LG
Life's Good

LG Electronics
http://www.lg.com
http://partner.lge.com

Copyright © 2017 LG Electronics. All rights reserved.

Distributed by

MULTI V 2017

LG

MULTI V™

2017

LG HVAC SOLUTION



LG
Life's Good

INDEX



010 - 127
OUTDOOR UNIT

MULTI V 5 14
MULTI V S 82
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY) 98
MULTI V WATER S 124



128 - 159
INDOOR UNIT

KEY FEATURES 132
WALL MOUNTED UNIT 138
CEILING MOUNTED CASSETTE 146
CEILING CONCEALED DUCT 154
FRESH AIR INTAKE UNIT 162
CEILING & FLOOR CONVERTIBLE UNIT 164
CEILING SUSPENDED UNIT
CONSOLE 168
FLOOR STANDING UNIT 170
MULTI V INDOOR COMPATIBILITY 172



174 - 181
HOT WATER SOLUTION

HYDRO KIT 176

182 - 195
VENTILATION SOLUTION

ERV 184



196 - 277
ACCESSORIES

INDIVIDUAL CONTROL 200
CENTRALIZED CONTROL 210
SYSTEM INTEGRATION DEVICE 220
OTHER INTEGRATION CONTROL SOLUTION 230
MECHANICAL ACCESSORIES 254
PIPING ACCESSORIES 274
COMPATIBILITY TABLE 290



LG AIR SOLUTION

AS A TOTAL HVAC & ENERGY SOLUTION PROVIDER



* LG Air Solution production sites

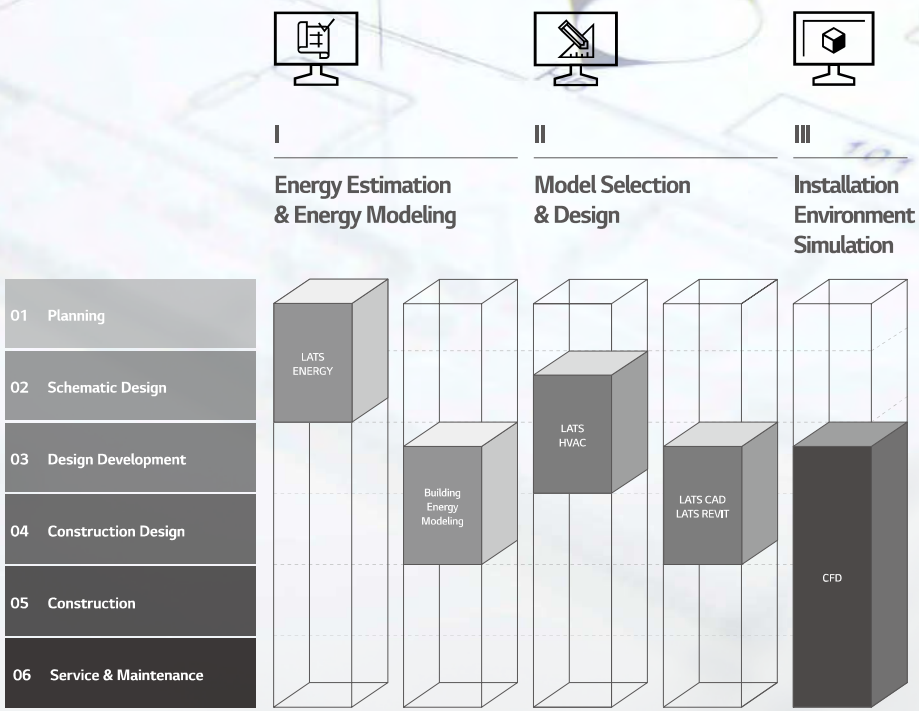
The LG Electronics Air Solution Business Unit is a provider of total HVAC and energy solution. The company offers a broad portfolio of air conditioner products that are compatible with any building anywhere, including compact residences, towering skyscrapers, massive factories and giant concert halls.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



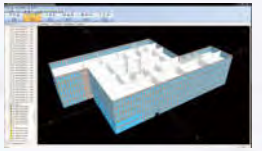
01 Draft Energy Estimation

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.



reddot award
communication design

OUTDOOR UNIT

MULTI V 5
MULTI V WATER IV (Heat Pump / Heat Recovery)
MULTI V S
MULTI V WATER S



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.



2017
MULTI V™ 5
- High Efficiency
- Ultimate Inverter Compressor
- Large Capacity ODU with Biomimetics Technology Fan
- Dual Sensing Control
- Ocean Black Fin

2006
MULTI V™
- Ø7.0 Corrugate
- Fuzzy Algorithm
- AC Inverter
- R410A

2008
MULTI V™ II
- Heat Recovery
- Ø7.0 Wide louver
- Fuzzy Algorithm
- LGDC Inverter

2010
MULTI V™ III
- High Pressure Oil Return
- Vapor Injection
- Continuous Heating

2013
MULTI V™ IV
- Active Refrigerant Control
- Variable Heat Exchanger Circuit
- Smart Load Control
- Smart Oil Return
- Vapor Injection (Advanced)





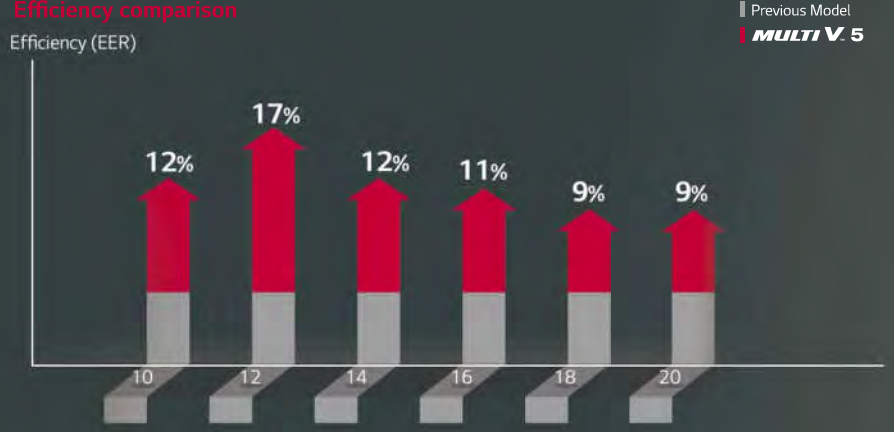


HIGH EFFICIENCY

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





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.

10% IMPROVED ENERGY EFFICIENCY
ENHANCED COMPRESSOR RELIABILITY

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

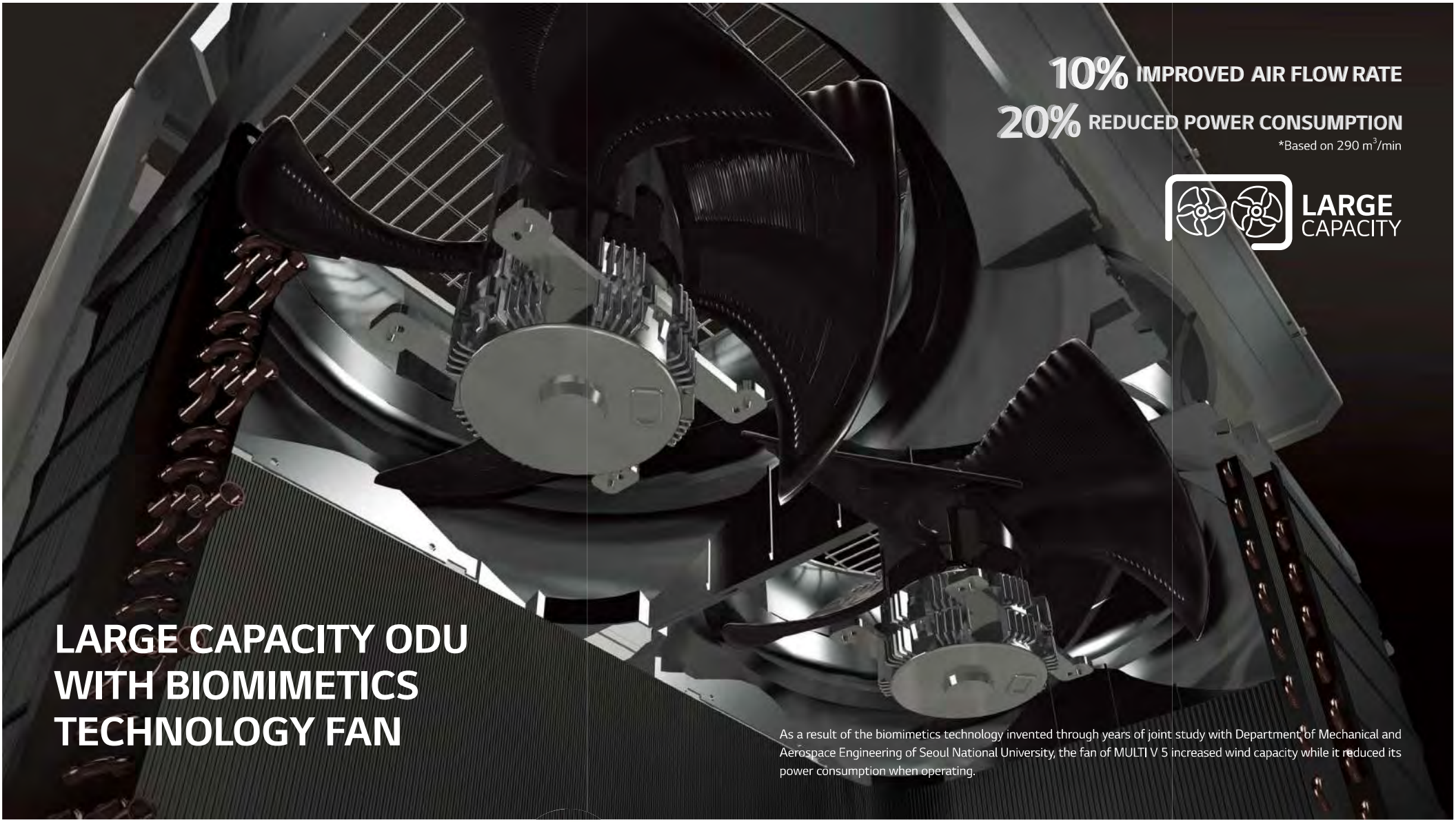
02. Enhanced Bearing with PEEK Material
Newly invented system motivated by PEEK (Polyetheretherketone) bearing used for aero engine to increase operation range and durability

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

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

05. Smart Oil Management
Oil level detection in real time





LARGE CAPACITY ODU WITH BIOMIMETICS TECHNOLOGY FAN

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.



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.

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.

DUAL SENSING CONTROL

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.

Previous VRF
[Single Sensing]

DID YOU KNOW THAT VRF UNTIL NOW HAS ONLY SENSED SINGLE INFORMATION?

MULTI V 5
[Dual Sensing]

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

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.

Ocean Black Fin


CERTIFICATE OF VALIDATION

* 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.

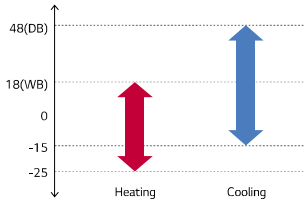
01 Improved designing effectiveness and accuracy via LATS Revit, the BIM application

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.



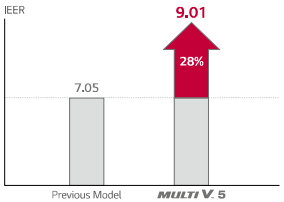
03 Flexible construction design available due to long piping technology

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

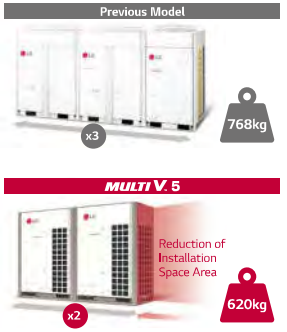
MULTI V 5

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.

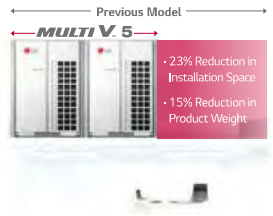
01 Corrosion resistance via Ocean Black Fin

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.



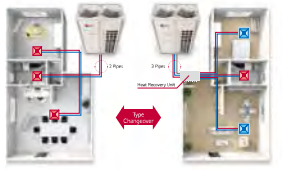
03 Operational costs management by presetting energy consumption

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.



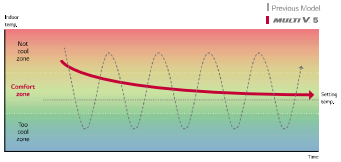
MULTI V 5

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.

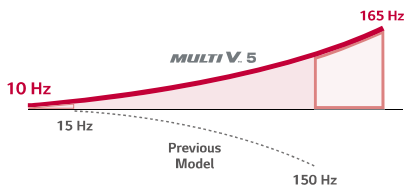
ULTIMATE INVERTER COMPRESSOR

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

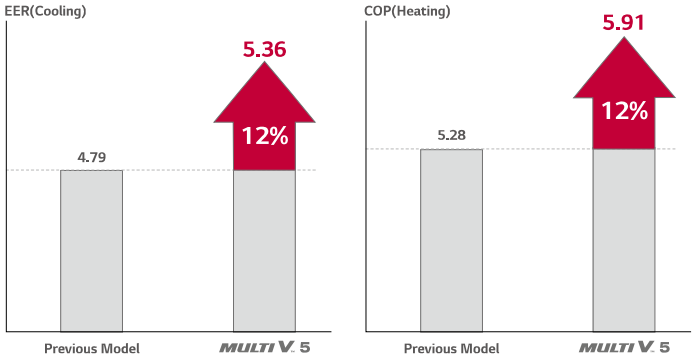
- Measuring the presence of oil through the oil sensor

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



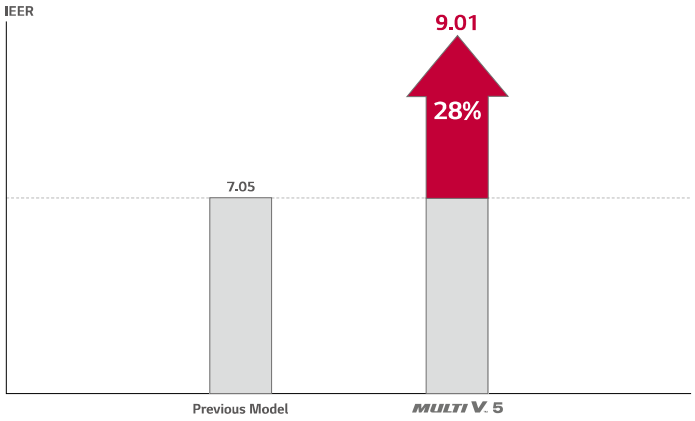
World's First Class, Rated Efficiency (ISO Test Condition)



* 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

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.

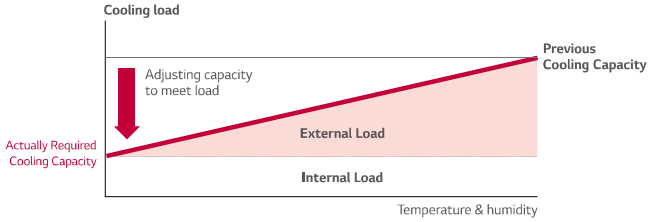
Increased Seasonal Efficiency

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

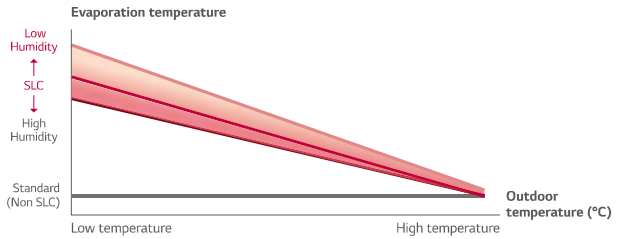
* LG internal test result

DUAL SENSING CONTROL

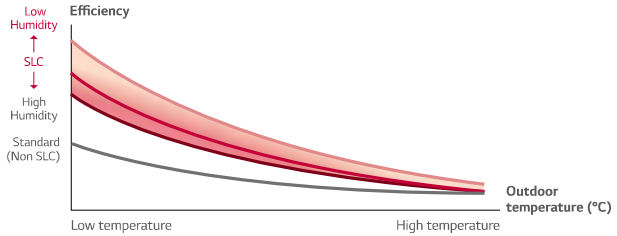
For low temperature, lower load and capacity are required



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 ▮▮ Remote Controller)

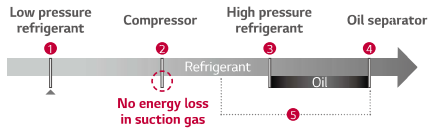
HiPOR™ (High Pressure Oil Return)

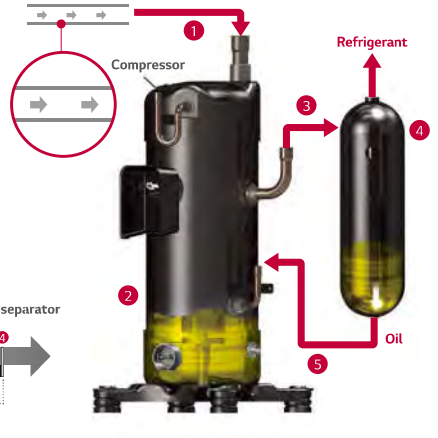
HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe in order to minimize energy losses while maximizing the efficiency of compressor.
The previous model compressor that caused loss of low pressure refrigerant return to the refrigerant 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

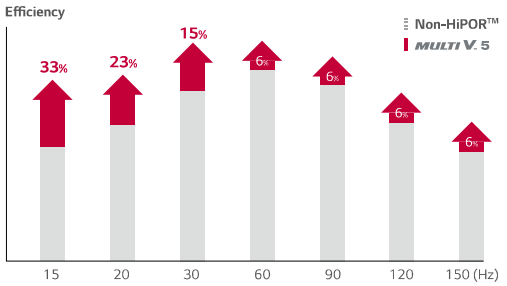






Efficiency comparison

• Non-HiPOR™ vs. MULTI V 5



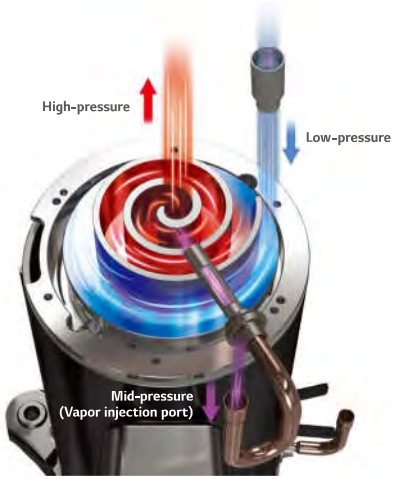
* Rating condition (Tc=54.4°C, Te=7.2°C)

ULTIMATE EFFICIENCY

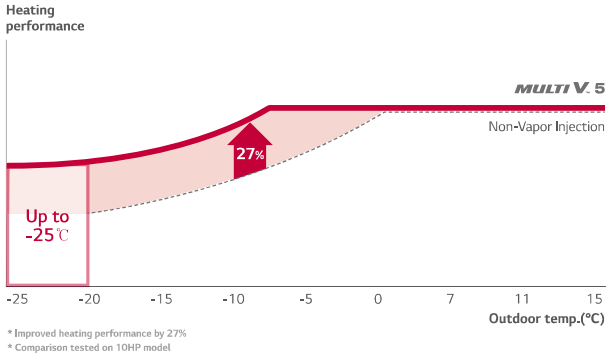
Vapor Injection

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

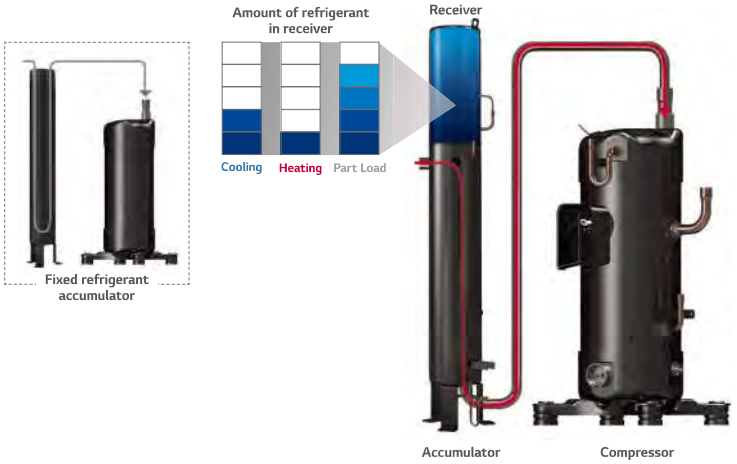


* Improved heating performance by 27%
* Comparison tested on 10HP model

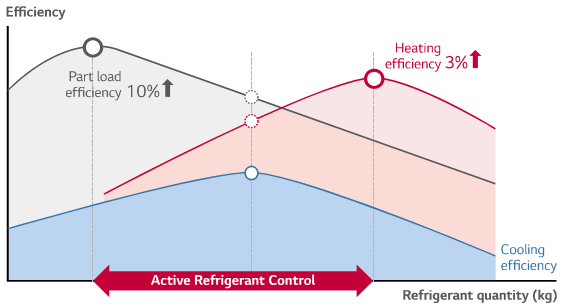
Active Refrigerant Control

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

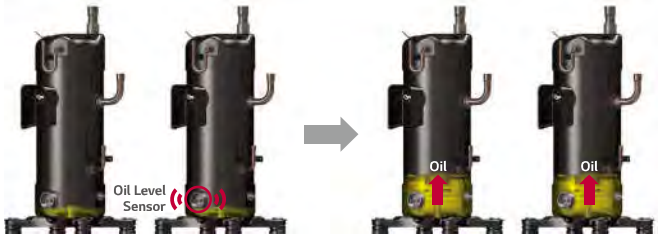
Smart Oil Management

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. This real-time measurement of oil in the compressor reduces energy loss, providing consistent heating for the indoor environment. With Smart Oil Return, heating operation time per day has increased up to 12% in comparison to previous model.

Auto Oil Balancing

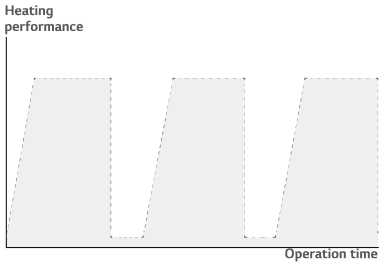


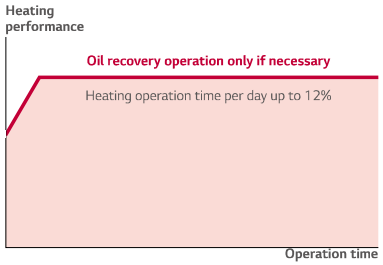
Smart Oil Return



Operation time comparison

• Non-oil sensor model vs. MULTI V 5

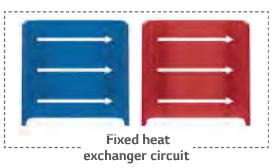


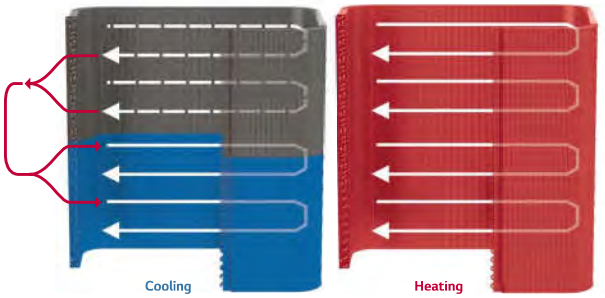


Variable Heat Exchanger Circuit

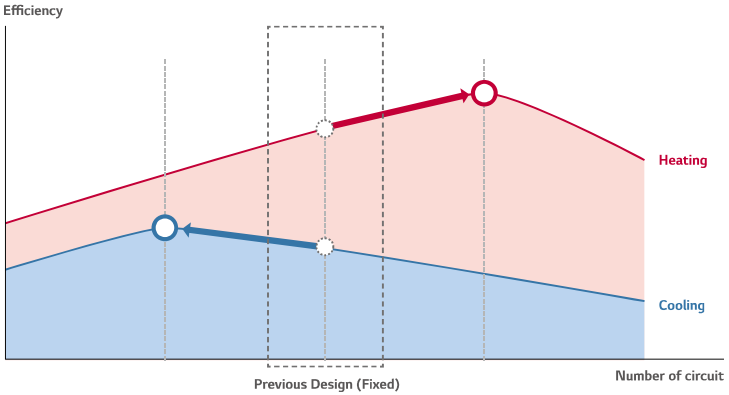
Variable Heat Exchanger Circuit intelligently selects the optimal path for both heating and cooling operations. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved.
The paths number and circuit velocity are adjusted to match temperatures 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



MULTI V 5

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.



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

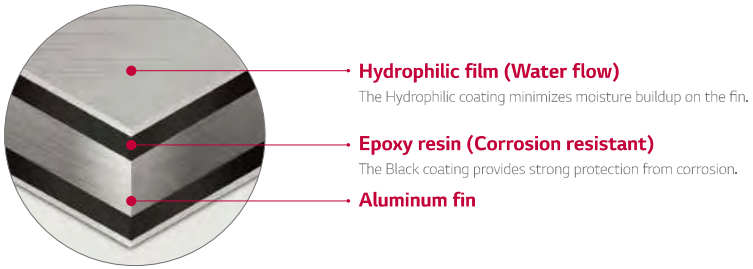
R.H.	NO_2	SO_2
95%	10×10^{-5}	5×10^{-6}

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

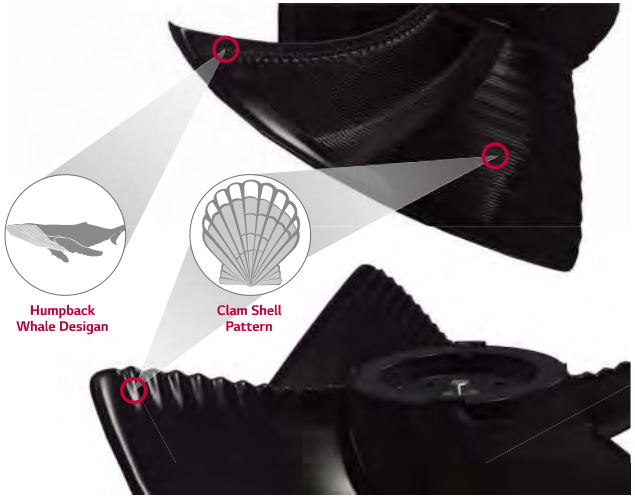


MULTI V 5

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.



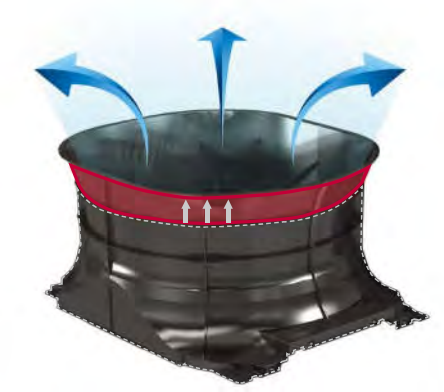
Flow difference comparison caused by tubercles

• Previous Model vs. MULTI V 5



Increased Air Flow Rate with Bigger Shroud

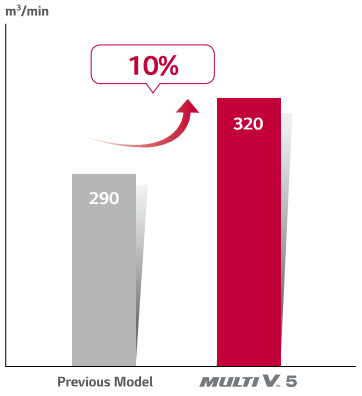
In addition to the biomimetics technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.



Enhanced Performance with Newly Developed Fan

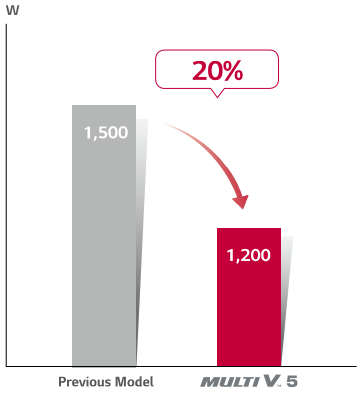
Based on the biomimetics technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20%. This eventually results in maximized performance with large capacity.

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

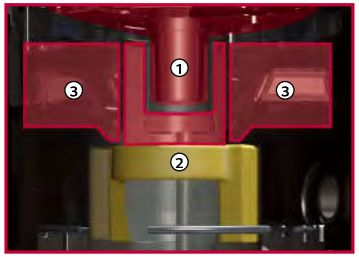
Motivated by the lubricative material of PEEK(Polyetheretherketone) bearing used for aero engines, the newly invented scroll system with refined shape increases durability and reliability of compressor. It also helps MULTI V 5 to operate longer without oil supply in comparison to the previousmodels.

