CONTROL SOLUTION

Wi-Fi CONTROLLER [1)]

LG-RC-WF-1

Features

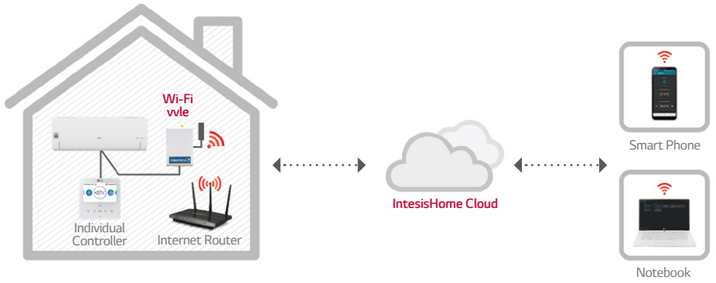
- No need external power
- CAC system unit capacity (SCAC, Multi and MULTI V)
- Control and monitor by mobile device
- Additional internet service has to be available and registration user account in IntesisHome cloud to use Wi-Fi controller is mandatory
- IntesisHome cloud application is available for smart devices such as smart phone(Android, iOS), laptop, tablet.

Model Name	LG-RC-WF-1
Start / Stop Operation	•
Operation Mode	Cool / Heat / Auto / Fan / Dry
Set Point	•
Ambient Temperature	•
Fan Speed	•

Specifications

Model Name	LG-RC-WF-1
Enclosure	ABS (UL 94 HB), 2.5 mm thickness
Dimensions (mm)	70 x 108 x 28 mm
Weight (g)	80g
Color	White
Power Supply	12V, 60mA typical Doesn't require external power supply (supplied by the Indoor Unit)
Mounting	Wall
Operating Temperature	From 0°C to 40°C
Operating Humidity	<93% HR, no condensation
Stock Humidity	<93% HR, no condensation
RoHS Conformity	Compliant with RoHS directive (2002/95/CE)
Certifications	CE conformity to EMC directive (2004/108/EC) ,Low-voltage directive (2006/95/EC) EN 60950-1 / EN301489-1 v1.8.1 / EN 301489-17 v2.1.1

Overview



1) This product is provided by Intesis.

INDIVIDUAL CONTROL SOLUTION

Wi-Fi CONTROLLER [1)]

LG-IR-WF-1

Models Applied

- Connectable with the indoor unit having IR receiver
- Power supply includes EU-UK-US-AU heads
- On / Off status and mode indicated by LED light
- Control and monitor
- Easy to install : Wall or desktop mounted
- Automatic firmware Updates*
- Additional internet service has to be available and registration user account in IntesisHome cloud to use Wi-fi controller is mandatory
- IntesisHome cloud app is available for android phone or iOS phone

* Internet access is necessary

Model Name	LG-IR-WF-1
Start / Stop Operation	•
Operation Mode	Cool / Heat / Auto / Fan / Dry
Set Point	•
Ambient Temperature	•
Fan Speed	•

Specifications

Model Name	LG-IR-WF-1
Enclosure	ABS (V-O, 5VB) 2,1 mm thickness PC (V-2) 1mm thickness
Dimensions (mm)	81 × 78 × 28
Weight (g)	76
Color	White
Power Supply	5VDC 0,2 A NEC Class 2 or Limited Power Source (LPS) and SELV Rated Power supply
Mounting	Wall
LED Indicators	1 × Device status
Operating Temperature	From 0°C to 40°C
Operating Humidity	<93% HR, no Condensation
Stock Humidity	<93% HR, no Condensation
RoHS Conformity	Compliant with RoHS Directive (2002 / 95 / CE)
Certifications	Compliant with RoHS Directive (2002 / 95 / CE) CE Conformity to EMC Directive (2004 /108 / EC) and Low-voltage Directive (2006 / 95 / EC) EN 60950-1 / EN 301489-1 v1.8.1 / EN 300328

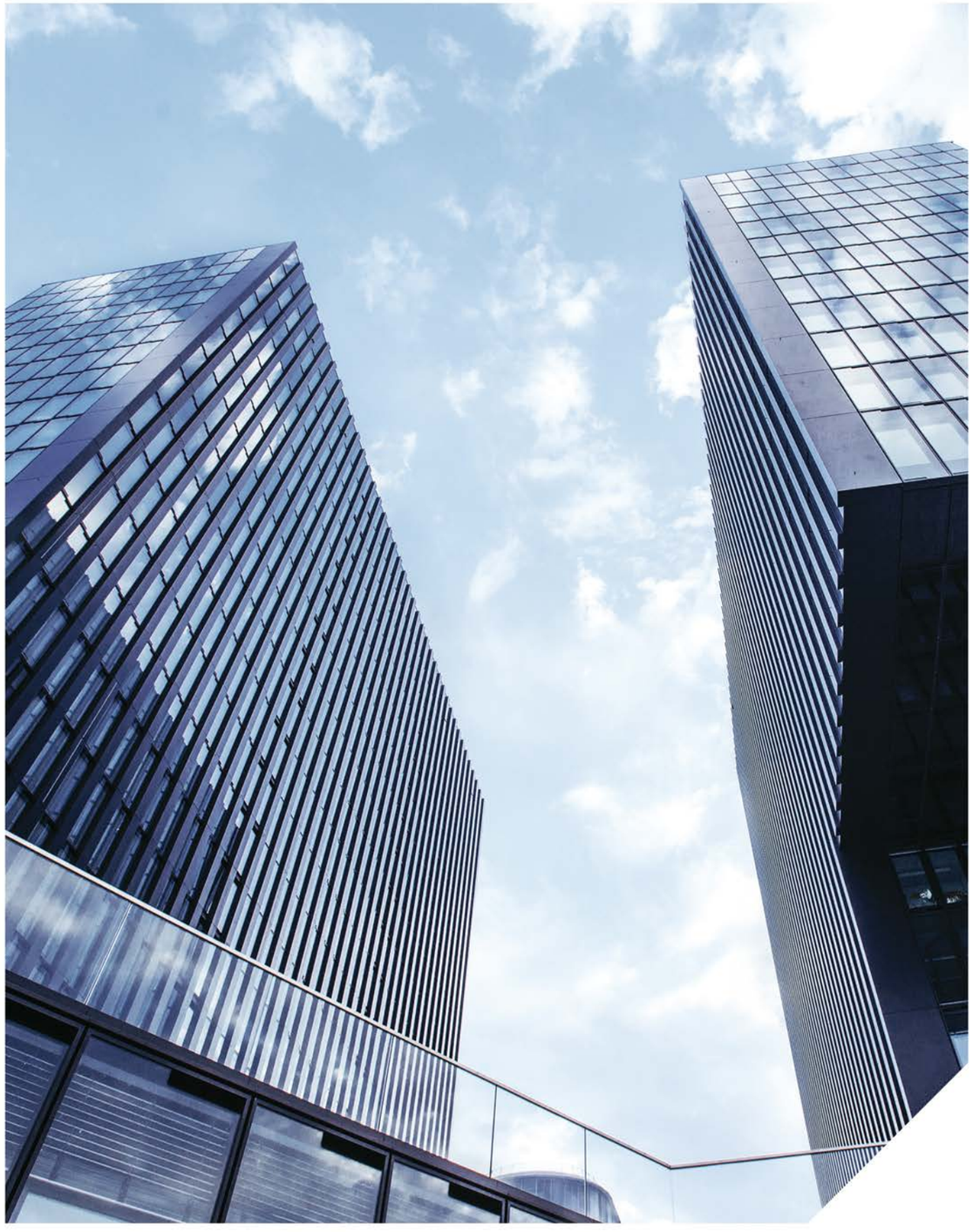
Overview

Case 1. Connection with Indoor Units with IR Receiver

Case 2. Connection with Duct Type Indoor Units

1) This product is provided by Intesis.

CENTRALIZED CONTROL SOLUTION



CENTRALIZED CONTROL SOLUTION

LINE-UP

AC Ez Touch

NEW!
ACP 5
ACP IV

NEW!
AC Smart 5
AC Smart IV

AC Manager 5

AC Ez

Central Controller Line Up

Model Name	PQCSZ250S0	PACEZA000	PACS5A000 PACS4B000	PACP5A000 PACP4B000	PACM5A000
					
Maximum number of units	32	64	128	256	8,192
Individual / Group Control	•	•	•	•	•
Individual Controller Lock	•	•	•	•	•
Error Check	•	•	•	•	•
Slave Mode (Interlocking with higher level controller)	•	•	•	-	-
Schedule	Weekly	Yearly	Yearly	Yearly	Yearly
Remote Access	-	By client S/W	Web	Web	Web
Emergency Stop & Alarm Display	-	•	•	•	•
Power Consumption Monitoring (with PDI)	-	•	•	•	•
Auto Changeover / Setback	-	•	•	•	•
Temperature Limit	-	•	•	•	•
Operation Time Limit	-	-	•	•	•
Visual Navigation	-	-	•	•	•
Operation Trend	-	-	•	•	•
Interlock Control	-	-	•	•	•
Virtual Group Control	-	-	•	•	•
ODU Capacity Control*	-	-	•	•	•
Energy Navigation (with PDI)	-	-	•	•	•
ACS IO Module Interlocking	-	-	•	•	•
NEW! BMS Integration (BACnet, Modbus protocol)	-	-	• (PACS5A000 only)	• (PACP5A000 only)	-
NEW! IPv6 Support	-	•	• (PACS5A000 only)	• (PACP5A000 only)	-

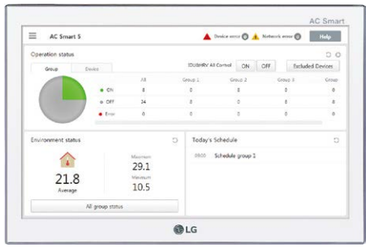
*** This function is available for certain product**

CENTRALIZED CONTROL SOLUTION

AC SMART 5

AVAILABLE FROM MID 2018 ONWARDS

All-in-One solution for BMS integration up to 128 units via BACnet and Modbus protocol as well as its own smart management function with touch screen interface



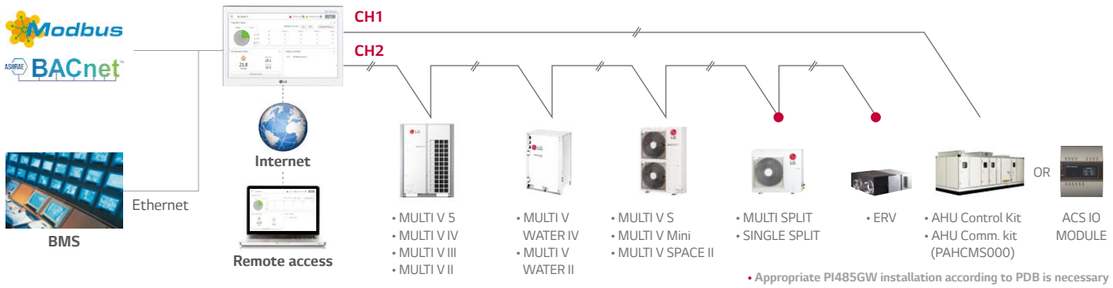
PACS5A000

Features

Model Name	PACS5A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU kit / LG Chiller[1)]
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display[2)]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO_2 Level display (for ERV/ERV DX) / Night Time Free Cooling (for ERV/ERV DX)
Error Check	•
Slave Mode (Interlocking with higher level controller)	•
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	•
Emergency Stop & Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation Time Limit	•
Visual Navigation	•
Operation Trend	•
Interlock Control	•
Virtual Group Control	•
ODU Capacity Control	•
Energy Navigation (with PDI)	•
Daylight Saving Time	•
ACS IO Module Interlocking	Max. 9
External IO Port	DI 2 / DO 2
BMS Integration[3)]	BACnet IP / Modbus TCP
IPv6 Support	•

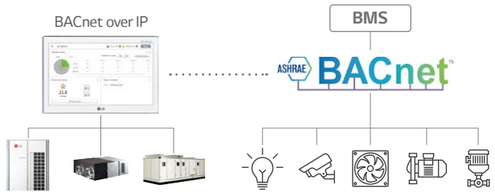
1) Chiller Option Kit(PCHLLN000) is required 2) It is only available in some products 3) For the detail point list, please refer to the installation manual

Installation Scene



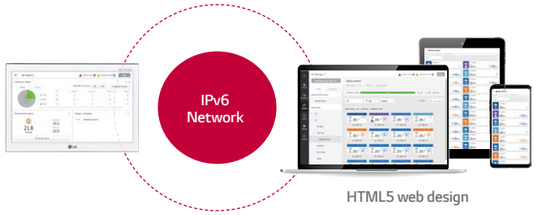
• Appropriate PI485GW installation according to PDB is necessary

Features



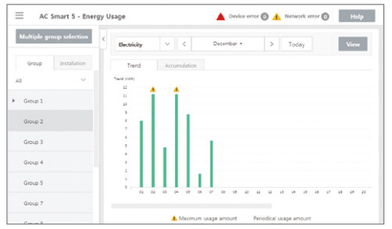
BMS Integration

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



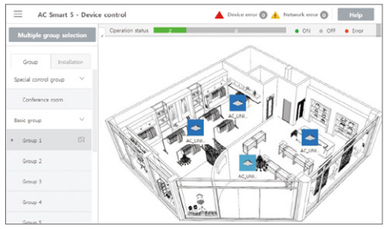
Advanced Network Accessibility

AC Smart 5 reflects the state of the art of network technology trend. IPv6(Internet Protocol version 6), which is the most recent version of the Internet Protocol, provides accessibility to the IPv6 compatible network environment. HTML5 makes the web access to AC Smart 5 easier and look good on all devices, especially for mobile.



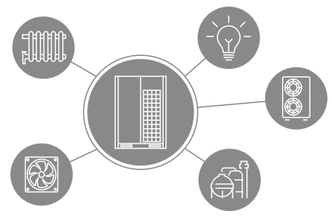
Energy Management

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



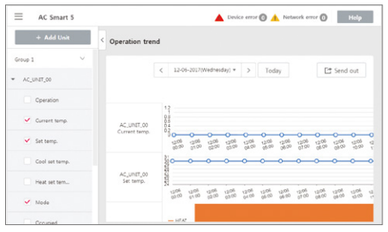
Visualized Control

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



Device Interlock

Building Facility can be interlocked with LG HVAC system on the automated control logic.



Operation Trend

Unit's operation status change in the past can be traced to help establishing reasonable operation plan of the site.

CENTRALIZED CONTROL SOLUTION

AC EZ TOUCH

Smart management with 5 inch touch screen for small site

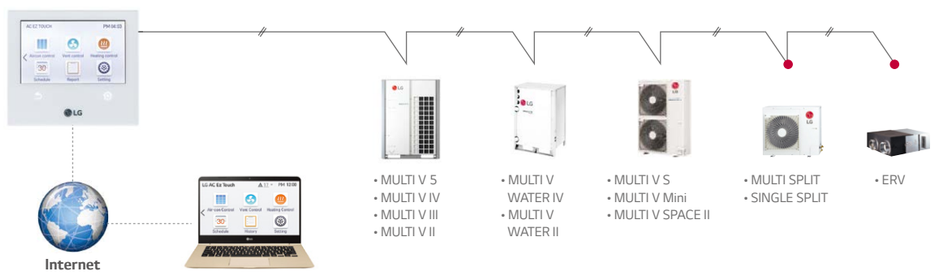
PACEZA000

Features

Model Name	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	•
Slave Mode (Interlocking with higher level controller)	•
Schedule	Weekly / Monthly / Yearly / Exception day
Remote Access	By client S/W
Emergency Stop & Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation History	Error
ODU Low Noise[1)]	•
Daylight Saving Time	•
External IO Port	DI 1
IPv6 Support	•

1) It is only available in some products

Installation Scene

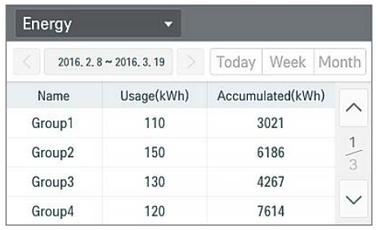


• Appropriate PI 485 should be used according to PDB

Features

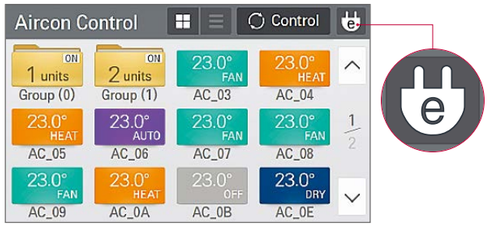
PC Access

Users can control each space efficiently through PC access.



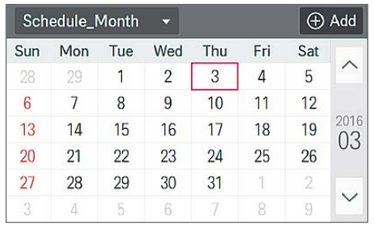
Energy Statistics (with PDI)

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



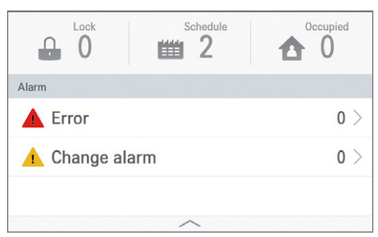
Energy Mode

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



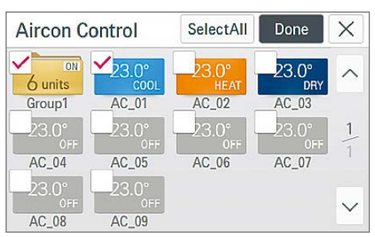
Schedule

Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.



Alarm Indicator

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



Group / Individual Control

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

CONTROL SOLUTION

CENTRALIZED CONTROL SOLUTION

AC SMART IV

Large 10.2 inch touch screen with intuitive GUI (Graphic User Interface) allows easy control

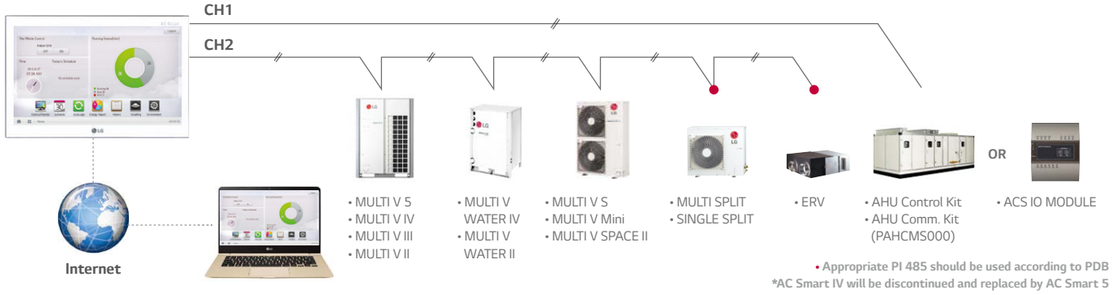
PACS4B000

Features

Model Name	PACS4B000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V / AHU Kit / LG Chiller 1)
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	•
Slave Mode (Interlocking with Higher Level Controller)	•
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access 2)	•
Emergency Stop & Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation Time Limit	•
Visual Navigation	•
Interlock Control	•
Virtual Group Control	•
ODU Capacity Control	•
Energy Navigation (with PDI)	•
Daylight Saving Time	•
ACS IO Module Interlocking	Max. 9
External IO Port	DI 2 / DO 2

1) Chiller Option Kit (PCHLLN000) is required
2) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

Installation Scene



• Appropriate PI 485 should be used according to PDB
*AC Smart IV will be discontinued and replaced by AC Smart 5

CENTRALIZED CONTROL SOLUTION

AC EZ

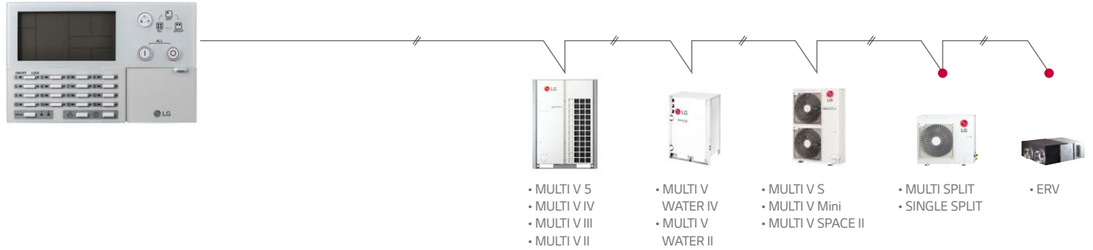
Easy to manage up to 32 indoor unit, including ERV with simple interface