Technology mechanism comparison

• Previous Model vs. MULTI V 5



Previous Model





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



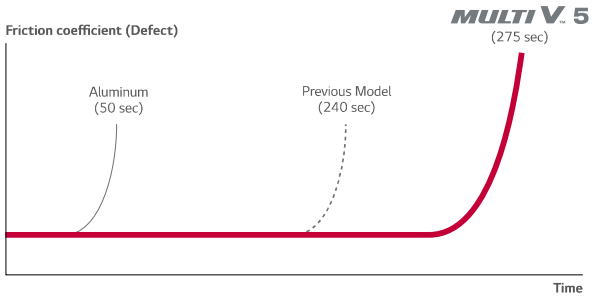
① Material : PEEK (Polyetheretherketone)
①+② Structure : New Outer Bearing
③ Supporter : High speed operation with reduction of bearing load and vibration

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



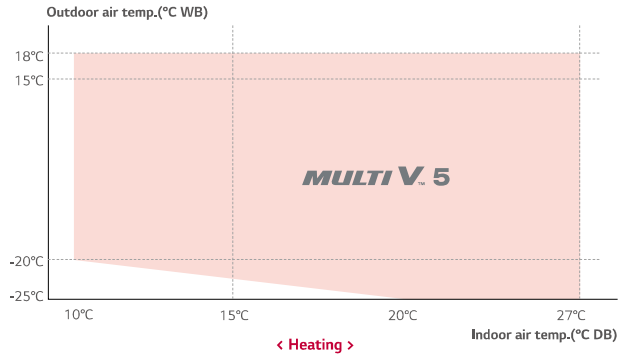
* LG Internal test result
* Test condition : Bearing oil blocking test (Oil blocking at 60 Hz)

Reliable Performance in Extreme Environment

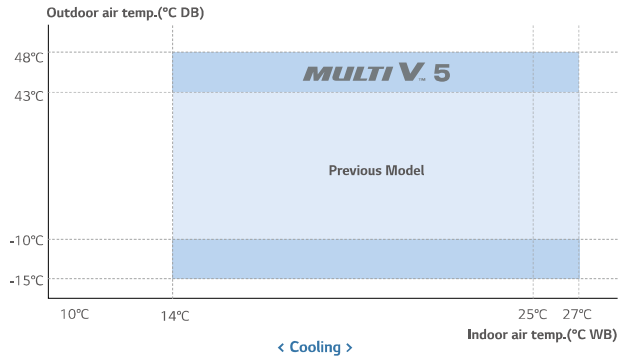
With enhanced inverter compressor and control technology coming from improved supercooling technology installation, vapor injection and Ocean Black Fin, MULTI V 5 extended range of cooling and heating operations. For heating, it can operate at as low as -25°C to perform properly even at very cold environment.
Moreover, 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.

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



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.

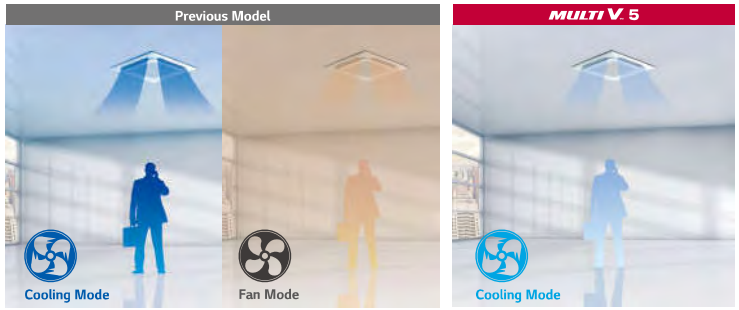
Comfort Cooling

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.

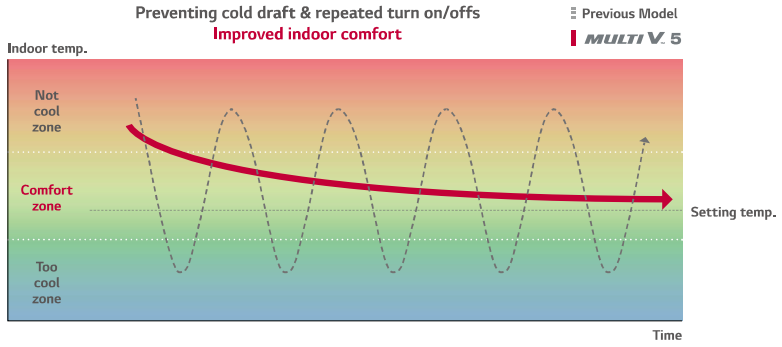
DUAL SENSING CONTROL

Cooling operation comparison

• Previous Model vs. MULTI V 5



* Indoor unit set up available with Standard III Remote Controller



Continuous Heating

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

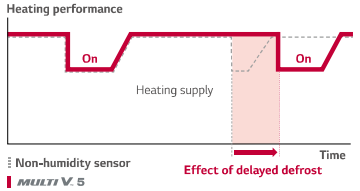
CONTINUOUS HEATING

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

Delayed Defrost via Humidity Sensor of Dual Sensing Control

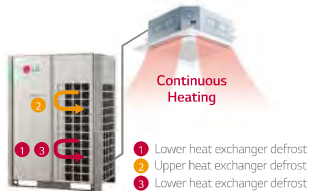
By controlling the evaporation temperature considering the humidity, heating operation time is improved.

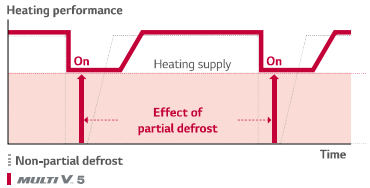
DUAL SENSING CONTROL



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.



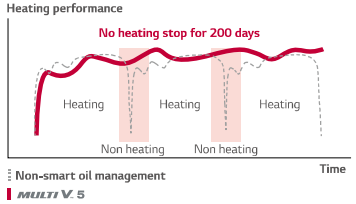


Smart Oil Management

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

MULTI V 5

ULTIMATE COMFORT

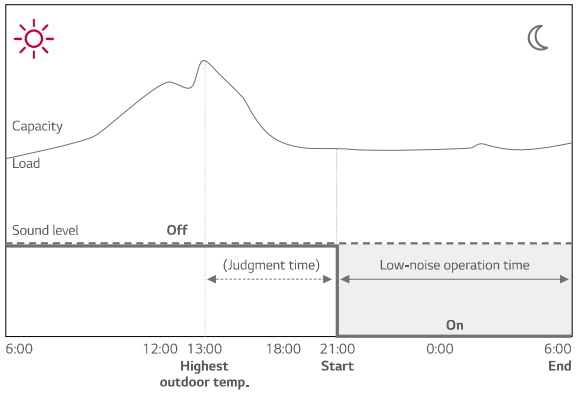
Low-Noise Operation

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

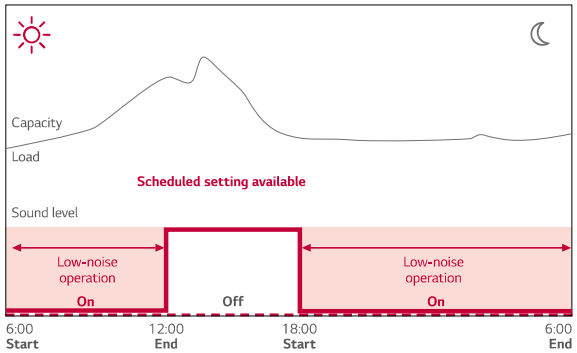
• Previous Model vs. MULTI V 5

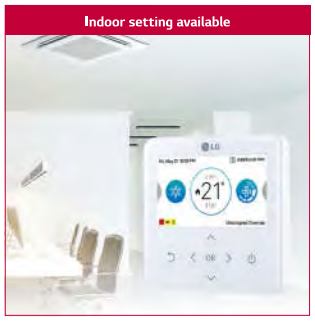
Previous Model





MULTI V 5



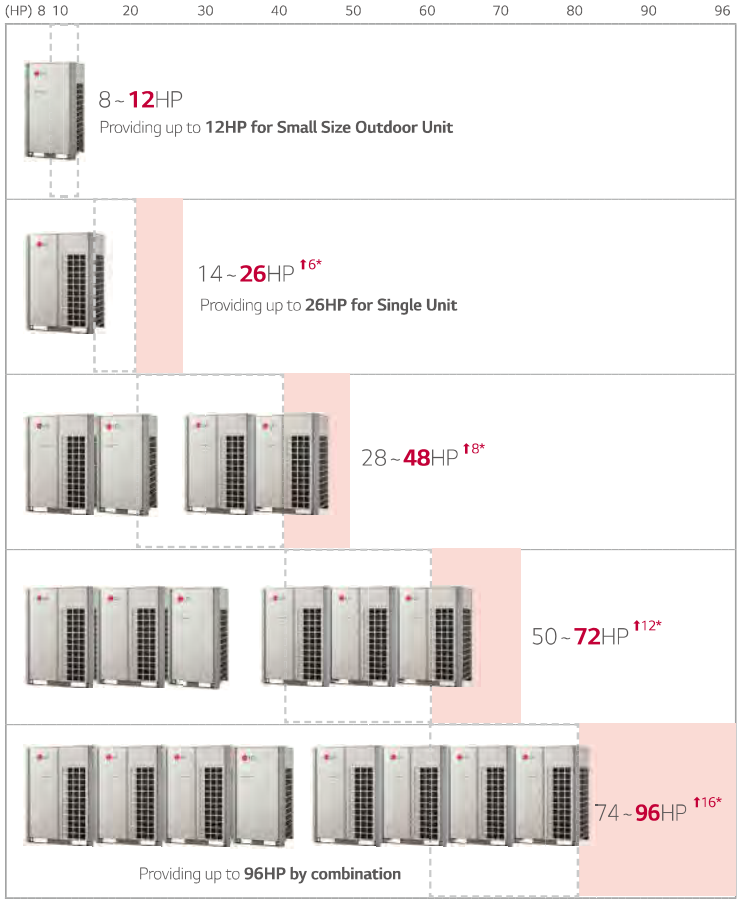


* Indoor unit set up available with Standard III Remote Controller

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

MULTI V 5

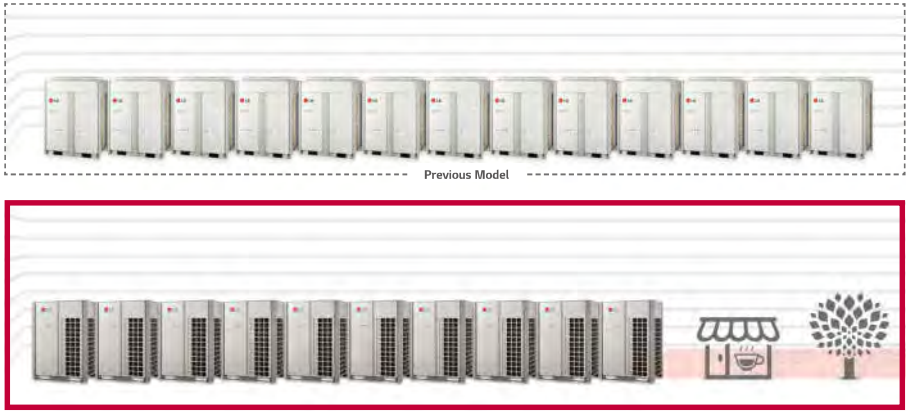
ULTIMATE FLEXIBILITY

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.

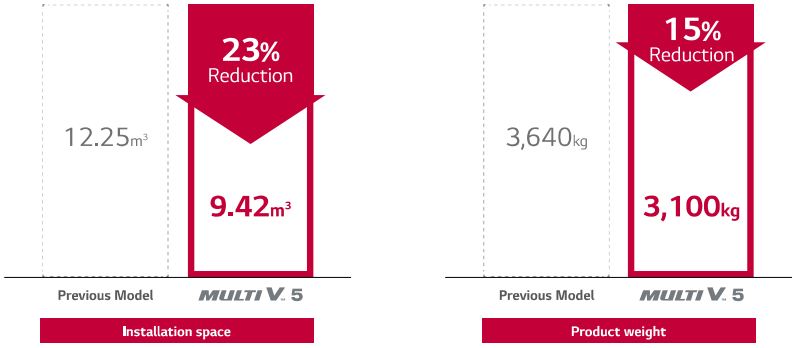
Comparison on installation space

• Previous Model vs. MULTI V 5



Installation space area and product weight comparison

• Previous Model vs. MULTI V 5

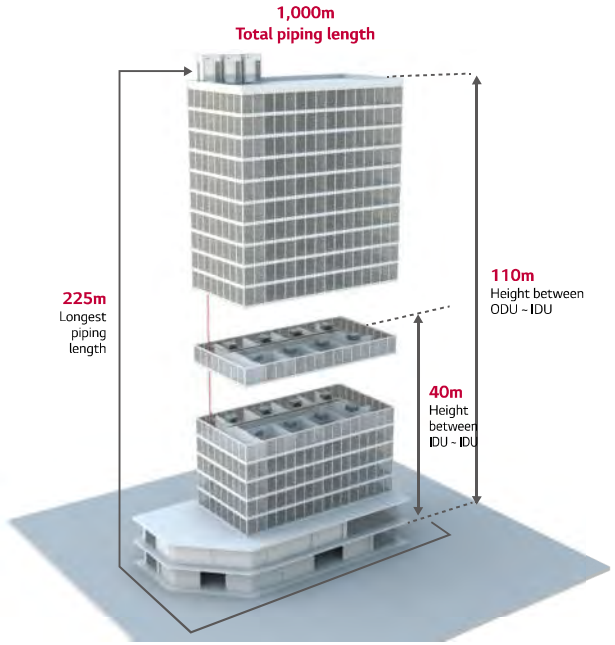


* Comparison basis: 2 Rows of outdoor units 260HP (26HP X 10sets) installation case

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

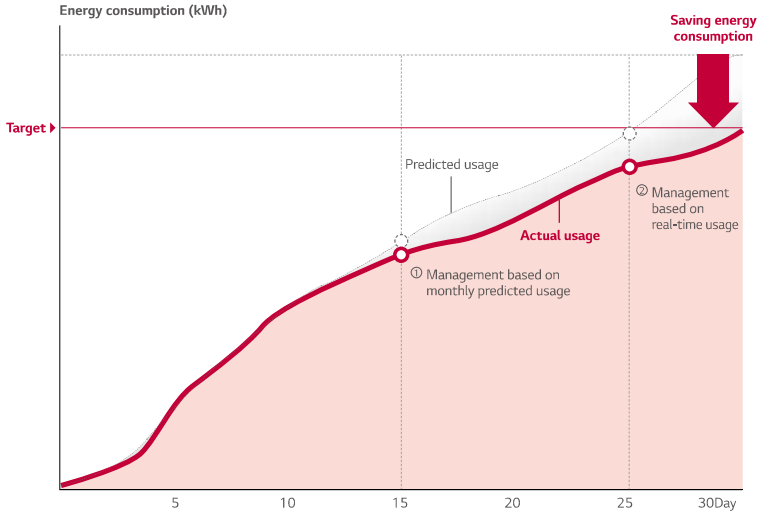
MULTI V 5

ULTIMATE CONTROL

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

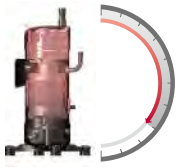
Energy Management

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.



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

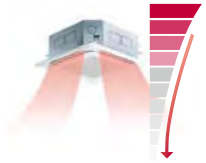
Control methods



Compressor capacity management



Operation rate control of indoor unit



Indoor unit operation management

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



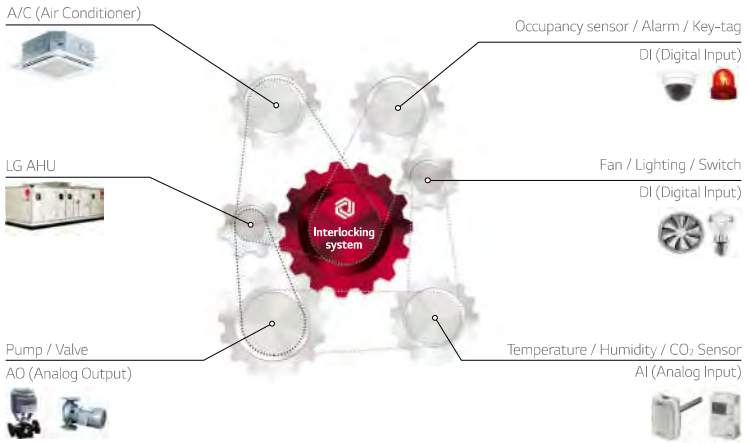
Operational trend

MULTI V 5

ULTIMATE CONTROL

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



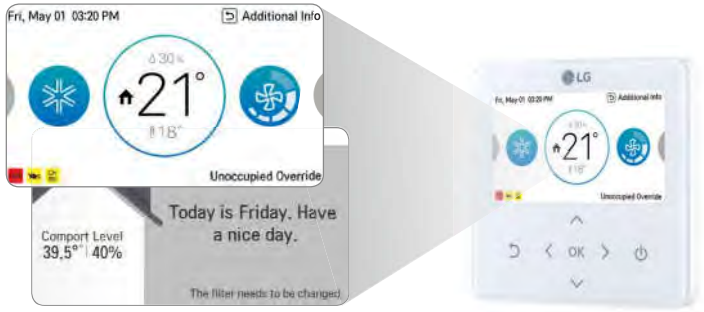
Dry Contact optimized for variable scenario



Smart Individual Controller (with Standard III Remote Controller)

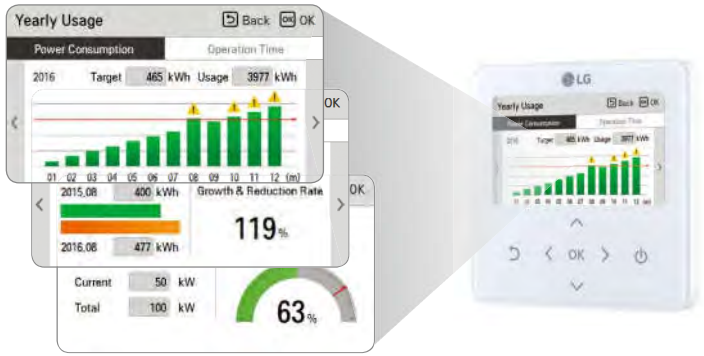
New Standard III Remote Controller of MULTI V 5 offers 4.3-inch large LCD screen with neat and premium design. This luxurious design well-matches interior design through large colored LCD screen with curved display and simple button layout which makes it easier to control. With diverse information offered 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

MULTI V 5

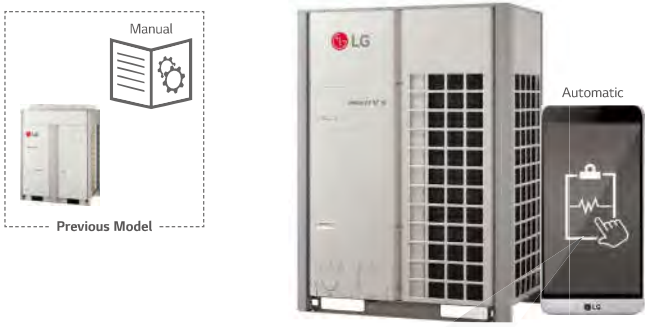
ULTIMATE CONTROL

Simple Test Run via LGMV

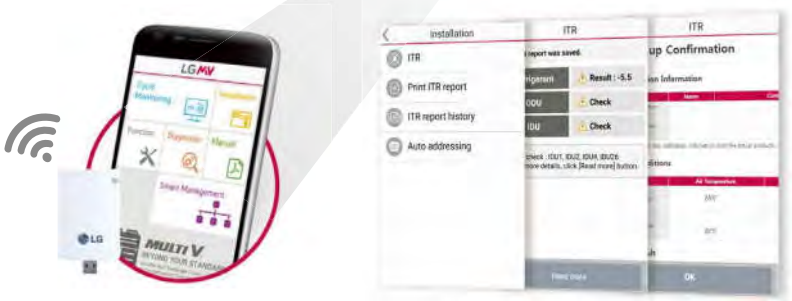
In order to bring out performance to the 100% level, proper product test run is necessary. For previous product, professional engineer who is well-aware of more than 40 different functional settings and 200+ error codes had to check main parts in order to make sure that the test run had succeeded. With 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

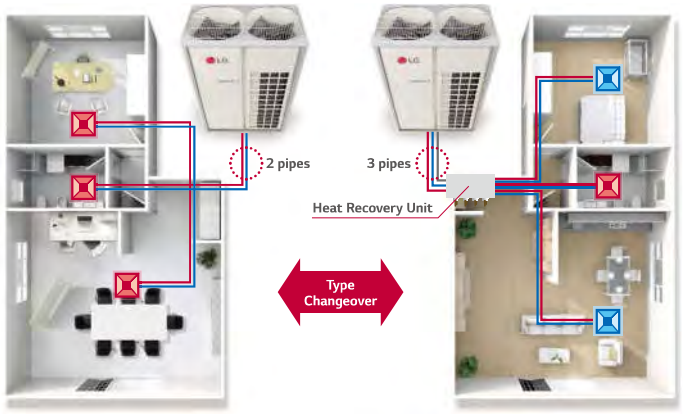
HEAT RECOVERY

Applicable for Various Building Types with Heat Pump & Heat Recovery Systems

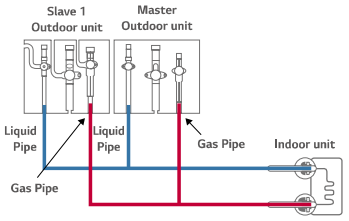
LG MULTI V 5 satisfies users' various needs with just one platform. Heat Pump System works for the sites where either cooling or heating operation is needed, while Heat Recovery System fits perfectly to the sites wherein both the cooling and heating operations are simultaneously needed or locations installed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

Simple Piping System Changes

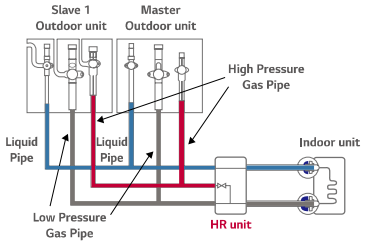
MULTI V 5 allows the building previously installed with Heat Pump System to switch to the Heat Recovery System for changing purpose of the building or remodeling reasons via simple piping construction.



Heat Pump System



Heat Recovery System



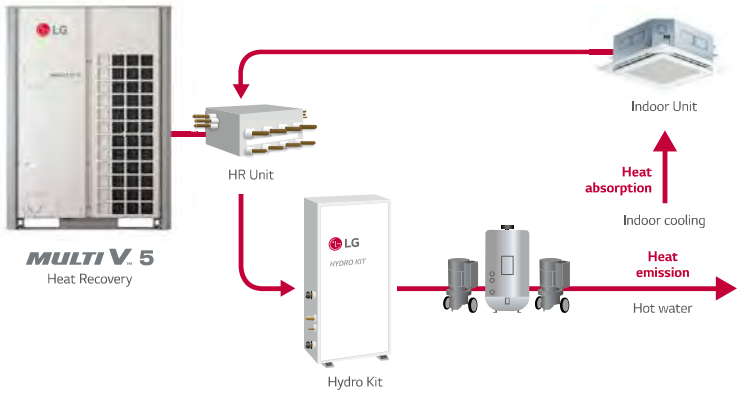
MULTI V 5

HEAT RECOVERY

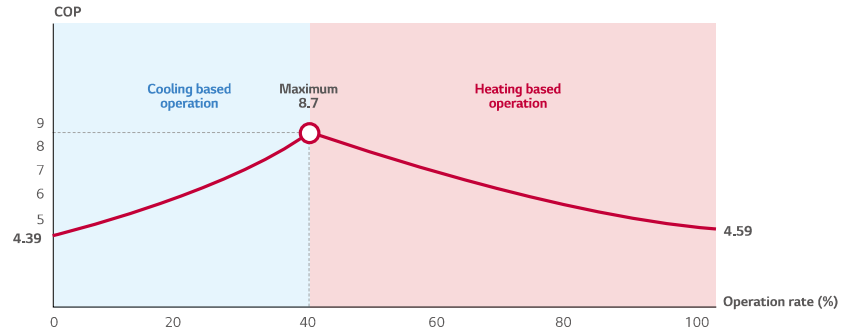
Energy Saving with Simultaneous Operation

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

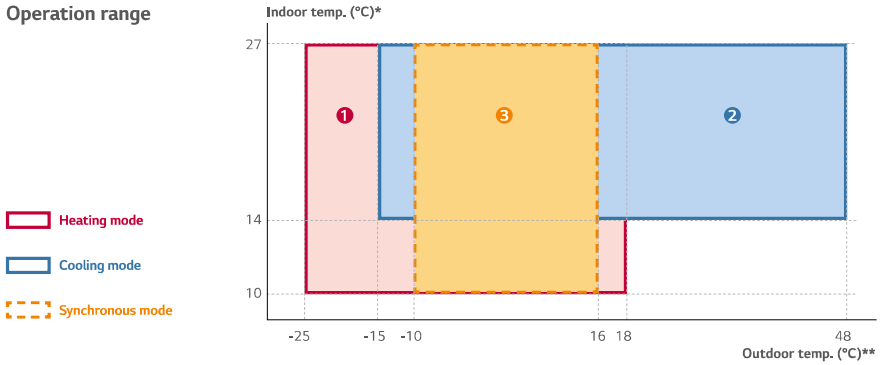


* Outdoor temperature : 7°C DB / 6°C WB
* Indoor temperature : 20°CDB / 15°C WB
* ARMU200LTE5

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

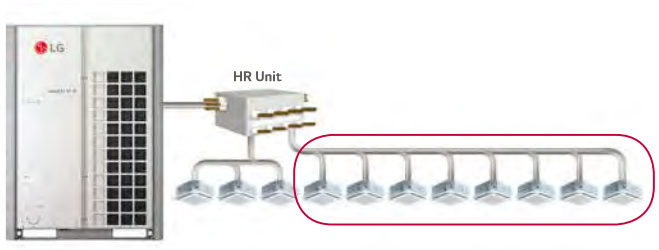
1 Heating mode : - 25°C WB ~ 18°C WB 2 Cooling mode : - 15°C DB ~ 48°C 3 Synchronous mode : -10°C WB ~ 16°C WB

* 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

ARUM080LTE5/ ARUM100LTE5 / ARUM120LTE5 / ARUM140LTE5 / ARUM160LTE5



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)
Pipe Connctions #2	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	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$_2$eq		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[3]			13(20)	16(25)	20(30)	23(35)

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 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)
Pipe Connctions #2	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	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$_2$eq		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[3]			26(40)	29(45)	32(50)	35(56)

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

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)
Pipe Connctions #2	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) × 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
Refrigerant	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[3]			39(61)	42(64)	35(44)	39(48)

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 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)
Pipe Connctions #2	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	(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
Refrigerant	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[3]			42(52)	45(56)	49(60)	52(64)

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

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)
Pipe Connctions #2	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	(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
Refigerant	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[3]			55(64)	58(64)	61(64)	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

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)
Pipe Connctions #2	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	(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
Refigerant	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[3]			64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

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 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)
Pipe Connctions #2	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	(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
Refrigerant	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[3]				64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 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 Connctions #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)
Pipe Connctions #2	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	(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
Refrigerant	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[3]				64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

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 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)
Pipe Connctions #2	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	(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
Refrigerant	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[3]				64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

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 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)
Pipe Connctions #2	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	(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
Refrigerant	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[3]				64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 1) Eurovent, 2) ISO test condition

OUTDOOR UNIT SPECIFICATION

MULTI V 5

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[2]	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)
Pipe Connctions #2	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	(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[3]				64	64	64	64

* This product contains Fluorinated Greenhouse Gases. (R410A)
* 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)
Pipe Connctions #2	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	(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[3]				64	64	64	64

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

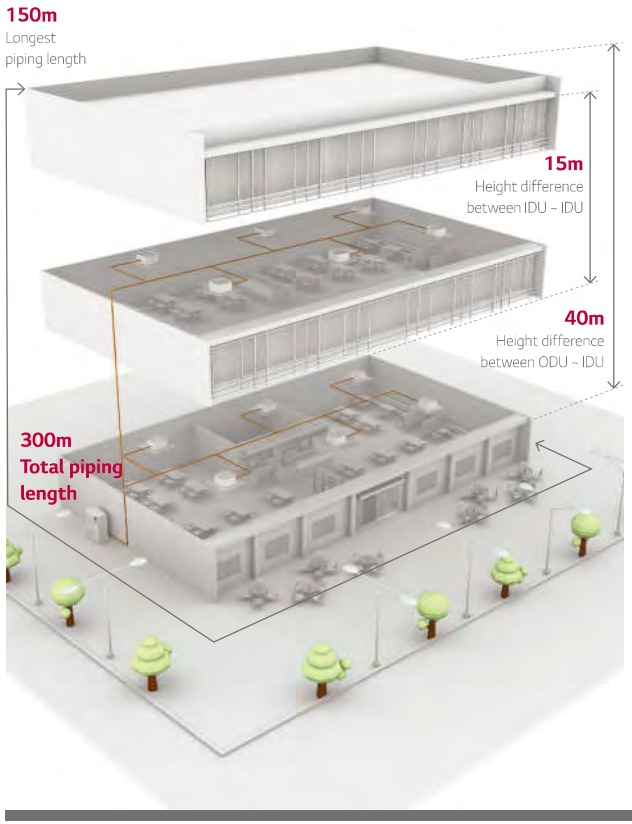
8. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination.
   The recommended ratio is 130%.

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

10. #1 : Heat Recovery system, #2 : Heat Pump system

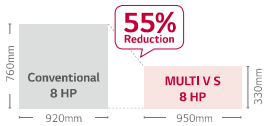
OUTDOOR UNIT KEY FEATURES

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

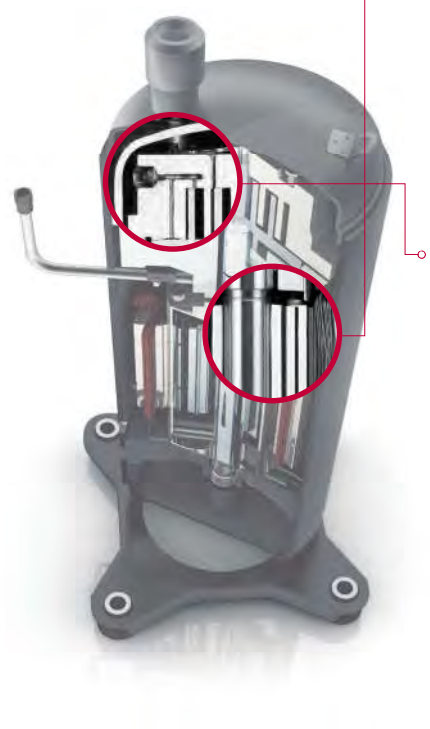
Application

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

EFFICIENCY

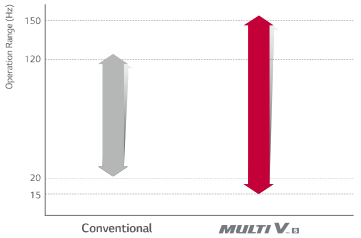
LG's 4th Generation Inverter Compressor

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



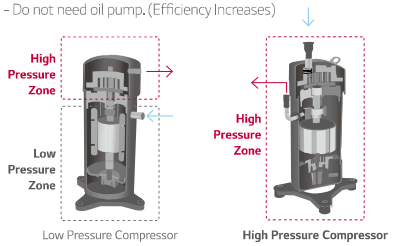
6 By-pass Valve

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)



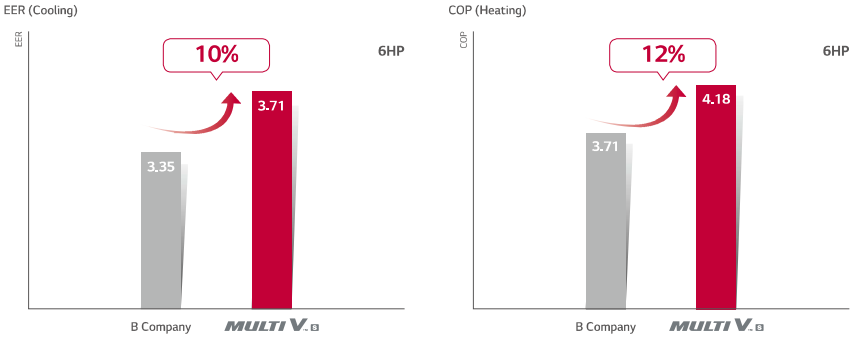
Low Pressure Compressor | High Pressure Compressor

Inverter Scroll Compressor

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

EFFICIENCY

High Efficiency



* Comparison Based on 6HP in cooling mode

* 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



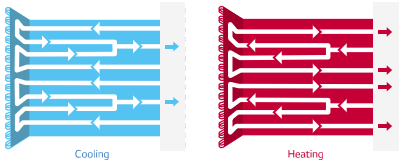
* Based on internal test data

Optimal Heat Exchanger Circuit

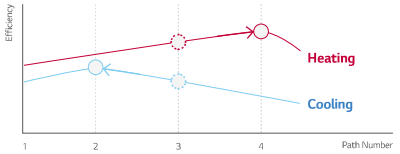
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling (Efficiency increased up to 5%).

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

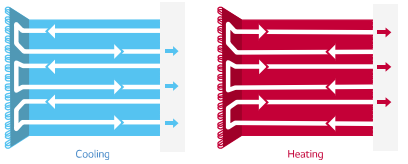


Maximizing efficiency for all operations

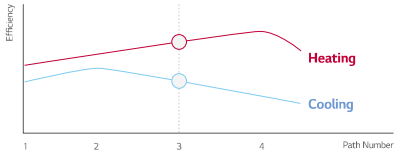


Conventional

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



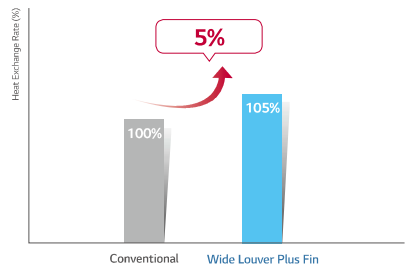
Compromising efficiency for each operation



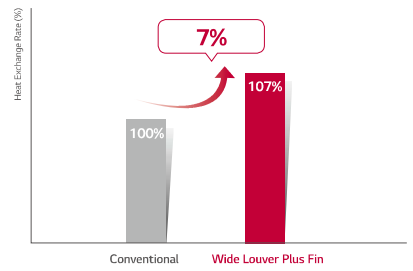
Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 7%.

Cooling



Heating



OUTDOOR UNIT KEY FEATURES

MULTI V S

EFFICIENCY

Pressure Sensor

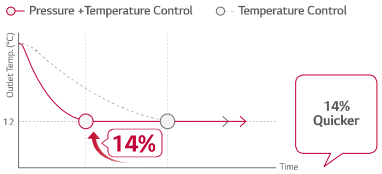
Temperature + Pressure Control

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



Quick Operating Response

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

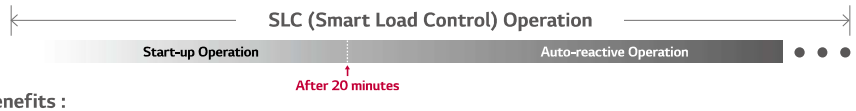


The indoor environment can be made more comfortable, faster and more accurately.

* Based on internal test data

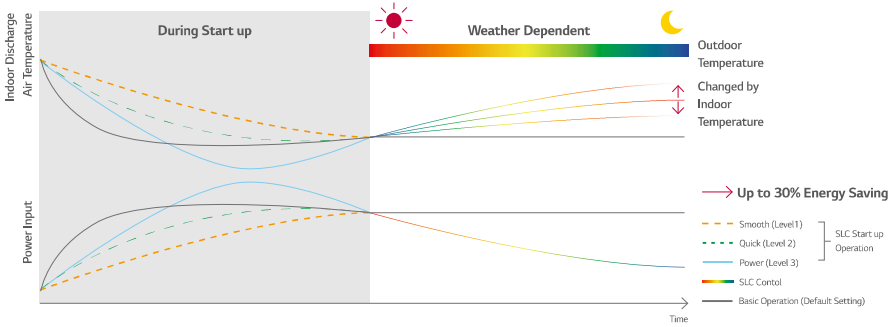
Smart Load Control

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



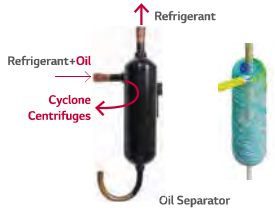
PERFORMANCE

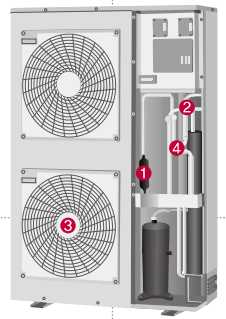
High Reliability of Refrigerant Cycle

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

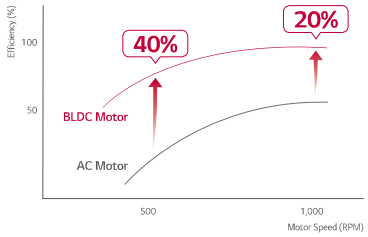
- Improved reliability by adopting the large volume accumulator (138% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction



3. BLDC Fan Motor

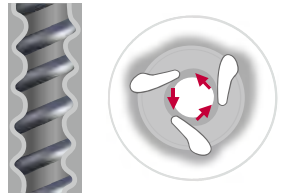
- The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds





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

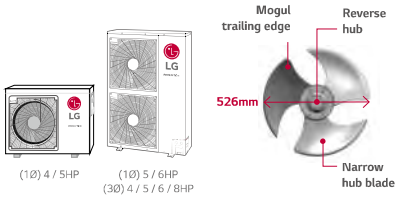
PERFORMANCE

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.

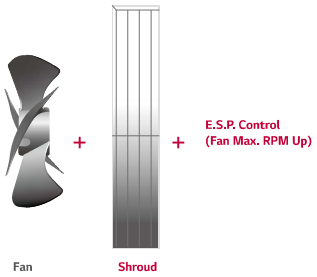


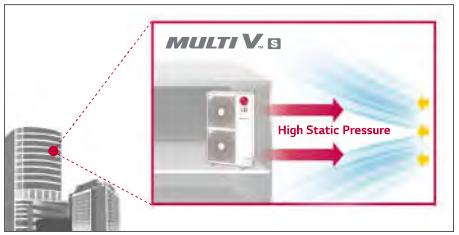
Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB (A).



High E.S.P. Technology

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



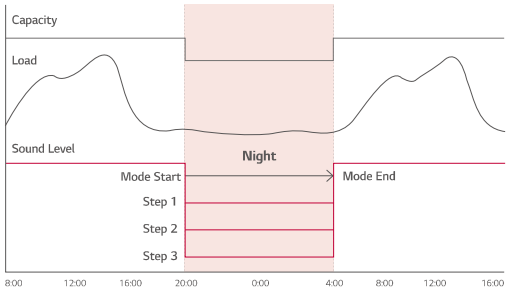


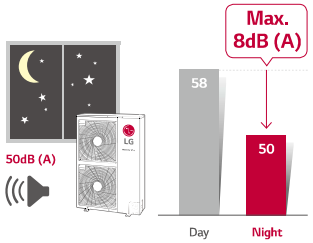
• Straight air flow
- New shroud adopted
- Performs high static pressure

* E.S.P : External Static Pressure

Night Silent Operation

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



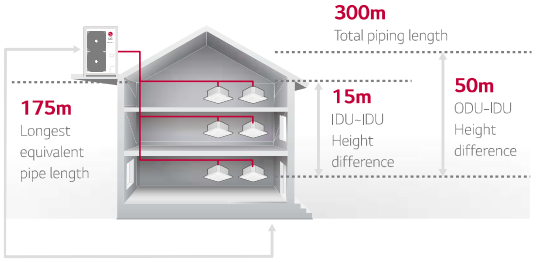


* Normal mode noise level (10HP) : 58dB(A)
* Night 3 step noise level (10HP) : 56dB(A), 53dB(A), 50dB(A)
* Sound pressure tested by following conditions :
1m distance / 1.5m height

Expanded Piping Capabilities

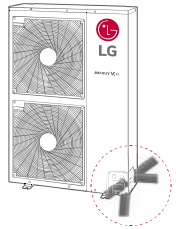
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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

Piping Capabilities



4 Way Piping

- Free design and installation by 4 way piping.

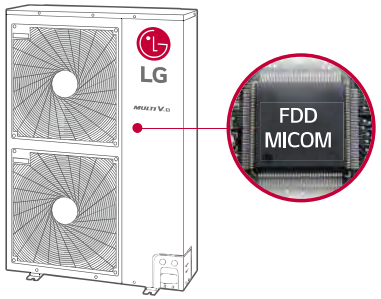


MULTI V S

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.



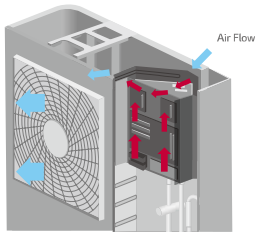
- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up

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

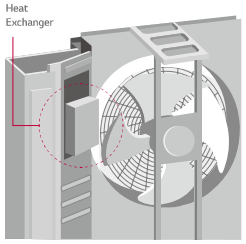
- Feature of control box is diagonal shape, it makes naturally air flowing (Directly pulling air back of the fan)
- Reduced heating / cooling efficiency loss



Front View

Heat Exchanger Technology

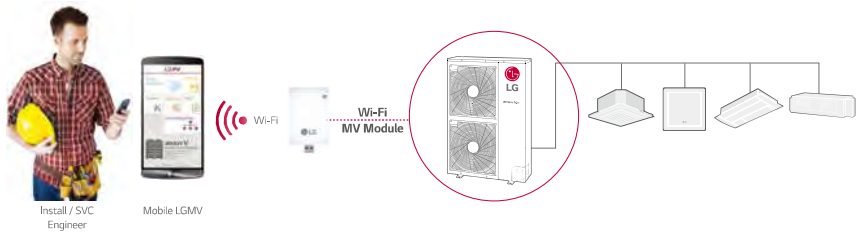
- Heat exchanger structure
- Optimal air flow by aluminum heat exchanger on control box.



Rear View

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

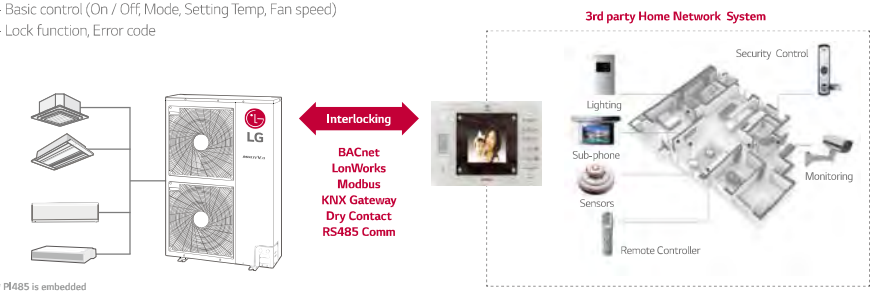
App. Name	OS	Recommended Specification	Resolution	Wireless Communication Effective Distancd
Mobile LGMV	iOS (iPad Only)	AppiOS 8.0 / 8.1	2,048 x 1,536 (Optimization) / 1,024 x 768	• Effective distance : 10m (Open Area) • The effective distance may be reduced by the communication environment
	Android	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	

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

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

ARUN040GSS0 / ARUN040GSR0 / ARUN050GSL0



HP			4	5
Model Name	Combination Unit		ARUN040GSS0 / ARUN040GSR0	ARUN050GSL0
Capacity [1] (Rated)	Cooling	kW	12.1	14.0
	Heating	kW	12.5	15.0
Input (Rated) [1]	Cooling	kW	3.57	3.78
	Heating	kW	2.91	3.75
EER			3.39	3.70
COP			4.3	4.0
Compressor	Type		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Piston Displacement	cm^3/rev	44.2	44
	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 1	124 x 1
	Air Flow Rate (High)	m^3/min	60	60
		ft^3/min	2,119	2,119
	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 15.88(5/8)
Dimensions (W x H x D)		mm	950 × 834 × 330	950 × 834 × 330
Net Weight		kg	69	73
Sound Pressure Level	Cooling	dB(A)	50	52
	Heating	dB(A)	52	58
Sound Power Level		dB(A)	66	68
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	1.8	2.4
		lbs	4.0	5.3
	GWP		2,087.5	2,087.5
	t-CO_2eq		3.8	5.0
	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]			8	10

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)

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

ARUN050GSS0 / ARUN050GSR0
ARUN060GSS0 / ARUN060GSR0



HP			5	6
Model Name	Combination Unit		ARUN050GSS0 / ARUN050GSR0	ARUN060GSS0 / ARUN060GSR0
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]			10	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

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

ARUN040LSS0 / ARUN050LSS0 / ARUN060LSS0
ARUN040LSR0 / ARUN050LSR0 / ARUN060LSR0



HP				4	5	6
Model Name	Combination Unit			ARUN040LSS0 / ARUN040LSR0	ARUN050LSS0 / ARUN050LSR0	ARUN060LSS0 / ARUN060LSR0
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]				8	10	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)

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

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0



HP				8	10	12
Model Name	Combination Unit			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
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 × 1,625 × 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)

INDOOR UNIT

Wall Mounted Unit
Ceiling Concealed Duct
Ceiling & Floor Convertible Unit
Console
MULTI V Indoor Compatibility
Ceiling Mounted Cassette
Fresh Air Intake Unit
Ceiling Suspended Unit
Floor Standing Unit (with case / without case)



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	Artcool Gallery		■	■	■													
	Artcool Mirror	■	■	■	■	■	■		■									
	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	Mid / High Statics		■	■	■	■	■		■	■		■	■	■	■	■	■	■
	Low Statics	■	■	■	■	■	■	■	■									
	Built-in		■	■	■	■	■		■									
4th generation Fresh Air Intake Units														■			■	■
4th generation Ceiling & Floor Convertible Unit				■	■													
4th generation Ceiling Suspended Unit							■		■			■		■				
4th generation Console			■	■	■	■												
4th generation Floor Standing Unit	Floor Standing Unit with case		■	■	■	■	■		■									
	Floor Standing Unit without case		■	■	■	■	■		■									
2nd generation HYDRO KIT	Low Temperature													■				■
	High Temperature													■			■	
4th generation Energy Recovery Ventilator with DX Coil	with Humidifier					■			■		■							
	without Humidifier					■			■		■							

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 connected to MULTI V WATER S outdoor, some of function will not be activated.
2) 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"

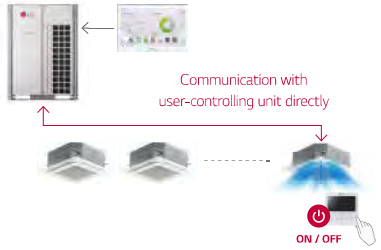
INDOOR UNIT KEY FEATURES

COMFORT

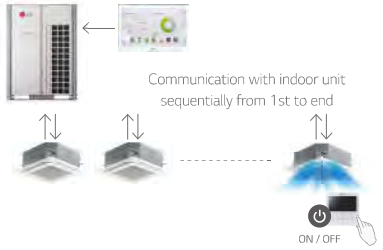
Quick Control

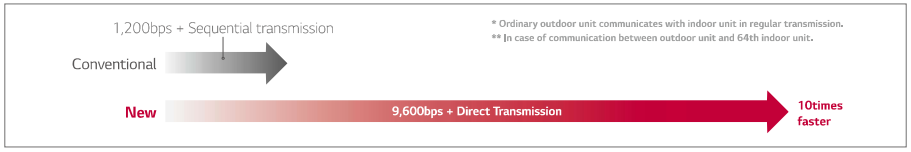
4th Generation indoor unit offers rapid heating and cooling about 10times faster than conventional through communication mode change and improved communication speed.

New



Conventional

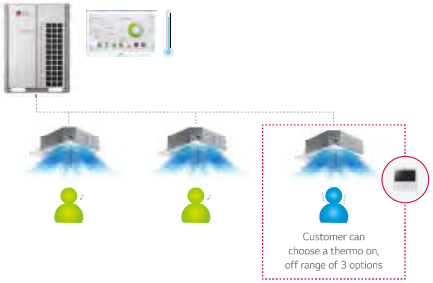




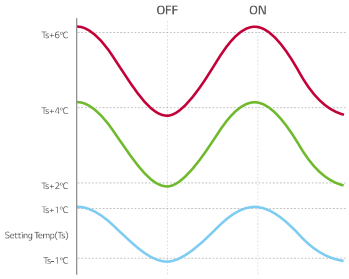
Thermo On / Off Range Setting (Cooling)

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

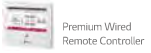
Remain Time Until Indoor Filter Cleaning + Alarm





Remain time until indoor filter cleaning 2400hr.





Remain time until indoor filter cleaning 1729hr.

Conventional

Only Alarm

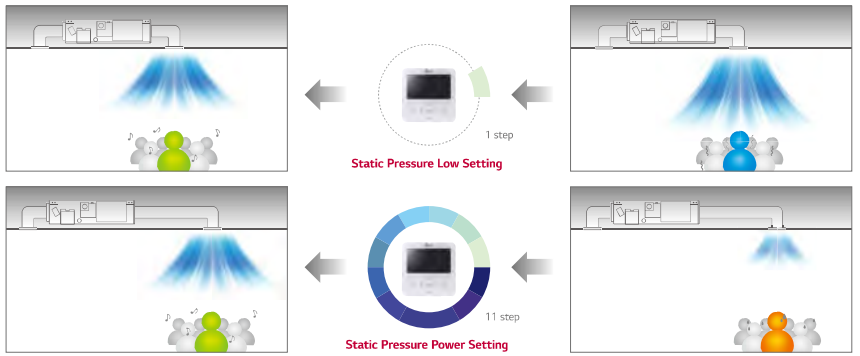


Static Pressure 11 Step Control (Only for Ceiling Concealed Duct)

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



INDOOR UNIT KEY FEATURES

CONVENIENCE

Group Control

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

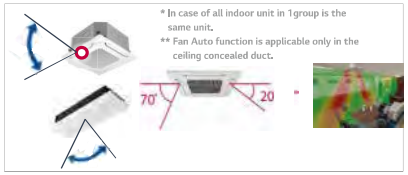
New



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

Sub function isn't operating

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



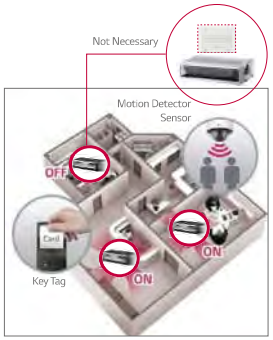
* Outdoor unit's accumulated electric energy / using rate of individual indoor unit + indoor unit's accumulated electric energy is displayed in wired remote controller, only when central controller, digital integrating electricity meter and PDI are installed and PDI, outdoor unit and indoor unit are 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

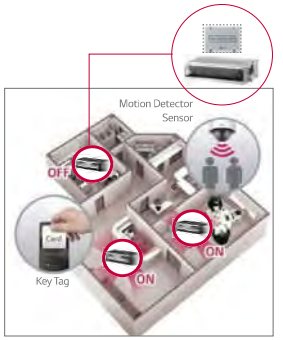


Cost Savings



Conventional

Connection between an indoor unit and external devices through dry contact

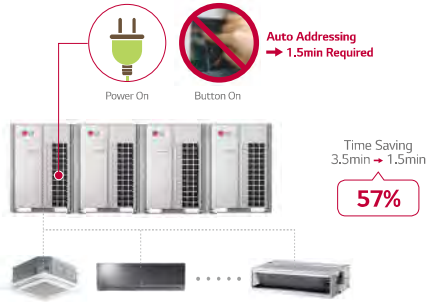


* In case of needing more functions beside on / off control, a dry contact is required to be installed.

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



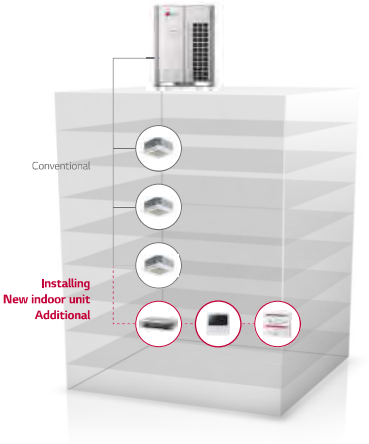
* 64ea indoor units installing time

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	-	-	-	-

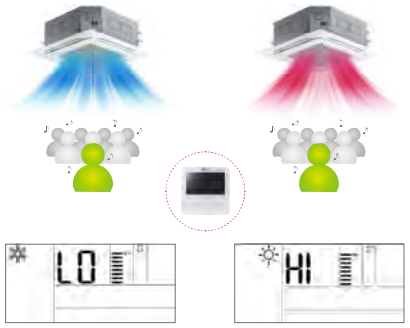
Category		No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
Third number : capacity of the indoor unit	MULTI V	0	5K	4	15K	8	36K	C	76K
		1	7K	5	18K	9	42K	D	96K
		2	9K	6	24K	A	48K	-	-
		3	12K	7	28K	B	54K	-	-
	MULTI	0	5K	4	12K	8	20K	-	-
		1	7K	5	14K	9	24K	-	-
		2	8K	6	15K	A	30K	-	-
		3	9K	7	18K	B	36K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



Test Run (Heating)

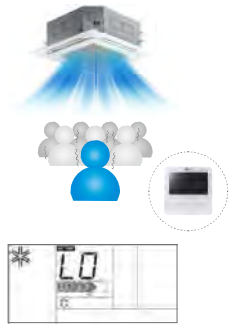
Test run mode can be operated cooling mode and heating mode for easy service.

New



Heating and cooling test run mode are available

Conventional

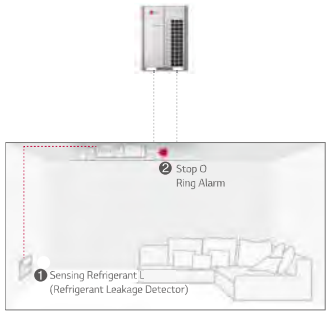


Heating test run mode is unavailable

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

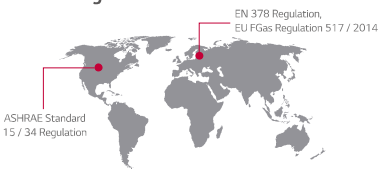


* Refrigerant leakage detector is option accessory.

In Case of Leak Refrigerant



Global Regulation



INDOOR UNIT KEY FEATURES

WALL MOUNTED UNIT

Aesthetic Design

You no longer need to be told what your air conditioner should look like. With LG's revolutionary ARTCOOL Gallery, you can change the look of your air conditioner to whatever you want, whenever you want. The ARTCOOL series have outstanding designs and have been awarded the International Forum Design Award, the Reddot Design Award and the G Mark.

Gallery



How to Change the Picture



ARTCOOL Mirror



Mirror

Standard



5K / 7K / 9K / 12K / 15K



18K / 24K



30K / 36K

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

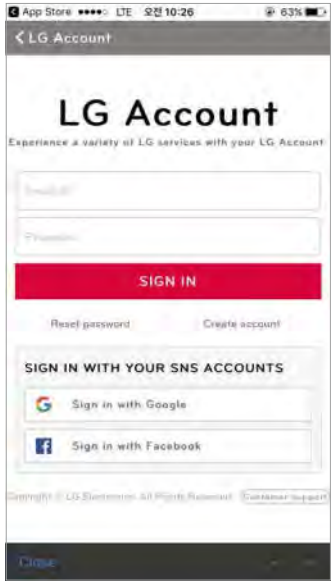
Search "LG Smart ThinQ" on Google market or Appstore then download the app.

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

INDOOR UNIT KEY FEATURES

WALL MOUNTED UNIT

Plasmaster™ Ionizer+PLUS

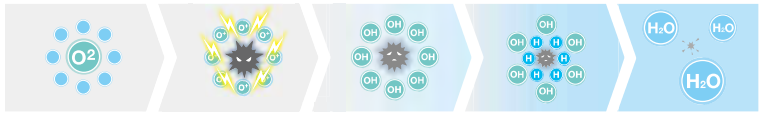
The powerful plasma Ionizer protects you from odors and harmful substances in the air with over 3 million ions to sterilize not only the air passing through the air conditioner, but also surrounding surfaces for a safer, cleaner environment.

* 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.

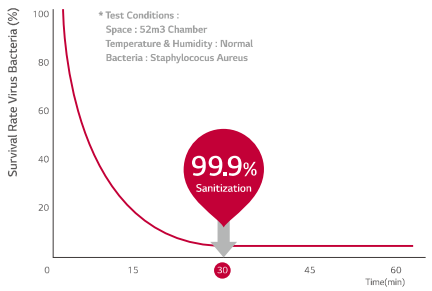


Ion Cluster Generation	Surrounding Harmful Substances	OH Radical Production	Chemical Reaction	Sterilization
Ions are released into air	H- and O- bond to harmful particles	OH radicles inactivate harmful substances	OH radicles bond with H particles in the air	H_2O molecules are produced

Test Result

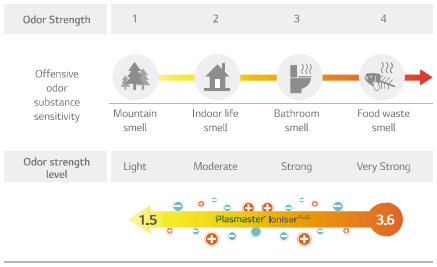
Sterilization Performance Evaluations

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.

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

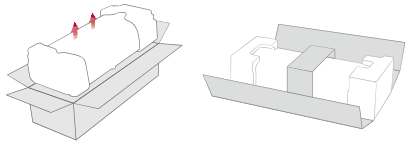
* Specifications may vary for each model.

Concept

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

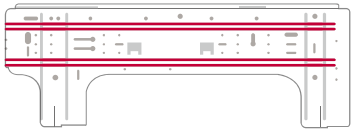
How It Works

One Simple Packing Box



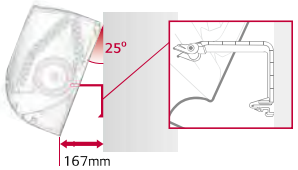
Installation Plate Improvement

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



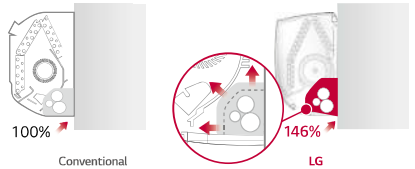
Installation Support Clip

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



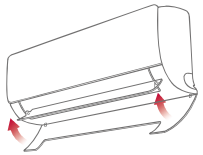
Wider Tubing Space

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



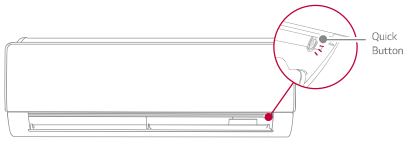
Detachable Bottom Cover

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.