PQCSZ250S0

Features

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

Installation Scene



• Appropriate PI 485 should be used according to PDB

CENTRALIZED CONTROL SOLUTION

ACP 5

AVAILABLE FROM MID 2018 ONWARDS

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

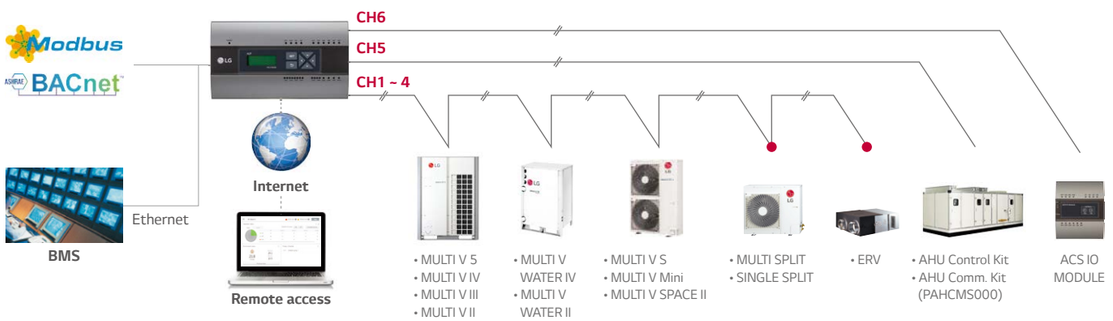
PACP5A000

Features

Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU kit / LG Chiller[1)]
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display[2)]	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO_2 Level display (for ERV/ERV DX) / Night Time Free Cooling (for ERV/ERV DX)
Error Check	•
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	•
Emergency Stop & Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation Time Limit	•
Visual Navigation	•
Operation Trend	•
Interlock Control	•
Virtual Group Control	•
ODU Capacity Control	•
Energy Navigation (with PDI)	•
Daylight Saving Time	•
ACS IO Module Interlocking	Max. 16
External IO Port	DI 10 / DO 4
BMS Integration[3)]	BACnet IP / Modbus TCP
IPv6 Support	•

1) Chiller Option Kit (PCHLLN000) is required 2) It is only available in some products 3) For the detail point list, please refer to the installation manual

Installation Scene



• Appropriate PI485GW installation according to PDB is necessary

CENTRALIZED CONTROL SOLUTION

ACP IV

ACP IV can be integrated to the web system that allows user can access the control system online anytime, anywhere without access to PC or specific application

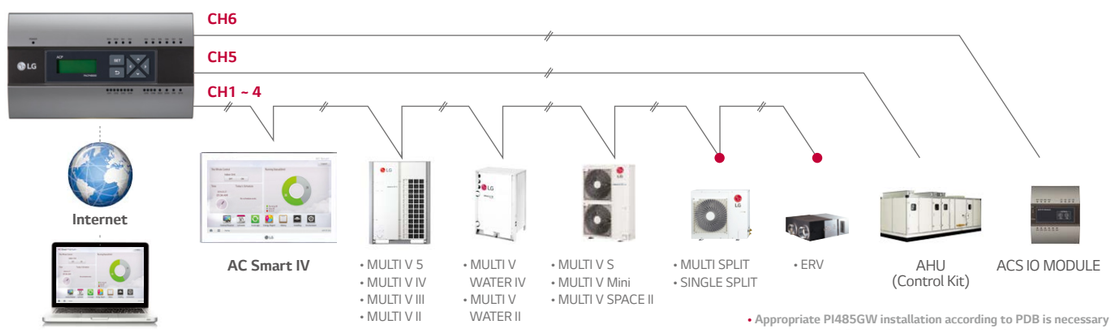
PACP4B000

Features

Model Name	PACP4B000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro Kit / THERMA V / AHU Kit / LG Chiller[1)]
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan Speed
Individual Controller Lock	Temperature / Mode / Fan Speed / All
Error Check	•
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access[2)]	•
Emergency Stop & Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation Time Limit	•
Visual Navigation	•
Interlock Control	•
Virtual Group Control	•
ODU Capacity Control	•
Energy Navigation (with PDI)	•
Daylight Saving Time	•
ACS IO Module Interlocking	Max. 16
External IO Port	DI 10 / DO 4

1) Chiller Option Kit(PCHLLN000) is required
2) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

Installation Scene



• Appropriate PI485GW installation according to PDB is necessary
*ACP IV will be discontinued and replaced by ACP 5

CENTRALIZED CONTROL SOLUTION

AC MANAGER 5

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

PACM5A000

reddot award
User Interface Design

Features

Model Name	PACM5A000*
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V / AHU kit / LG Chiller[1)]
Maximum number of units	8,192 (supports 32 ACP IV/5 or AC Smart IV/5)**
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	•
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	•
Emergency Alarm Display	•
Power Consumption Monitoring (with PDI)	•
Auto Changeover / Setback	•
Temperature Limit	•
Operation Time Limit	•
Visual Navigation	•
Operation Trend	•
Interlock Control	•
Virtual Group Control	•
ODU Capacity Control	•
Energy Navigation (with PDI)	•
ACS IO Module Interlocking	•

*AC Manager 5 requires ACP IV/5 or AC Smart IV/5
1) Chiller Option Kit (PCHLLN000) is required

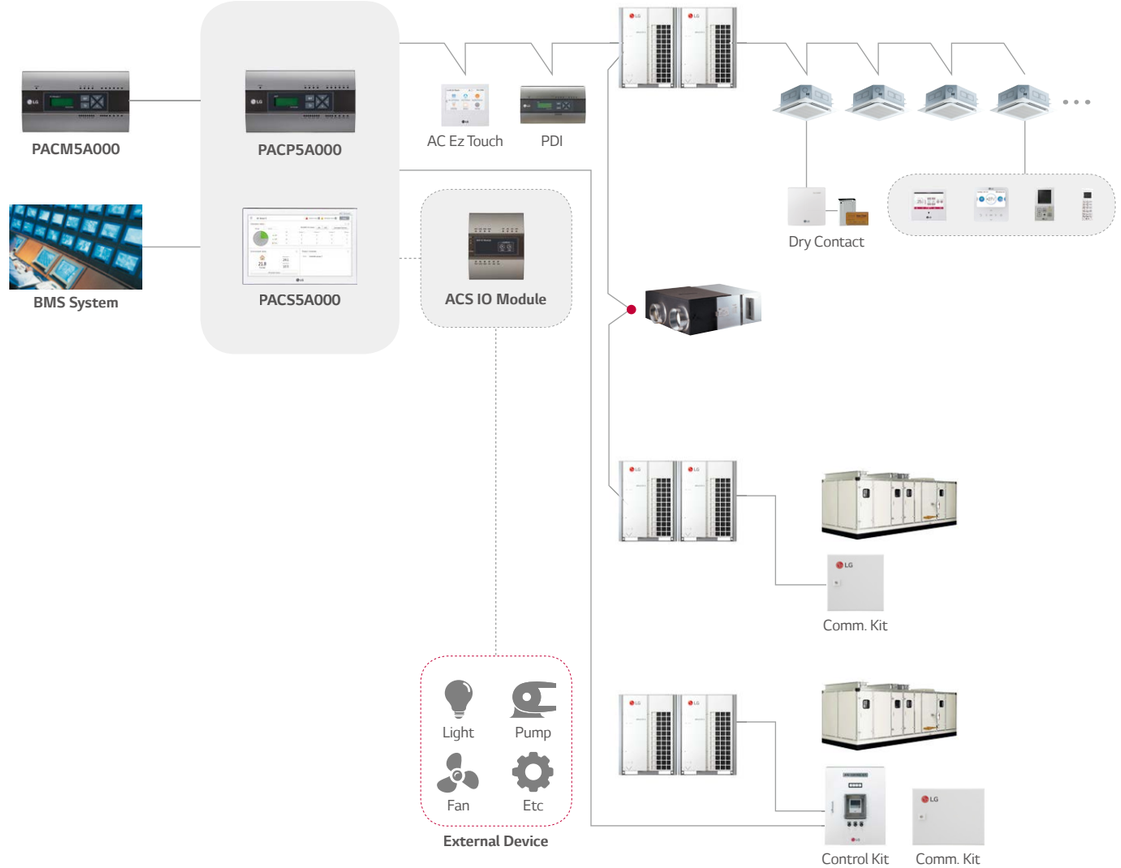
Schedule Function

Energy Management

Operation Trending Report

Automatic E-mail Sending

Solution Overview



• Appropriate PI 485 should be used according to PDB

CONTROL SOLUTION

SYSTEM INTEGRATION DEVICE

LINE-UP

Facility Integrator	Gateway for Protocol	PI-485
PDI (Power Distribution Indicator)  Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	**AC Smart BACnet(Modbus)**  PBACNA000	 For Outdoor Unit (SINGLE / MULTI / THERMA V) PMNFP14A1
ACS I/O Module  PEXPMB000	**ACP BACnet (Modbus)**  PQNFB17C0	 For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0
Chiller Option Kit  PCHLLN000	**ACP Lonworks**  PLNWKB000	
	Modbus RTU Gateway  PMBUSB00A	
	KNX Gateway  LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	

SYSTEM INTEGRATION DEVICE

PDI (POWER DISTRIBUTION INDICATOR)

PDI shows distributed power consumption of up to 128 indoor units

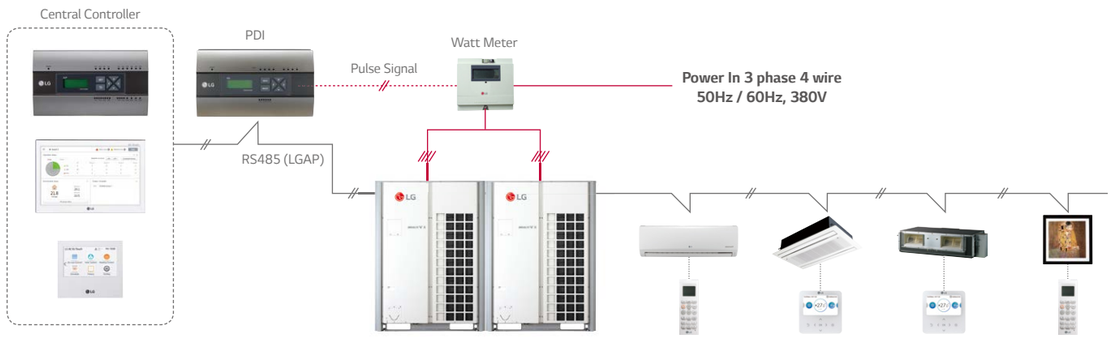
Premium
PQNUD1S40 (8 port)

Standard
PPWRDB000 (2 port)

Features

Model Name	PQNUD1S40	PPWRDB000
Size (W x H x D, mm)	270 x 155 x 65	
Interfaceable Products	Air conditioner, ERV DX	
Maximum Number of Power Meters	8	2
Maximum Number of Units	128	
Data Backup When Power Outage	•	
Power Input	PDI : AC 24V, Transformer : AC 220V	

Installation Scene



Power Cable for 3 Phase 4 Wire
Communication Cable (2 Wire Shielded Cable)
Pulse Signal Wire

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

SYSTEM INTEGRATION DEVICE

ACS I/O MODULE

This module can be connected with ACP IV/5 or AC Smart IV/5 controller if additional I/O points such as DI/DO and AI/AO for 3rd party devices control and monitoring are needed.

PEXPMB000

Features

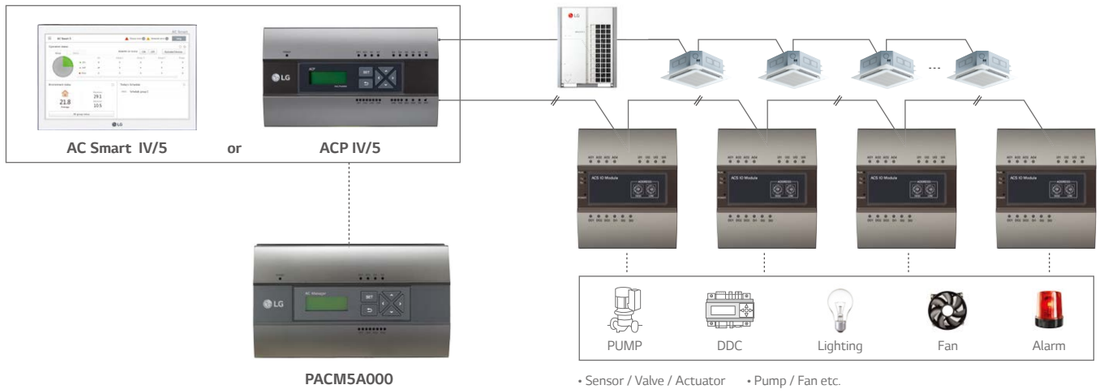
Model Name		PEXPMB000
Linkable Products		PACS4B000 PACS5A000 PACP4B000 PACP5A000
Communication	RS-485	1
I/O	Digital Input	3
	Digital Output	3
	Universal Input [1]	4
	Analog Output	4

Model Name		Min.	Max.
Analog Input	NTC 10k	0.68k Ω	177k Ω
	PT 1000	803 Ω	1,573 Ω
	Ni 1000	871.7 Ω	1,675.2 Ω
	DC (Voltage)	0V	10V
	DC (Current)	0mA	20mA
Analog Output	-	0V	10V
Digital Input	Binary Input (Non Voltage)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

	PACS4B000	PACP4B000	PACM5A000
Number of Indoor Units	64 ~ 128	128 ~ 256	8,192
Max. I/O Points	130	238	1,260
Maximum Number of Node	9	16	-

* Maximum number of Indoor units may be reduced by increasing the number of I/O points.
1) The type of UI (Universal Input) is selectable among Digital Input and Analog Input

Installation Scene



* D I : Digital Input, DO : Digital Output, UI : Universal Input, AO : Analog Output / Please contact our regional office to have connectable relay specification for analog output
* The type of UI (Universal Input) is selectable among Digital Input and Analog Input

SYSTEM INTEGRATION DEVICE

CHILLER OPTION KIT

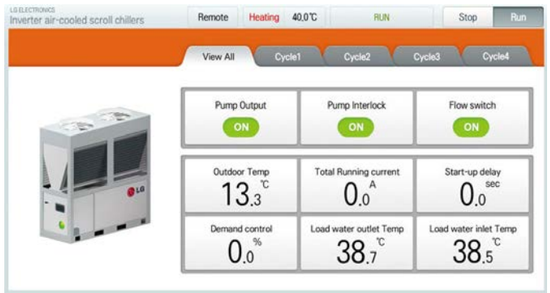
LG central controller IV and 5 series with Chiller Option Kit can provide LG chiller remote control and cycle monitoring

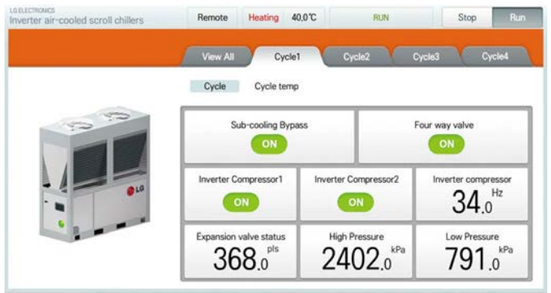
PCHLLN000

Features

Model Name	PCHLLN000
Monitoring Points	Evaporator status / Compressor status (Scroll, Screw, Centrifugal chiller only) Condensor status / Generator status (Abs. chiller only)
On/Off	•
Target Temp. setting	•
Mode Change	Scroll chiller only
Schedule	•
Interfaceable Products	Scroll, Screw, Centrifugal, Absorption (LG Only)

Cycle Display Example





SYSTEM INTEGRATION DEVICE

AC SMART BACNET

PBACNA000

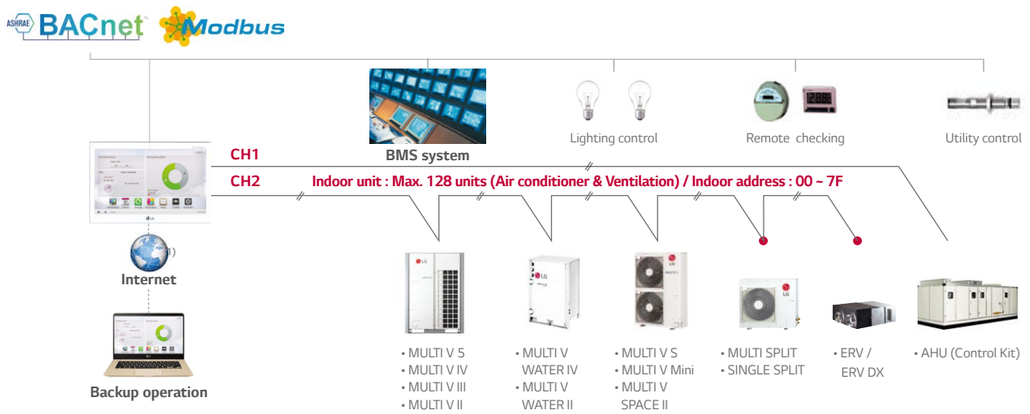
Features

- **Process Ability**
  - EHP Type : 128 units (Indoor / ERV / ERV DX / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- **Self installation verification function on touch screen or using Internet (Web Server Included)**
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- **Modbus TCP Protocol Support**
- **BTL Certified (B-ASC)**
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.**

* In case of using Modbus, the compatibility is different from BACnet. Refer to manual in detail.

Controlling	Monitoring Items
On / Off Command	On / Off Status
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
User Mode Setting (for only ERV)	User Mode Status (for only ERV)
-	Accumulator Power Distribution Status
Upper Limit Temp. Setting	Upper Limit Temperature Status
Low Limit Temp. Setting	Low Limit Temperature Status
Mode Lock Setting	Mode Lock Status
AC Operation Mode Setting (ERV DX only)	Air Conditioner Operation Mode Status (ERV DX only)
AC On / Off Command (ERV DX only)	Air Conditioner On / Off Status (ERV DX only)

Installation Scene



1) Assignment of public IP address is required to access central controller through internet.
*AC Smart BACnet will be discontinued and replaced by AC Smart 5

• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

ACP BACNET GATEWAY

PQNFB17C0

* Please refer PDRYCB500 for Modbus RTU

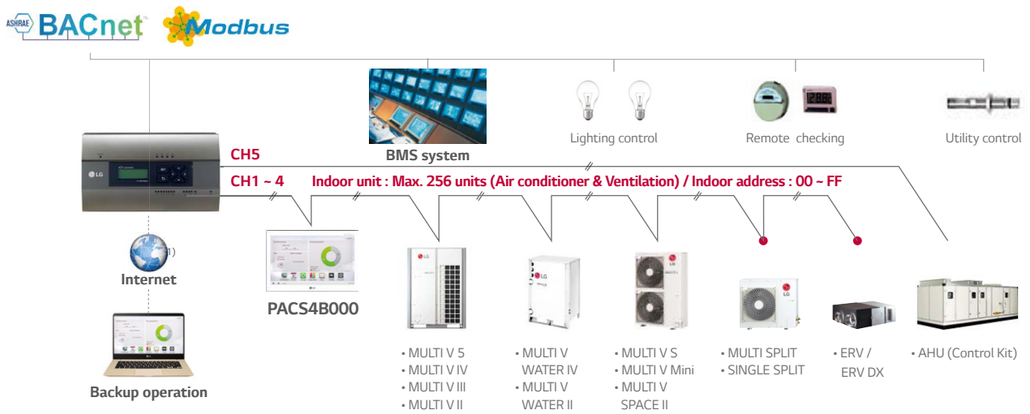
Features

- **Process Ability**
  - EHP Type : 256 units (Indoor / ERV / ERV DX / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- **Self installation verification function using internet (Web Server Included)**
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- **Modbus TCP Protocol Support**
- **BTL Certified (B-ASC)**
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.**

* In case of using Modbus, the compatibility is different from BACnet. Refer to manual in detail.

Controlling	Monitoring Items
On / Off Command	On / Off Status
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
User Mode Setting (for only ERV)	User Mode Status (for only ERV)
-	Accumulator Power Distribution Status
Upper Limit Temp. Setting	Upper Limit Temperature Status
Low Limit Temp. Setting	Low Limit Temperature Status
Mode Lock Setting	Mode Lock Status
AC Operation Mode Setting (ERV DX only)	Air Conditioner Operation Mode Status (ERV DX only)
AC On / Off Command (ERV DX only)	Air Conditioner On / Off Status (ERV DX only)

Installation Scene



1) Assignment of public IP address is required to access central controller through internet.
*ACP BACnet will be discontinued and replaced by ACP 5

• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

ACP LONWORKS GATEWAY

PLNWKB000

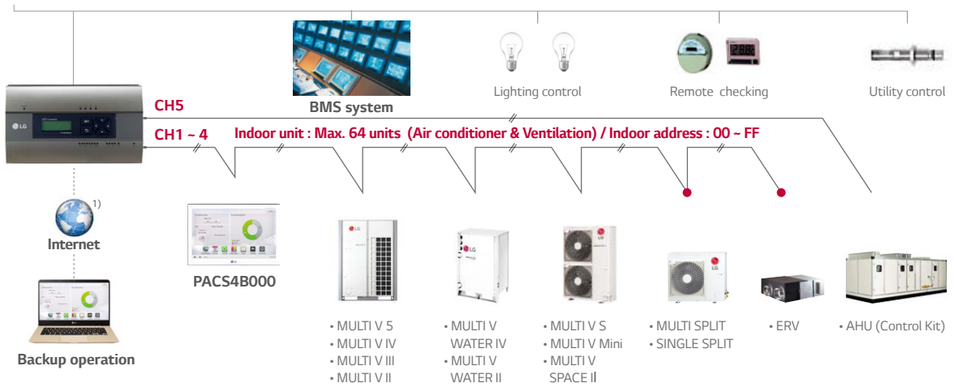
Features

- **Process Ability**
  - EHP Type : 64 units (Indoor / ERV / Hydro Kit / THERMA V)
  - AHU Control kit : Maximum 16 units
- **Connect to use Lonworks® protocol and LG air conditioner protocol.**
- **Self installation verification function using internet (Web Server Included)**
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- **It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.**

Controlling	Monitoring Items
On / Off Command	On / Off Status
Operation Mode Setting	Operation Mode Status
Fan Speed Setting	Fan Speed Status
Lock Setting	Lock Status
Air Flow Setting	Air Flow Setting
Set Temperature Setting	Set Temperature Status
-	Current Space Temperature Status
-	Error Status
-	Accumulator Power Distribution Status
Upper Limit Temperature Setting	Accumulator Power Distribution Status
Low Limit Temperature Setting	Low Limit Temperature Setting
Mode Lock Setting	Mode Lock Status
Peak Operation Ratio Setting	Peak Operation Ratio Setting
All On / Off Setting	-
-	Total Accumulate Power Status

Installation Scene

LONWORKS®



1) Assignment of public IP address is required to access central controller through internet.

• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

MODBUS RTU GATEWAY

AVAILABLE FROM MID 2018 ONWARDS

Providing Modbus RTU connection between LG Air conditioners and BMS

PMBUSB00A

Features

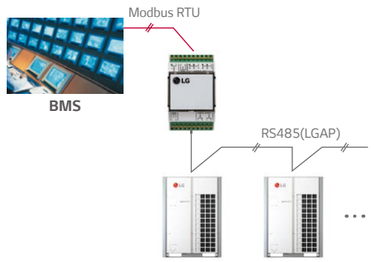
- **Function**
  - MODBUS RTU communication with MODBUS master controller
  - Applicable for MULTI V
  - Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules
  - MODBUS RTU slave (RS485) / 9,600 bps
  - Size (W*H*D) : 53.6 x 89.7 x 60.7
  - Power : DC 12V
- **Modbus Memory Map***

Register	Read	Write	Description	Notes
00001	•	•	Operation	0 : Off / 1 : On
00002	•	•	Total Lock	0 : Unlock / 1 : Lock
00005	•	•	Auto Swing	0 : Manual / 1 : Auto
00006	•	•	Operation Mode Lock	0 : Unlock / 1 : Lock
00007	•	•	Fan Speed Lock	0 : Unlock / 1 : Lock
00008	•	•	Set Temperature Lock	0 : Unlock / 1 : Lock
10001	•	-	Error Alarm	0 : Normal / 1 : Error
10002	•	-	Thermo On / Off	0 : Thermo Off / 1 : Thermo On
30001	•	-	Error Code	0 ~ 255
30002	•	-	Pipe In Temperature	Degrees C x 10
30003	•	-	Pipe Out Temperature	Degrees C x 10
30004	•	-	Room Temperature	Degrees C x 10
40001	•	•	Operation Mode	0 : Cooling / 1 : Dry / 2 : Fan / 3 : Auto / 4 : Heating
40002	•	•	Set Temperature	Degrees C x 10
40003	•	•	Fan Speed	1 : Low / 2 : Medium / 3 : High / 4 : Auto

Installation Scene

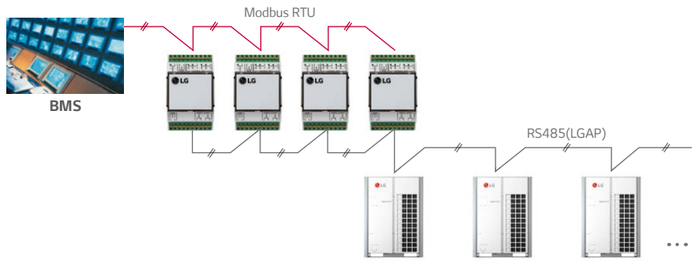
- **Single module**

Max. 16 indoor units with a single module



- **Multiple module**

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



Max. 16 outdoor units in one RS485(LGAP) line

CONTROL SOLUTION

SYSTEM INTEGRATION DEVICE

KNX GATEWAY [1)]

Specially designed to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX installations

LG-AC-KNX4 / LG-AC-KNX8
LG-AC-KNX16 / LG-AC-KNX64

Features

- Easy installation, direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Direct connection to KNX bus
- Independent management of communications
- Power supply : 9 to 24V DC or 24V AC
- Standard DIN-Rail 6 modules enclosure
- Maximum connection unit
- LG Slave Central controller (for example, AC Smart) and PDI can be operated with KNX gateway.

Model Name	Max. Connection Units
LG-AC-KNX4	4
LG-AC-KNX8	8
LG-AC-KNX16	16
LG-AC-KNX64	64

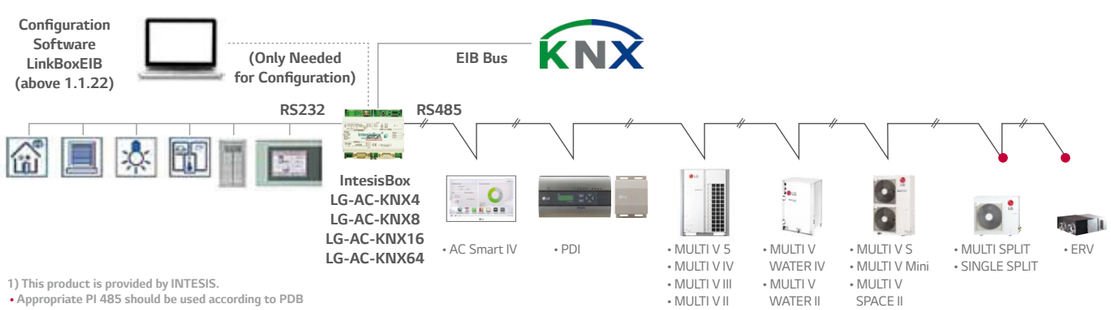
Link BoxEIB Configuration Software for IntesisBox® KNX serious

Easy to use tool for the configuration of intesisBox, in a fast and effective way.
It offers the maximum integration possibilities with a minimal knowledge required on the system to be integrated.

LinkBoxEIB
Configuration software

- Only needed during configuration.
- One single tool for the configuration of the whole range of IntesisBox KNX series gateways.
- Supplied with IntesisBox with no additional cost.
- Configuration examples for all systems that can be integrated.
- Mapping table editable using excel, allowing a simple and fast association of KNX Group Addresses, exported from ETS, to IntesisBox's datapoints.
- Includes powerful and useful features for configuration, setup and troubleshooting.

Installation Scene

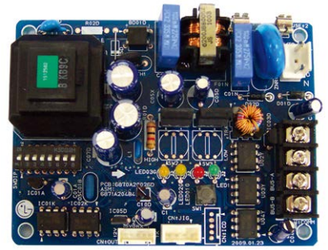


1) This product is provided by INTESIS.
• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

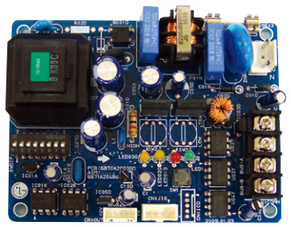
PI 485

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



PMMFP14A1 / PHNFP14A0

Features



- **Model Name : PMNFP14A1**
- **Power : Single Phase AC 220V 50/60Hz**
- **1 for Each Outdoor Unit**
  - MULTI V MINI (ARUN40GS2A / ARUV40GS2A Only needs PI485)
  - SINGLE SPILIT - MULTI SPLIT - THERMA V

- **Model Name : PHNFP14A0**
- **Power : Connected with the Indoor Units**
- **1 for Each Indoor Unit**
  - Indoor Unit (Air-Conditioner, ERV)

*** MULTI V PLUS II & MULTI V III & MULTI V IV series do not require any other PI 485 since these series have PI 485 in its outdoor unit PCB.**

OTHER INTEGRATION CONTROL SOLUTION

OTHER INTEGRATION CONTROL SOLUTION

LINE-UP

Indoor Unit		Outdoor Unit	AHU Kit
Dry Contact	**Control Accessory**		
Simple Dry Contact PDRYCB000	Group Control Wire PZCWRCG3	IO Module (Input / Output Module) PVDSMN000	Communication Kit PAHCMR000
2 Points Dry Contact PDRYCB400	Remote Temperature Sensor PQRSTA0	Dry Contact for Demand Control PQDSBCDVM0	PAHCMS000
Dry Contact for Thermostat PDRYCB300	Zone Controller ABZCA	Variable Water Flow Control Kit PWFCKN000	Control Kit PRCKD21E PRCKD41E
For Modbus PDRYCB500		PRVC0	EEV Kit (Electronic Expansion Valve) PRLK048A0 / PRLK096A0
		Cool / Heat Selector PRDSBM	TXV Kit (Thermal Expansion Valve) PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E

OTHER INTEGRATION CONTROL SOLUTION

DRY CONTACT

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

PDRYCB000

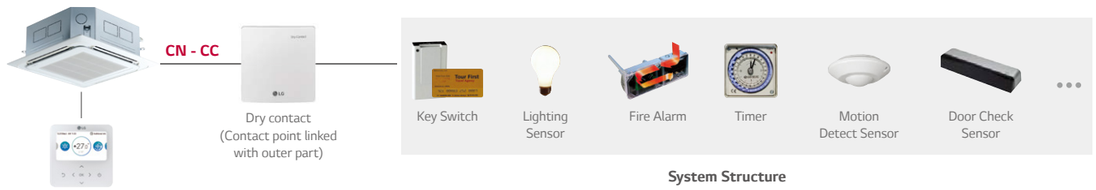
Features

Model Name	PDRYCB000
Contact Point	1 Contact Point
Contact Voltage Rating	AC 220V
On / Off Control	•
Error Alarm Output	•
Operation On / Off Output	•
Rotary Switch 1 (Set Temperature selection)	-
Rotary Switch 2 (Operation Logic selection)	-
Size (W x H, mm)	120 x 120

* Refer to each models PDB for applicable models. * Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

Signal Point

Installation Scene



System Structure

PDRYCB400

Features

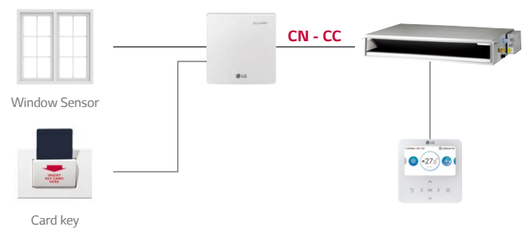
Model Name	PDRYCB400
Contact Point	2 Contact Point
Contact Voltage Rating	DC 5 ~ 12V / Non Voltage
On / Off Control	•
Error Alarm Output	•
Operation On / Off Output	•
Rotary Switch 1 (Set Temperature selection)	•
Rotary Switch 2 (Operation Logic selection)	•
Size (W x H, mm)	120 x 120

* Refer to each models PDB for applicable models. * Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

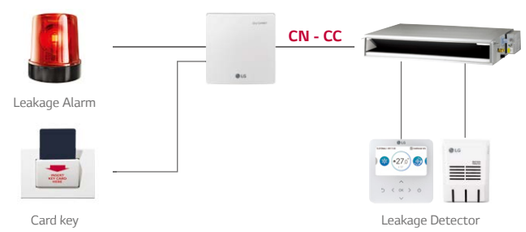
Signal Point

Installation Scene

2 inputs interworking



Refrigerant leakage detection alarm



OTHER INTEGRATION CONTROL SOLUTION

DRY CONTACT

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

PDRYCB300

Features

Model Name	PDRYCB300
Contact Voltage Rating	DC 5 ~ 12V / Non Voltage
On / Off Control	•
Mode Control	•
Fan Speed Setting	•
Thermo Off	•
Error Alarm Output	•
Operation On / Off Output	•
Rotary Switch 1 (Set Temperature Selection)	•
Rotary Switch 2 (Operation Logic Selection)	•
Size (W x H, mm)	120 x 120

Signal Point

Installation Scene

*** Please contact our regional office to have full compatible room controller list**

PDRYCB500

Features

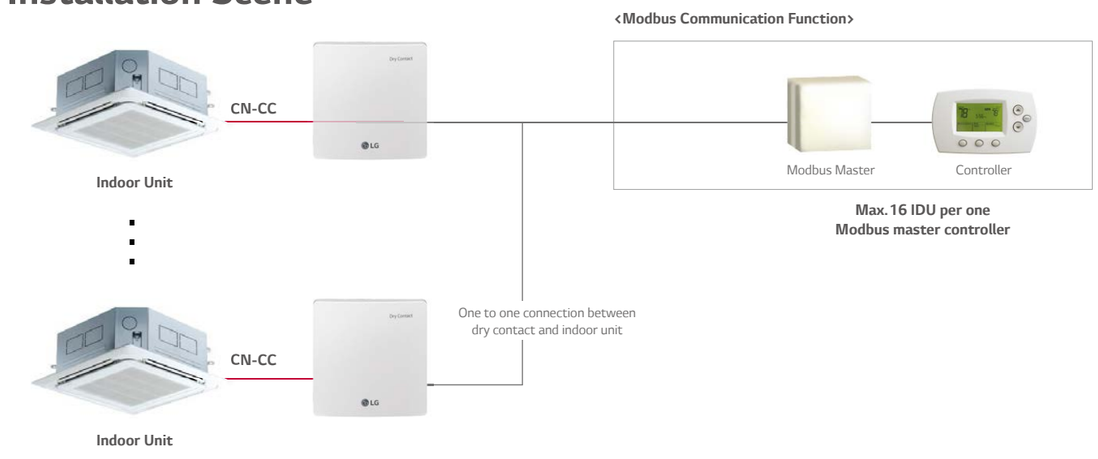
Function

- MODBUS communicate with MODBUS master controller
- Max. 16 IDUs can be connected with one MODBUS master controller
- MODBUS RTU slave / 2 wire RS485 / 9,600bps
- Size (W x H x D) : 120mm x 120mm x 36.5mm

Memory map

Register	Name	Range	Notes
00001	Operation	0 ··· 1	0 : Stop, 1 : Run
30003	Indoor temperature	100 ··· 400	Degrees C x 10
30100	Error alarm	0 ··· 1	0 : No Error, 1 : Error
40001	Set run mode	0 ··· 4	0 : Cooling, 1 : Dry, 2 : Fan, 3 : AI, 4 : Heating
40002	Set temperature	180 ··· 300	Degrees C x 10
40015	Set fan speed	1 ··· 3	1 : Low, 2 : Middle, 3 : High

Installation Scene



*** Please contact out regional office to check the compatibility with 3rd party room controller**

OTHER INTEGRATION CONTROL SOLUTION

GROUP CONTROL WIRE

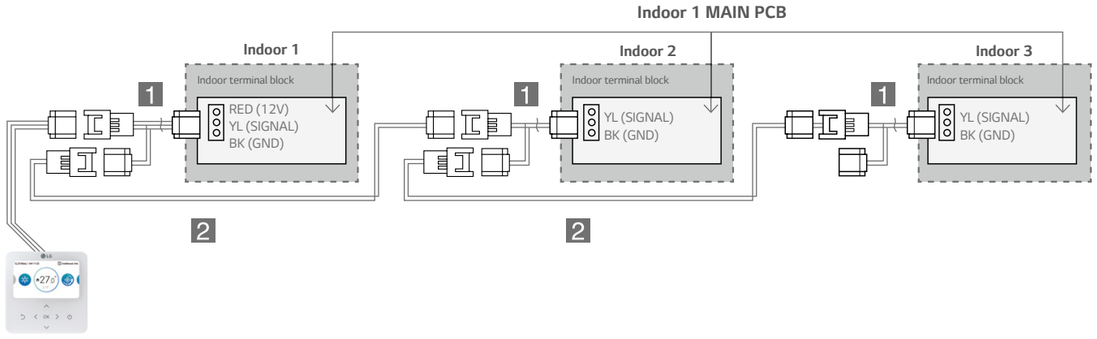
Cables used to connect a wired remote controller up to 16 indoor units

PZCWRCG3

Features

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

Installation Scene



Note : 1 Y type Cable assembly for connecting indoor unit and low cable.
2 Long Cable assembly for connecting indoor to indoor.
- Please connect cable assembly Y type Cable with already connected indoor unit.

OTHER INTEGRATION CONTROL SOLUTION

REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

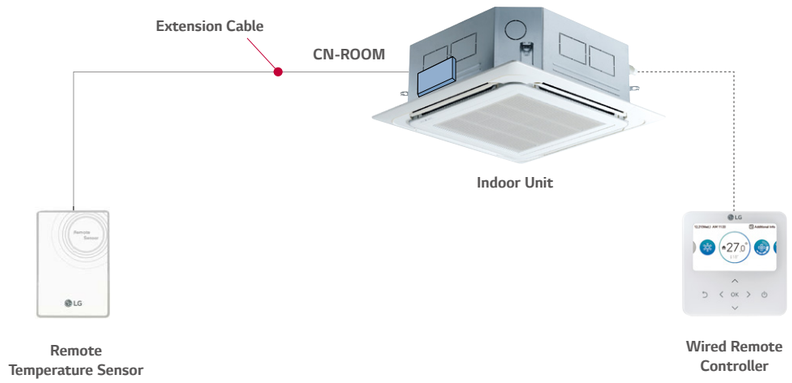
PQRSTA0

Features

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

Installation Scene

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

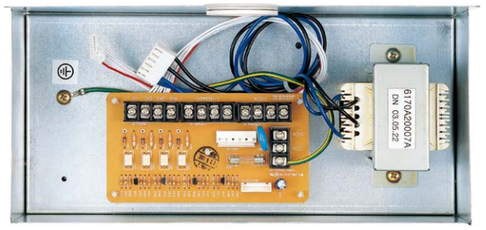


OTHER INTEGRATION CONTROL SOLUTION

ZONE CONTROLLER

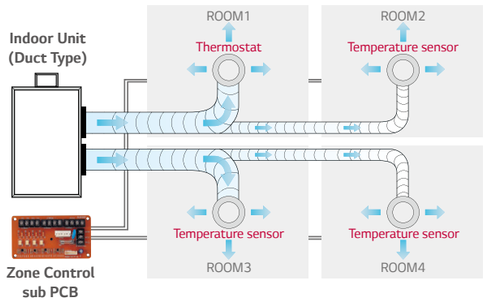
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

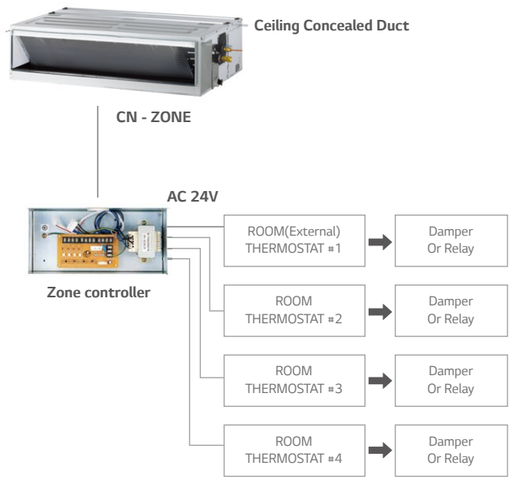
- Controls different zones (up to 4 zones) by external thermostat (AC a24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

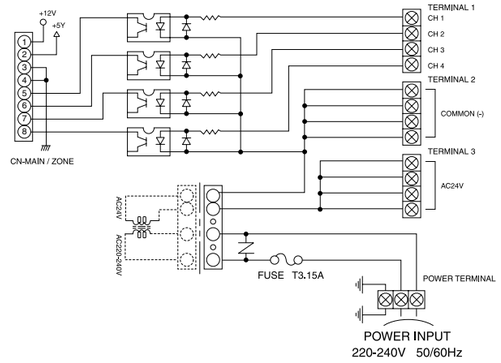


Models Applied

- Ceiling Concealed Duct (refer to PDB for applicable models)

Wiring Diagram





CONTROL SOLUTION

IO MODULE

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

PVDSMN000

Features

Function

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

Description

- IO Module is communication interface module for connection between MULTI V 5 and external IO (Input / Output Module) devices.