INDOOR UNIT SPECIFICATION

ARTCOOL MIRROR

ARNU05GSBR4 / ARNU07GSBR4 / ARNU09GSBR4
ARNU12GSBR4 / ARNU15GSBR4



Model	Independent Unit			ARNU05GSBR4	ARNU07GSBR4	ARNU09GSBR4	ARNU12GSBR4	ARNU15GSBR4
Capacity	Cooling	Nom	kW	1.6	2.2	2.8	3.6	4.5
	Heating	Nom	kW	1.8	2.5	3.2	4.0	5.0
Power Input	Cooling / Heating	Nom [1]	W	12	13	15	19	21
	Cooling / Heating	Rated [2]	W	21	21	21	21	21
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	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
	Heating	H / M / L	m^3/min	6.5 / 6.0 / 5.5	7.0 / 6.5 / 5.5	8.2 / 7.0 / 5.5	9.5 / 8.2 / 6.5	10.5 / 9.0 / 7.0
Sound Pressure		H / M / L	dBA	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power		H / M / L	dBA	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Dimensions	Body	W x H x D	mm	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205	895 × 285 × 205
Net Weight			kg	10.8	10.8	10.8	10.8	10.8
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7	12.7
	Drain	I.D	mm	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		ARNU05GSBR4	ARNU07GSBR4	ARNU09GSBR4	ARNU12GSBR4	ARNU15GSBR4
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)	PREMTB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

ARNU18GSCR4 / ARNU24GSCR4



Model	Independent Unit			ARNU18GSCR4	ARNU24GSCR4
Capacity	Cooling	Nom	kW	5.6	7.1
	Heating	Nom	kW	6.3	8.0
Power Input	Cooling / Heating	Nom [1]	W	27	39
	Cooling / Heating	Rated [2]	W	40	40
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m^3/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
	Heating	H / M / L	m^3/min	12.5 / 12.0 / 11.3	14.0 / 12.7 / 11.5
Sound Pressure		H / M / L	dBA	38 / 35 / 33	43 / 39 / 35
Sound Power		H / M / L	dBA	57 / 54 / 52	62 / 58 / 54
Dimensions	Body	W x H x D	mm	1,030 × 325 × 245	1,030 × 325 × 245
Net Weight			kg	15.4	15.4
Piping Connection	Liquid		mm	6.35	9.52
	Gas		mm	12.7	15.88
	Drain	I.D	mm	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		ARNU18GSCR4	ARNU24GSCR4
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)	PREMTB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

INDOOR UNIT SPECIFICATION

ARTCOOL GALLERY

ARNU07GSF14 / ARNU09GSF14 / ARNU12GSF14



Model	Independent Unit			ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling / Heating	Nom 1)	W	28	28	35
	Cooling / Heating	Rated 2)	W	35	35	35
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	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Heating	H / M / L	m^3/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
Sound Pressure		H / M / L	dBA	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power		H / M / L	dBA	48 / 44 / 39	48 / 44 / 39	54 / 48 / 42
Dimensions	Body	W x H x D	mm	600 X 600 X 146	600 X 600 X 146	600 X 600 X 146
Net Weight			kg	15.0	15.0	15.0
Piping Connection	Liquid		mm	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2

* 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		ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
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 SPECIFICATION

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

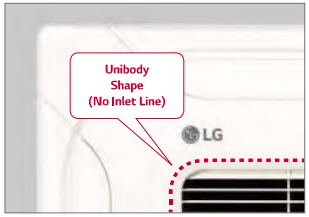
INDOOR UNIT KEY FEATURES

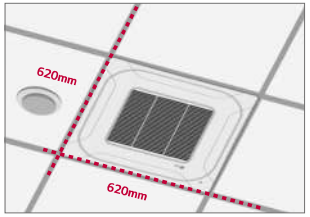
CEILING MOUNTED CASSETTE (4 Way)

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.

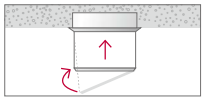
Easy filter cleaning with elevation grill.



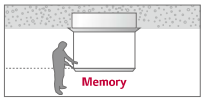
4-Point Support Structure



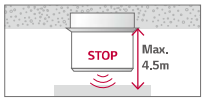
Auto Leveling



Memory for User's Level



Auto Stop Detection

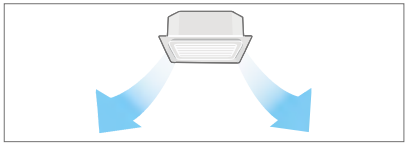


* Operating with wired remote controller (Model Name : PREMTB001,PREMTBB01) and wireless remote controller included in PTEGM0.
* Except ARNU05GTRC4, ARNU07GTRC4, ARNU09GTRC4, ARNU12GTRC4, ARNU15GTQC4, ARNU18GTQC4, ARNU21GTQC4
* Applied to Cassette panel PT-UMC1

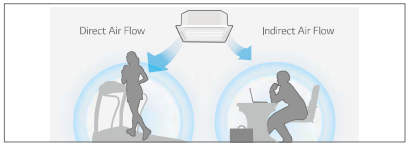
Independent Vane Control

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.



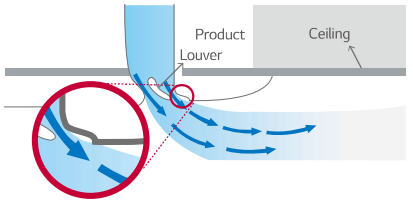
Capacity	Height
7,1 ~ 9,0kW	204mm
10,6kW	246mm
12,3 ~ 15,8kW	288mm

* Length Width : 840 x 840mm

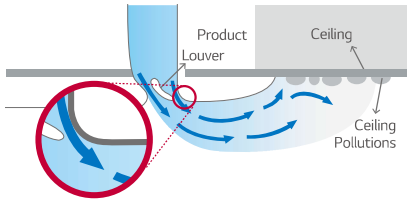
Prevent Ceiling Pollution

Coanda design of air outlet can prevent contamination of ceiling.

Coanda Design



Conventional

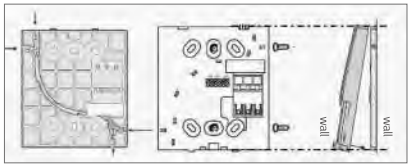


CEILING MOUNTED CASSETTE (4 Way / 2 Way)

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

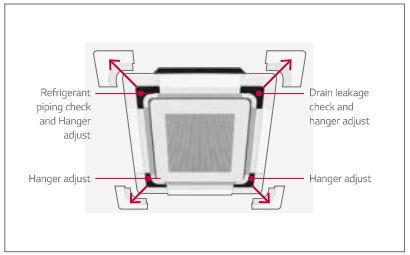




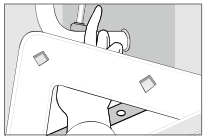
Convenient Panel Installation

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

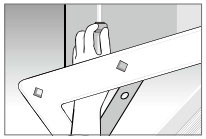
Detachable Corner Design



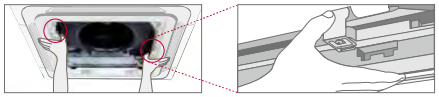
Drain leakage check



Hanger adjust

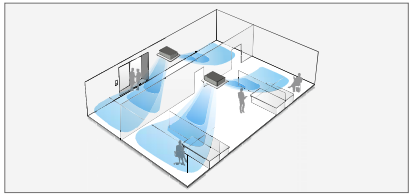


It is easy to install the panel to the body, using the button type panel design.



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.



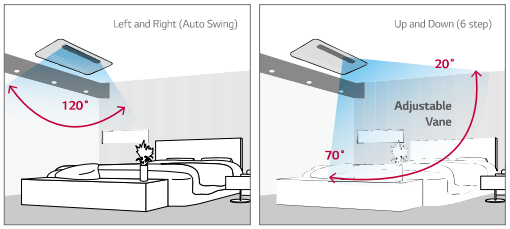


CEILING MOUNTED CASSETTE (1 Way)

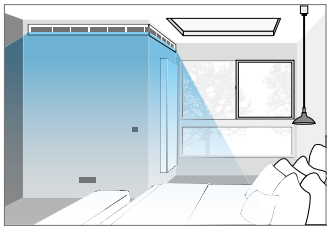
6-Step Vane Control

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



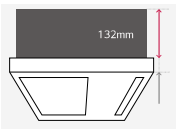
Minimized Height

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

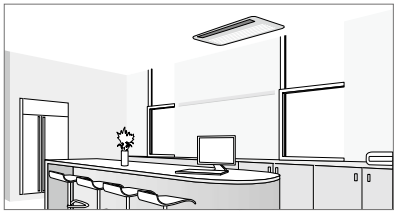




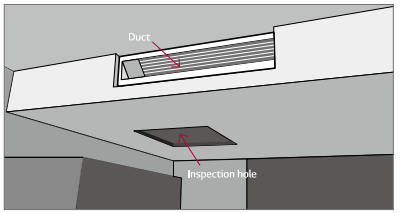
Flexible Installation

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

ARNU09GTSC4 / ARNU12GTSC4 /
ARNU18GTSC4 / ARNU24GTSC4



Model	Independent Unit			ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
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 x 225 x 600	830 x 225 x 600	830 x 225 x 600	830 x 225 x 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		ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
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			-	

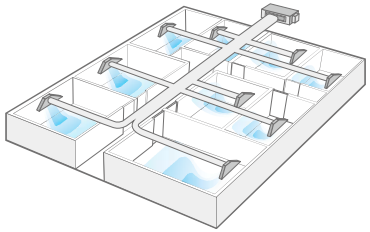
Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
							
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)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

INDOOR UNIT KEY FEATURES

CEILING CONCEALED DUCT

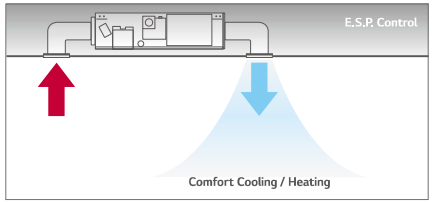
Operation for Multiple Rooms

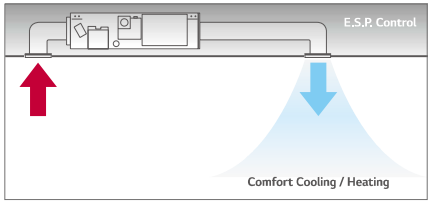
Using a spiral duct (embedded or flexible type) and stream chamber, it is possible to operate cooling / heating for several rooms simultaneously.



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.

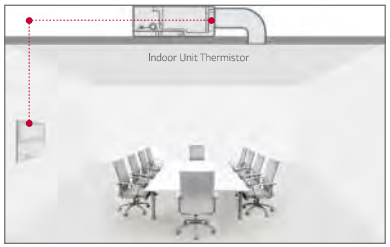




Two Thermistors Control

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.



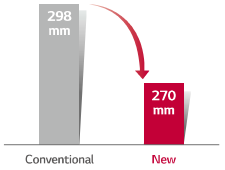
Remote Controller Thermistor

Minimized Height

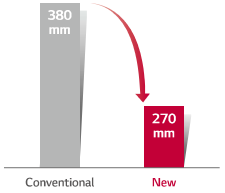
New mid-static ducts provide ideal solution for installation in limited space.



8 / 10kW



12.5kW

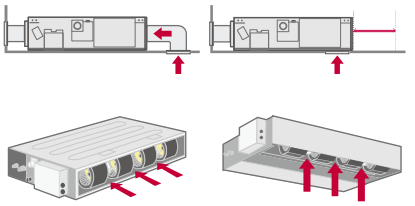


Flexible Installation (Low Static Duct Only)

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

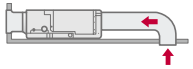
New Low Static Duct

Air intake at the rear or bottom



Conventional

Air intake at the only rear



INDOOR UNIT SPECIFICATION

MID / HIGH STACTICS

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	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
	Heating	H / M / L	m³/min	9.0 / 7.5 / 6.0	9.5 / 7.5 / 6.0	11.0 / 9.0 / 7.0	16.0 / 12.0 / 9.0	17.0 / 14.5 / 12.0	19.0 / 16.0 / 14.0
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.

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

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	m3/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	51.0 / 46.0 / 41.0
	Heating	H / M / L	m3/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0	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. B8 : The Sound Pressure test condition is based on 220 Pa (High Static Pressue) as standard.
5. The Sound Pressure test condition is based on 50 Pa for middle static duct.

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

LOW STACTICS

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.

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

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		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

BUILT-IN

ARNU07GB3G4 / ARNU09GB3G4 / ARNU12GB3G4



Model	Independent Unit			ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6
	Heating	Nom	kW	2.5	3.2	4.0
Power Input	Cooling / Heating	Nom 1)	W	30	38	41
	Cooling / Heating	Rated 2)	W	85	85	85
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	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5
	Heating	H / M / L	m^3/min	8.0 / 6.5 / 5.5	9.0 / 7.0 / 6.0	10.0 / 8.0 / 6.5
External Static Pressure		Min - Max	mmAq(Pa)	0(0) - 4(39)	0(0) - 4(39)	0(0) - 4(39)
Sound Pressure		H / M / L	dBA	33 / 32 / 29	34 / 33 / 32	35 / 34 / 33
Sound Power		H / M / L	dBA	53 / 52 / 49	54 / 52 / 51	55 / 53 / 52
Dimensions	Body	W x H x D	mm	820 x 190 x 575	820 x 190 x 575	820 x 190 x 575
Net Weight			kg	21.0	21.0	21.0
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 '

Accessories

Model		ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000		
	2 Contact Point	PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		
Suction Grille		PBSGB30		
Suction Canvas		PBSC30		
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

ARNU15GB3G4 / ARNU18GB4G4 / ARNU24GB4G4



Model	Independent Unit			ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Capacity	Cooling	Nom	kW	4.5	5.6	7.1
	Heating	Nom	kW	5.0	6.3	8.0
Power Input	Cooling / Heating	Nom 1)	W	53	60	83
	Cooling / Heating	Rated 2)	W	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
Airflow Rate	Cooling	H / M / L	m^3/min	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
	Heating	H / M / L	m^3/min	11.0 / 10.0 / 8.0	14.0 / 12.0 / 10.0	17.0 / 15.0 / 10.0
External Static Pressure		Min - Max	mmAq(Pa)	0(0) - 4(39)	0(0) - 4(39)	0(0) - 4(39)
Sound Pressure		H / M / L	dBA	41 / 40 / 37	43 / 40 / 37	46 / 43 / 37
Sound Power		H / M / L	dBA	60 / 55 / 53	61 / 58 / 55	62 / 61 / 55
Dimensions	Body	W x H x D	mm	820 x 190 x 575	1,100 x 190 x 575	1,100 x 190 x 575
Net Weight			kg	21.0	26.0	26.0
Piping Connection	Liquid		mm	6.35	6.35	9.52
	Gas		mm	12.7	12.7	15.88
	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 '

Accessories

Model		ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000		
	2 Contact Point	PDRYCB400		
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300		
	Modbus Communication	PDRYCB500		
Suction Grille		PBSGB30	PBSGB40	
Suction Canvas		PBSC30	PBSC40	
EEV Kit for MULTI V Indoor		PRGK024A0		-
IR Receiver		PWLRVN000		

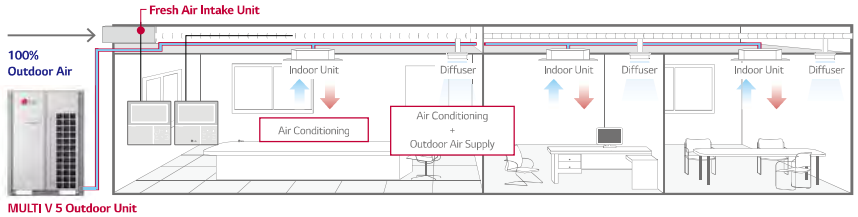
Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
							
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)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

INDOOR UNIT KEY FEATURES

FRESH AIR INTAKE UNIT

Fresh Outdoor Air Supply

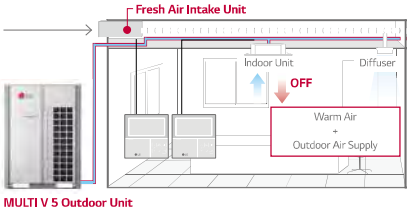
The LG Fresh Air Intake Unit (FAU) is the alternative solution for ventilation, which supplies the fresh outdoor air indoors as well as being able to cool and heat air inside simultaneously. It means the indoor space can have positive air pressure consistently, which can block cold, hot or contaminated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



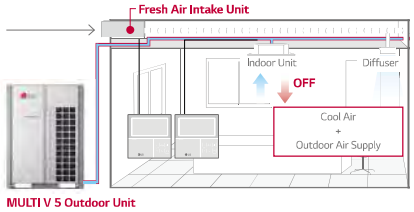
Economic Operation

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

Spring Season



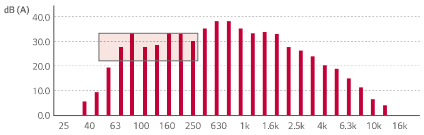
Autumn Season



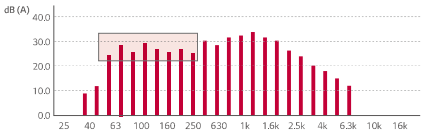
BLDC Fan Motor

It can reduce a noise at low frequencies.

AC Tap Motor



BLDC Motor



INDOOR UNIT SPECIFICATION

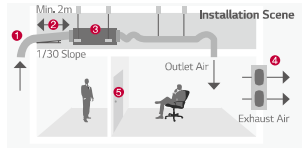
FRESH AIR INTAKE UNIT

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

INDOOR UNIT KEY FEATURES

CEILING & FLOOR CONVERTIBLE UNIT

Differentiated Design

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



Powerful Cooling & Heating

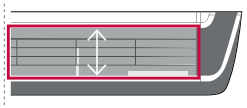
The new LG Ceiling Suspended Unit is efficient for using in large areas due to its powerful cooling and heating operation. The powerful air speed and volume means the air flow can reach up to 15m away from the air conditioner.



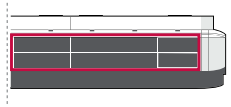
With enlarged outlet space, optimized the Air flow Path and improved Heat Exchanger's performance

Outlet Space

New LG

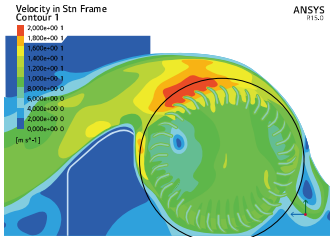


Conventional



115% ENLARGED

Optimized the Air flow Path

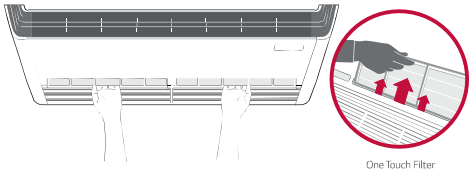


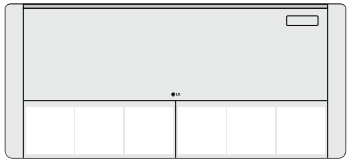
105% IMPROVED

CEILING SUSPENDED UNIT

One Touch & 2 Piece Filter

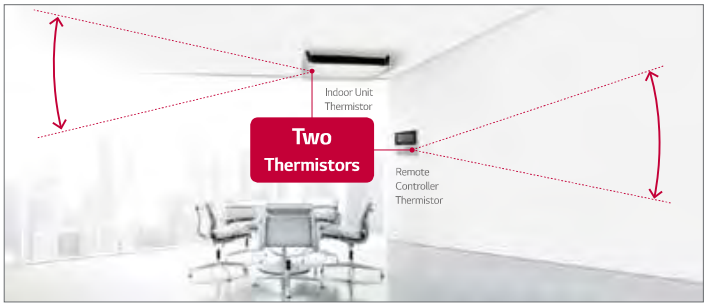
Easy in / out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.





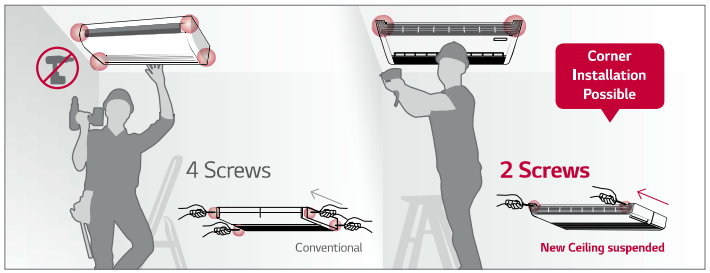
Two Thermistors Control

Users can purchase an optional control panel that includes a second thermistor, allowing for temperature checks from multiple locations.



Easy installation

Installation speed and ease is improved by reducing the total number of screws and placing them on the easily accessible front panel.



INDOOR UNIT SPECIFICATION

CEILING & FLOOR CONVERTIBLE UNIT

ARNU09GVEA4 / ARNU12GVEA4



Model	Independent Unit			ARNU09GVEA4	ARNU12GVEA4
Capacity	Cooling	Nom	kW	2.8	3.6
	Heating	Nom	kW	3.2	4.0
Power Input	Cooling / Heating	Nom 1)	W	22	30
	Cooling / Heating	Rated 2)	W	30	30
Power Supply			Ø / V / Hz	1 / 220~240 / 50 1 / 220 / 60	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m^3/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
	Heating	H / M / L	m^3/min	7.6 / 6.9 / 6.2	9.2 / 7.6 / 6.9
Sound Pressure		H / M / L	dBA	36 / 32 / 28	38 / 36 / 30
Sound Power		H / M / L	dBA	55 / 51 / 45	56 / 55 / 49
Dimensions	Body	W x H x D	mm	900 x 490 x 200	900 x 490 x 200
Net Weight			kg	13.7	13.7
Piping Connection	Liquid		mm	6.35	6.35
	Gas		mm	12.7	12.7
	Drain	I.D	mm	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		ARNU09GVEA4	ARNU12GVEA4
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 SPECIFICATION

CEILING SUSPENDED UNIT

ARNU18GV1A4 / ARNU24GV1A4 /
ARNU36GV2A4 / ARNU48GV2A4



Model	Independent Unit			ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Capacity	Cooling	Nom	kW	5.6	7.1	10.6	14.1
	Heating	Nom	kW	6.3	8.0	11.9	15.9
Power Input	Cooling / Heating	Nom 1)	W	23	25	84	91
	Cooling / Heating	Rated 2)	W	130	130	184	184
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	13.5 / 12.5 / 12	14 / 13 / 12	27 / 24 / 20	29 / 24 / 20
	Heating	H / M / L	m^3/min	13.5 / 12.5 / 12	14 / 13 / 12	27 / 24 / 20	29 / 24 / 20
Sound Pressure		H / M / L	dBA	36 / 34 / 33	37 / 35 / 33	48 / 46 / 44	49 / 47 / 44
Sound Power		H / M / L	dBA	61 / 59 / 56	62 / 59 / 56	68 / 66 / 64	68 / 67 / 66
Dimensions	Body	W x H x D	mm	1200 x 690 x 235	1200 x 690 x 235	1,600 x 690 x 235	1,600 x 690 x 235
Net Weight			kg	29.0	29.0	37.0	37.0
Piping Connection	Liquid		mm	6.35	9.52	9.52	9.52
	Gas		mm	12.7	15.88	15.88	15.88
	Drain	I.D	mm	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		ARNU18GV1A4	ARNU24GV1A4	ARNU36GV2A4	ARNU48GV2A4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000			
	2 Contact Point	PDRYCB400			
	For Thermostat (On-Off / Mode / Fan Speed)	PDRYCB300			
	Modbus Communication	PDRYCB500			

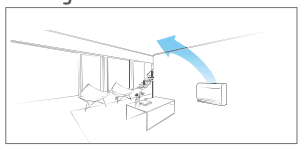
Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTBB10 (Black)	PREMTB001 (White)	PREMTBB01 (Black)	PQRCVCL0Q (Black) PQRCVCL0QW (White)	PQRCHCA0Q (Black) PQRCHCA0QW (White)	PQWRHQ0FDB

CONSOLE

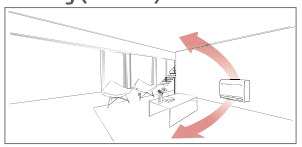
Installation Support Clip

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

Cooling

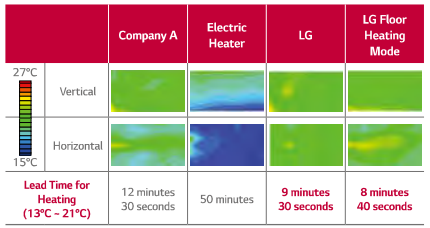


Heating (Normal)



Quick Floor Heating

Console air conditioners offer a fast and powerful performance.
Using the floor heating mode, console air conditioners provide faster floor heating and help to reach the desired temperature quickly.

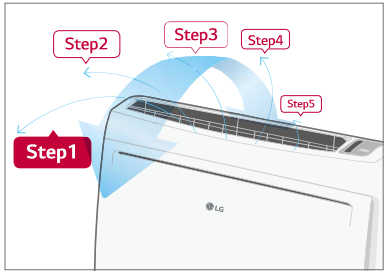


	Company A	Electric Heater	LG	LG Floor Heating Mode
Lead Time for Heating (13°C ~ 21°C)	12 minutes 30 seconds	50 minutes	9 minutes 30 seconds	8 minutes 40 seconds

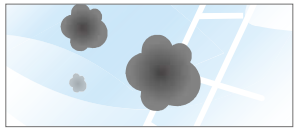
(Test Condition : Target Temp.23°C, Indoor Room : 13°C~ , Outdoor Room : 7°C)

5-Step Vane Control

There are 5 different stages to control air flow direction.

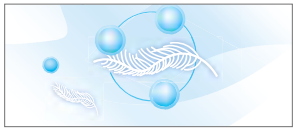


Healthier Air (3 Stage Air Filter System)



1st Advanced pre filter :

The antibacterial pre-filter primarily reduces large dust particles, mould and quilt dust.



2nd Allergy Filter :

Filter consists of enzyme that breaks down allergens, apatite and organic / inorganic binders. When the air passes through the filter, allergens cling to the filter, and the filter deactivates the allergens.



3rd Plasma Ion Generator :

The sterilised ion generator emits around 1.2 million ions, and traps some of the airborne hazardous substances.

CONSOLE

ARNU07GQAA4 / ARNU09GQAA4
ARNU12GQAA4 / ARNU15GQAA4



* A : Floor Standing with case / U : FLoo

Model	Independent Unit			ARNU07GQAA4	ARNU09GQAA4	ARNU12GQAA4	ARNU15GQAA4
Capacity	Cooling	Nom	kW	2.2	2.8	3.6	4.5
	Heating	Nom	kW	2.5	3.2	4.0	5.0
Power Input	Cooling / Heating	Nom 1)	W	15	15	18	24
	Cooling / Heating	Rated 2)	W	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
Airflow Rate	Cooling	H / M / L	m³/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
	Heating	H / M / L	m³/min	6.7 / 5.9 / 4.8	6.7 / 5.9 / 4.8	7.5 / 5.9 / 4.8	8.7 / 6.7 / 5.9
Sound Pressure		H / M / L	dBA	37 / 34 / 28	37 / 34 / 28	39 / 34 / 28	42 / 37 / 31
Sound Power		H / M / L	dBA	53 / 50 / 44	53 / 50 / 44	56 / 50 / 44	58 / 53 / 50
Dimensions	Body	W x H x D	mm	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210	700 x 600 x 210
Net Weight			kg	14.0	14.0	14.0	14.0
Piping Connection	Liquid		mm	6.35	6.35	6.35	6.35
	Gas		mm	12.7	12.7	12.7	12.7
	Drain	I.D	mm	12.2	12.2	12.2	12.2

* 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		ARNU07GQAA4	ARNU09GQAA4	ARNU12GQAA4	ARNU15GQAA4
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

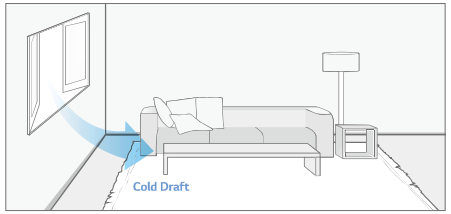
INDOOR UNIT KEY FEATURES

FLOOR STANDING UNIT

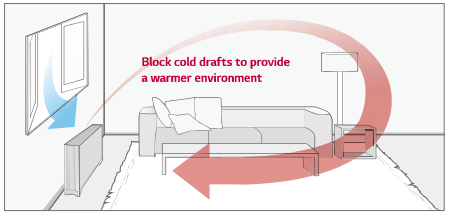
Block Cold Draft

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

Without Floor Standing

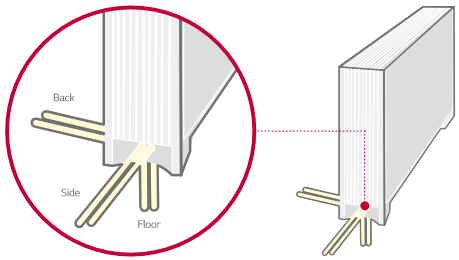


With Floor Standing



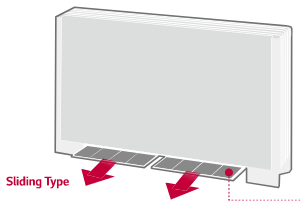
3 Way Flexible Installation

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

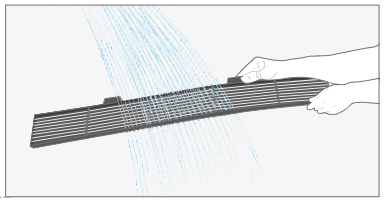


Sliding Type Filter

Easy maintenance and extended product life with sliding type filter.