Note : IO Module is not compatible for MULTI V III

Models Applied

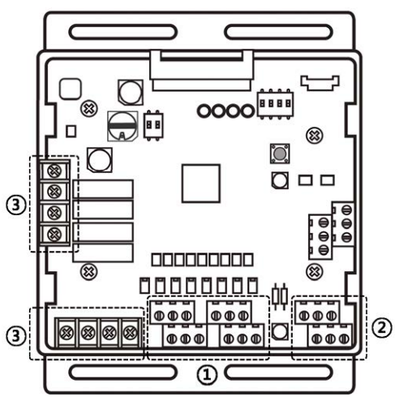
- MULTI V 5
- MULTI V IV
- MULTI V WATER IV
- MULTI V S

Part Description

1) Digital Input Part (DI : Dry Contact Input)
   - Demand control by contact input (3 Step)
   - Low Noise Operation input
   - Priority Setting input :
     Setting the priority of demand control command
     (Capacity control for external signal from DDC vs Peak control by LG Central controller)
     - Open : External signal has priority to central controller (Default)
     - Close : Central controller has priority to external signal

2) Analog Input Part (AI : DC 0 ~ 10V)
   - Demand control by analog input (10 Step)

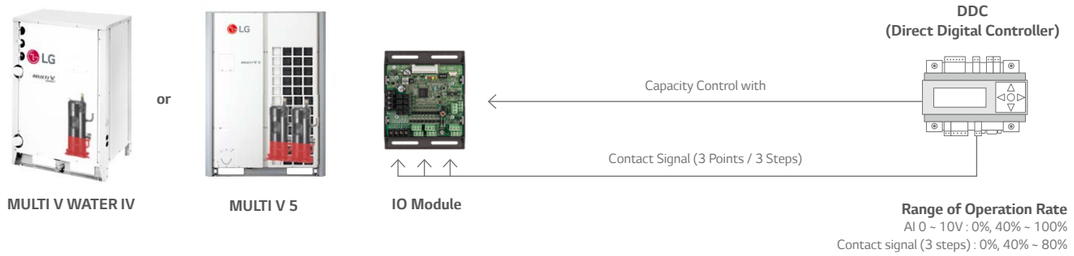
3) Digital Output Part (DO : 250VAC, Max 1A)
   - Error status relay output
   - Operation status relay output
   - Valve control



Installation Scene

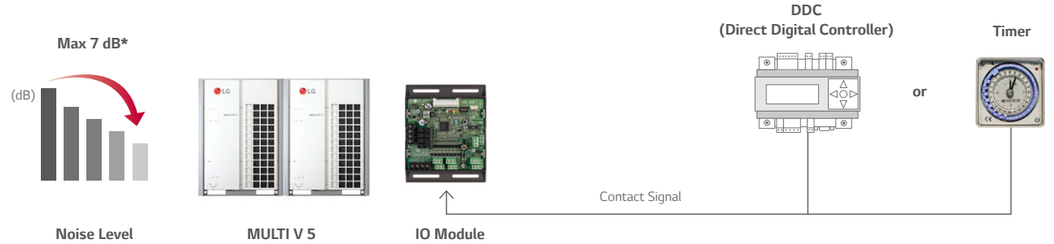
Demand Control

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



Low Noise Operation

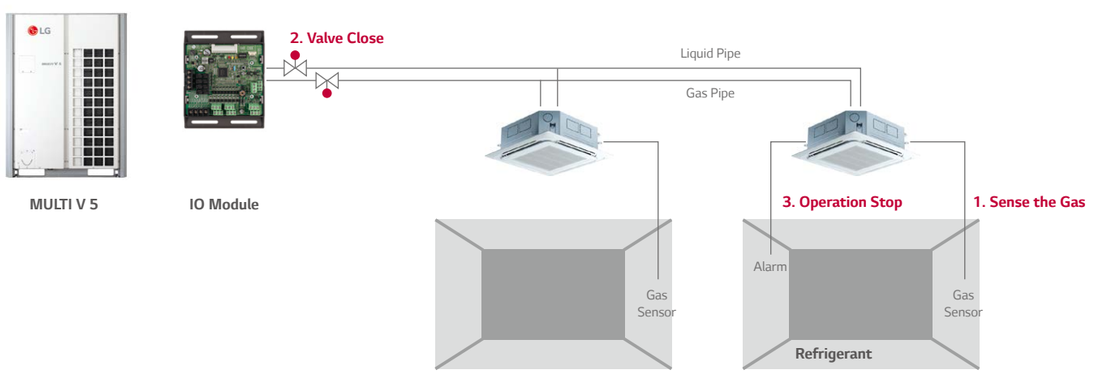
To reduce noise level , control outdoor unit's fan speed by dry contact input.



* 8 HP model, Sound power level can be changed by outdoor unit operation status and low noise operation input signal.

Refrigerant Leakage detection with Pump-down

For safety, IO module close refrigerant valve with Pump-down



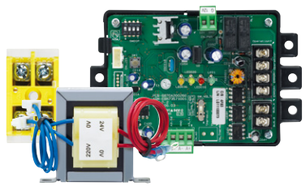
CONTROL SOLUTION

OTHER INTEGRATION CONTROL SOLUTION

VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

PWFCKN000 (MULTI V WATER IV)
PRVC0 (MULTI V WATER II)



Features

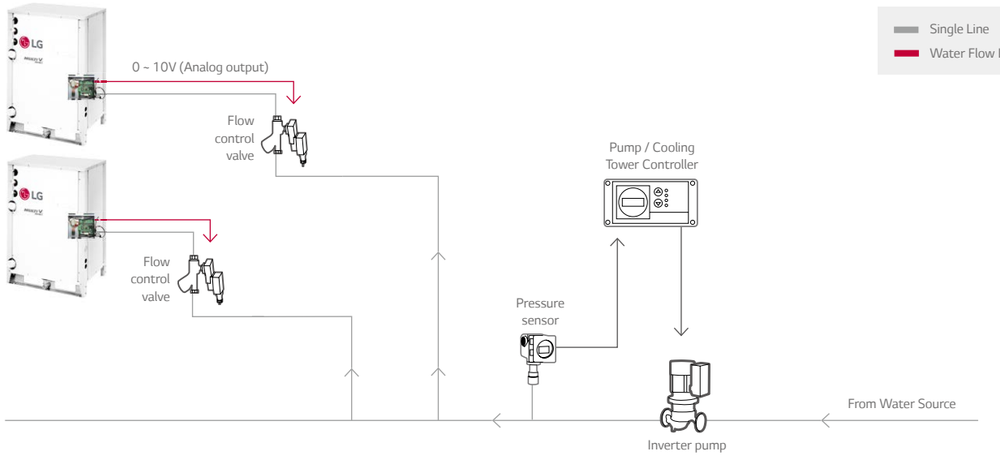
Function

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

Advantage

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

Wiring Diagram



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

OTHER INTEGRATION CONTROL SOLUTION

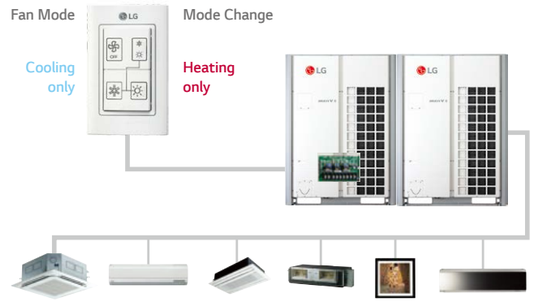
COOL / HEAT SELECTOR

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

PRDSBM

Features

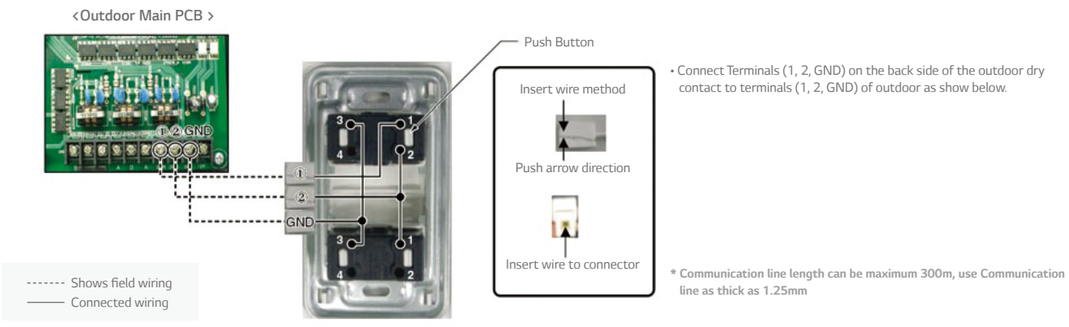
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

- MULTI V 5
- MULTI V WATER II
- MULTI V SPACE II
- MULTI V IV
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER S
- MUL TI V PLUS II, MULTI V PLUS
- MULTI V MINI

Wiring Diagram



- Connect Terminals (1, 2, GND) on the back side of the outdoor dry contact to terminals (1, 2, GND) of outdoor as show below.

*** Communication line length can be maximum 300m, use Communication line as thick as 1.25mm**

OTHER INTEGRATION CONTROL SOLUTION

AHU KITS

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

COMMUNICATION KIT

NEW! PAHCMR000 NEW! PAHCMS000

CONTROL KIT

PRCKD21E / PRCKD41E

EEV KIT

PRLK048A0
PRLK096A0

TXV Kit (Thermal Expansion Valve)

PATX13A0E / PATX20A0E
PATX25A0E / PATX35A0E
PATX50A0E

Specifications

Communication & Control Kit

Type	Model	Combination				Description	Dimensions (mm)		
		Outdoor Unit	EEV Kit	TXV Kit	Centralized Controller		W	H	D
Communication kit	PAHCMR000	Multi V	•	•	•	Return / room air temperature control by DDC or LG individual / centralized controller	300	300	155
		Single Split	-	-	•				
	PAHCMS000	Multi V	•	•	•	Discharge air temperature control by DDC or LG individual / centralized controller	380	300	155
		Single Split	-	-	•				
Control kit	PRCKD21E	Multi V	-	•	•	Max capacity 1~4 master outdoor unit	600	750	285
	PRCKD41E	Multi V	-	•	•	Max capacity 5~8 master outdoor unit	600	750	285

Expansion Valves

Type	Model	Capacity Range	Pipe Diameter (mm)				Dimensions (mm)		
			Liquid (ODU)	Liquid (AHU)	Gas (ODU)	Gas (AHU)	W	H	D
EEV Kit (Electronic Expansion Valve)	PRLK048A0	1.3 ~ 10 HP	12.7	12.7	-	-	217	404	83
	PRLK096A0	12 ~ 20HP	12.7	12.7	-	-	217	404	83
TXV Kit (Thermal Expansion Valve)	PATX13A0E	8 ~ 16HP	15.88	15.88	22.22	22.22	491	238	174
	PATX20A0E	18 ~ 26HP	15.88	22.22	28.58	28.58	491	238	174
	PATX25A0E	28 ~ 36HP	22.22	28.58	34.92	34.92	491	238	174
	PATX35A0E	38 ~ 46HP	28.58	34.92	41.3	41.3	491	238	174
	PATX50A0E	48 ~ 56HP	28.58	34.92	41.3	41.3	561	291	192

Communication Kit

HIGH ENERGY EFFICIENCY

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

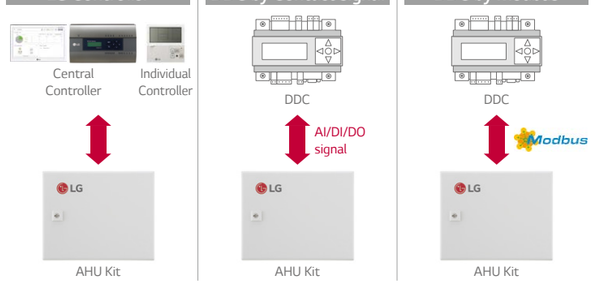
Solution benefits offer the following advantages:
- High energy efficiency inverter system
- Large range of expansion valves
  : 1.3 ~ 20 HP EEV Kit, 8 ~ 56 HP TXV Kit
- Connected to various heat sources
  : MULTI V, MULTI V WATER, MULTI V S, SINGLE SPLIT

DIVERSE OPTIONS FOR CONTROL

AHU communication kit can be connected to various control system such as LG individual/central controller and DDC*.
It can be directly connected to DDC without separated controller, so DDC can receive product control and monitor information through contact signal or Modbus protocol.

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

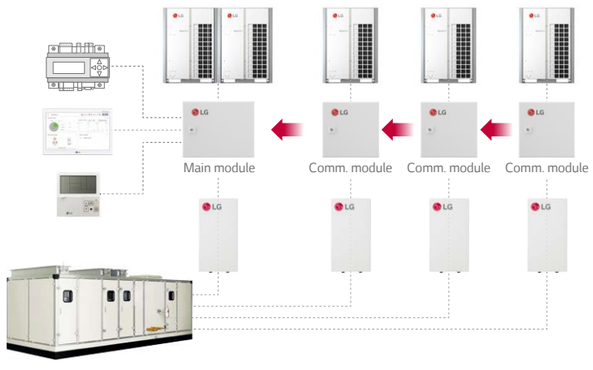
*DDC : Direct Digital Controller



EXPANDABLE SYSTEM DESIGN

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

- Multiple module combination for large capacity AHU



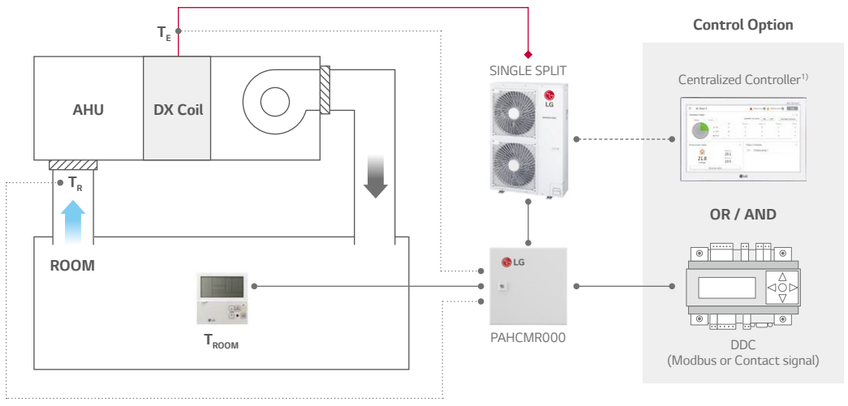
AHU KITS

Communication Kit Application

Small Capacity with Single Split + Return / Room Air Temperature Control

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

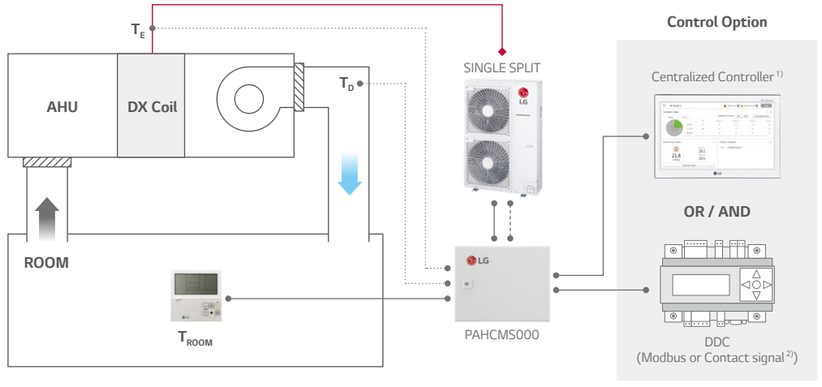
T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



Small Capacity with Single Split + Discharge Air Temperature Control

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

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



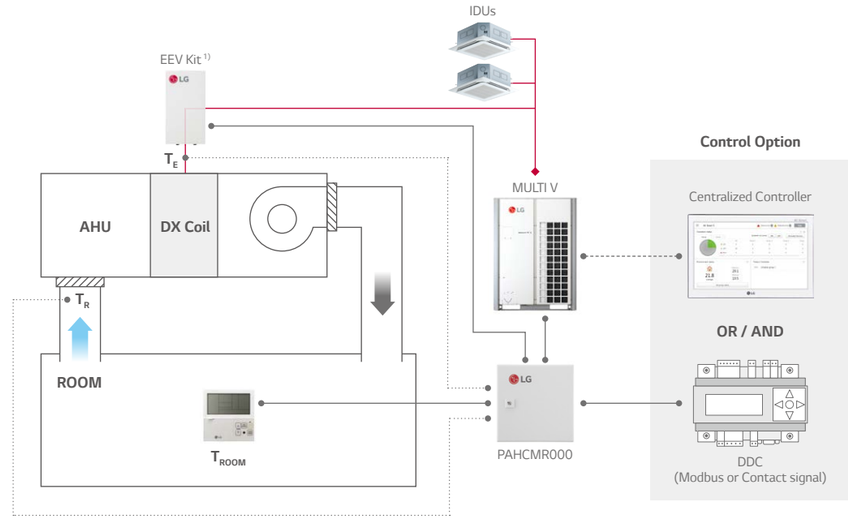
Note
1) PI485(PMNFP14A1) is required for centralized controller
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC
3) For more detail, please refer to the PDB

Communication Kit Application

Small-Medium Capacity with MULTI V + EEV Kit + IDU + Return / Room Air Temperature Control

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

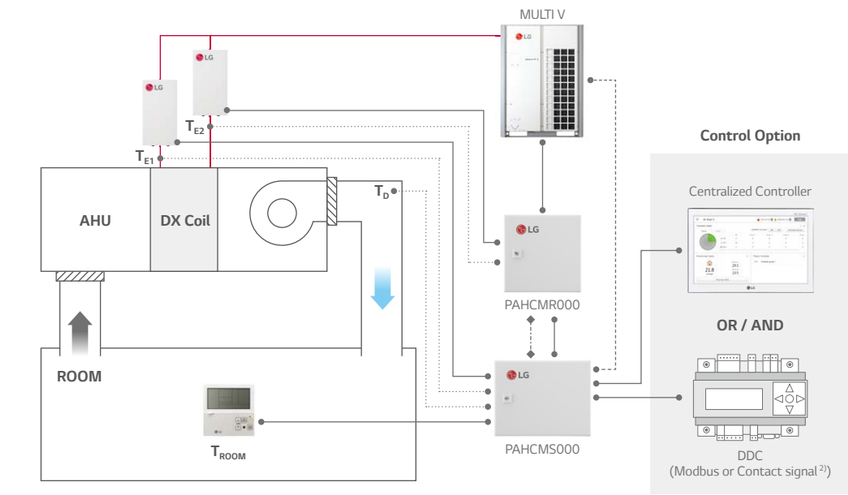
T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



Small-Medium Capacity with MULTI V + EEV Kit + Discharge Air Temperature Control

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

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



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

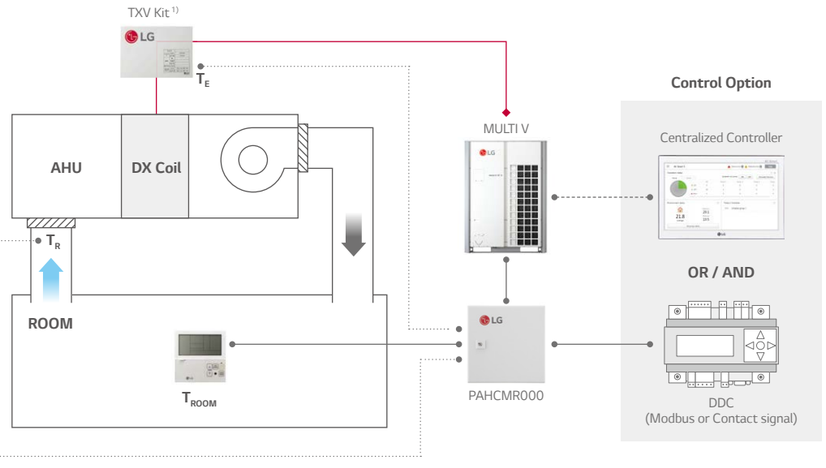
AHU KITS

Communication Kit Application

Large Capacity with MULTI V + TXV Kit + Return / Room Air Temperature Control

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

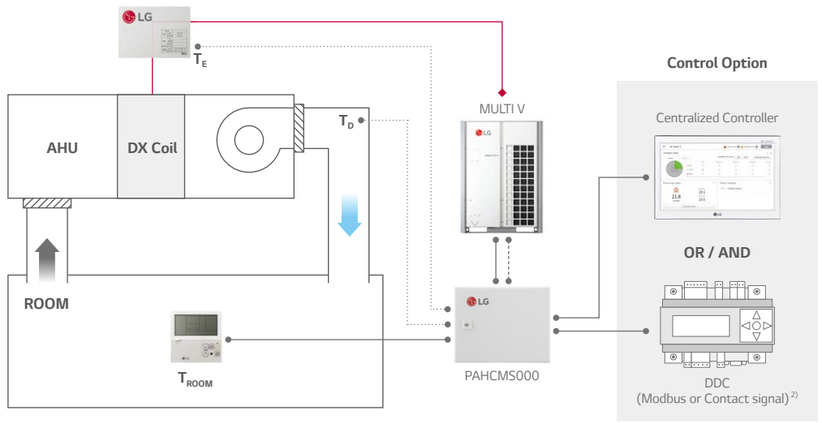
T_E = Evaporator Temperature (Liquid Pipe / Gas Pipe)
T_R = Return Air Temperature
T_{ROOM} = Room Air Temperature