Easy cleaning



INDOOR UNIT SPECIFICATION

FLOOR STANDING UNIT

ARNU07GCE*4 / ARNU09GCE*4 / ARNU12GCE*4
ARNU15GCE*4 / ARNU18GCF*4 / ARNU24GCF*4



* A : Floor Standing with case



* U : Floor Standing without case

Model	Independent Unit			ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
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	24	30	36	44	54	84
	Cooling / Heating	Rated 2)	W	85	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	1 / 220~240 / 50 1 / 220 / 60
Airflow Rate	Cooling	H / M / L	m3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
	Heating	H / M / L	m3/min	8.5 / 7.5 / 6.5	9.5 / 8.5 / 7.5	10.5 / 9.5 / 8.5	11.5 / 10.0 / 9.5	16.0 / 14.0 / 12.0	18.0 / 16.0 / 14.0
Sound Pressure		H / M / L	dBA	35 / 33 / 31	36 / 34 / 32	37 / 35 / 33	38 / 37 / 35	40 / 37 / 34	43 / 40 / 37
Sound Power		H / M / L	dBA	54 / 52 / 50	55 / 54 / 52	57 / 55 / 54	59 / 57 / 55	60 / 57 / 54	61 / 60 / 57
Dimensions	Body	W x H x D	mm	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,067 x 635 x 203 (A) 978 x 639 x 190 (U)	1,345 x 635 x 203 (A) 1,256 x 639 x 190 (U)	1,345 x 635 x 203 (A) 1,256 x 639 x 190 (U)
Net Weight 3)			kg	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	27.0 (A) / 20.0 (U)	34.0 (A) / 27.0 (U)	34.0 (A) / 27.0 (U)
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	12.0	12.0	12.0	12.0	12.0	12.0

* 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		ARNU07GCE*4	ARNU09GCE*4	ARNU12GCE*4	ARNU15GCE*4	ARNU18GCF*4	ARNU24GCF*4
Dry Contact	Simple (1 Contact Point with Case)	PDRYCB000					
	2 Contact Point	PDRYCB400					
	For Thermostat On-Off / Mode / Fan Speed	PDRYCB300					
	Modbus Communication	PDRYCB500					
EEV Kit for MULTI V Indoor		PRGK024A0					
IR Receiver		PWLRVN000				-	

Wired Remote Controller							Wireless Remote Controller
Premium	Standard III		Standard II		Simple	Simple for Hotel	
PREMTA000 PREMTA000A PREMTA000B	PREMTB100 (White)	PREMTB10 (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

VENTILATION SOLUTION

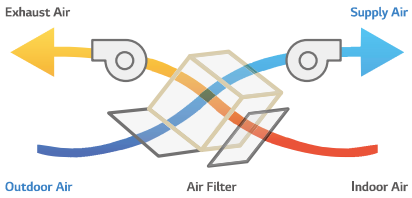
ERV



ERV

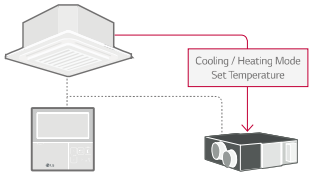
High Efficiency Heat Exchanger

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.



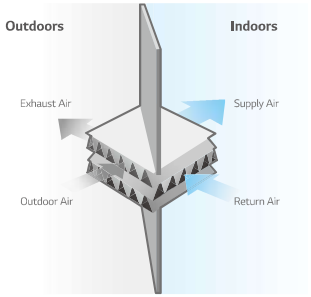
Interlocking with Air Conditioning System

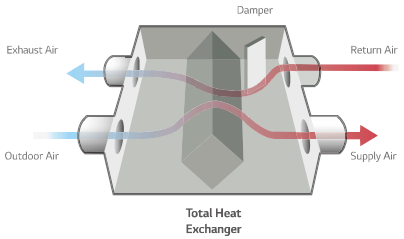
- LG ERV can be interlocked with air conditioners and controlled individually.
- This function can be operated when the system is connected with a remote control.



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.

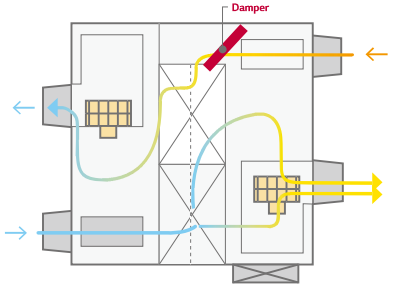




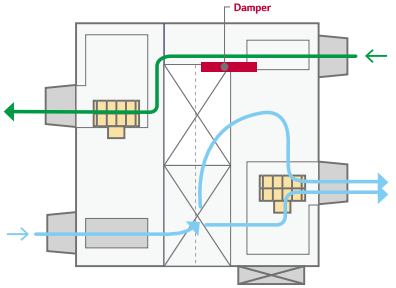
Bypass Ventilation

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)



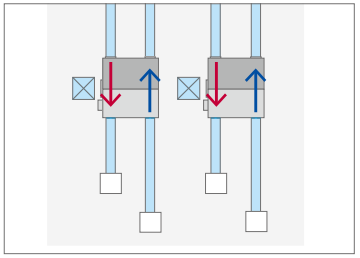
Bypass Mode (Seasonal Change)



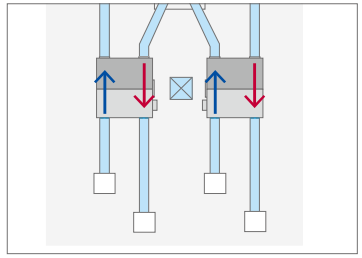
Flexibility of Installation

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

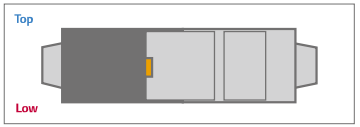
Normal installation of 2 units



Reverse installation of 1 unit (Left unit)



Inspection chamber

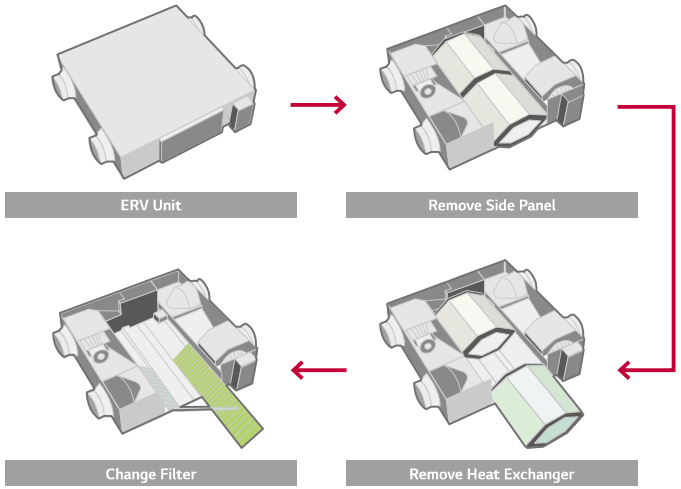




ERV

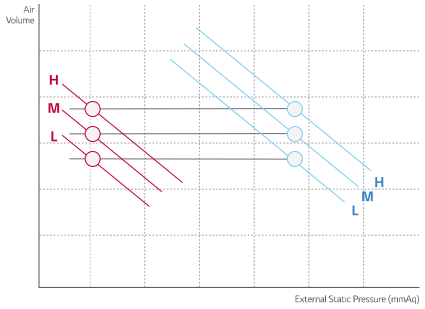
Easy Cleaning and Filter Change

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



External Static Pressure Control

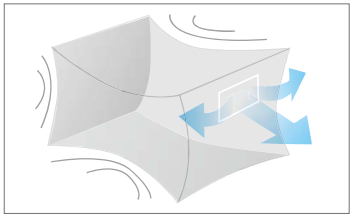
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



Fast Ventilation Mode

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

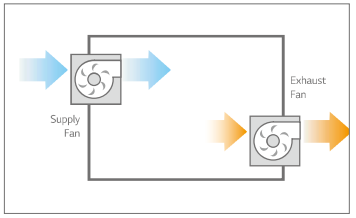
Only Exhausting



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

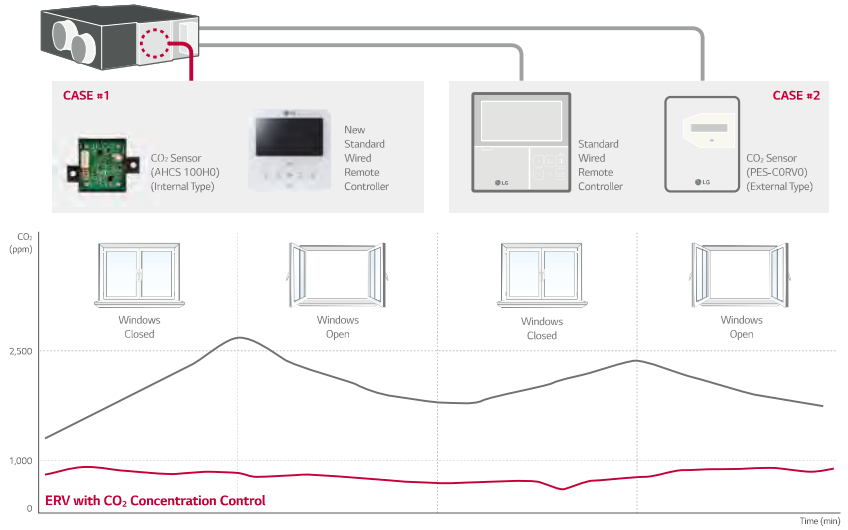


Fast Ventilation Mode



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.



VENTILATION SOLUTION KEY FEATURES

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.

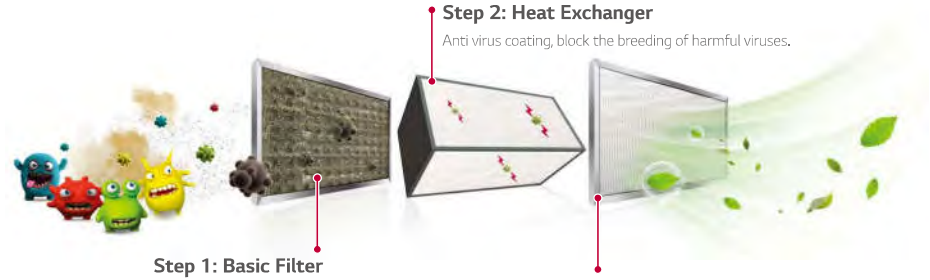


Visible!

- 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.



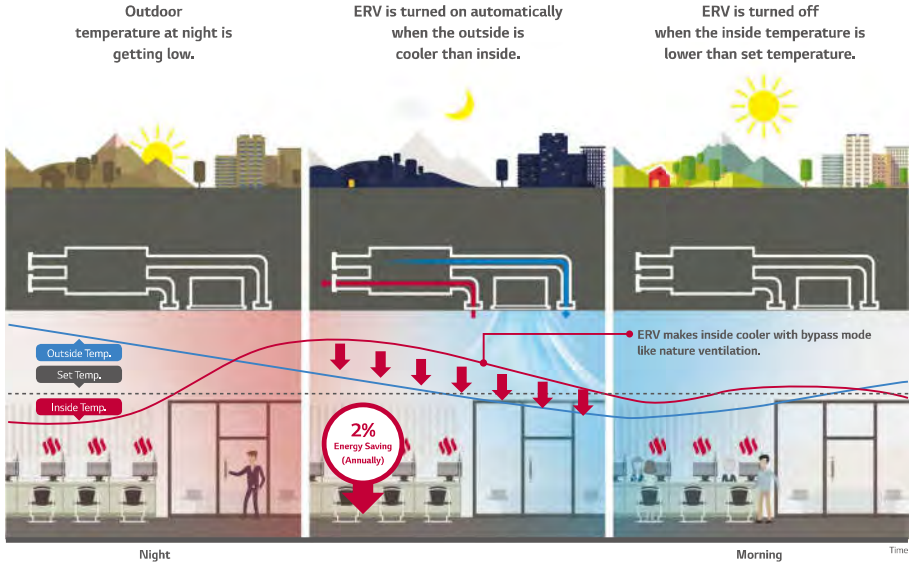
Step 2: Heat Exchanger
Anti virus coating, block the breeding of harmful viruses.

Step 1: Basic Filter
Installed front and behind of heat exchanger

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 ft²) / 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)

VENTILATION SOLUTION SPECIFICATION

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	PREMTB10	PREMTB01	PREMTB001	PES-CORV0 (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.
- 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

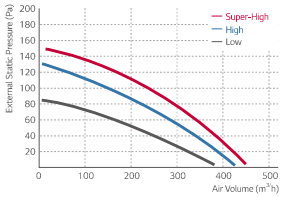
Premium	Standard III		Standard II		CO_2 Sensor	
						
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTB10	PREMTB01	PREMTB001	PES-CORV0 (External Type)	AHCS100H0 (Internal Type)

ERV

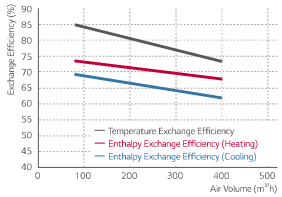
LZ-H025GBA4



Ventilation



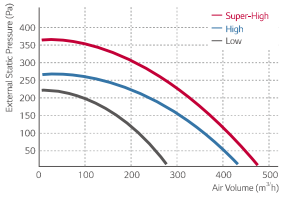
Efficiency



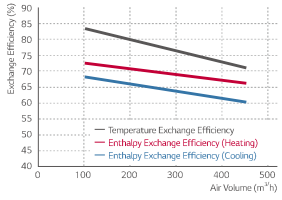
LZ-H035GBA4



Ventilation



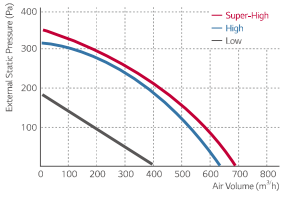
Efficiency



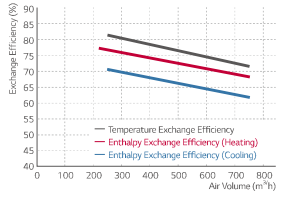
LZ-H050GBA4



Ventilation



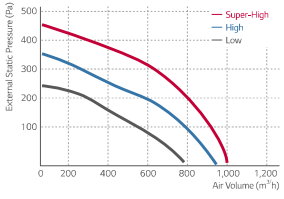
Efficiency



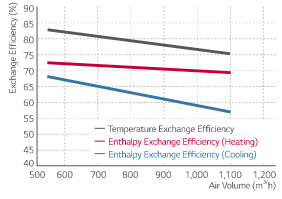
LZ-H080GBA4



Ventilation



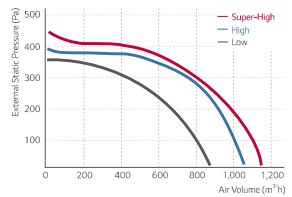
Efficiency



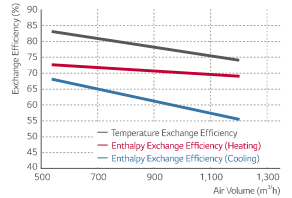
LZ-H100GBA4



Ventilation



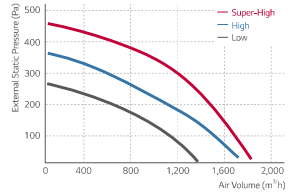
Efficiency



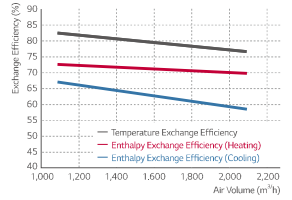
LZ-H150GBA4



Ventilation



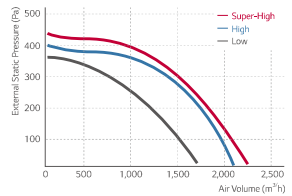
Efficiency



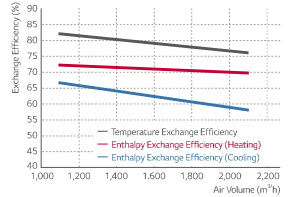
LZ-H200GBA4



Ventilation



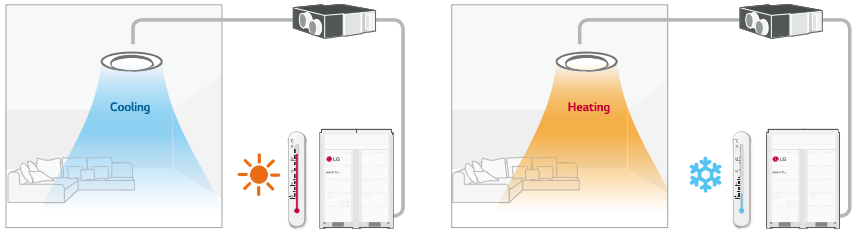
Efficiency



ERV WITH DX COIL

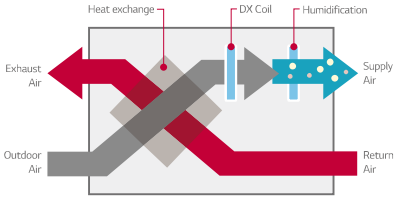
Providing Cool & Warm Fresh Air

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



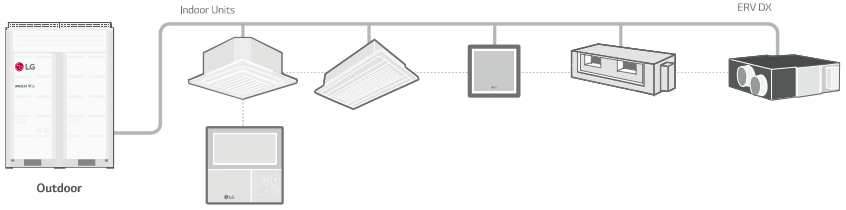
Total Air Conditioning Solution

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



Interlocking with MULTI V

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



ERV WITH DX COIL

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



Model			LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Fresh Air Conditioning Load	Cooling 1)	kW	4,93	7,46	9,12	4,93	7,46	9,12
	Heating 2)	kW	6,73	9,80	11,72	6,73	9,80	11,72
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78
Enthalpy Exchange Efficiency	Cooling (SH / H / L)	%	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50	61 / 61 / 63	50 / 50 / 53	45 / 45 / 50
	Heating (SH / H / L)	%	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66	76 / 76 / 77	67 / 67 / 69	64 / 64 / 66
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	Bypass Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
Fan	External Static Pressure (SH / H / L)	Pa	160 / 120 / 100	140 / 90 / 70	110 / 70 / 60	180 / 150 / 110	170 / 120 / 80	150 / 100 / 70
Humidifier	System		Natural Evaporating Type			-		
	Amount 3)	kg/h	2,70	4,00	5,40	-		
	Pressure Feed Water	Mpa	0,02 ~ 0,49			-		
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB (A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB (A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant			R410A					
Power Supply		Ø / V / Hz	1 / 220~240 / 50, 60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0,25 / 0,20 / 0,15	0,42 / 0,35 / 0,25	0,48 / 0,42 / 0,27	0,25 / 0,20 / 0,15	0,42 / 0,35 / 0,25	0,48 / 0,42 / 0,27
	Bypass Mode (SH / H / L)	kW	0,25 / 0,20 / 0,15	0,42 / 0,35 / 0,25	0,48 / 0,42 / 0,27	0,25 / 0,20 / 0,15	0,42 / 0,35 / 0,25	0,48 / 0,42 / 0,27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Dimensions	W x H x D	mm	1,667 x 365 x 1,140			1,667 x 365 x 1,140		
Net Weight		kg	105			98		
Piping Connection	Liquid	mm	Ø6,35			Ø6,35		
	Gas	mm	Ø12,7			Ø12,7		
	Water	mm	Ø6,35			-		
	Drain (Outer Diameter)	mm	Ø25,4			Ø25,4		
Connection Duct Diameter		mm	Ø250			Ø250		
Remote Controller			Refer to the below Wired Remote Controller table					
Dry Contact	Simple (1 Contact Point with Case)		PDRYCB000					
	2 Contact Point		PDRYCB400					
	For Thermostat (On-Off / Mode / Fan Speed)		PDRYCB300					
	Modbus Communication		PDRYCB500					
Filters (Optional)	Mode	-	AHFT100H0					
	Qty	EA	2					
	Type	-	F7					
	Size (W x H x D)	mm	520 x 192 x 25					

Note : 1) Cooling Capacity Test condition - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB
2) Heating Capacity Test condition - Indoor temperature : 20°C DB / Outdoor temperature : 7°C DB, 6°C WB
3) Humidifying capacity is based on the following conditions - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
* Cooling and heating capacities are based on the following conditions. - Fan is based on High and Super-high. The figures in the parenthesis indicate the heat reclaimed from the heat recovery ventilator.
* The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber built in accordance with the KS B 6879 conditions.
* The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
* Air flow rate can be changed over to low mode or high mode.
* The specifications, designs and information here are subject to change without notice.
* This product contains Fluorinated Greenhouse Gases. (R410A)
4) 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-CORV0 (External Type)	AHCS100H0 (Internal Type)

ACCESSORIES

INDIVIDUAL CONTROL
MECHANICAL ACCESSORIES
OTHER INTEGRATION CONTROL SOLUTION
COMPATIBILITY TABLE
CENTRALIZED CONTROL
SYSTEM INTEGRATION DEVICE
PIPING ACCESSORIES



LG HVAC CONTROL

LINE-UP

LG BECON

Individual Control

Wired Remote Controller

Premium



PREMTA000
PREMTA000A
PREMTA000B

Standard

NEW! Standard Ⅲ (White)



PREMTB100

NEW! Standard Ⅱ (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



LG-IR-WF-1

Centralized Control

Indoor Unit ~ 32

AC Ez



PQCSZ250S0

Indoor Unit ~ 64

AC Ez Touch



PACEZA000

Indoor Unit ~ 128

AC Smart Ⅳ



PACS4B000

Indoor Unit ~ 256

ACP Ⅳ



PACP4B000

Indoor Unit ~ 8,192

NEW! AC Manager 5



PACMSA000

Centralized Control

System Integration Device

Facility Integrator

PDI
(Power Distribution Indicator)



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

ACS IO Module
(Input / Output Module)



PEXPMB000

NEW! Chiller Option Kit



PCHILLN000

Gateway for Protocol

NEW! AC Smart BACnet



PBACNA000

ACP BACnet



PQNFB17C0

ACP Lonworks



PLNWKB000

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
PVDSMN000

Low Ambient Kit



For MULTI V IV
PRVC2

Dry Contact for
Demand Control



Demand Controller for
MULTI V III
PQDSRCDVM0

Variable Water Flow
Control kit



For MULTI V WATER IV
PWFCKN000



For MULTI V WATER II
PRVC0

Cool / Heat Selector



PRDSBM

AHU Kit

Communication Kit



Return/Room Air Control
PUCKA0 (For SINGLE SPLIT)
PRCKA1 (For MULTI V)



Discharge Air Control by DDC
PUDCA0 (For SINGLE SPLIT)
PRDCA0 (For MULTI V)

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



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	LG-IR-WF-1
						
On / Off	•	•	•	•	•	•
Fan Speed Control	•	•	•	•	•	•
Temperature Setting	•	•	•	•	•	•
Mode Change	•	•	•	•*	•	•
Additional Mode Setting	•	•	•	•	•	-
Auto Swing	•	•	•	•*	•	•
Vane Control (Louver Direction)	•	•	•	•*	•	-
E.S.P (External Static Pressure)	•	•	•	•	-	-
Reservation	Weekly / Yearly	Weekly / Yearly	Weekly	-	Sleep, On / Off	-
Child lock / Total Lock	•	•	•	•	-	-
Advanced Lock (on/off, mode, set point range)	•	•	Mode	-	-	-
Electric Failure Compensation	•	•	•	•*	•	-
Time Display	•	•	•	-	-	-
Filter Sign	•	•	•	-	-	-
Energy Monitoring**	•	•	•	-	-	-
Home Leave	2 Set Points Control	2 Set Points Control	•	-	-	-
External Ports	-	DO 1	-	-	-	-

* PQRCHCA0QW / PQRCHCA0Q doesn't offer this function
** Centralized control(PACS4B000)–

INDIVIDUAL CONTROL SOLUTION

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)]

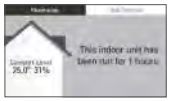
Multi Language Support

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
*** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
1) Indoor unit should have functions requested by the controller
2) 2 set points control works normally with MULTI V Heat Recovery and Single Heat Pump, But in case of MULTI V Heat Pump, It is not working in 2 set points control of indoor unit

Fully Support Multi V 5 Functions



Inside Dual Sensing

Standard III remote controller can do sensing both Temperature and Humidity



Comfort Cooling

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

Modern Design & Intuitive Interface

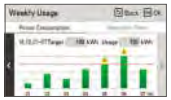


Colorful Icon

Standard III remote controller is possible to express various colors



Cool Heat Dry Fan Auto



Weekly / Monthly / Yearly Trend & Target Setting Control

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



Easy Checking Schedule

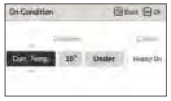
Standard III remote controller provides clock type daily schedule

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





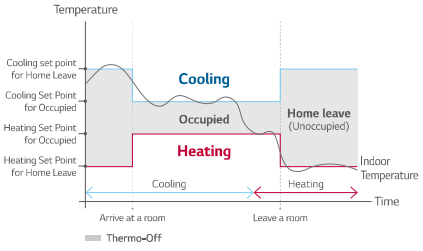
2 Set Points Control

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
*** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
**** For ceiling type duct
4) Indoor unit should have functions requested by the controller
5) 2 set points control works normally with MULTI V Heat Recovery and Single Heat Pump. But in case of MULTI V Heat Pump, It is not working in 2 set points control of indoor unit

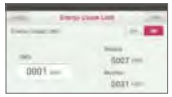
Energy Management



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



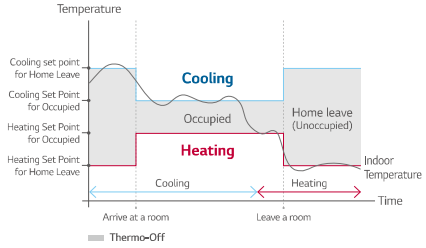
2 Set Points Control

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 Concealed Duct type
** Centralized control (PACS4B000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
1) Indoor unit should 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 Concealed Duct type
1) Indoor unit should 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

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
- 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
- Control and monitor
- Easy to install : Wall or desktop mounted
- Automatic firmware Updates*

* 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-0, 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



ACP IV



AC Smart IV



AC Manager 5



AC Ez



Central Controller Line-Up

Model Name	PQCSZ250S0	PACEZA000	PACS4B000	PACP4B000	PACM5A000
					
Maximum number of units	32	64	128	256	8,192
Individual / Group Control (On & Off, Mode, set point, fan speed)	•	•	•	•	•
Ventilation Control	•	•	•	•	•
Individual Controller Lock	•	•	•	•	•
Error Check	•	•	•	•	•
Schedule	•	•	•	•	•
Operation History	-	•	•	•	•
Visual Navigation	-	-	•	•	•
Operation Time Limit	-	-	•	•	•
Temperature Limit	-	•	•	•	•
Remote Access [1]	-	By client S/W	Web	Web	Web
Auto Changeover / Setback	-	•	•	•	•
Power consumption monitoring (with PDI)	-	•	•	•	•
Interlock Control	-	-	•	•	•
Virtual Group Control	-	-	•	•	•
Emergency Alarm Display	-	•	•	•	•
ACS IO Module Interlocking	-	-	•	•	•

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

CENTRALIZED CONTROL SOLUTION

AC EZ TOUCH

Smart management with 5 inch touch screen for small site



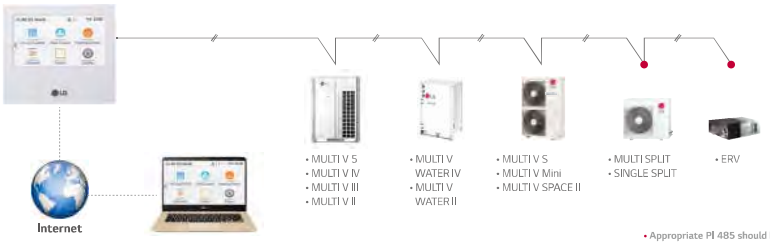
PACEZA000

Features

Model Name	PACEZA000
Maximum number of indoor units	64
Individual / Group Control (On & Off, Mode, set point, fan speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Slave Mode (Interlocking with higher level controller)	•
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	•
Temperature Limit	•
Remote Access [1]	By client S/W
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Emergency Alarm Display	•
External IO Port No.	DI 1
Compatible Model	MULTI V / ERV / ERV DX / THERMA V / Hydro kit
Size (W x H x D, mm)	137 x 25 x 121

1) 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



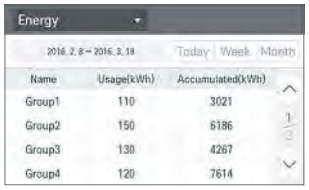
• Appropriate PI 485 should be used according to PDB

Features



PC Access

Users can control each space efficiently through PC access.
(Web access : Network configuration is locally necessary)



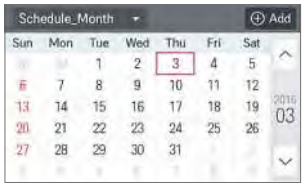
Energy Statistics (with PDI)

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 oil or 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.