Large Capacity with MULTI V + TXV Kit + Discharge Air Temperature Control

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

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



Note
1) TXV Kit should be connected with outdoor unit 1:1
2) In case of applying DDC with contact signal, discharge air temperature should be measured and controlled by DDC
3) For more detail, please refer to the PDB

Communication Kit Function

Communication with DDC via Contact Signal

Function List		PAHCMR000	PAHCMS000	Type	Electric Spec.
Control	Comm. Kit Operation	On / Off		Digital Input	Non voltage
	Operation Mode 1)	Cooling / Heating		Digital Input	Non voltage
	Return (room) Air Temperature 2)	16~30℃	-	Analog Input	DC 0~10 V / 20 mA
	Discharge Air Temperature 3)	-			
	Fan Speed 4)	-	Low / Middle / High	Digital Input	Non voltage
	Forced Thermal On / Off	On / Off	-	Digital Input	Non voltage
	Capacity Contro	-	•	Analog Input	DC 0~10 V / 20 mA
Monitor	Comm. Kit Operation 2)	On / Off		Digital Output	Max : DC 12 V / 1A, AC 250 V / 3A
	Operation Mode	-			It needs to be checked through control signal
	Return (room) Air Temperature	-			
	Discharge Air Temperature	-			
	Fan Speed 2)	Low / Middle / High		Digital Output	Max : DC 12 V / 1A, AC 250 V / 3A
	Defrost Operation 2)	Defrost / Normal		Digital Output	Max : DC 12 V / 1A, AC 250 V / 3A
	Error Alarm 2)	Error / Normal		Digital Output	Relay C contact (Max : DC 30 V / 5A, AC 250 V / 5A)
	Compressor On / Off	-	On / Off	Digital Output	Max : DC 12 V / 1A, AC 250 V / 3A

1) Available operation mode can be varied depending on the setting of Communication Kit
2) This function may not be possible depending on the setting of Communication Kit. For more details, please refer to the product data book
3) Discharge air temperature should be controlled directly through DDC
4) To control the fan speed using contact signal, DO ports for the status of fan speed needs to be connected with the fan unit

Communication with DDC via Modbus protocol

Function List		PAHCMR000	PAHCMS000	Note
Control	Comm. Kit Operation	On / Off		
	Operation Mode 1)	Cooling / Heating		
	Return (room) Air Temperature	16~30℃	-	
	Discharge Air Temperature	-	16~30℃	
	Fan Speed 2)	Low / Middle / High	-	
	Forced Thermal On / Off	-		
	Capacity Control	-	•	
Monitor	Comm. Kit Operation	On / Off		
	Operation Mode 1)	Cooling / Heating		
	Return (room) Air Temperature	-50~100℃	-	Corresponding air temperature sensor connected to AHU comm. kit is required
	Discharge Air Temperature	-	-50~100℃	
	Fan Speed	Low / Middle / High	-	
	Defrost Operation	On / Off		
	Error Alarm	Error Alarm & Code		
	Compressor On / Off	On / Off		

1) Available operation mode can be varied depending on the setting of Communication Kit
2) To control the fan speed using Modbus, DO ports for the status of fan speed needs to be connected with the fan unit
* For the Modbus memory map, pleases refer to the product data book

AHU KITS

Communication Kit Function

With LG Control system (Individual & Centralized Controller)

Function List		PAHCMR000	PAHCMS000	Note
Control*	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode [1]	Cooling / Heating	Cooling / Heating	
	Return (room) Air Temperature	16~30°C	-	
	Discharge Air Temperature [2]	-	16~30°C	
	Fan Speed [3]	Low / Middle / High	-	
	Forced Thermal On / Off	-	-	
	Capacity Control	-	-	
Monitor	Comm. Kit Operation	On / Off	On / Off	
	Operation Mode [1]	Cooling / Heating	Cooling / Heating	
	Return (room) Air Temperature	11~39.5°C / -50.0~100.0°C	-	By Individual controller : 11~39.5°C By Centralized controller : -50.0~100.0°C
	Discharge Air Temperature	-	-50.0~100.0°C	Only with Centralized Controller
	Fan Speed [3]	Low / Middle / High	-	
	Defrost Operation	On / Off	On / Off	Only with Individual Controller
	Error Alarm	Error Code	Error Code	
	Compressor On / Off	On / Off	On / Off	Only with Individual Controller

1) Available operation mode can be varied depending on the setting of Communication Kit. For more details, please refer to the product data book
2) This range may differ depending on the type of controller
3) To control the fan speed using contact signal, DO ports for the status of fan speed needs to be connected with the fan unit
* Control function is unavailable in case of using together with DDC via contact signal

Compatibility with LG HVAC Controllers

Controller	Individual Controller			Centralized Controller					BMS Gateway		PDI
	Premium	Standard III	Standard II	AC Ez	AC Ez Touch	AC Smart	ACP	AC Manager [1]	ACP BACnet ACP Lonworks	AC Smart BACnet	Premium Standard
											
Model no.	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000 PACS4B000	PACP5A000 PACP4B000	PACM5A000	PQNFB17C0 PLNWKB000	PBACNA000	PQNUD1S40 PPWRDB000
PAHCMR000	•	•	•	•	•	•	•	•	•	•	•
PAHCMS000	X	X	• [2]	X	X	•	•	•	X	X	X

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

Communication Kit Function

Outdoor Unit Compatibility

Multi V

Model		MULTI V				MULTI V WATER		
		5	IV	III	S	IV	II	S
AHU Controller	PAHCMR000	•	•	•	•	•	•	•
	PAHCMS000	•	•	•	•	•	•	X

Single Split

Standard Inverter (1-phase)								
Capacity	Cooling kW	4.7	7.7	8.0	10.0	12.5	13.9	14.6
	Heating kW	5.5	8.0	9.0	11.0	14.0	15.4	16.9
AHU Kit	PAHCMR000	•	•	•	•	•	•	•
	PAHCMS000	•	•	•	-	-	-	-

Standard Inverter (3-phase)							
Capacity	Cooling kW	10.0	12.5	13.9	14.6	19.0	23.0
	Heating kW	11.0	14.0	15.4	16.9	22.4	27.0
AHU Kit	PAHCMR000	•	•	•	•	•	•
	PAHCMS000	-	-	-	-	•	•

* Table of the outdoor unit compatibility is based on European regional model.
When connecting outdoor units in other areas, please check whether they are compatible or not.

Expansion valves for MULTI V system

EEV Kit																
	PRLK048A0											PRLK096A0				
HP	1.3	1.6	2	2.5	3	3.5	4	5	6	8	10	12	14	16	18	20
Cooling (kW)	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1	15.8	22.4	28	33.6	39.2	44.8	50.4	56
Heating (kW)	4	5	6.3	8	9.2	11.9	13.8	15.9	18	25.2	31.5	37.8	44.1	50.4	56.7	63

TXV Kit					
					PATX50A0E
				PATX35A0E	
			PATX25A0E		
		PATX20A0E			
	PATX13A0E				
HP	8 ~ 16	18 ~ 26	28~36	38~46	48~56
Cooling (kW)	22.4 ~ 44.8	50.4 ~ 72.8	78.4 ~ 100.8	106.4 ~ 128.8	134.4 ~ 156.8
Heating (kW)	25.2 ~ 50.4	56.7 ~ 81.9	88.2 ~ 112.1	118.4 ~ 143.6	148.5 ~ 175.1

* Capacities are based on the following conditions :
- Cooling : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
Condensing temperature (tc) 46°C, Subcool (SC) 3 K, Evaporating temperature (te) 6°C, Superheat (SH) 5 K
- Heating : Indoor 20°C(68°F) DB / 15°C(59°F) WB Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
Hot gas inlet temperature 70°C, Condensing temperature (tc) 46°C, Subcool (SC) 3 K
- Piping Length : Interconnected Pipe Length = 7.5m
- Difference Limit of Elevation (Outdoor ~ Indoor Unit) is zero

AHU KITS

Control Kit

List	Required Item
Heating / Cooling	SA / RA temperature sensor (or SA / RA temperature & humidity sensor)
Automatic Ventilation	SA / RA temperature, CO_2 sensor, Damper actuator (OA, EA, MA)
Energy Saving (Cooling Mode Only)	SA temperature, OA / RA temp&humidity sensor, Damper actuator (OA, EA, MA)
Humidification	SA temperature, RA temperature & humidity sensor, Humidifier
Inverter Fan Control	SA / RA temperature, Static pressure sensor, Inverter driver for fan control
Filter Alarm	Difference pressure sensor
Smoke Detecting	Smoke detection sensor

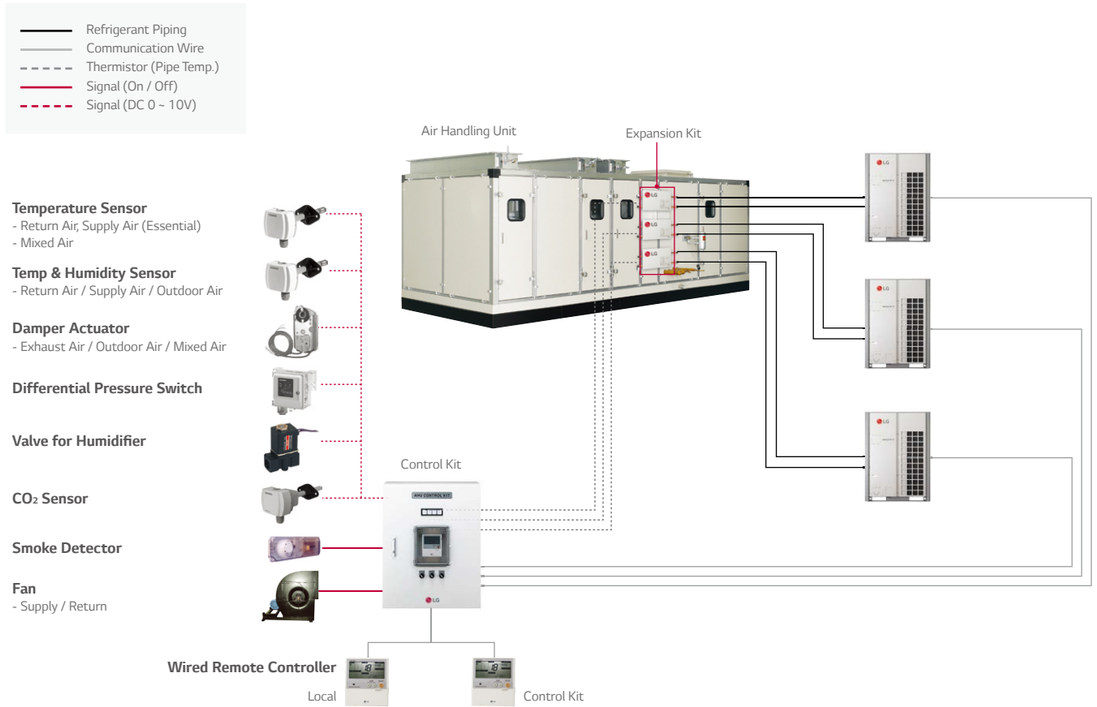
RA : Return Air, EA : Exhaust Air, OA : Outdoor Air, SA : Supply Air, MA : Mix air (RA + OA)

Field Supplied Item

List	Required Specification	Apply Location
Temperature Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -50 ~ 50°C	- Apply to MA, SA, RA
Temperature & Humidity Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -40 ~ 70°C - Humidity boundary : 0 ~ 95% RH	- Apply to SA, RA, OA - Can not be applied to MA
Damper Actuator	- Power : AC 24V, In/Output signal : DC 0 ~ 10V - Torque : 15 Nm, Operation time : 150sec. - Rotation angle : 90°	- Apply to OA, EA, MA damper
Difference Pressure Sensor (for Filter)	- Power : AC 24V, Output signal : DC 0 ~ 10V * Boundary : 0 ~ 1000Pa - Switch type : Relay Open / Close	- Apply to filter
Static Pressure Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 1000pa	- Apply to SA (for inverter control)
CO_2 Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Boundary : 0 ~ 2000ppm	- Apply to RA duct
Smoke Detection Sensor	- Power : AC 24V, From : Contact point type	- Apply to RA duct

Note : Boundary of specification can be changed through LGAV software. However, please make a specification referring to the above table

Various Control with Control kit – Multiple MULTI Vs + TXV Kits



ACCESSORIES

Mechanical Accessories

Piping Accessories

MECHANICAL ACCESSORIES

CASSETTE PANEL

Stylish designed panels make more unique space by various applications

4 Way Cassette
PT-MCHW0
PT-QCHW0
PT-UQC / PT-UMC1

2 Way Cassette
PT-HLC / PT-USC

1 Way Cassette (Grill Type)
PT-UUC / PT-UUC1 / PT-UTC

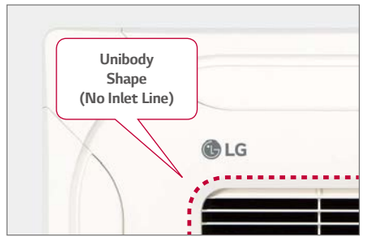
(Panel Type)
PT-UUD / PT-UTD

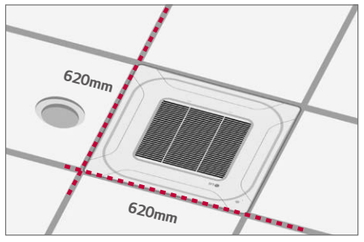
Features

- Independent vane operation uses separate motors, making it Possible to control all four vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

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





Specifications

Model name		Suction Type	Color (RAL)	Gloss	Weight (kg)	Dimension (mm)			Applied model		
						W	H	D	SINGLE SPLIT	MULTI SPLIT	MULTI V
4 Way	PT-QCHW0	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	620	20	620	2.5 ~ 5.0kw	2.5 ~ 5.0kw	1.5 ~ 5.0kw
	PT-MCHW0	Horizontal Grill	Morning Fog (RAL 120-4)	X	6.3	950	35	950	7.1 ~ 15.0kw	7.1kw	7.1 ~ 14.0kw
	PT-UQC	Horizontal Grill	Morning Fog (RAL 120-4)	X	3.0	700	22	700	2.5 ~ 5.0kw	1.5 ~ 5.0kw	1.5 ~ 5.0kw
	PT-UMC1	Horizontal Grill	Morning Fog (RAL 120-4)	X	5.6	950	25	950	7.1 ~ 15.0kw	7.1kw	7.1 ~ 14.0kw
2 Way	PT-HLC	Grill	Morning Fog (RAL 120-4)	X	4.0	1,050	28	640	-	-	5.0 ~ 7.1kw
	PT-USC	Grill	Morning Fog (RAL 120-4)	X	4.7	1,100	33	690	-	-	5.0 ~ 7.1kw
1 Way	PT-UUC	Grill	Noble White (RAL 110-1)	O	4.6	1,100	34	500	-	-	2.1 ~ 3.5kw
	PT-UUC1	Grill	Morning Fog (RAL 120-4)	X	4.4	1,100	34	500		2.5 ~ 3.5kw	2.5 ~ 3.5kw
	PT-UTC	Grill	Noble White (RAL 110-1)	O	5.5	1,420	34	500	-	-	5.0 ~ 7.1kw
	PT-UUD	Panel	Noble White (RAL 110-1)	O	4.6	1,100	34	500	-	-	2.1 ~ 3.5kw
	PT-UTD	Panel	Noble White (RAL 110-1)	O	5.5	1,420	34	500	-	-	5.0 ~ 7.1kw

MECHANICAL ACCESSORIES

CASSETTE COVER / PLASMA KIT

Air purifying filter to prevent dust and allergens

PTDCM / PTDCQ

Features

- Specially designed for indoor unit
- Covers the side area of cassette
- Gives elegant looks
- Light weight

Models Applied

- 4 Way Cassette (for chassis TP, TN, TM, TQ, TR)

Parts Included

- Cover A (4EA), Cover B (4EA)
- Cover C (4EA), Cover D (4EA)
- Screws
- Installation Manual (1EA)

Accessory Model Name

Model	Front Panel		Weight (kg)		Dimensions (mm)		
			NET	Gross	W	H	D
PTDCM	PT-UMC / PT-UMC1	TP / TN	5.9	8.8	1,157	1,157	268
		TM	5.9	8.8	1,157	1,157	310
PTDCQ	-	TR	5.0	7.2	907	907	268
	-	TQ	5.0	7.2	907	907	310

Air purifying filter to repel dust and allergens

PTPKM0 / PTPKQ0

Features

It can remove microscopic contaminants such as dust and pollen to help reduce allergies.

* Plasma kit and Auto Elevation Grille are not applicable at the same time

Models Applied

Type	SINGLE SPLIT	MULTI SPLIT	MULTI V
4 Way Cassette	Option (2.5 / 3.5 / 5.0kw : PTPKQ0) (7.1kw ~ 15.0kw : PTPKM0)	Option (1.5 / 2.1kw : PTPKQ0)	Built-in
2 Way Cassette	-	-	-
1 Way Cassette	-	Built-in	Built-in

Parts Included

- Plasma Kit (1EA)
- Screws
- Installation Manual (1EA)

MECHANICAL ACCESSORIES

AUTO ELEVATION GRILLE

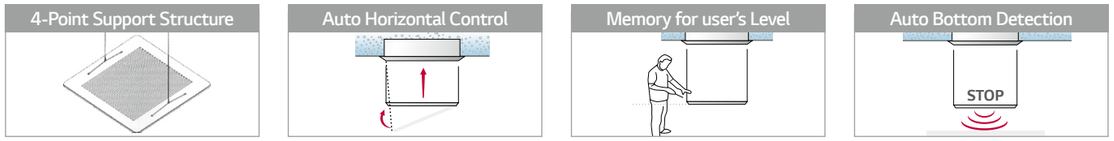
Easy filter cleaning with the elevation grille

PTEGM0

Features

Easy Filter Cleaning with Elevation Grill

- Installation inside main body
- Memory for user's level
- Auto horizontal control
- Max 4.5m length
- 4 points support structure
- Model : PTEGM0 (for chassis TM, TN, TP)



Operating with wired remote controller* and wireless remote controller included in PTEGM0.
* PREMTB001, PREMTBB01

Models Applied

• 4 Way Cassette : Refer to PDB for applicable models

Parts Included

- Inlet Grille (1EA)
- Auto Elevation Grille Kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation Manual (1EA)

Application

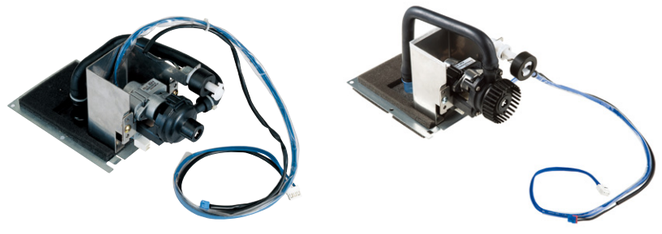
Auto elevation grille kit → Install the kit inside indoor unit → Install the front panel and the Inlet grille → Operate the auto elevation grille by the wireless remote controller → Easy maintenance

MECHANICAL ACCESSORIES

DRAIN PUMP KIT

Drains away condensed water

ABDPG
PBDP9



Features

- In some places where natural drainage is not possible, a drain pump is very useful to pump out condensed water from indoor units.
- Drain pump assembly (AC 220 ~ 240V, 50 / 60Hz)

Models Applied

- Ceiling Concealed Duct (Refer to PDB for applicable models)

Accessory Model Name

Ceiling Concealed Duct (Refer to PDB for applicable models)

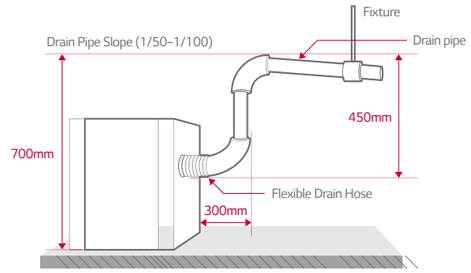
Product	Model		Drain Pump
SINGLE / MULTI SPLIT	H-INVERTER		Included
	Standard Inverter	CB**L	Included
		CM** / UM**	ABDPG
		UB70 / UB85	PBDP9
	Compact Inverter		ABDPG
MULTI V			Included

Application

High head drain pump automatically drains water up to 700mm of drain-head height.
It provides perfect solution for water drainage.

High Head Drain Pump

* Included in H-Inverter
* Supplied as accessory for Standard Inverter (ABDPG/ PBDP9)



CO_2 SENSOR

CO_2 sensor in ventilation system.