CENTRALIZED CONTROL SOLUTION

AC SMART IV

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



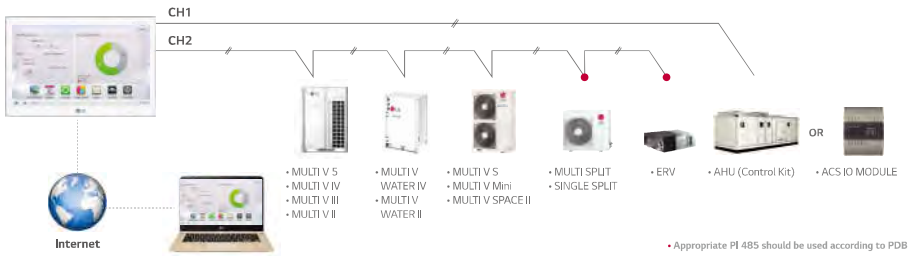
PACS4B000

Features

Model Name	PACS4B000
Maximum number of indoor units	128
Individual / Group Control (On & Off, Mode, set point, fan speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Slave Mode (Interlocking with higher level controller)	•
Schedule	Daily / Weekly / Monthly / Yearly / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access [1]	•
Auto Changeover / Setback	•
Power Consumption Monitoring	• (with PDI)
Energy Navigation	• (with PDI)
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 2 / DO 2
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / Hydro kit / AHU (Control kit)

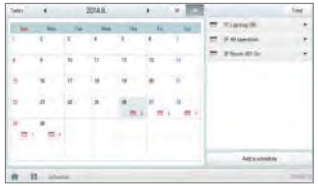
1) Assignment of public IP address is required to access central controller through internet please contact regional office to have detailed Internet connection configuration

Installation Scene



• Appropriate PI 485 should be used according to PDB

Features



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.



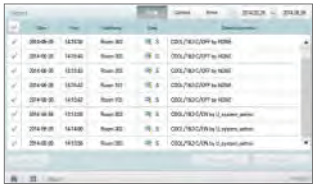
Visual Navigation

Current operation status on floor plan is checked at one view.



Energy navigation

Energy navigation 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.



Operation Report

Report including control status and other information is provided so that operation history can be reviewed easily. Data can be sent by E-mail or stored on USB or external HDD.



Interlocking

Allows interlocked operation of devices or between digital inputs and outputs on the AC Smart IV.



Emergency Display

Red alert takes up the whole display upon any urgency situation and all other control signals are blocked to prevent any possible accident.

CENTRALIZED CONTROL SOLUTION

AC EZ

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

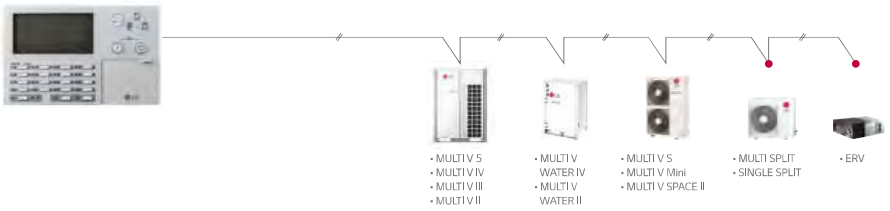
PQCSZ250S0



Features

Model Name	PQCSZ250S0
Maximum number of indoor units	32
Individual / Group Control (On & Off, Mode, set point, fan speed)	•
Ventilation Control	•
Individual Controller Lock	•
Error Check	LED / LCD Display
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Slave Mode (Interlocking with higher level controller)	•
Schedule	Weekly
Display	Operation status, Set temperature, Room temperature, Schedule
Size (W x H x D, mm)	190 x 120 x 17
Power	DC 12V

Installation Scene



• Appropriate PI 485 should be used according to PDB

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

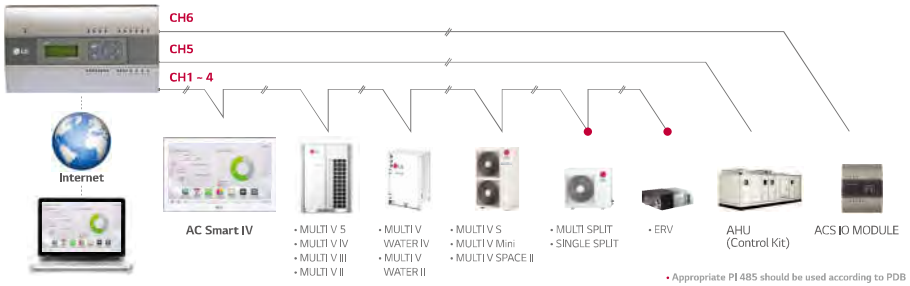


Features

Model Name	PACP4B000
Maximum number of indoor units	256
Individual / Group Control (On & Off, Mode, set point, fan speed)	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access [1]	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	• (with PDI)
Energy Navigation	• (with PDI)
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•
External IO Port No.	DI 10 / DO 4
Interfaceable Products	MULTI V / ERV / ERV DX / THERMA V / Hydro kit / AHU (Control kit)

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

Installation Scene



• Appropriate PI 485 should be used according to PDB

CENTRALIZED CONTROL SOLUTION

AC MANAGER 5

Up to 32 ACP IV can be connected so that 8,192 indoor units can be controlled and monitored

PACM5A000

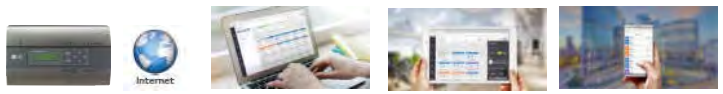


reddot award
communication design

Features

Model Name	PACM5A000
Maximum number of indoor units	8,192 (supports 32 ACP IV or AC Smart IV)
Individual / Group Control (On & Off, Mode, set point, fan speed)	•
Ventilation Control	•
Individual Controller Lock	• (Temperature / Mode / Fan / All)
Error Check	Self diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Repetition / Exception day
Operation History	•
Visual Navigation	•
Operation Time Limit	•
Temperature Limit	•
Web Access [1]	•
Auto Changeover / Setback	•
Power Consumption Monitoring (with PDI)	•
Energy Navigation	• (with PDI)
Interlock Control	•
Virtual Group Control	•
Emergency Alarm Display	•
ACS IO Module Interlocking	•

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



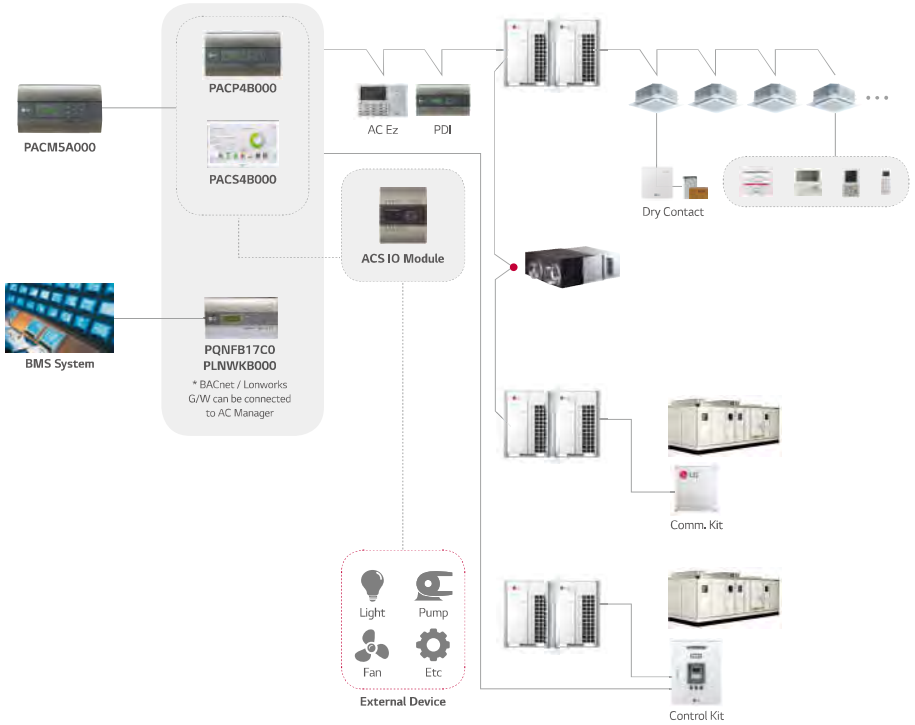
Schedule Function

Energy Management

Operation Trending Report

Automatic E-mail Sending

Solution Overview



* Combination: we recommend you to connect separated wattmeter for Indoor units and Outdoor units to have correct power distribution value
• Appropriate PI 485 should be used according to PDB

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 IO Module  PEXPMB000	**ACP BACnet (Modbus)**  PQNFB17C0	 For Indoor Unit (Air-Conditioner, ERV) PHNFP14A0
Chiller Option Kit  PCHLLN000	**ACP Lonworks**  PLNWKB000	
	KNX Gateway  LG-AC-KNX4 LG-AC-KNX8 LG-AC-KNX16 LG-AC-KNX64	

SYSTEM INTEGRATION DEVICE

PDI (POWER DISTRIBUTION INDICATOR)

PDI shows power consumption of up to 128 indoor units



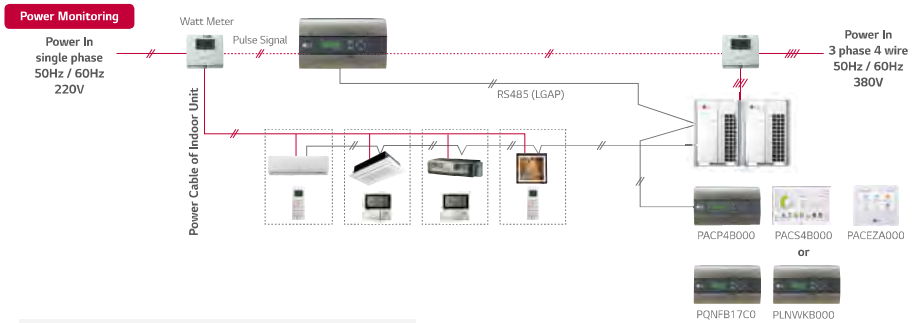
Premium
PQNUD1S40 (8 port)

Standard
PPWRDB000 (2 port)

Features

- Data is backed up so that correct consumption can be checked when power outage occurred
- Connector can be separated for convenient installation
- Linkable with pulse type power meter

Installation Scene



* This value could be different with measured power consumption by power meter
Combination : we recommend you to connect separated watt meter for Indoor units and Outdoor units to have correct power distribution value

SYSTEM INTEGRATION DEVICE

ACS IO MODULE

The module can be connected with PACS4B000 or PACP4B000 if additional control points are needed not only DI / DO but also AI / AO port. These central controller can control 3rd party device as pump, security, lighting and so on through DI / DO and AI / AO

PEXPMB000



Features

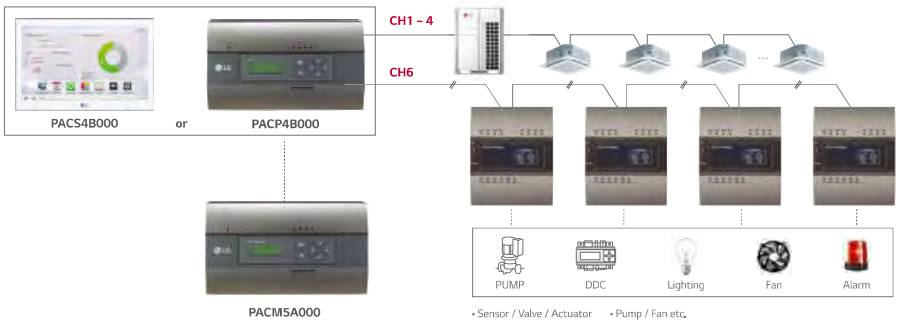
Model Name		PEXPMB000
Linkable Products		PACS4B000 PACP4B000 PACM5A000
Communication	RS-485	1
I/O	Digital Input	3
	Digital Output	3
	Universal Input	4
	Analog Output	4

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 (Dry Contact)	-	-
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	224	1,260
Maximum Number of Node	9	16	-

* Maximum number of Indoor units may be reduced by increasing the number of I/O points.

Installation Scene



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

SYSTEM INTEGRATION DEVICE

CHILLER OPTION KIT

LG central controller IV 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



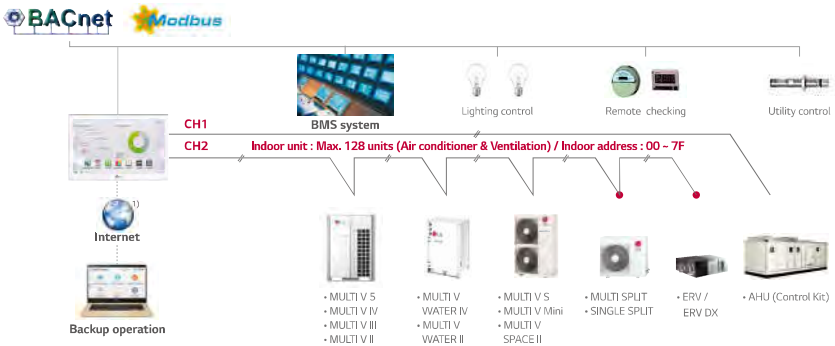
Features

- **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.

• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

ACP BACNET GATEWAY

PQNFB17C0



* Please refer PDRYCB500 for Modbus RTU

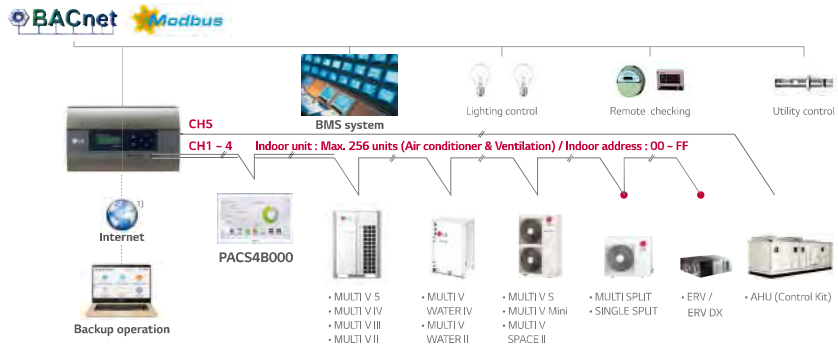
Features

- **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.

• Appropriate PI 485 should be used according to PDB

SYSTEM INTEGRATION DEVICE

ACP LONWORKS GATEWAY

PLNWKB000

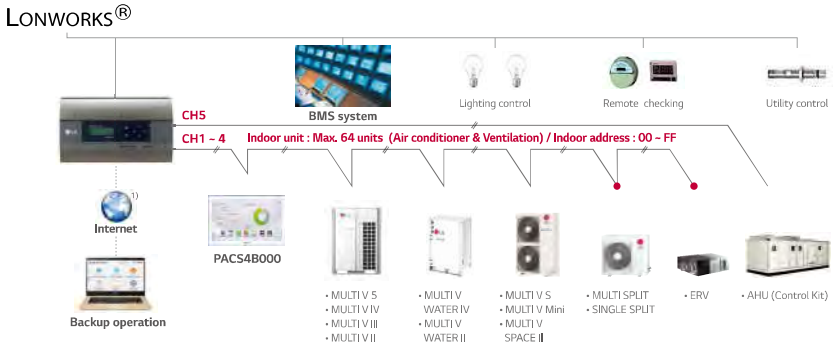


Features

- **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



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

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

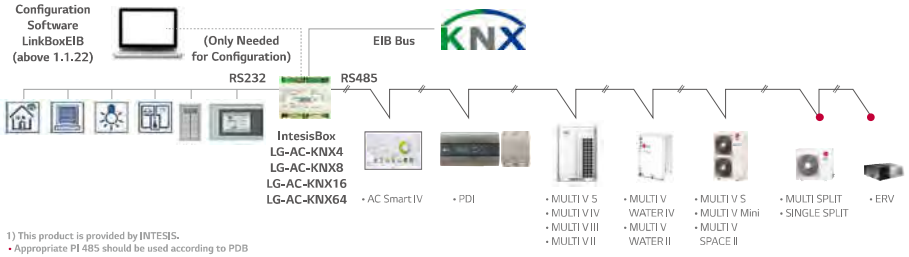
Link BoxEIB Configuration Software for IntesisBox® KNX serious

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.



- 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 INTERRATION 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 PUCKA0 PRCKA1
2 Points Dry Contact PDRYCB400	Remote Temperature Sensor PQRSTA0	Low Ambient Kit PRVC2	PUDCA0 PRDCA0
Dry Contact for Thermostat PDRYCB300	Zone Controller ABZCA	Dry Contact for Demand Control PQDSBCDVM0	Control Kit PRCKD21E PRCKD41E
For Modbus PDRYCB500		Variable Water Flow Control Kit PWFCKN000	EEV Kit (Electronic Expansion Valve) PRLK048A0 / PRLK096A0
		PRVC0	TXV Kit (Thermal Expansion Valve) PATX13A0E / PATX20A0E PATX25A0E / PATX35A0E PATX50A0E
		Cool / Heat Selector PRDSBM	

OTHER INTERRATION CONTROL SOLUTION

DRY CONTACT

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

PDRYCB000



Features

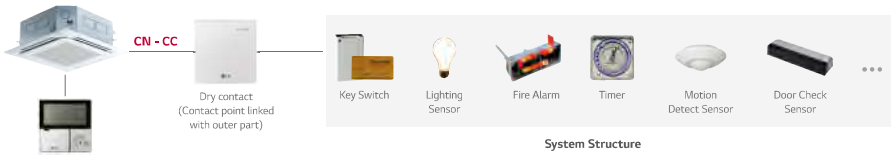
Model Name	PDRYCB000
Contact Point	1 Contact Point
Contact Voltage Rating	AC 220V
On / Off Control	•
Error alarm Output	•
Operation On / Off Output	•
Rotary Switch 1 (Set Temperature selection)	-
Rotary Switch 2 (Operation Logic selection)	-
Size (W x H, mm)	120 x 120

* 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

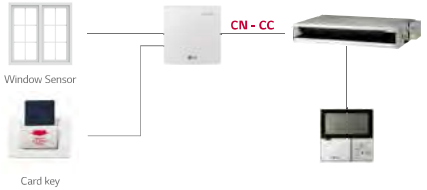
* Refer to each models PDB for applicable models. * Maximum operation AC : 3A
* 4th generation indoor unit has 1 contact point function for On / Off control. But in case of using more function of Dry Contact besides On / Off control, Dry Contact is needed.

Signal Point

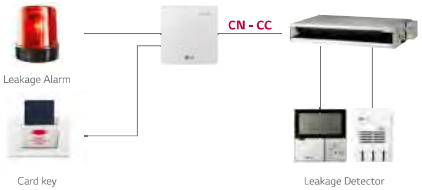


Installation Scene

2 inputs interworking



Refrigerant leakage detection alarm



OTHER INTERRATION 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

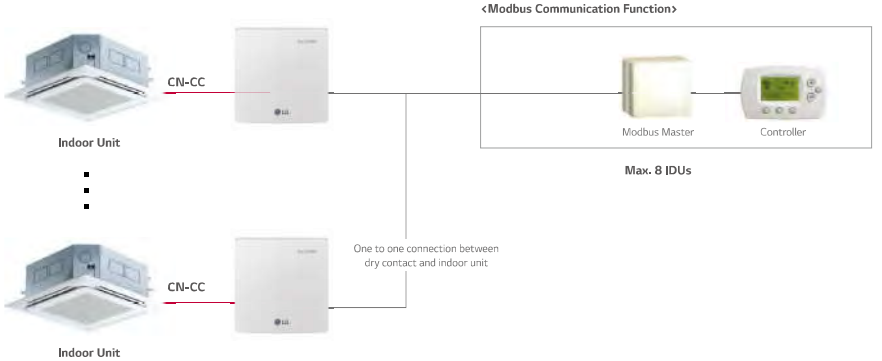
Function

- MODBUS communicate with MODBUS master controller
- MAX. 8 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 100
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 100
40015	Set fan speed	1 -- 3	1 : Low, 2 : Middle, 3 : High

Installation Scene



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

OTHER INTERRATION CONTROL SOLUTION

GROUP CONTROL WIRE

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

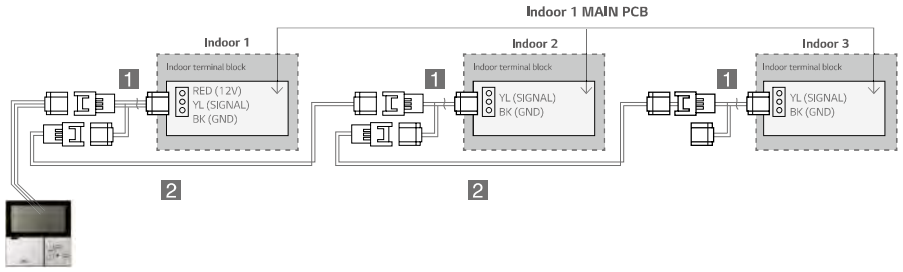
PZCWRCG3



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 INTERRATION CONTROL SOLUTION

REMOTE TEMPERATURE SENSOR

Sensor for detecting the room temperature

PQRSTA0

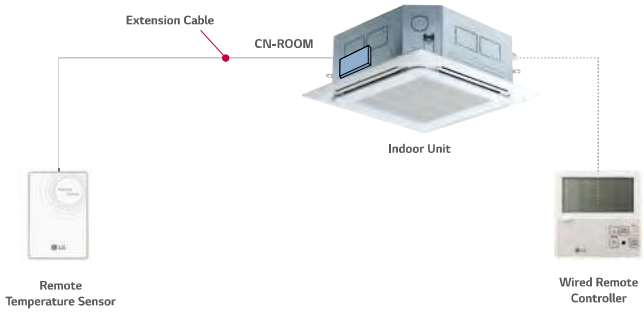


Features

- 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 INTERRATION CONTROL SOLUTION

ZONE CONTROLLER

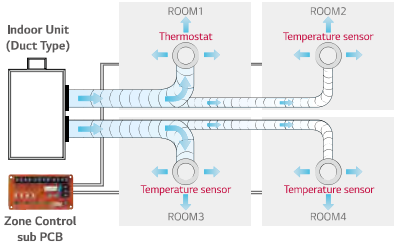
Controls air conditioning in up to 4 zones by external thermostat

ABZCA



Features

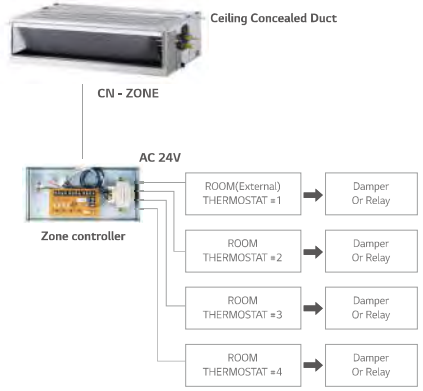
- Controls different zones (up to 4 zones) by external thermostat (AC a24V)
- Maintain proper air volume of each zone
- Auto variation of dampers
- Auto control of fan speed and On / Off operation

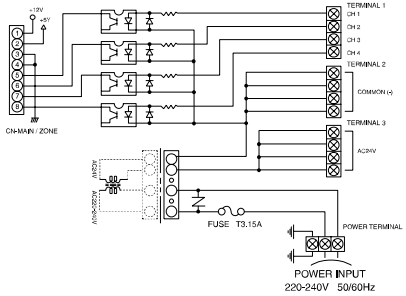


Models Applied

Ceiling Concealed Duct (refer to PDB for applicable models)

Wiring Diagram





OTHER INTERRATION 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

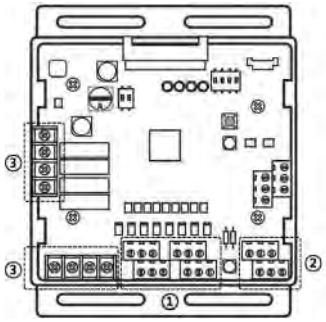
MULTI V 5, MULTI V IV, MULTI V WATER IV, MULTI V S

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)

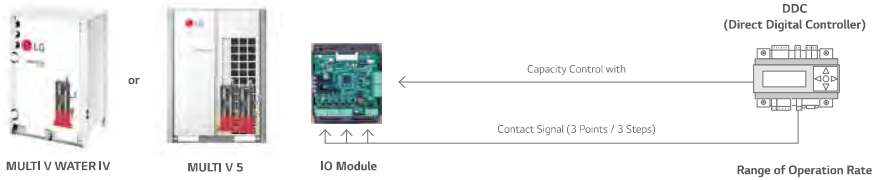
3) Digital Output Part (DO : 250VAC, Max 1A)
   - Error status relay output
   - Operation status relay output
   - Valve control



Installation Scene

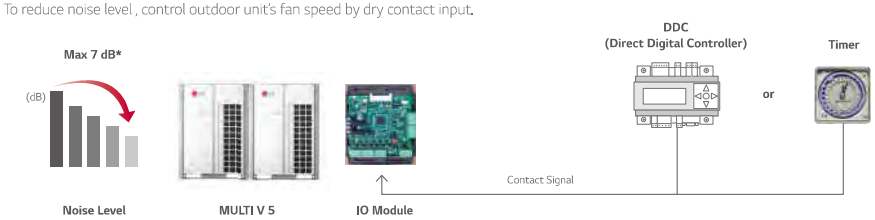
Demand Control

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

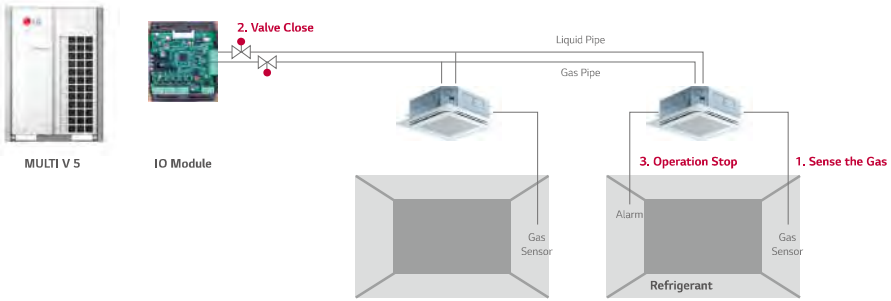
To reduce noise level , control outdoor unit's fan speed by dry contact input.



* 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



OTHER INTERRATION CONTROL SOLUTION

LOW AMBIENT KIT

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

PRVC2



Features

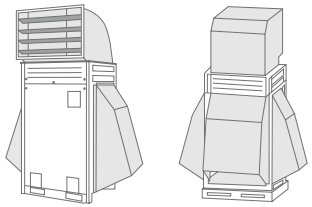
Function

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

Description

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

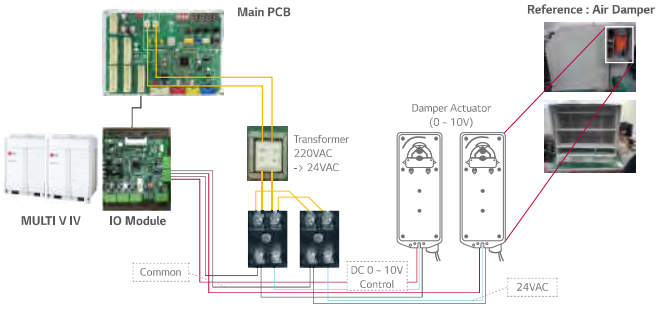
* Before apply this accessory, please contact regional sales office.



Models Applied

MULTI V IV

Installation Scene



Note : The IO Module can control maximum three actuators. Please, review damper actuator's installation manual.

OTHER INTERRATION CONTROL SOLUTION

OUTDOOR UNIT DRY CONTACT

Dry contact for demand control

PQDSBCDVM0



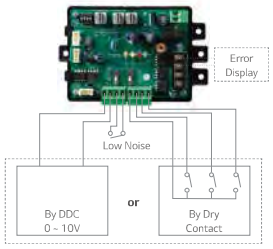
Features

Function

- Demand control (3 contact signal)
- Demand control (Co-work with DDC)
- Outdoor unit fan low speed control (Night low noise operation)
- All Off
- Error output (Display)

Description

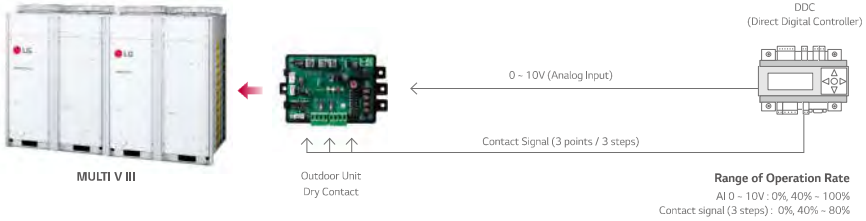
- The product is especially designed for demand control.



Models Applied

MULTI V S, MULTI V III, MULTI V MINI, MULTI V SPACE II, MULTI V WATER II, MULTI V WATER S

Installation Scene



OTHER INTERRATION 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

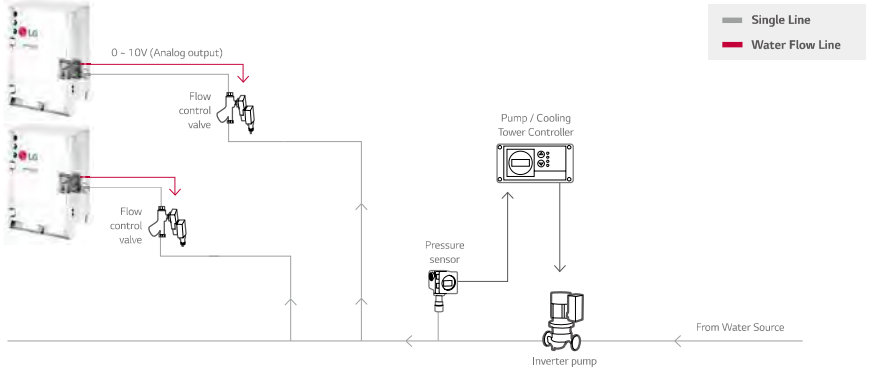
Function

- 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 INTERRATION CONTROL SOLUTION

COOL / HEAT SELECTOR

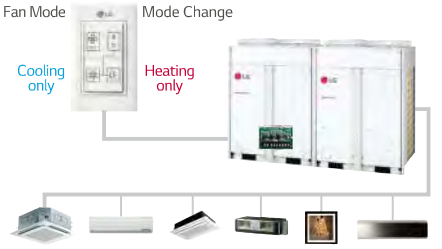
**Cooling, heating, or fan mode can be selected
to prevent cooling and heating mixing errors during seasonal changes**

PRDSBM



Features

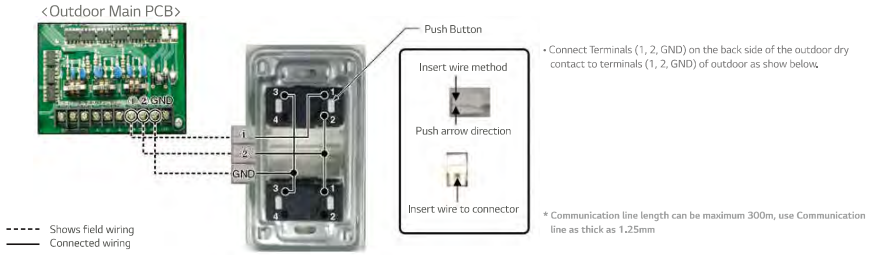
- Indoor unit mode control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season



Models Applied

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

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 INTERRATION CONTROL SOLUTION

AHU KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG's high efficient products for maximum cost saving



Communication Kit
PRCKA1 / PUCKA0
PRDCA0 / PUDCA0
Control Kit
PRCKD21E / PRCKD41E
EEV Kit (Electronic Expansion Valve)
PRLK048A0 / PRLK096A0
TXV Kit (Thermal Expansion Valve)
PATX13A0E / PATX20A0E / PATX50A0E
PATX25A0E / PATX35A0E

Specifications

Communication & Control Kit

Type	Model	Combination				Description	Dimensions (mm)		
		Outdoor Unit	EEV Kit	TXV Kit	Centralized Controller		W	H	D
Communication Kit	PRCKA1	MULTI V	•	•	•	Return / room air control by remote controller or dry contact	280	280	135
	PRDCA0	MULTI V	•	•	-	Return / room air or discharge air (capacity) control by DDC This unit is connected with outdoor unit 1:1	330	430	180
	PUCKA0	Single Split	-	-	•	Return / room air control by remote controller or dry contact	280	280	135
	PUDCA0	Single Split	-	-	-	Return / room air or discharge air (capacity) control by DDC	330	430	180
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	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	22.2	22.2	491	331	174
	PATX20A0E	18 ~ 26HP	15.88	22.2	28.58	28.58	491	331	174
	PATX25A0E	28 ~ 36HP	22.2	28.58	34.92	34.92	491	331	174
	PATX35A0E	38 ~ 46HP	28.58	34.92	41.3	41.3	491	331	174
	PATX50A0E	48 ~ 56HP	28.58	34.92	41.3	41.3	561	331	192

Features

Communication Kit

PRCKA1 & PUCKA0

List	Description
Communication Kit Operation	On / Off
Mode Change	Cooling / Heating / Fan
Return Air (or Room) Temperature Setting	Cooling 18 ~ 30°C, Heating 16 ~ 30°C
Fan Speed Signal Output	3 steps fan signal output (220V)
Reservation	On / Off, Weekly
Return Air (or Room) Temperature Display	10 ~ 39.5°C

Note : PRCKA1 and PUCKA0 are controlled and monitored by LG wired remote controller or LG centralized controller

Accessories for PRCKA1 & PUCKA0

Wired Remote Controller		Dry Contact				IO Module (for Outdoor Capacity Control)
Standard II		Simple	2 point	Thermostat	Modbus	
PREMTB001 (White)	PREMTBB01 (Black)	PDRYCB000	PDRYCB400	PDRYCB300	PDRYCB500	PVDSMN000 (MULTI V IV) PWFCKN000 (MULTI V WATER IV)

PRDCA0 & PUDCA0

List		Description	Type	Min	Max
Controlling	Communication Kit Operation	On / Off	Digital input* (Non voltage)	-	-
	Mode Change	Fan only / Heating / Cooling	Digital input (Non voltage)	-	-
	Fan Step	High / Mid / Low (3 steps)	Digital input (Non voltage)	-	-
	Room Temperature Control	Cooling 18 ~ 30°C, Heating 16 ~ 30°C	Analog input	0V	10V
	Discharge Air Temperature Control (by Outdoor unit Capacity Control)	Compressor Off, Compressor Off & Fan Off, 40 ~ 100% capacity control	Analog input	0V	10V
Monitoring	Communication Kit Operation	On / Off	Digital output*	Max : AC 250V, DC 30V, 1A	
	Outdoor Unit Operation	On / Off	Digital output	Max : AC 250V, DC 30V, 1A	
	Mode	Fan / Defrost / Cooling / Heating	Digital output	Max : AC 250V, DC 30V, 1A	
	Fan Mode	High / Mid / Low (3 steps)	Digital output	Max : AC 250V, DC 30V, 1A	
	Error Status	No error / Error occurred	Digital output	Max : AC 250V, DC 30V, 1A	

* Digital Output is Normal open type. For more detail please refer to installation manual.
Note : DDC or thermostat (field supplied item) is required to control PRDCA0 or PUDCA0

Accessories for PRDCA0 & PUDCA0

Wired Remote Controller	
Standard II (Monitoring Only)	
PREMTB001 (White)	PREMTBB01 (Black)

OTHER INTERRATION CONTROL SOLUTION

AHU KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG's high efficient products for maximum cost saving

Features

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

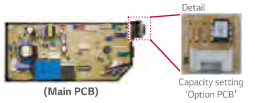
List	Required Specification	Apply Location
Temperature Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -50 ~ 50°C	- Apply to MA, SA, RA
Temperature & Humidity Sensor	- Power : AC 24V, Output signal : DC 0 ~ 10V - Temperature boundary : -40 ~ 70°C - Humidity boundary : 0 ~ 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

Capacity Selection

For Communication Kit with SINGLE SPLIT

When selecting evaporator, change 'Option PCB' in Communication kit according to below table (Basic 'Option PCB' is for 24k Btu/h)

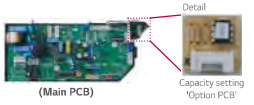


Option PCB 12kBTU	Outdoor Unit Capacity		Recommended Heat Exchanger Volume (10^{-3} x m^3)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)	Applicable Outdoor Units	
	kBTU	kW				PUCKA0	PUDCA0
						Standard Inverter	
EBR65102901	12	3.5	2.2	3.5	9 ~ 10	*	-
EBR65102902	18	5.0	2.4	5.0	13 ~ 16.5	*	*[2]
EBR65102903	24	7.1	2.6	7.1	14 ~ 18	*	*[2]
EBR65102904	30	8.0	2.9	8.0	20 ~ 26.5	*	*[2]
EBR65102905	36	10.0	3.1	10.0	26.5 ~ 32	*	-
EBR65102906	42	12.5	3.4	12.5	28 ~ 36	*	-
EBR65102907	48	14.0	4.0	14.0	30 ~ 40	*	-
EBR65102908	60	15.0	4.7	15.0	40 ~ 50	*	-
EBR77627409	70	19.0	5.2	20.0	60 ~ 70	*	*
EBR77627406	85	23.0	5.9	23.0	64 ~ 80	*	*

1) Evaporator Saturated Temperature = 6°C, Air Temperature = 27°C DBT / 19°C WBT
2) Combination allowed only for air-to-air system.
* UU18W.UE4 / UU24W.U44 / UU30W.U44 Available

For Communication Kit with MULTI V

- When selecting evaporator, change 'Option PCB' in Communication kit according to below table (Basic 'Option PCB' is for 36k Btu/h)
- After checking the need capacity, remove the 36k Option PCB equipped in the main PCB, and set up the Option PCB fitted the need capacity in the main PCB.



Option PCB P/No	Capacity Index (Btu/h)	Recommended Heat Exchanger Volume (10^{-3} x m^3)	Maximum Heat Exchanger Capacity (kW)	Air Flow Rate (CMM)
EBR52358907	28k	2.7	8.6	22 ~ 26
EBR52358908	36k	3.1	11.0	25 ~ 32
EBR52358909	42k	3.4	13.8	31 ~ 35
EBR52358910	48k	4.0	15.4	33 ~ 45
EBR52358911	76k	5.4	22.2	50 ~ 64
EBR52358912	96k	6.3	28.1	64 ~ 72
EBR52358914	115k	7.3	33.7	72 ~ 88
EBR52358915	134k	8.5	39.3	88 ~ 103
EBR52358916	153k	9.5	45.4	103 ~ 116
EBR52358917	172k	10.5	50.4	114 ~ 129
EBR52358913	192k	11.2	56.2	121 ~ 137

* Evaporator Saturated Temperature = 6°C, Air Temperature = 27°C DBT / 19°C WBT
* Heat exchanger volume (m^3) : Pipe cross-section x Tube length
  - Pipe cross-section (m^2) = π x ID^2 / 4
  - Tube length (m) = Tube length of 1 pipe x Tube step x Tube row

OTHER INTERRATION CONTROL SOLUTION

AHU KITS

Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG's high efficient products for maximum cost saving

Installation Scene

Simple Control with PUCKA0

Optional

SINGLE SPLIT	AHU (Field Supply)	PUCKA0		Wired Remote Controller	Centralized Controller	DDC (Field Supply) + Dry Contact
			Expansion Valve is not Required			

Simple Control with PUDCA0

SINGLE SPLIT	AHU (Field Supply)	PUDCA0		Wired Remote Controller		DDC (Field Supply)
			Expansion Valve is not Required	(Monitoring Only)		

Simple Control with PRCKA1

MULTI V	AHU (Field Supply)	PRCKA1	EEV Kit or TXV Kit	Wired Remote Controller	Centralized Controller	DDC (Field Supply) + Dry Contact

Simple Control with PRDCA0

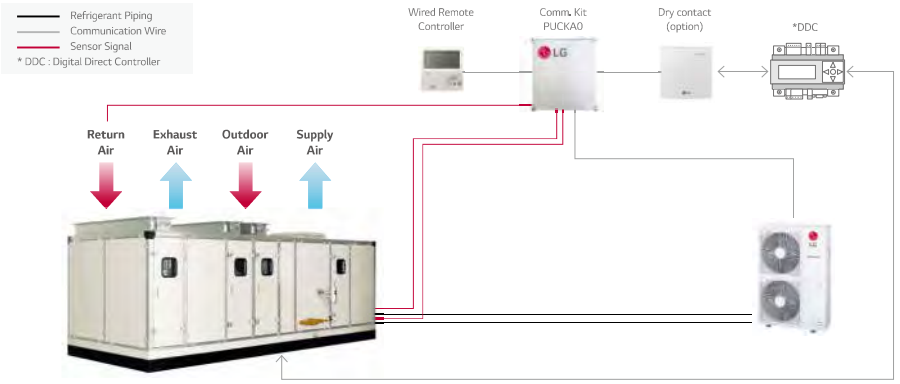
MULTI V	AHU (Field Supply)	PRDCA0	EEV Kit or TXV Kit	Wired Remote Controller		DDC (Field Supply)
				(Monitoring Only)		

Various Control with Control Kit

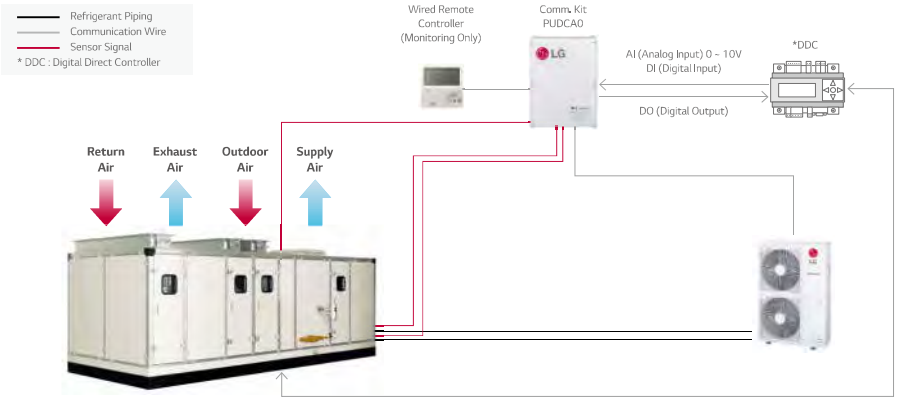
MULTI V	AHU (Field Supply)	Control Kit	TXV Kit Only		Centralized Controller	Sensors and Actuators are Required According to Control Function
MULTI V			TXV Kit Only			

Application

Simple Control with PUCKA0



Simple Control with PUDCA0



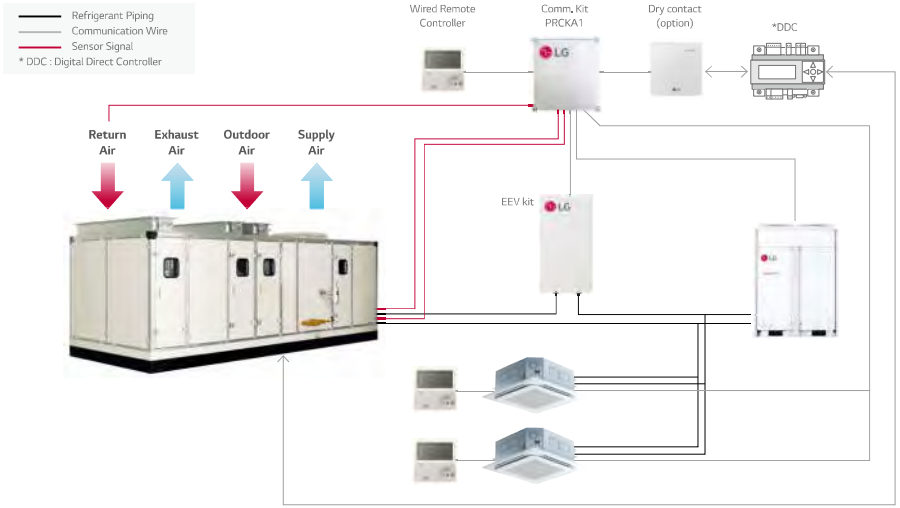
OTHER INTERRATION CONTROL SOLUTION

AHU KITS

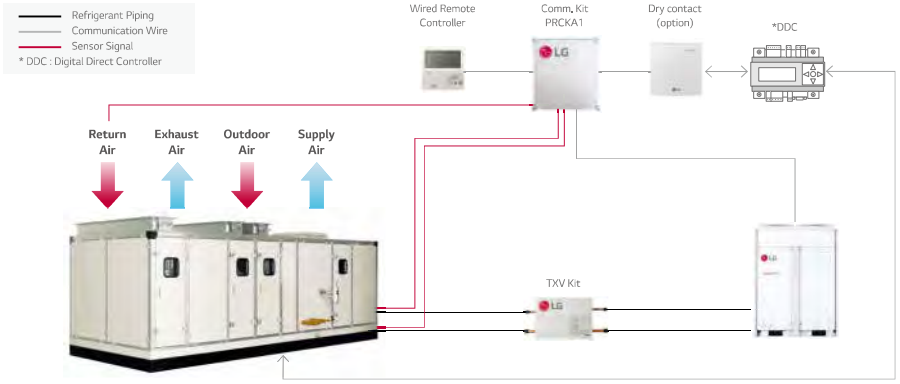
Solution to connect LG outdoor unit on the DX coil of an air handing unit, with LG's high efficient products for maximum cost saving

Application

Simple Control with PRCKA1 – EEV Kits + Indoor Units

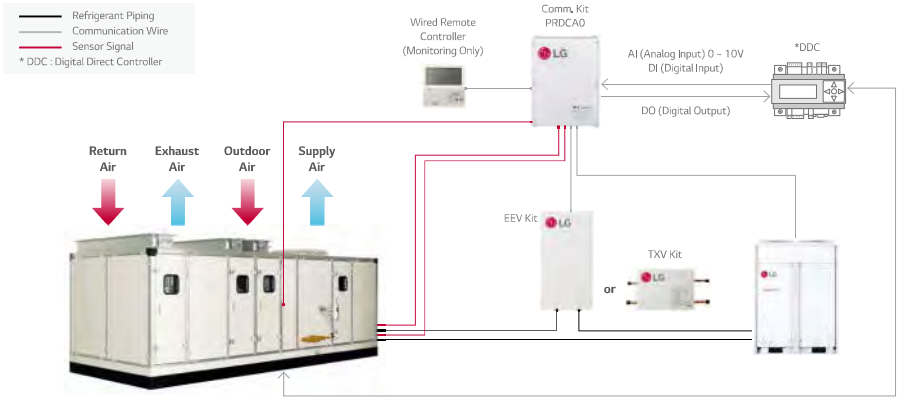


Simple Control with PRCKA1 – Single TXV Kit (without Indoor Unit)

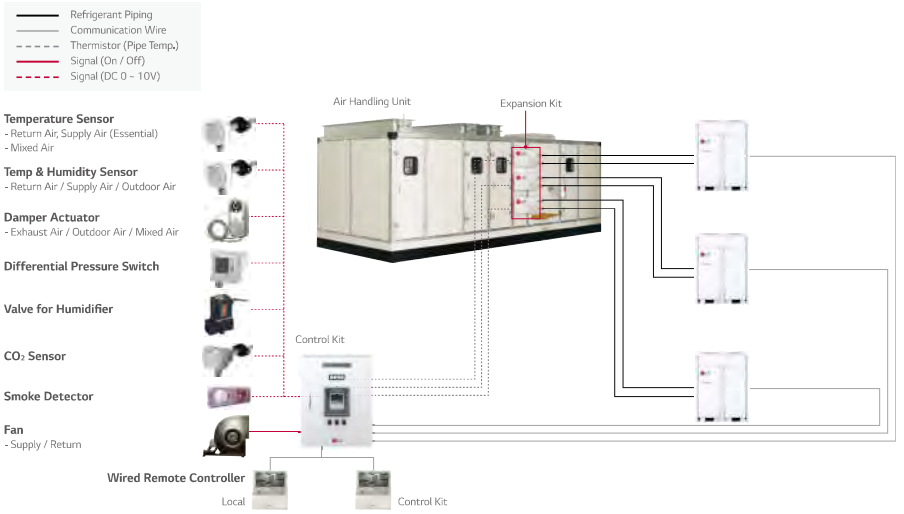


Application

Simple Control with PRDCA0 – Single EEV Kit or TXV Kit



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



LINE-UP

Indoor			Outdoor
Ceiling Mounted Cassette		Ventilation	MULTI V
Auto Elevation Grille PTEGM0 **Cassette Cover** PTDCM / PTDCQ **Plasma Kit** PTPKM0 / PTPKQ0 **Ventilation Kit** PTVK410 PTVK420 PTVK430	**Cassette Panel** **4 Way Cassette** (Compact panel) PT-QCHW0 **4 Way Cassette** PT-UQC / PT-UMC1 **2 Way Cassette** PT-TLC, PT-USC **1 Way Cassette (Grill Type)** PT-UUC / PT-UUC1 / PT-UTC **(Panel Type)** PT-UUD / PT-UTD	**CO_2 Sensor** PES-C0RV0 AHCS100H0 **Refrigerant Leakage Detector** PRLDNVS0 **F7 Filter** AHFT035H0 AHFT050H0 AHFT100H0	**Air Guide** PRAGX3S0 / PRAGX2S0 **Drain Pan** PRODX20 / PRODX30 / PHDPA (THERMA V)
Ceiling Concealed Duct		Etc.	THERMA V
Drain Pump Kit ABDPG / PBDP9 **Built-in Duck Kit** **Suction Grille** PBSGB30 / PBSGB40 **Canvas** PBSC30 / PBSC40		**Independent Power Module** PRIP0 **EEV Kit** PRG **IR Receiver** PWL	**Solar Heating Kit** PHLLA **Sanitary Tank Kit** PHLTA / PHLTC / PHLTB **Domestic Hot Water Tank** LGRTV200E (198 LITERS) LGRTV300E (198 LITERS) LGRTV200VE (198 LITERS) LGRTV300VE (198 LITERS)

Mechanical Accessories Line-up and Application

Type 1	Type 2	SINGLE SPLIT	MULTI	MULTI V	THERMA V	Remark
INDOOR	Auto Elevation Grille	•	–	•	–	4-Way Cassette
	Cassette Panel	•	•	•	–	4-Way / 2-Way / 1-Way Cassette
	Cassette Cover	•	•	•	–	4-Way Cassette
	Ventilation Kit	•	•	•	–	4-Way Cassette
	Plasma Kit	•	•	•	–	4-Way Cassette
	Suction Grille / Canvas	–	–	•	–	Ceiling Concealed Duct (Built-in)
	Drain Pump Kit	•	•	–	–	Ceiling Concealed Duct
	Refrigerant Leakage Detection Kit	–	–	•	–	MULTI V 4th Generation Indoors
	Independent Power Module	–	–	•	–	MULTI V Indoor
	CO_2 Sensor	–	–	•	–	Energy Recovery Ventilator
	EEV Kit	–	–	•	–	MULTI V Indoors
	IR Receiver	•	•	•	–	Ceiling Concealed Duct
OUTDOOR	Air Guide	–	–	•	–	MULTI V IV
	Drain Pan	–	–	•	•	MULTI V IV / THERMA V

* Only for chassis TM, TN, TP

AUTO ELEVATION GRILLE

Easy filter cleaning with the elevation grille

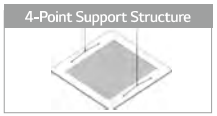
PTEGM0

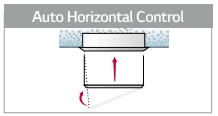


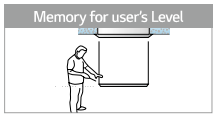
Features

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, PREMTB01

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

CASSETTE PANEL

Stylish designed panels make more unique space by various applications



4 Way Cassette
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

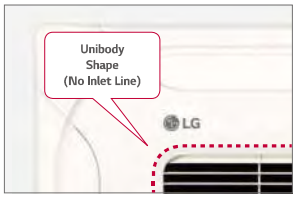
Features

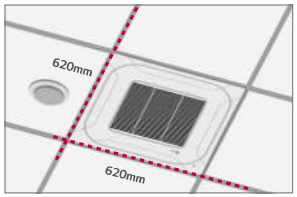
- Independent vane operation uses separate motors, making it Possible to control all four vanes independently.
- The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

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-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

VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410
PTVK420
PTVK430



Features

• The ventilation kit can be supplied air from outside.

Models Applied

There are 2 Solutions for Fresh Air

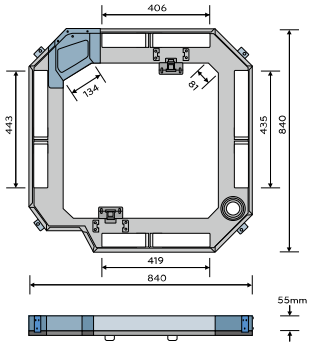
- PTVK410+PTVK420 (for chassis TP, TN, TM)
- PTVK430 (for chassis TR, TQ, TP, TN, TM)

* Users can purchase and use PTVK430 in addition to PTVK410+PTVK420 in need to phase in larger outdoor air volume.

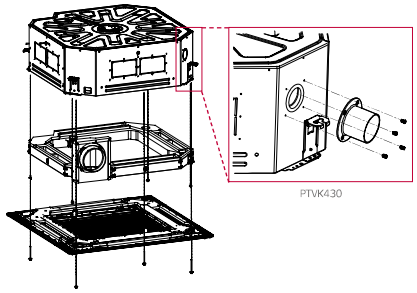
Parts Included

• PTVK410 : 1 Ventilation Kit, 8 Bolts, 1 Insulation
• PTVK420 : 1 Flange, 4 Screws, 1 Insulation
• PTVK420 : 1 Flange, 4 Screws, 1 Insulation

Dimensions



Assembly Diagram



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

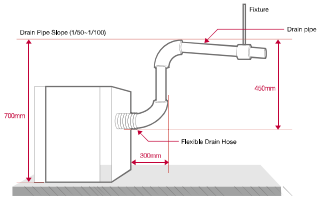
Application

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)



MECHANICAL ACCESSORIES

SUCTION GRILLE / CANVAS

High flexibility for a wide variety of applications





SUCTION GRILLE
PBSGB30 / PBSGB40

CANVAS
PBSC30 / PBSC40

Features

- High external static pressure facilitates unit use with flexible ducts of varying lengths
- When using suction grille, unit requires only 270mm of ceiling space
- Blends unobtrusively with any interior decoration

Models Applied

Ceiling Concealed Duct _ Built-in type

Compatibility

Category	Model Name	Capacity (Btu/h)					
		ARNU07GB3G4	ARNU09GB3G4	ARNU12GB3G4	ARNU15GB3G4	ARNU18GB4G4	ARNU24GB4G4
Grille	PBSGB30	•	•	•	•	-	-
	PBSGB40	-	-	-	-	•	•
Canvas	PBSC30	•	•	•	•	-	-
	PBSC40	-	-	-	-	•	•

Parts Included

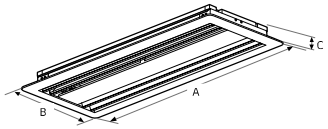
• For the Suction Grille :

- Suction panel with air filter (1EA)
- Suction panel fix bolt M5x18 (4EA)
- Installation manual (1EA)

• For the Suction canvas :

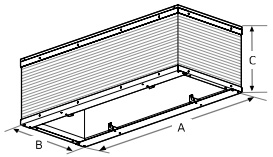
- Air suction canvas (1EA)
- Screws for air suction canvas (4EA)
- Adjusting chain (4EA)
- Screws for adjusting chain (8EA)
- Installation manual (1EA)

Dimensions



(Unit : mm)

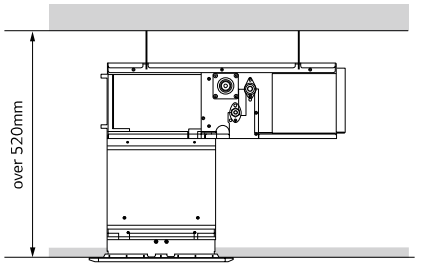
Model Name	A	B	C
PBSGB30	910	359	56
PBSGB40	1,188	359	56

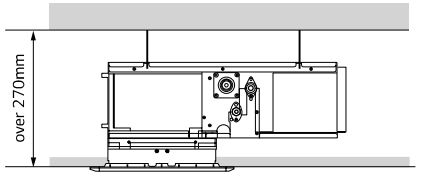


(Unit : mm)

Model Name	A	B	C
PBSC30	821	274	42 ~ 250
PBSC40	1,100	274	42 ~ 250

Application





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

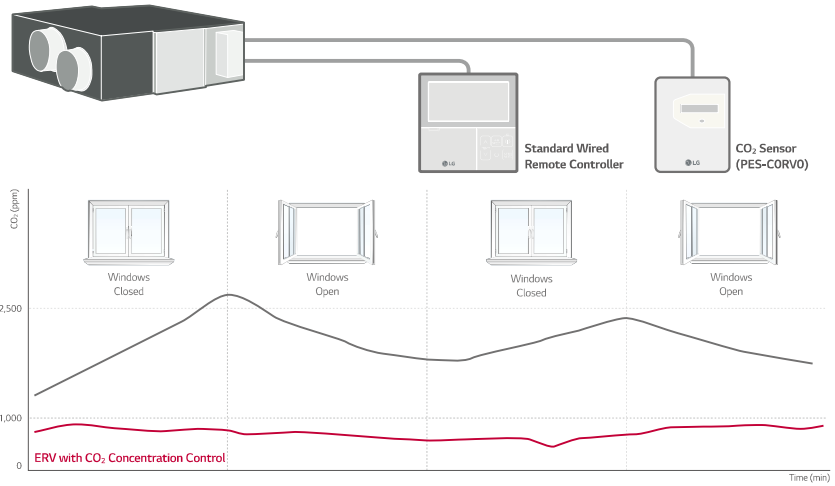
• Description

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

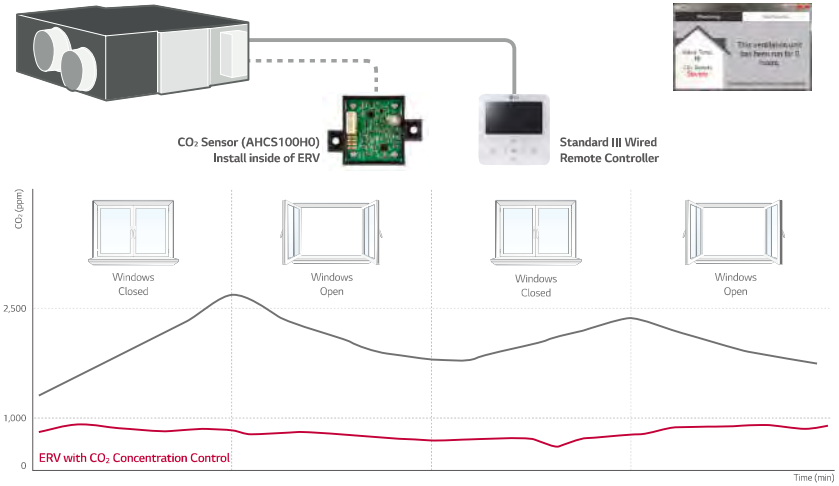
• Description

- 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



MECHANICAL ACCESSORIES

F7 FILTER

F7 filter for ventilation system

AHFT035H0
AHFT050H0
AHFT100H0



Specification

For ERV

Filter Model			AHFT035H0		AHFT050H0	AHFT100H0		AHFT100H0	
Product Model			LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4	LZ-H080GBA4	LZ-H100GBA4	LZ-H150GBA4	LZ-H200GBA4
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

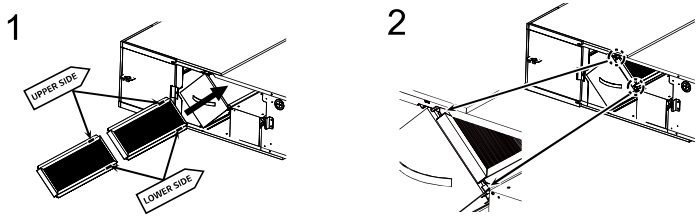
* 2 pieces in 1 filter package

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.