PES-C0RV0

Features

• Specification

- Applied Model : ERV, ERV DX
- Function
  - Supply Vottage : DV 12V ± 5%
  - Output : 0 ~ 5V
    (Linear output, 1 ~ 2,000ppm CO_2)
  - Accuracy : 30ppm ± 5% of reading

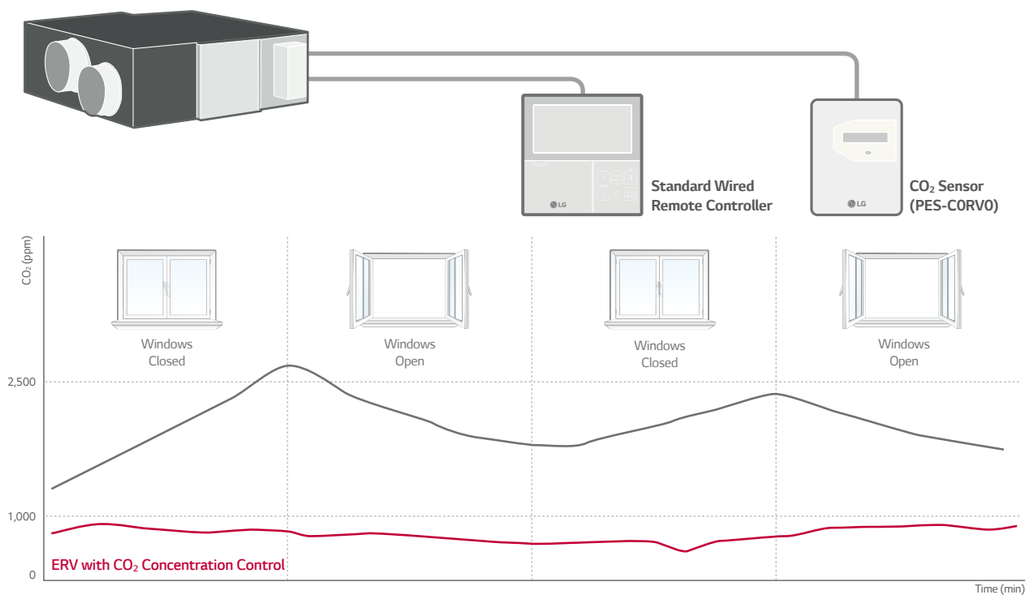
• Description

The product is especially designed to detect CO_2 concentration in ERV system.

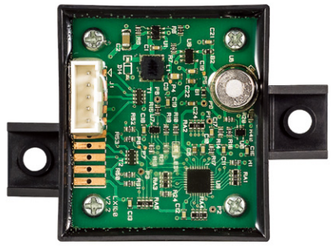
• Operation Table

CO_2 Sensor Reading	ERV Fan Operation
<500ppm	Off
500 ~ 700ppm	Low Speed
700 ~ 900ppm	High Speed
>900ppm	Super High Speed

Installation Scene



AHCS100H0



Features

• Specification

- Applied Model : ERV (Default), ERV DX (Optional)
- Supply voltage : DV12V ± 5%
- Output : 0.6 ~ 4.4V (Linear output, 240 ~ 1,760 ppm CO_2)
- Accuracy : ± 10% (2 days after installation)

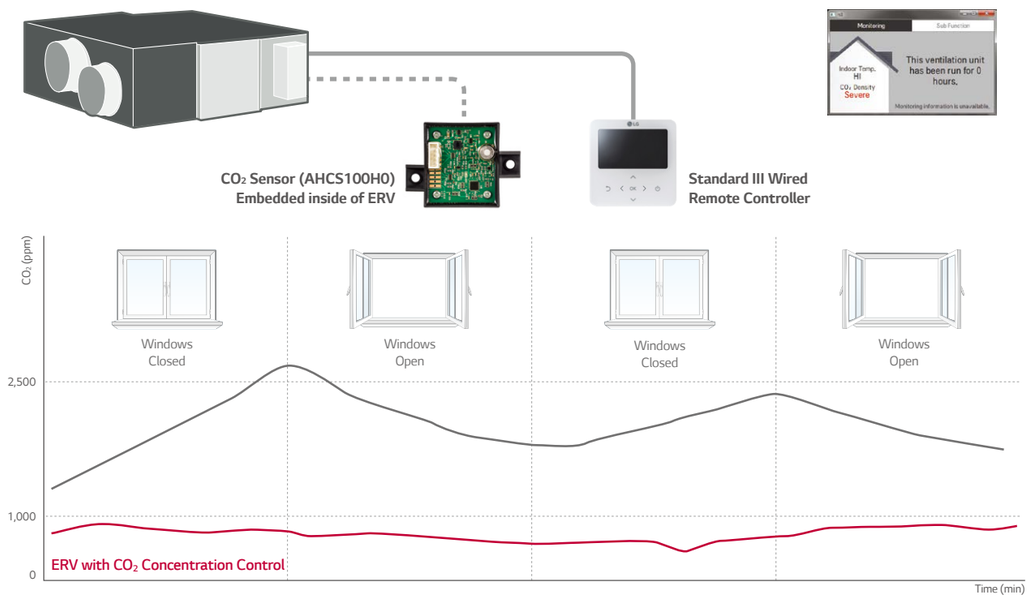
• Description

- The product is especially designed to detect CO
- This model requires Standard III Wired Remote Controller for display

• Operation Table

CO_2 Sensor Reading	ERV Fan Operation
<500ppm	Off
500 ~ 700ppm	Low Speed
700 ~ 900ppm	High Speed
>900ppm	Super High Speed

Installation Scene



F7 FILTER

F7 filter for ventilation system

AHFT035H0
AHFT050H0
AHFT100H0

Specification

For ERV

Filter Model			AHFT035H0		AHFT050H0	AHFT100H0		AHFT100H0	
Product Model			LZ-H025GBA4	LZ-H035GBA5	LZ-H050GBA5	LZ-H080GBA5	LZ-H100GBA5	LZ-H150GBA5	LZ-H200GBA5
Dimension	W	mm	423.5	423.5	425	520	520	520	520
	H		132	132	194	192	192	192	192
	D		25	25	25	25	25	25	25
Quantity		EA	2	2	2	2	2	4	4

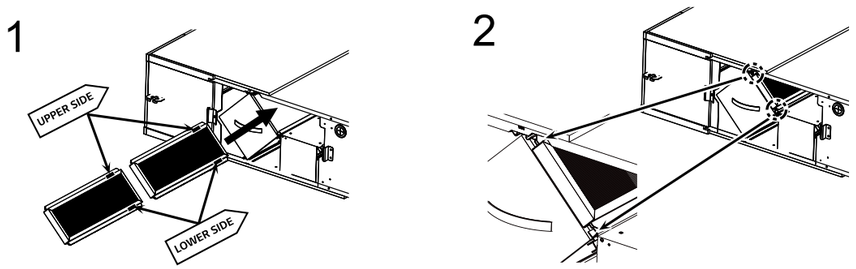
* 2 pieces in 1 filter package

For ERV DX

Filter Model			AHFT100H0					
Product Model			LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Dimension	W	mm	520					
	H		192					
	D		25					
Quantity		EA	2					

* 2 pieces in 1 filter package

Installation



1. Please check the direction of the filter's label.
2. Insert the filters on the right upper side of the total heat exchanger.
* Maintain once every 6 months.
* The part and standard of installation is designed for LG product, it is not allowed them to adapt non - LG product.

REFRIGERANT LEAKAGE DETECTOR

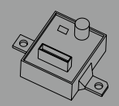
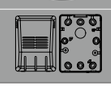
R410A refrigerant leakage detector makes our space safer

PRLDNVS0

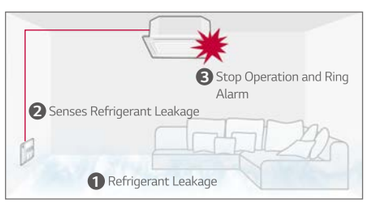
Features

- This detector senses refrigerant leakage and when the refrigerant concentration exceeds 6,000ppm not only it will stop indoor unit operation, but also it will give an alarm using buzzer and sensor LED. (The green and red LED lights blink simultaneously.)
- Alarm is "ON" over 6,000ppm has been maintained 5 seconds, and on the contrary to this, Alarm is "OFF" under 6,000ppm has been maintained 5 seconds.
- When the alarm of the refrigerant leak detector is switched on the user must ventilate until the alarm is disabled.
- The detector has to be installed inside the room and it can be installed 300 ~ 500mm from floor.

Specifications

Parts		Specifications	
Sensor		Rated Voltage (V)	DC 5.0 ± 5%
		Dimensions (W x H x D, mm)	31 x 44 x 20
		Weight (g)	22
		Detectable Refrigerant	R410A
		Detected Concentration (ppm)	0 / 6,000 Alarm Off / On
		Operating Temperature Range (°C)	-10 ~ 50
		Preserved Temperature Range (°C)	- 40 ~ 60
		Average Power Consumption (mA)	35
Connecting Cable		Cable Length (m)	10
Sensor Protective Cover		Dimensions of Front Plate (W x H x D, mm)	80 x 110 x 44.6
		Dimension of Backplate (W x H x D, mm)	80 x 110 x 6.5

Application



MECHANICAL ACCESSORIES

EEV KIT

MULTI V EEV KIT is specially designed to reduce noise and make comfort environment

PRGK024A0

Features

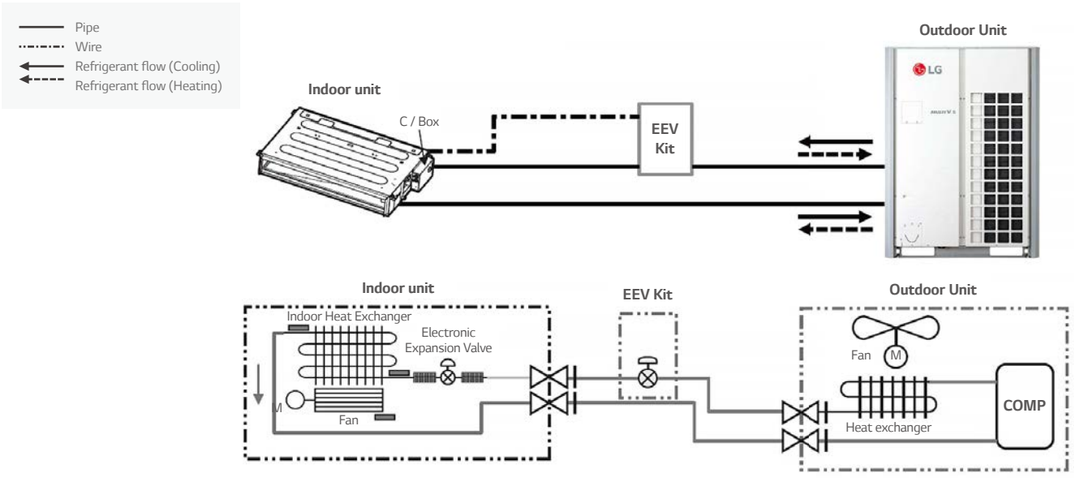
• Decreasing noise level of Multi V Indoor units Easy installation

Models Applied

• Ceiling Cassette (up to 15kBtu)
• Ceiling concealed duct (up to 18kBtu)
• Wall mounted (up to 24kBtu)
• Console (up to 15kBtu)
• Floor Standing Unit (with case / without case) (up to 15kBtu)
• Convertible (up to 12kBtu, Ceiling Suspended Type is not able to connect this Kit)

*** Fresh Air intake Unit is not able to connect this Kit**

Application



Note : If you don't use EEV of same specification, Cooling (Heating) capacity may decrease.

MECHANICAL ACCESSORIES

IR RECEIVER

IR RECEIVER can be connected to CCD where the customer wants to control by wireless remote controller

PWLRVN000

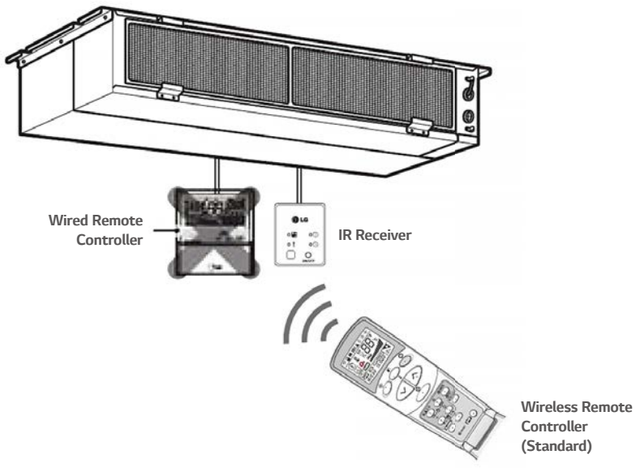
Features

• Designed for wireless control to operate Ceiling concealed duct Operation of Indication lamp (3 colors) Self-diagnosis function

Models Applied

• MULTI V Indoors (Ceiling concealed duct, Floor standing units)

Application



Note : Do not install both the IR Receiver and Wired Remote Controller. This may cause malfunctions.

MECHANICAL ACCESSORIES

INDEPENDENT POWER MODULE

EEV full close function in case of power cut

PRIP0

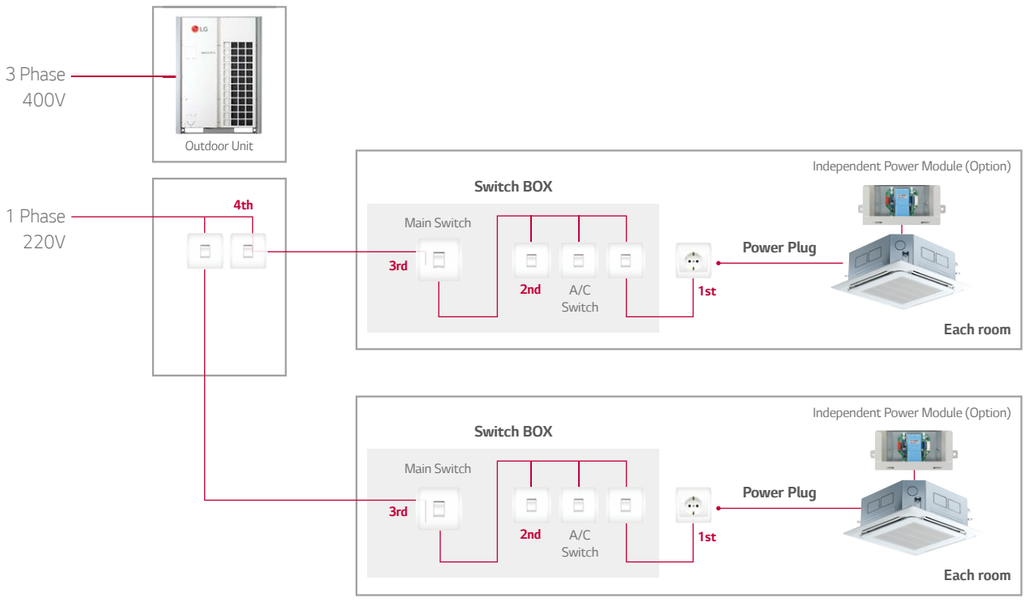
Features

Independent Power Module is specially designed to close the Indoor EEV at power cut-Off.

- Supply Voltage : DC 12V ± 50%

Models Applied

• MULTI V Indoors



MECHANICAL ACCESSORIES

SOLARS HEATING KIT

Air discharge in difficult to access areas

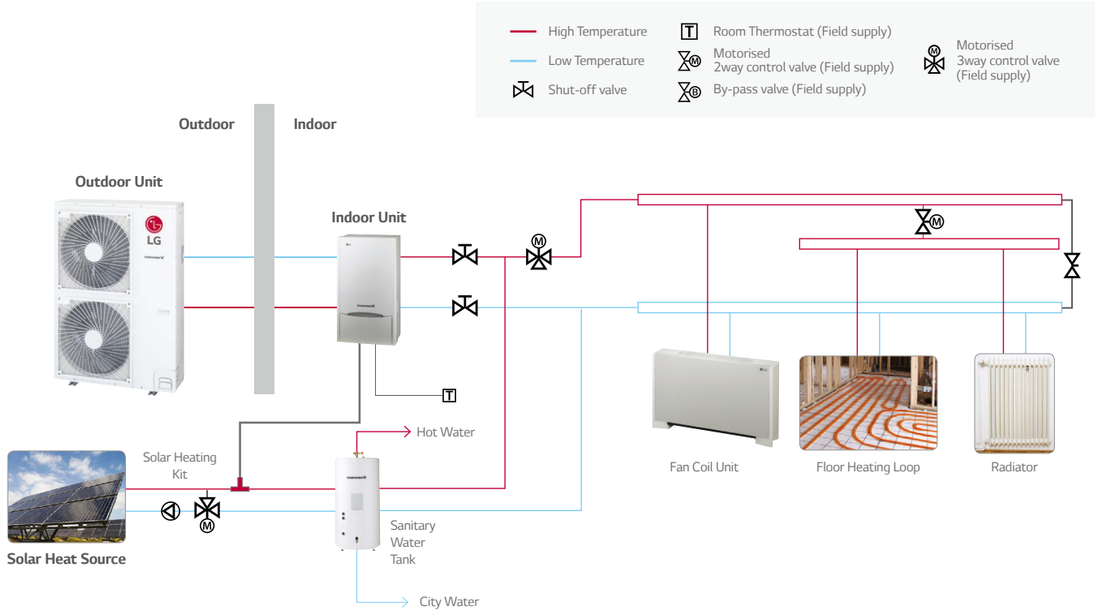
PHLLA

Features

- Interface for solar-thermal system with split-type THERMA V and double coil sanitary tank
- Installed at the water pipe, between sanitary tank and solar-thermal system
- Dimensions (H x W x D, mm) : 110 x 55 x 22
- According to solar system's water temperature, THERMA V controls 3 way valve's direction

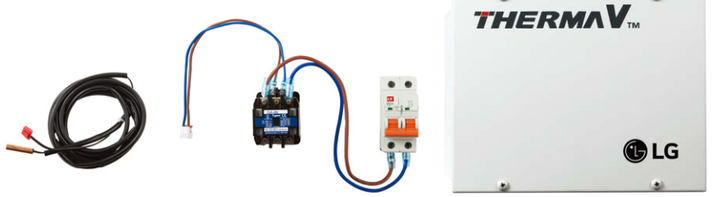
Installation Scene

• Components : THERMA V system, PHLTA, PHLTC, and field-supplied items.



MECHANICAL ACCESSORIES

SANITARY TANK KIT



PHLTA (1Ø, Spilt) / PHLTC (3Ø, Spilt)
PHLTB (Monobloc)

* The sensor (PHRSTA0) can be purchased separately in case of using other brand's sanitary tank. PHRSTA0 is included in PHLTA, PHLTC, PHLTB.

Features

Spilt

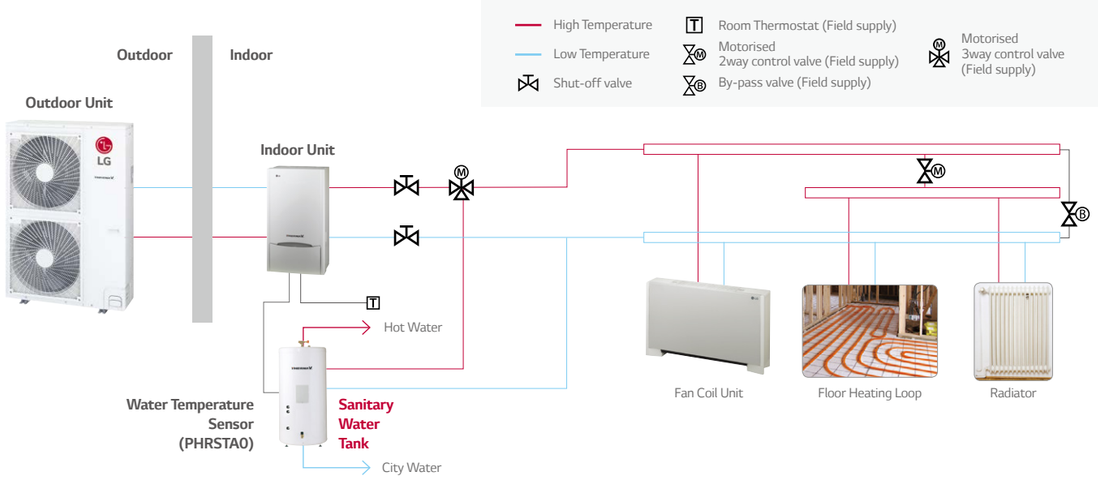
- **PHLTA (1Ø) / PHLTC (3Ø)**
  - To control sanitary tank temperature and sanitary tank electric heater for split models.
  - This unit will be installed inside indoor unit.

Monobloc

- **PHLTB**
- **Easy to install sanitary water tank for monobloc.**
  - There is a MCCB (Mold Case Current Breaker) to protect the product.
- **Dimensions (H x W x D, mm) : 250 x 170 x 110**
- **Weight (kg) : 2.1**
  - This unit will be installed outdoor.

Installation Scene

Components : THERMA V system, PHLTA, PHLTC, and field-supplied items.



MECHANICAL ACCESSORIES

DOMESTIC HOT WATER TANK

SINGLE COIL
LGRTV200E (198 LITERS)
LGRTV300E (287 LITERS)

DOUBLE COIL
LGRTV200VE (198 LITERS)
LGRTV300VE (287 LITERS)

Features

Store and provide hot water for sanitation

Installation Scene

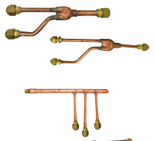
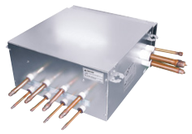
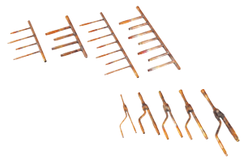
Domestic Hot Water Tank - Single Coil

Domestic Hot Water Tank			LGRTV200E	LGRTV300E
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	45	59
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
	Color - White RAL		White NC	White NC
Characteristics of Electrical Back-up	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	°C	60-90	60-90
Characteristics of Exchanger	Exchanger Type		Single	Single
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	°C	80	80
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Suppy	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
MANDATORY OPTIONAL ACCESSORIES				
Domestic Hot Water Tank Installation Kit			PHLTA	PHLTA

Domestic Hot Water Tank - Double Coil

Domestic Hot Water Tank			LGRTV200VE	LGRTV300VE
General Characteristics	Water Volume	L	198	287
	Diameter	mm	580	580
	Height	mm	1,230	1,680
	Empty Weight	kg	49	64
	Tank - Materials		Stainless steel	Stainless steel
	Outer Skin - Materials		Paint Epoxy	Paint Epoxy
	Color - White RAL		White NC	White NC
Characteristics of Electrical Back-up	Additional Electric Heater	kW	3	3
	Adjustable Thermostat	°C	60-90	60-90
Characteristics of Exchanger	Exchanger Type		Double	Double
	Material Exchanger		LDX 2101 - Stainless Steel	LDX 2101 - Stainless Steel
	Maximum Water Temperature	°C	80 (With an Heat Pump)	80 (With an Heat Pump)
Hydraulic Connections - Heat Pump	THERMA V Entry	mm	25	25
	THERMA V Exit	mm	25	25
Hydraulic Connections - Domestic Hot Water Tank	City Water Entry	mm	22	22
	Hot Water Exit	mm	22	22
Electric Connection	Suppy	Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
MANDATORY OPTIONAL ACCESSORIES				
Domestic Hot Water Tank Installation Kit			PHLTA	PHLTA

LINE-UP

SINGLE SPLIT	MULTI SPLIT	MULTI V	ETC
Y Branch and Header Branch (Synchro)  2 Units PMUB11A 3 Units PMUB111A 4 Units PMUB1111A	**Branch Distributor**  PMBD3620 PMBD3630 PMBD3640 **Y Branch and Branch Kit**  2 Units PMBL3620 PMBL5620 2 Units PMBL1203F0	**Heat Recovery Unit**  PRHR022 PRHR032 PRHR042 **New Heat Recovery Unit**  PRHR023 PRHR033 PRHR043 PRHR063 PRHR083 **Y Branch and Header Branch** 	**Refrigerant Charging Kit**  PRAC1 **Stopper Valve**  PRVT120 PRVT780 PRVT980 **Drain Hose**  PHDHA05T PHDHA07T PHDHA05B PHDHA07B

Mechanical Accessories Line up and Application

Model name	SINGLE SPLIT	MULTI	MULTI V	Remark
Y Branch and Header Branch (Synchro)	•	-	-	-
Branch Distributor (MULTI)	-	•	-	MULTI F DX systems
Y Branch and Branch Kit (MULTI)	-	•	-	MULTI F DX systems
New Heat Recovery Unit (Multi V)	-	-	•	MULTI V 5
Hear Recovery Unit (Multi V)	-	-	•	MULTI V 5 / MULTI V IV HR / MULTI V III HR MULTI V S HR / MULTI V SYNC II / MULTI V SYNC MULTI V WATER IV HR / MULTI V WATER II HR
Y Branch and Header Branch (MULTI V)	-	-	•	Various type of MULTI V Series

Y BRANCH AND HEADER BRANCH

Refrigerant distribution channel

Gas Pipe

Liquid Pipe

2 UNITS
PMUB11A

3 UNITS
PMUB111A

4 UNITS
PMUB1111A

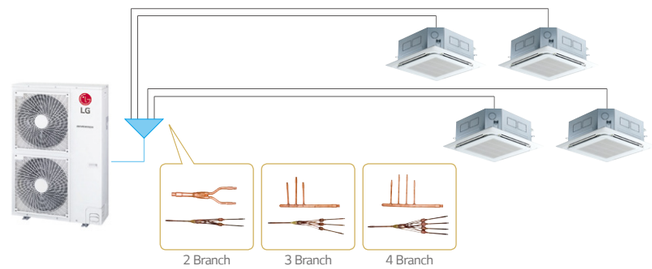
Features

- Various Y Branch pipes of different capacities make installation easier
- Y Branch and header branch for both gas and liquid are provided
- Insulation material is also provided for covering the branches

Models Applied

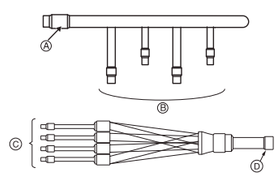
- H-inverter : 10.0 / 12.5 / 13.4kw
- Standard inverter : 12.5 / 14.0 / 15.0 / 20.0 / 25.0kw

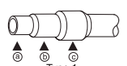
Application



Accessory Model Name

Model name	SINGLE SPLIT	Remark
2 Units	PMUB11A	50:50 (1:1)
3 Units	PMUB111A	33:33:33 (1:1:1)
4 Units	PMUB1111A	25:25:25:25 (1:1:1:1)





	a	b	c	Type
A	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø25.4 (1)	1
B	Ø9.52 (3/8) Ø12.7 (1/2)	Ø12.7 (1/2) Ø15.88 (5/8)	-	2
C	Ø6.35 (1/4)	Ø9.52 (3/8)	-	2
D	Ø9.52 (3/8)	Ø12.7 (1/2)	-	2

PIPING ACCESSORIES

BRANCH DISITRIBUTOR DISTRIBUTOR BOX

Effective way of distributing refrigerant

PMBD3620
PMBD3630
PMBD3640

Features

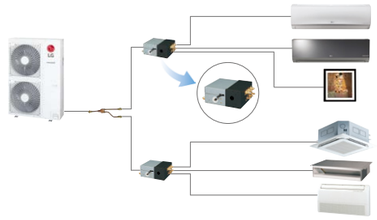
- Distribution of refrigerant to various indoor units
- 3 models (2, 3, 4 indoor units)
- Consists of LEVs inside it
- Controlling PCB inside the unit
- Internally insulated (Prevents any chances of drainage)
- Flare joints for easy and clean installation
- Compact design (Low height)
- Flexible installation

Models Applied

- MULTI F DX systems (Refer to PDB for applicable models)

Parts Included

- BD (Banch Distributor) unit (1EA)
- Brackets (4EA)
- Screws (8EA)
- Installation Manual (1EA)



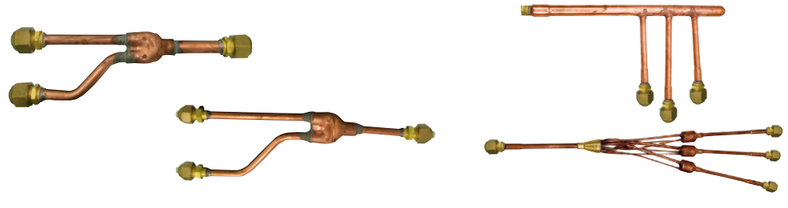
Models Applied

Model Name			PMBD3620	PMBD3630	PMBD3640
Connectable Indoor Units	Number of Indoor Units		1~2	1~3	1~4
Capacity	(Btu/hr)		5k / 7k / 9k / 12k / 18k / 24k	5k / 7k / 9k / 12k / 18k / 24k	5k / 7k/9k / 12k / 18k / 24k
Casing Colour			Paintingless	Paintingless	Paintingless
Power Source	Ø / V / Hz		1 / 220-240 / 50	1 / 200-240 / 50	1 / 200-240 / 50
Power Consumption	(W)		10	10	10
Running Current	(A)		0.05	0.05	0.05
Dimensions	(W x H x D)	(mm)	302 x 143 x 252	302 x 143 x 252	302 x 143 x 252
Packing Dimensions	(W x H x D)	(mm)	422 x 202 x 300	422 x 202 x 300	422 x 202 x 300
Net Weight			4.8	4.9	5.0
Connecting Cable	Indoor Unit No. x mm²		4 x 0.75	4 x 0.75	4 x 0.75
	Outdoor Unit No. x mm²		4 x 0.75	4 x 0.75	4 x 0.75
Piping Connection (Outdoor Unit)	liquid	(mm)	9.52	9.52	9.52
	Gas	(mm)	19.05	19.05	19.05
Piping Connection (Indoor Unit)	Liquid	(mm)	6.35 x 2	6.35 x 3	6.35 x 4
	Gas	(mm)	9.52 x 2	9.52 x 3	9.52 x 4
Parts	Hanger	(EA)	4	4	4
	Screw	(EA)	8	8	8
	Manual	(EA)	1	1	1

PIPING ACCESSORIES

Y BRANCH AND BRANCH KIT MULTI F DX

Refrigerant distribution channel



2 UNITS
PMBL3620 / PMBL5620

2 UNITS
PMBL1203F0

Features

- Y Branch and Branch kit make Multi F DX installation easier
- Y Branch and Branch kit for both gas and liquid are provided
- Insulation material is also provided for covering the branches

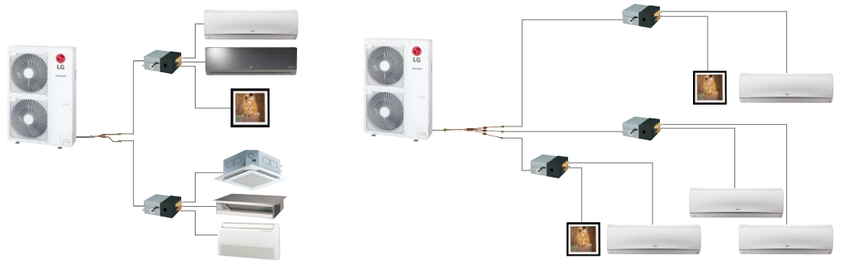
Models Applied

- MULTI F DX systems (refer to PDB for applicable models)

Parts Included

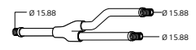
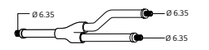
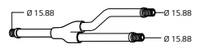
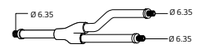
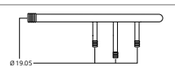
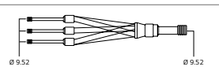
- Y Branch for gas side and liquid side (1set)
- Installation manual (1EA)

Application



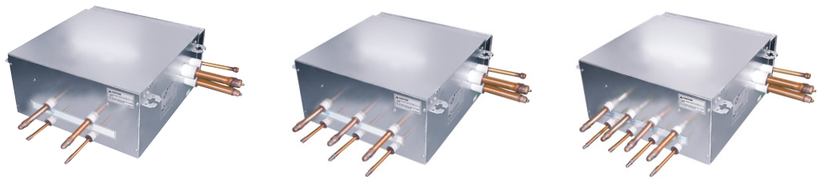
Accessory Model Name

(Unit : mm)

Model Name	No. of Branch Distribution Units	Applicable Model	Specifications	
			Gas	Liquid
PMBL3620	2 units	Only 3ø, 36k Btu/h		
PMBL5620	2 units	1ø, 3ø		
PMBL1203F0	3 units	1ø, 3ø		

HEAT RECOVERY UNIT

PRHR022 (2 branch Unit)
PRHR032 (3 branch Unit)
PRHR042 (4 branch Unit)



Features

- Max. 32 indoor units can be connected (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection
- Subcooling cycle in HR unit makes the system efficiency maximum

Models Applied

- MULTI V 5
- MULTI V SYNC II
- MULTI V WATER II Heat Recovery
- MULTI V IV Heat Recovery
- MULTI V SYNC
- MULTI V S Heat Recovery
- MULTI V III Heat Recovery
- MULTI V WATER IV Heat Recovery

Specifications

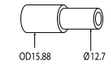
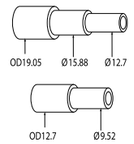
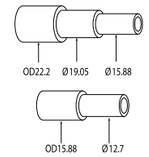
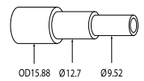
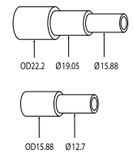
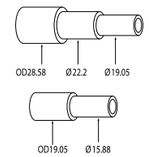
Model name				PRHR022	PRHR032	PRHR042
Number of Branch			EA	2	3	4
Maximum Connectable Capacity of Indoor Units (Per branch / unit)			kW	16 / 32	16 / 48	16 / 58
Maximum Number of Connectable Indoor units per Branch			EA	8	8	8
Nominal Input	Cooling		kW	0.026	0.040	0.040
	Heating		kW	0.026	0.040	0.040
Net. Weight			kg	18	20	22
Dimensions (W x H x D)			mm	831 x 218 x 617	831 x 218 x 617	831 x 218 x 617
Piping connections	Indoor Unit	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)	15.88 (5/8)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
		Low pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)
Power supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60

Parts Included

- HR unit (1EA)
- Washers M10 (8EA)
- Hanging bolts M10 or M8 (4EA)
- Reducers
- Nut M8 or M10 (8EA)

Reducers for Indoor Unit and HR Unit

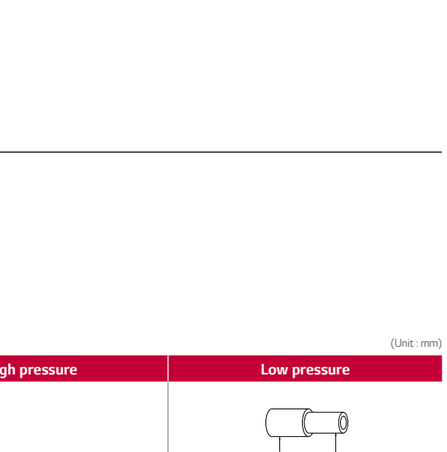
(Unit : mm)

Model Name		Liquid	High pressure	Low pressure
Indoor Unit Reducer				
HR Unit Reducer	PRHR022			
	PRHR032 / PRHR042			

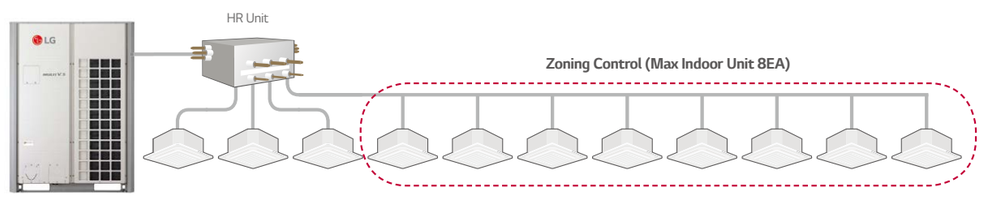
Convenient Free Zoning

MULTI V Heat Recovery provides flexible control over individual zones for the user's convenience

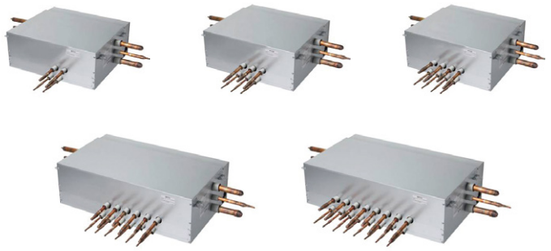
- **Individual Control**
  - Perfect individual control over spaces ventilation needed
- **Zone Control**
  - Max. of 8 indoor units can be connected for one branch
  - Max. of 32 indoor units can be connected for one HR unit
  - Same opeational model can be operated by indoor units with zone control function installed
- **Combination of Individual and Zoning Installations**
  - Flexible piping design
- **Save Product and Installation Cost**



[Zoning Control]



NEW HEAT RECOVERY UNIT



PRHR023 (2 Branch Unit)
PRHR033 (3 Branch Unit)
PRHR043 (4 Branch Unit)
PRHR063 (6 Branch Unit)
PRHR083 (8 Branch Unit)

Features

- Max. 64 indoor units can be connected (Max. 8 indoor units per branch)
- It is easy to install due to the automatic search algorithm for piping detection
- Subcooling cycle in HR unit makes the system efficiency maximum

Models Applied

- MULTI V 5 Heat Recovery

Specifications

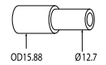
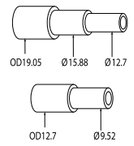
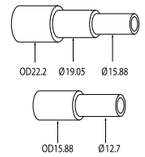
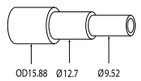
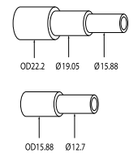
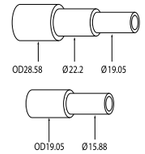
Model name				PRHR023	PRHR033	PRHR043	PRHR063	PRHR083
Number of Branch			EA	2	3	4	6	8
Maximum Connectable Capacity of Indoor Units (Per branch / unit)			kW	17.5/35	17.5/52.5	17.5/69.5	17.5/69.5	17.5/69.5
Maximum Number of Connectable Indoor units per Branch			EA	8	8	8	8	8
Nominal Input	Cooling		kW	0.040	0.040	0.040	0.076	0.076
	Heating		kW	0.038	0.038	0.038	0.072	0.072
Net. Weight			kg	18.5	20.3	22.0	28.3	31.8
Dimensions (W x H x D)			mm	786 x 218 x 657	786 x 218 x 657	786 x 218 x 657	1,113 x 218 x 657	1,113 x 218 x 657
Piping connections	Indoor Unit	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
		Low pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)	28.58 (11/8)
		High Pressure	mm (inch)	19.05 (3/4)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)	22.2 (7/8)
Power supply			Ø / V / Hz	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60	1 / 220-240 / 50 1 / 220 / 60

Parts Included

- HR unit (1EA)
- Washers M10 (8EA)
- Hanging bolts M10 or M8 (4EA)
- Reducers
- Nut M8 or M10 (8EA)

Reducers for Indoor Unit and HR Unit

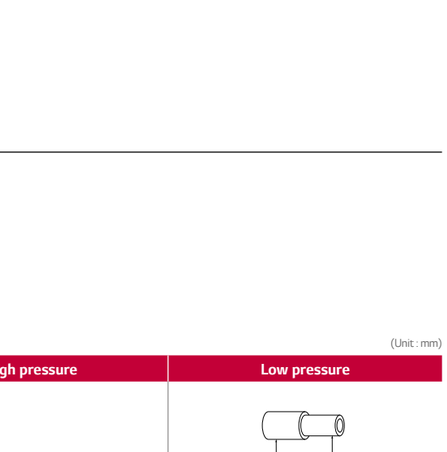
(Unit : mm)

Model Name		Liquid	High pressure	Low pressure
Indoor Unit Reducer				
HR Unit Reducer	PRHR023			
	PRHR033 PRHR043 PRHR063 PRHR083			

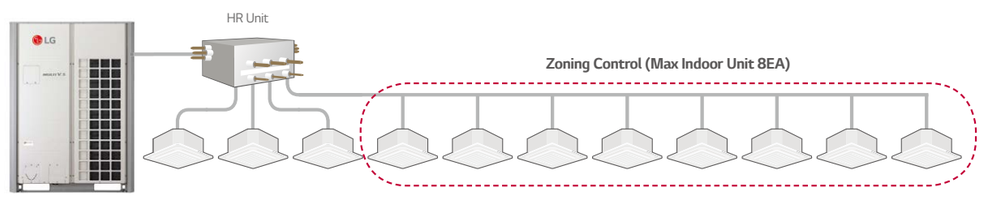
Convenient Free Zoning

MULTI V Heat Recovery provides flexible control over individual zones for the user's convenience

- **Individual Control**
  - Perfect individual control over spaces ventilation needed
- **Zone Control**
  - Max. of 8 indoor units can be connected for one branch
  - Max. of 64 indoor units can be connected for one HR unit
  - Same opeational model can be operated by indoor units with zone control function installed
- **Combination of Individual and Zoning Installations**
  - Flexible piping design
- **Save Product and Installation Cost**



[Zoning Control]

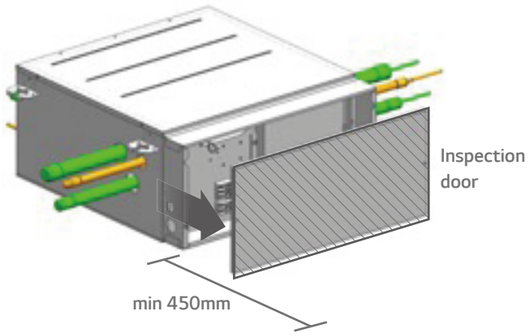


NEW HEAT RECOVERY UNIT

Improving Service Workability

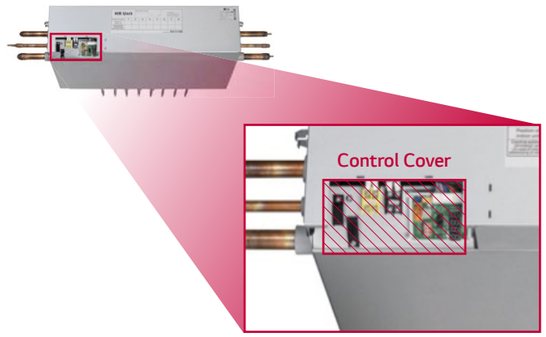
Can inspect valves and PCBs under the product.(looking up at the product)

Conventional



At least 450 mm of space is required to open the control cover and to inspect or repair the product.

New

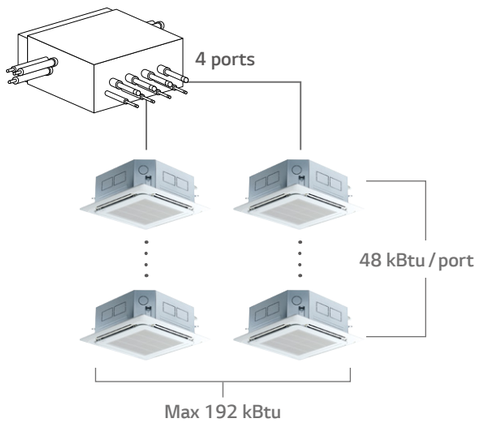


The control cover can be opened(disassembled) in the downward direction. ⟶ Error code check and simple check & repair are possible.

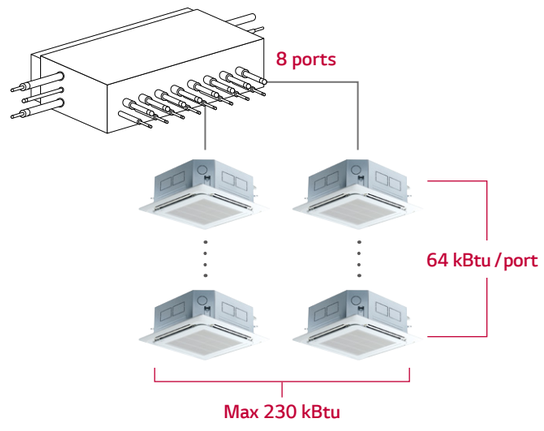
Expansion of connection capacity

- Expansion of connection capacity per port : (old) 48 kBtu ⟶ (new) 64 kBtu
- Expansion of total connectable capacity : (old) 192 kBtu ⟶ (new) 230 kBtu

Conventional

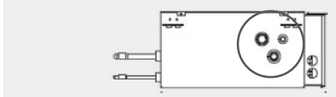
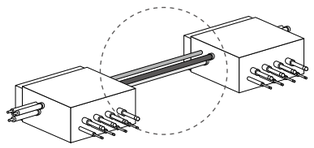
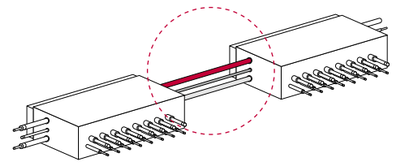
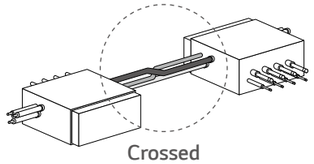
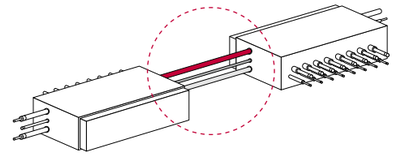


New



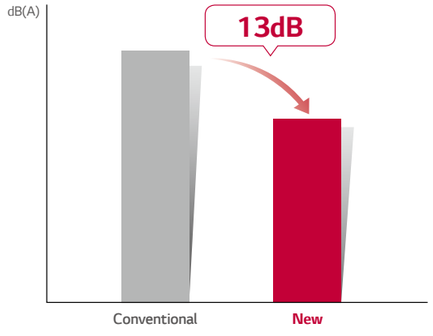
Easy Series Connection

Series connection can be installed without pipes crossing.

	Conventional	New
		
Series connection in the same direction		
Series connection in the reverse direction	 Crossed piping	

Reduce Noise

Cooling ⟷ Heating changeover noise improvement



Y BRANCH AND HEADERBRANCH

For refrigerant distribution of indoor units

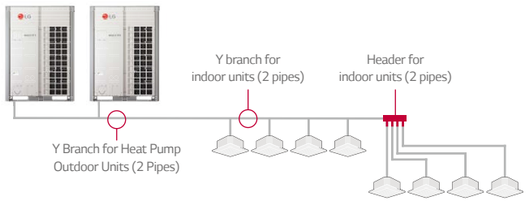
Y Branch
Header Branch

Features

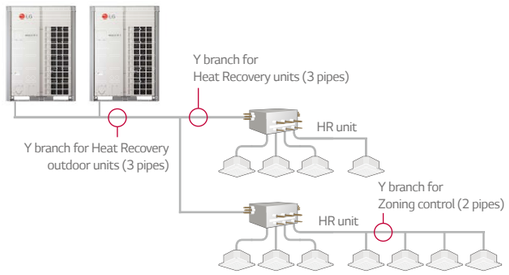
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Piping Diagram

Heat Pump System



Heat Recovery system



Models Applied

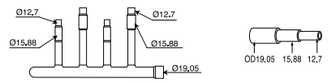
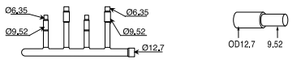
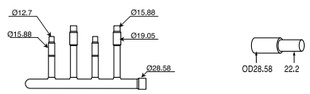
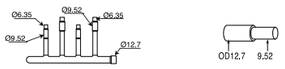
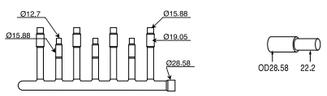
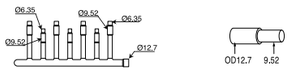
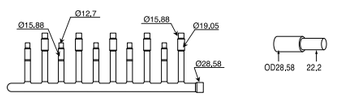
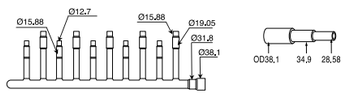
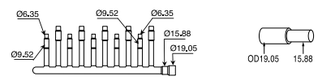
- MULTI V 5
- MULTI V IV
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER II
- MULTI V WATER S
- MULTI V SPACE II
- MULTI V MINI

Details of Model Name

Header Branch

R410A

(Unit : mm)

Model Name	Gas Pipe	Liquid Pipe
4 Branch / ARBL054		
7 Branch / ARBL057		
4 Branch / ARBL104		
7 Branch / ARBL107		
10 Branch / ARBL1010		
10 Branch / ARBL2010		

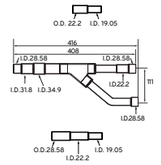
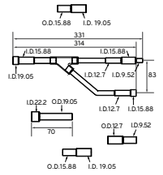
PIPING ACCESSORIES

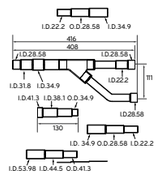
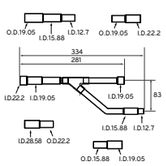
Y Branch pipe for connection of outdoor units

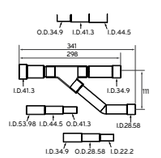
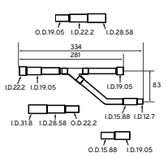
Heat Pump

R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V WATER IV, MULTI V WATER II

(Unit : mm)

2 Outdoor Units		
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN21		

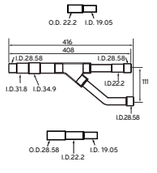
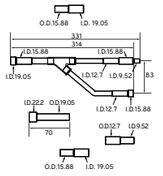
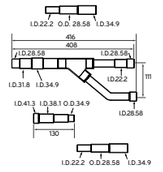
3 Outdoor Units		
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN31		

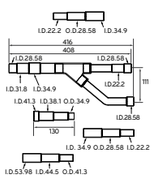
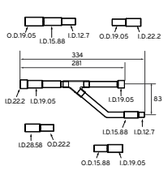
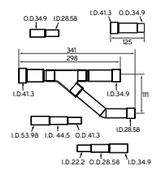
4 Outdoor Units		
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**
ARCNN41		

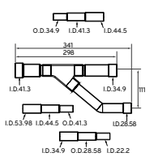
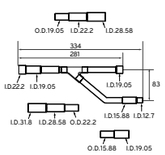
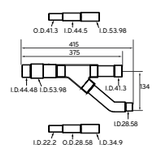
Heat Recovery

R410A MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)

2 Outdoor Units			
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**	**Low Pressure Gas Pipe**
ARCNB21			

3 Outdoor Units			
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**	**Low Pressure Gas Pipe**
ARCNB31			

4 Outdoor Units			
Model Name	**High Pressure Gas Pipe**	**Liquid Pipe**	**Low Pressure Gas Pipe**
ARCNB41			

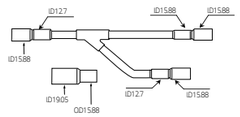
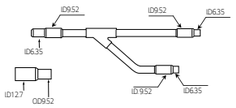
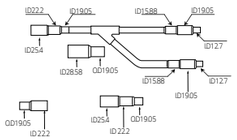
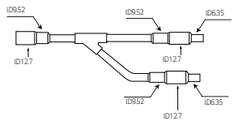
PIPING ACCESSORIES

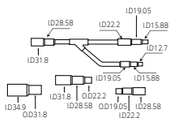
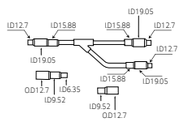
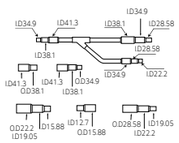
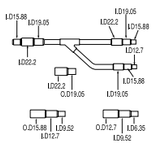
Y Branch pipe for connection of outdoor units

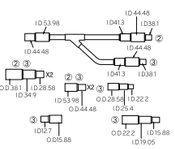
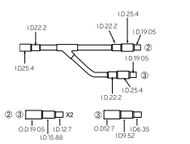
Heat Pump, Heat Recovery zone control

R410A MULTI V 5, MULTI V IV, MULTI V III, MULTI V PLUS II, MULTI V PLUS, MULTI V S, MULTI V MINI, MULTI V SPACE II, MULTI V WATER IV, MULTI V WATER S, MULTI V WATER II

(Unit : mm)

Model Name	Gas Pipe	Liquid Pipe
ARBLN01621		
ARBLN03321		

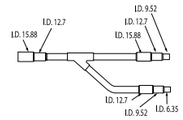
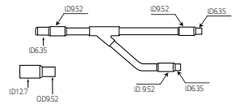
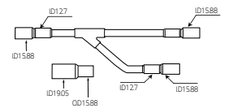
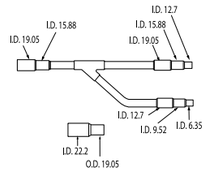
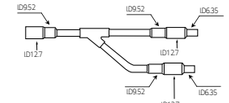
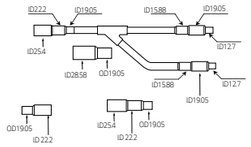
Model Name	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		

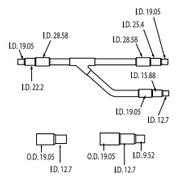
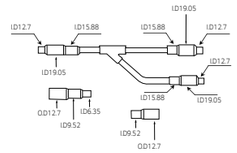
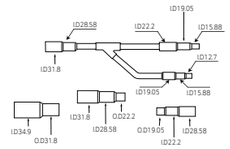
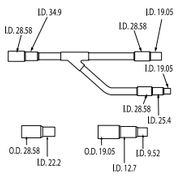
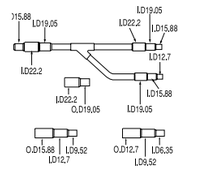
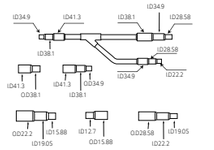
Model Name	Gas Pipe	Liquid Pipe
ARBLN23220		

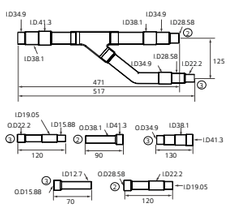
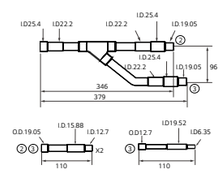
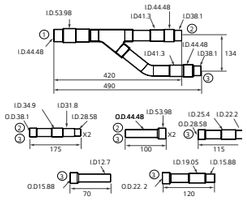
Heat Recovery

R410A MULTI V 5, MULTI V IV Heat Recovery, MULTI V III Heat Recovery, MULTI V WATER IV Heat Recovery, MULTI V WATER II Heat Recovery

(Unit : mm)

Model Name	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB01621			
ARBLB03321			

Model Name	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB07121			
ARBLB14521			

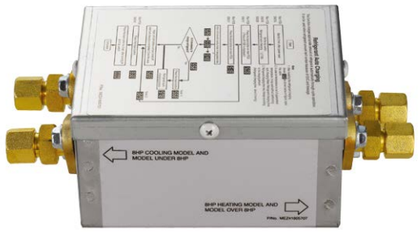
Model Name	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB23220			

PIPING ACCESSORIES

REFRIGERANT CHARGING KIT

Recharging refrigerant after a pump down or when refrigerant is either insufficient or excessive

PRAC1

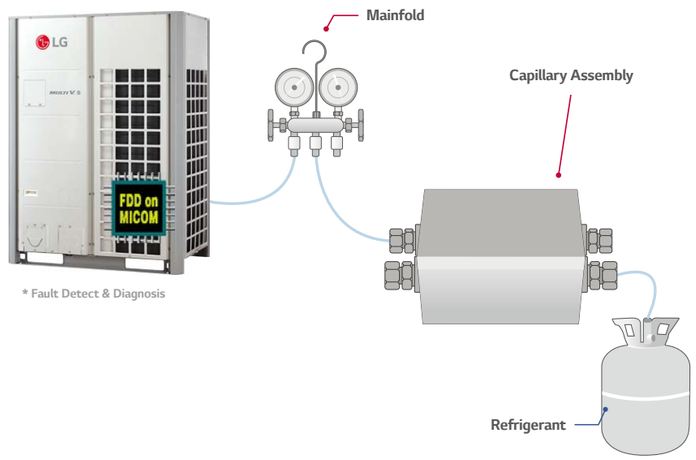


Features

- Arrange manifold, capillary assembly, refrigerant vessel and scale
- Connect manifold to the gas pipe service valve of outdoor uint as shown in the figure
- Connect manifold and capillary tube. Use designated capillary assembly only If designated capillary assembly isn't used, the system may get damaged
- Connect capillary and refrigerant vessel
- Purge hose and manifold
- After "568" is displayed, open the valve and charge the refrigerant

Models Applied

- MULTI V 5
- MULTI V IV Heat Pump
- MULTI V IV Heat Recovery
- MULTI V III Heat Pump
- MULTI V III Heat Recovery
- MULTI V PLUS II
- MULTI V SYNC II



* Fault Detect & Diagnosis

PIPING ACCESSORIES

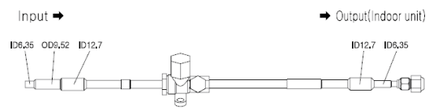
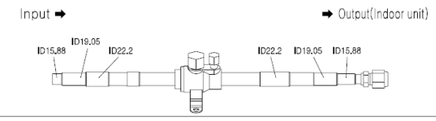
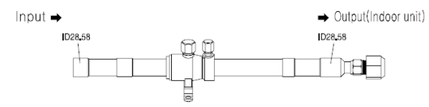
STOPPER VALVES

UNDER 1 / 2 (INCH)
PRVT120

UNDER 7 / 8 (INCH)
PRVT780

UNDER 9 / 8 (INCH)
PRVT980

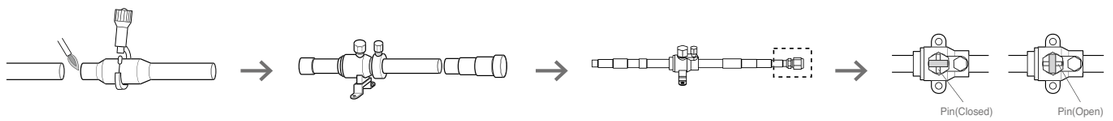
Features

Model Name	Specification
PRVT120	
PRVT780	
PRVT980	

Usage

- This unit can be applied for the additional indoor unit's installation.
- This unit can be applied for each indoor unit's service.

Installation



1. Cut the inlet side of the connector, and weld the pipe
2. If installing additional indoor units, the outlet side connector should be cut according to installation pipe.
3. When installing a stopper valve, the flare part should be facing towards additional indoor unit.
4. When installing anaddi-tional indoor unit, the SVC valve should be in closed state.

* When welding, service valve shoud be wrapped by wet cloth.

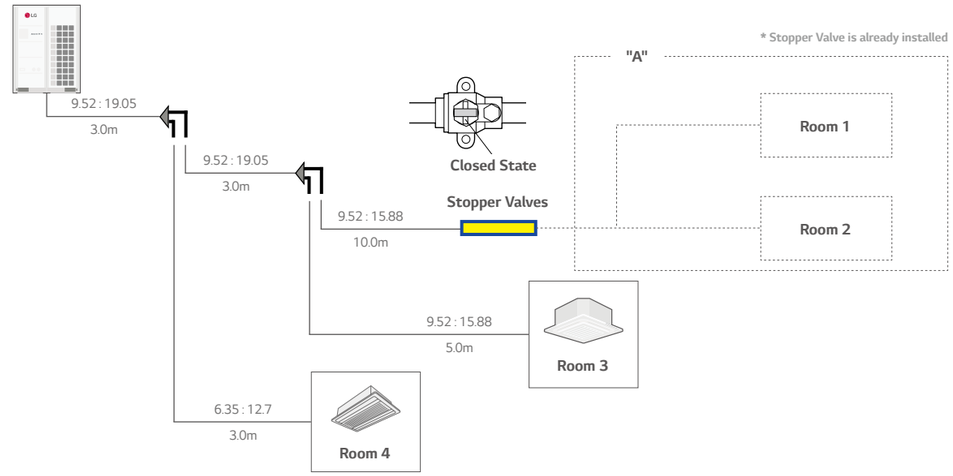
PIPING ACCESSORIES

STOPPER VALVES

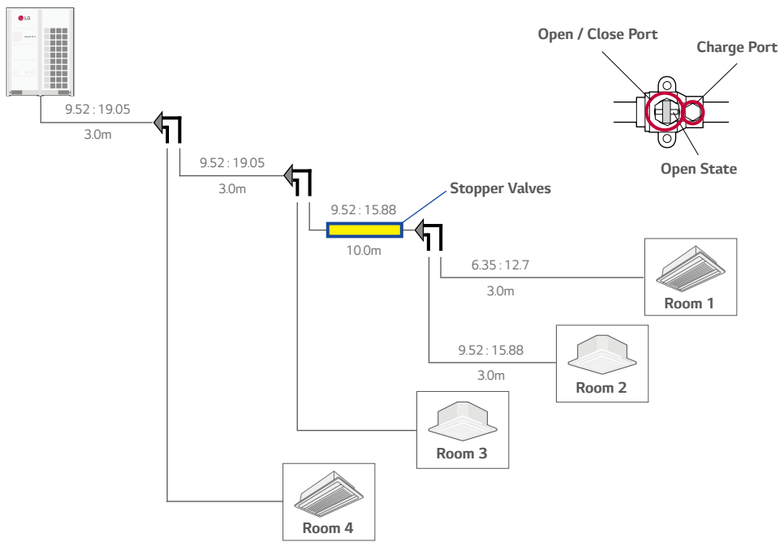
Details of Model Name

• **Case1**

(Room 3 & 4 : In use / Room 1 & 2 : Need to install indoor units)



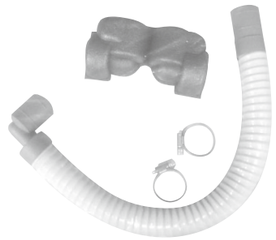
• In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
• If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
• After installation of additional indoor unit, you just need refrigerant charging for "A" section.
• Then, open the Stopper Valve.



PIPING ACCESSORIES

DRAIN HOSE

Easy drain installation



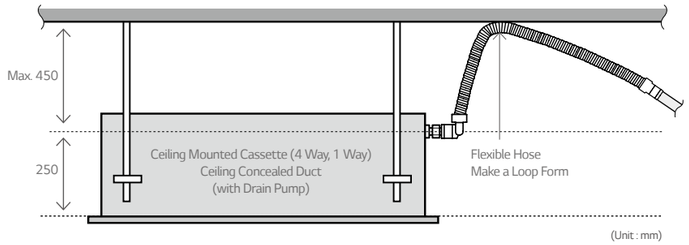
PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

Features

• It reduces the installation time by over 40% with elbow-less drain hose.
• Midget drain pump covers maximum 800mm high, featuring easy piping installation.

Models Applied

• Ceiling Mounted Cassette
and Ceiling Concealed Duct
(refer to PDB for applicable model)



Accessory Model Name

Model Name	Length	Quantity
PHDHA05T	500mm	30EA
PHDHA07T	700mm	30EA
PHDHA05B	500mm	5EA
PHDHA07B	700mm	5EA

MEMO

MEMO