MECHANICAL ACCESSORIES

REFRIGERANT LEAKAGE DETECTOR

R410A refrigerant leakage detector makes our space safer

PRLDNVS0



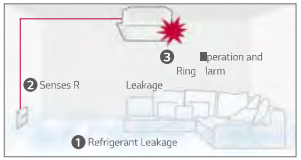
Features

- 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 (℃)	-10 ~ 50
		Preserved Temperature Range (℃)	-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

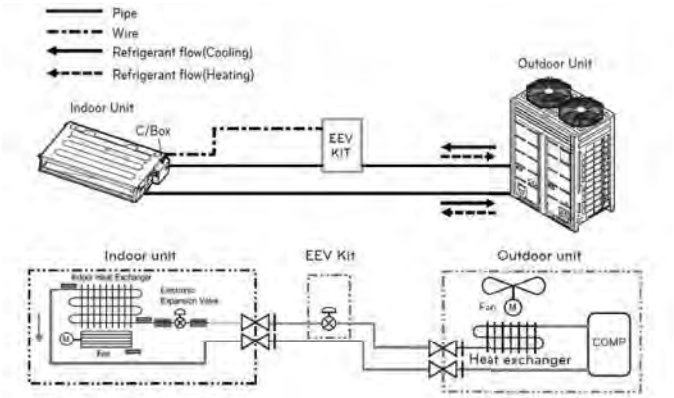
• Decreasing noise level of Multi V Indoor units Easy installation

Models Applied

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

* 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



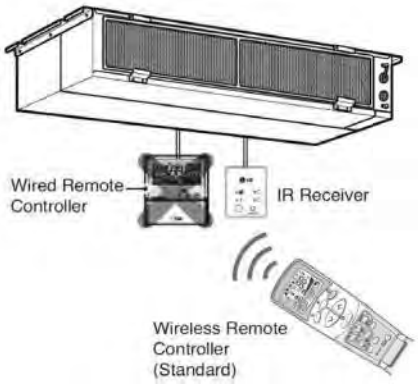
Features

• 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



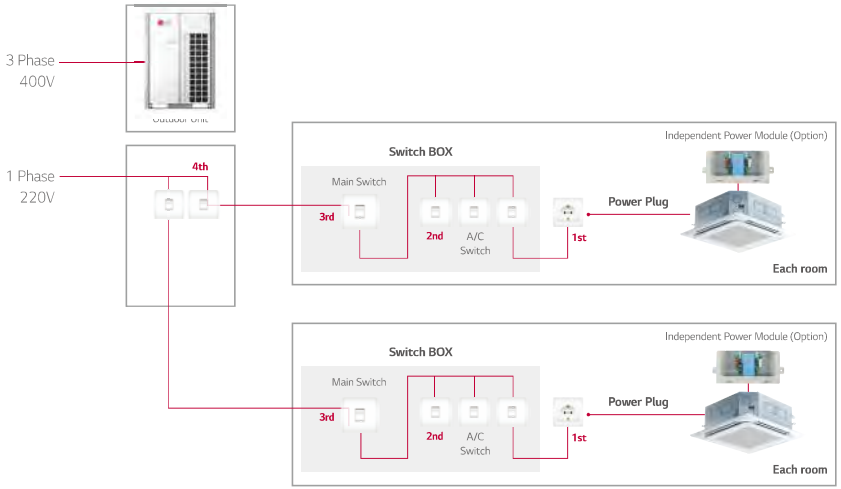
Features

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

AIR GUIDE

Air discharge in difficult to access areas

PRAGX*S0



PRAGX2S0
(8 / 10 / 12HP)



PRAGX3S0
(14 / 16 / 18 / 20HP)

Features

- Converts vertical discharge into horizontal discharge
- Direction of air discharge can be changed by simple installation
- Installation flexibility
- Designed for outdoor discharge air

Models Applied

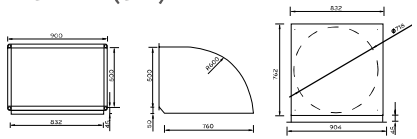
• MULTI V IV

*In case of UX3, must purchase 2 units of PRAGX3S0.

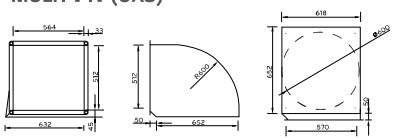
Dimensions

Model Name	Gross Weight	Net Weight
PRAGX2S0	22.5kg	12.3kg
PRAGX3S0	17kg	9.4kg

• MULTI V IV (UX2)



• MULTI V IV (UX3)



Application

• MULTI V IV (UX2)

- ARU*080LTE4
- ARU*100LTE4
- ARU*120LTE4

* N : Heat Pump / B : Heat Recovery



• MULTI V IV (UX3)

- ARU*140LTE4
- ARU*160LTE4
- ARU*180LTE4
- ARU*200LTE4

* N : Heat pump / B : Heat recovery



MECHANICAL ACCESSORIES

DRAIN PAN

Easy drain installation

PRODX20 (MULTI V IV) / PRODX30 (MULTI V IV)
PHDPA (THERMA V)

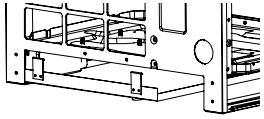




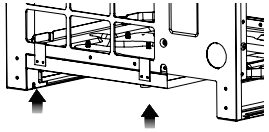
Features

This unit can be applied for outdoor unit's drain.

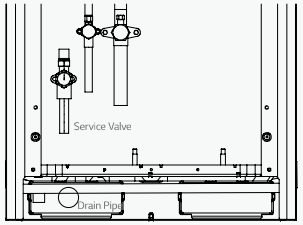
Installation



* Tuck drain pan below base pan



* Push drain pan in the direction of the arrow.
Brackets can be fixed on the side panel.



* In case of the installation of drain pan, drain pipe should be located below the SVC valve.

- This unit does not cover water drops of the outside product.
- Connect drain hose to drain pipe for drain condensate.

Accessory Model Name

Model Name	Width x Length	Remark
PRODX20	920mm x 466mm	MULTI V IV (8 / 10 / 12HP)
PRODX30	1,240mm x 466mm	MULTI V IV (14 / 16 / 18 / 20HP)
PHDPA (AWHP)	478mm x 190mm	

MECHANICAL ACCESSORIES

SOLARS HEATING KIT

Air discharge in difficult to access areas

PHLLA

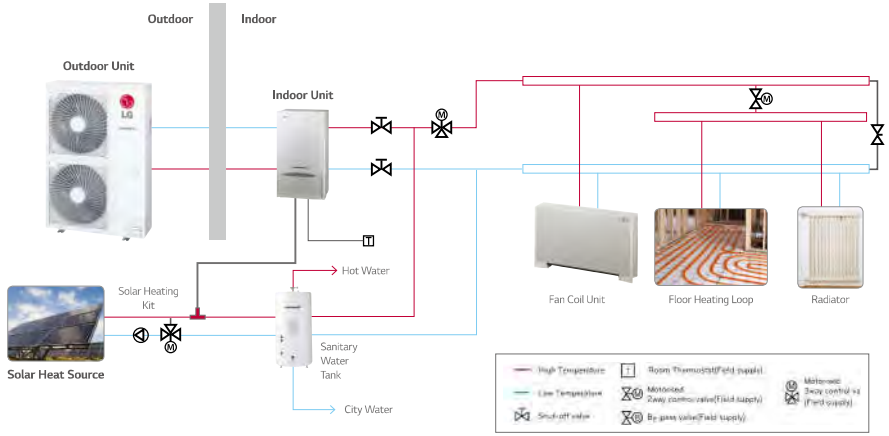


Features

- 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.



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

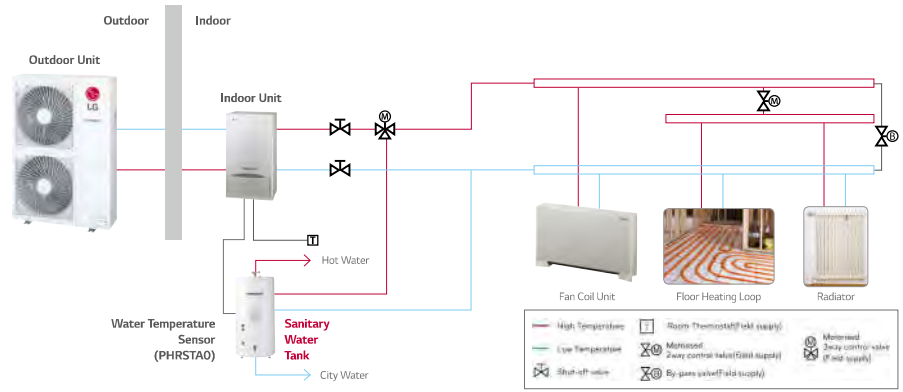
- **PHLTA (1Ø) / PHLTC (3Ø)**
  - To control sanitary tank temperature and sanitary tank electric heater for split models.
  - This unit will be installed inside indoor unit.

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.



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

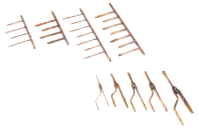
Domestic Hot Water Tank - Single Coil

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 **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
Heat Recovery Unit (MULTI V)	-	-	•	MULTI V Sync II / MULTI V III Heat Recovery / MULTI V IV Heat Recovery
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

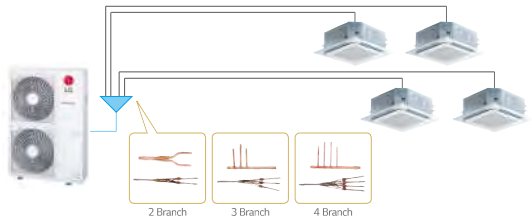
Features

- 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

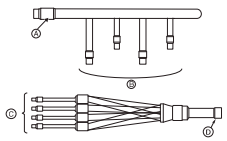
- H-inverter : 10.0 / 12.5 / 13.4kw
- Standard inverter : 12.5 / 14.0 / 15.0 / 20.0 / 25.0kw

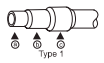
Application



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

BRANCH DISTRIBUTOR DISTRIBUTOR BOX

Effective way of distributing refrigerant

PMBD3620
PMBD3630
PMBD3640



Features

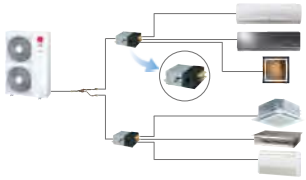
- Distribution of refrigerant to various indoor units
- 3 models (2, 3, 4 indoor units)
- Consists of LEVs inside it
- Controlling PCB inside the unit
- Internally insulated (Prevents any chances of drainage)
- Flare joints for easy and clean installation
- Compact design (Low height)
- Flexible installation

Models Applied

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

Parts Included

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

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

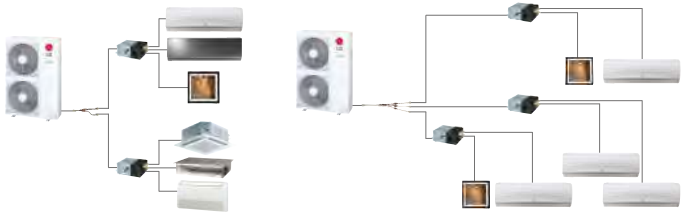
Models Applied

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

Parts Included

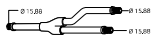
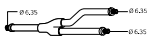
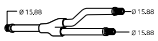
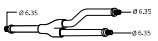
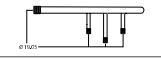
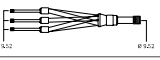
- Y Branch for gas side and liquid side (1Set)
- Installation manual (1EA)

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 III Heat Recovery
- MULTI V WATER IV Heat Recovery

Specifications

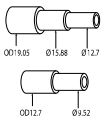
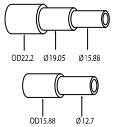
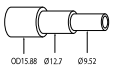
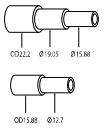
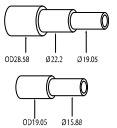
Model name				PRHR022	PRHR032	PRHR042
Number of Branch			EA	2	3	4
Maximum Connectable Capacity of Indoor Units (Per branch / unit)			kW	16 / 32	16 / 48	16 / 58
Maximum Number of Connectable Indoor units per Branch			EA	8	8	8
Nominal Input	Cooling		kW	0.026	0.040	0.040
	Heating		kW	0.026	0.040	0.040
Net. Weight			kg	18	20	22
Dimensions (W x H x D)			mm	801 x 218 x 617	801 x 218 x 617	801 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)	422 x 202 x 300	422 x 202 x 300
	Outdoor Unit	Liquid	mm (inch)	9.52 (3/8)	15.88 (5/8)	15.88 (5/8)
		Low pressure	mm (inch)	22.2 (7/8)	28.58 (11/8)	28.58 (11/8)
		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 / 220~240 / 50	1 / 220~240 / 50

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

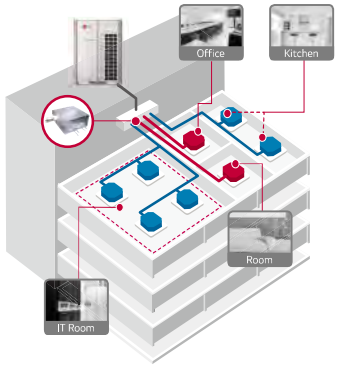
(Unit : mm)

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

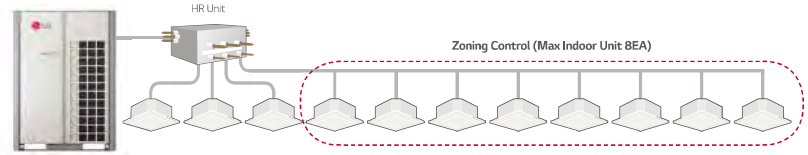
Convenient Free Zoning

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]



PIPING ACCESSORIES

Y BRANCH AND HEADERBRANCH

MULTI V

For refrigerant distribution of indoor units

Y Branch
Header Branch

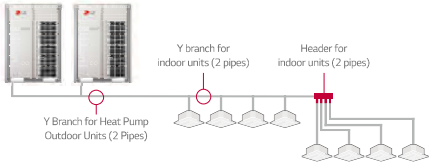


Features

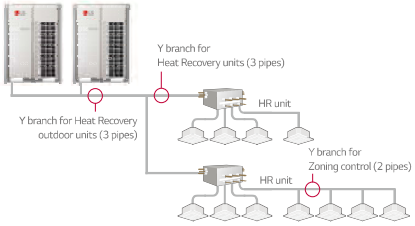
- Various Y Branch pipe of different capacities make MULTI V installation much easier.
- Y Branch and header branch for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Piping Diagram

Heat Pump System



Heat Recovery system



Models Applied

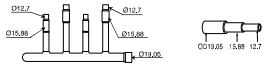
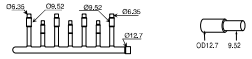
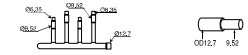
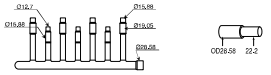
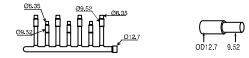
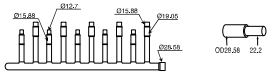
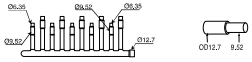
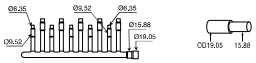
- MULTI V 5
- MULTI V IV
- MULTI V III, MULTI V PLUS II, MULTI V PLUS
- MULTI V S
- MULTI V WATER IV
- MULTI V WATER II
- MULTI V WATER S
- MULTI V SPACE II
- MULTI V MINI

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		

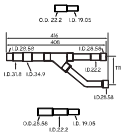
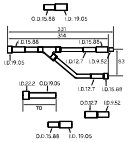
PIPING ACCESSORIES

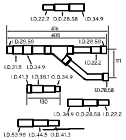
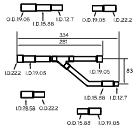
Y Branch pipe for connection of outdoor units

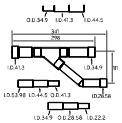
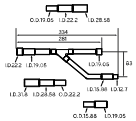
Heat Pump

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		

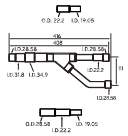
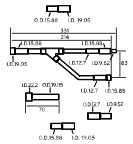
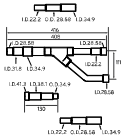
3 Outdoor Units		
Model Name	High Pressure Gas Pipe	Liquid Pipe
ARCNN31		

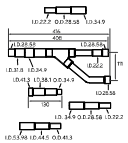
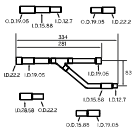
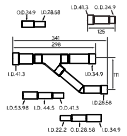
4 Outdoor Units		
Model Name	High Pressure Gas Pipe	Liquid Pipe
ARCNN41		

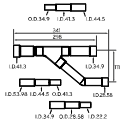
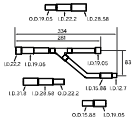
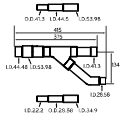
Heat Recovery

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			

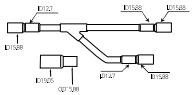
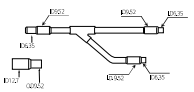
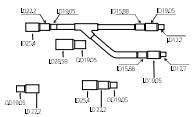
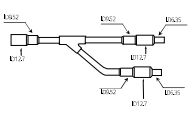
PIPING ACCESSORIES

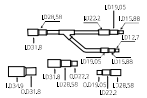
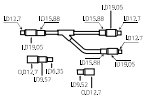
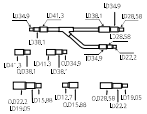
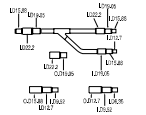
Y Branch pipe for connection of outdoor units

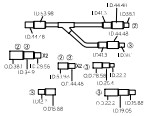
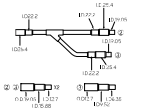
Heat Pump, Heat Recovery zone control

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		

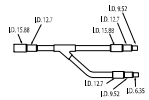
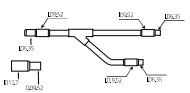
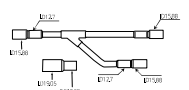
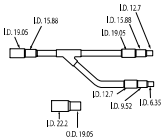
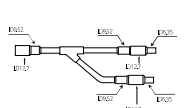
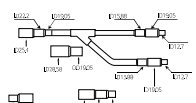
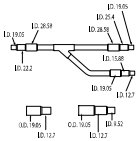
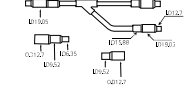
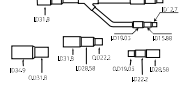
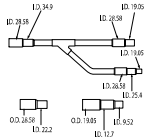
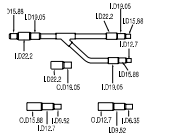
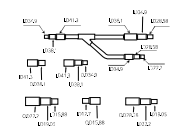
Model Name	Gas Pipe	Liquid Pipe
ARBLN07121		
ARBLN14521		

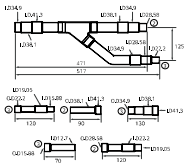
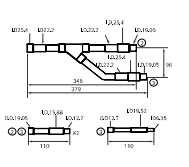
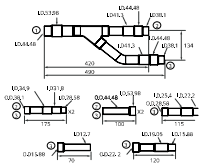
Model Name	Gas Pipe	Liquid Pipe
ARBLN23220		

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			
ARBLB07121			
ARBLB14521			

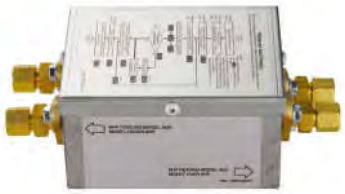
Model Name	High Pressure Gas Pipe	Liquid Pipe	Low Pressure Gas Pipe
ARBLB14521			

PIPING ACCESSORIES

REFRIGERANT CHARGING KIT

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

PRAC1

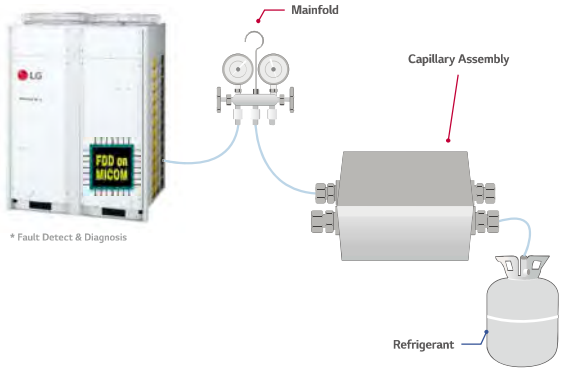


Features

- 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



PIPING ACCESSORIES

STOPPER VALVES

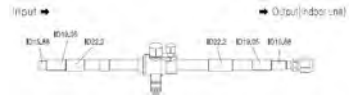
UNDER 1 / 2 (INCH)
PRVT120

UNDER 7 / 8 (INCH)
PRVT780

UNDER 9 / 8 (INCH)
PRVT980



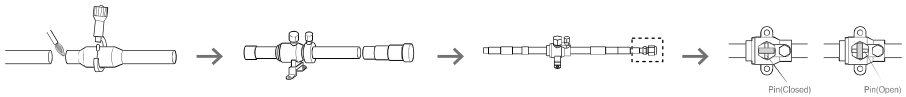
Features

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 anadditional indoor unit, the SVC valve should be in closed state.

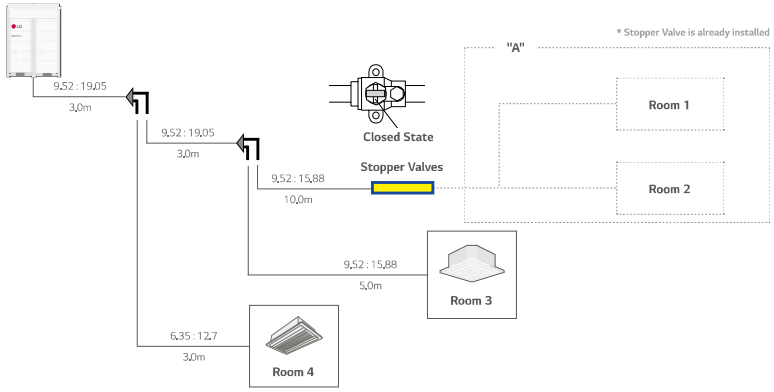
* When welding, service valve shoud be wrapped by wet cloth.

STOPPER VALVES

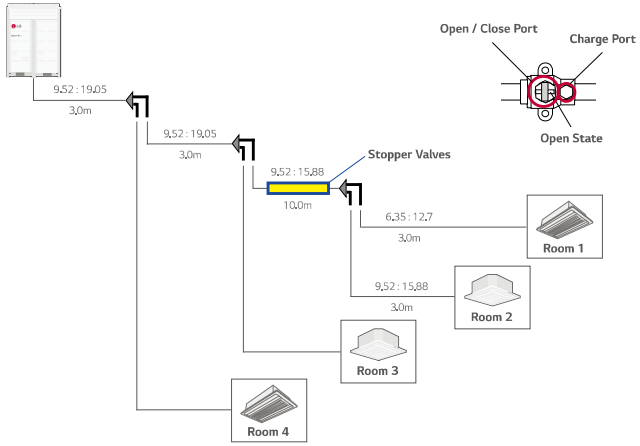
Details of Model Name

• **Case1**

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

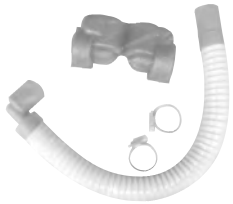


• In case of installation of additional indoor unit, refrigerant of used indoor unit must be discharged. (Room 3 & Room 4)
• If stopper valve is already installed, you can install additional indoor unit without refrigerant loss from the entire system.
• After installation of additional indoor unit, you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



DRAIN HOSE

Easy drain installation



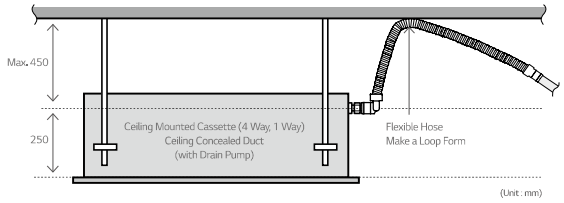
PHDHA05T
PHDHA07T
PHDHA05B
PHDHA07B

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

COMPATIBILITY TABLE

• : Compatible ▲ : Need wired remote controller / IR receiver X : Not compatible

Product \ Controller		Premium	Standard III		Standard II		Simple		Simple for Hotel		Wireless	Dry Contact				Wi-Fi
		PREMTA000 PREMTA000A PREMTA000B	PREMTB810	PREMTB100	PREMTB801	PREMTB001	PQRCVCL00	PQRCVC00W	PQRCHCA0Q	PQRCHCA0ZW	PQWRHQ0F3B	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG4R-WF-1
MULTI V	Ceiling Mounted Cassette 4 Way ARNU-C4	•	•		•		•		•		•	•	•	•	•	•
	Ceiling Mounted Cassette 2 Way / 1 Way ARNU-C4	•	•		•		•		•		•	•	•	•	•	•
	Ceiling Concealed Duct High Statics ARNU-A4	•	•		•		•		•		▲	•	•	•	•	•
	Ceiling Concealed Duct MID / HIGH STATICS ARNU-A4	•	•		•		•		•		▲	•	•	•	•	•
	Ceiling Concealed Duct Low Statics ARNU-G4	•	•		•		•		•		▲	•	•	•	•	•
	Ceiling Concealed Duct Built-in ARNU-G4	•	•		•		•		•		▲	•	•	•	•	•
	FAU (Fresh Air intake Unit) ARNU-Z4	•	•		•		•		•		▲	•	•	•	•	•
	Convertible & Ceiling Suspended Unit ARNU-A4	•	•		•		•		•		•	•	•	•	•	•
	Console ARNU-A4	•	•		•		•		•		•	•	•	•	•	•
	Floor Standing Unit ARNU-A4 / ARNU-U4	•	•		•		•		•		•	•	•	•	•	•
	Wall Mounted Unit ARNU-A4	•	•		•		•		•		•	•	•	•	•	•
	Wall Mounted Unit ARNU-*4 1)	•	•		•		•		•		•	•	•	•	•	•
	Wall Mounted Unit ARNU-L4 / ARNU-A4	•	•		•		•		•		•	•	•	•	•	•
	HYDRO KIT 2)	×	×		×		×		×		×	•	×	×	×	×
	Ventilation Energy Recovery Ventilator	•	×		×		×		×		×	•	×	×	×	×
	Ventilation Energy Recovery Ventilator with DX coil	•	×		×		×		×		×	•	•	•	•	×
	AHU Communication Kit	•	•		•		•		•		▲	•	•	•	•	×

1) Artcool Mirror : Mirror (R) / Silver (V) / White (W)
2) It has a separate remote controller

• : Compatible ▲ : Need wired remote controller / IR receiver X : Not compatible

Model \ Product		Controller: Premium	Standard III		Standard II		Simple		Simple for Hotel		Wireless	Dry Contact				Wi-Fi
		PREMTA000 PREMTA000A PREMTA000B	PREMTB810	PREMTB100	PREMTB801	PREMTB001	PQRCVCL00	PQRCVC00W	PQRCHCA0Q	PQRCHCA0ZW	PQWRHQ0F3B	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500	LG4R-WF-1
SINGLE SPLIT	H-Inverter Ceiling Mounted Cassette	•	•		•		•		•		•	•	•	•	•	•
	H-Inverter Ceiling Concealed Duct	•	•		•		•		•		•	•	•	•	•	•
	H-Inverter Ceiling Suspended Unit	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Ceiling Mounted Cassette	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Ceiling Concealed Duct High	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Ceiling Concealed Duct Mid	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Ceiling Concealed Duct Low	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Ceiling Suspended Unit	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Console	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Wall Mounted Unit	•	•		•		•		•		•	•	•	•	•	•
	Standard Inverter Floor Standing Unit	•	•		•		•		•		×	•	•	•	•	•
MULTI SPLIT	Ceiling Mounted Cassette 4 Way	•	•		•		•		•		•	•	•	•	•	•
	Ceiling Mounted Cassette 1 Way	•	•		•		•		•		•	•	•	•	•	•
	Ceiling Concealed Duct Mid	•	•		•		•		•		▲	•	•	•	•	•
	Ceiling Concealed Duct Low	•	•		•		•		•		▲	•	•	•	•	•
	Convertible & Ceiling Suspended Unit	•	•		•		•		•		•	•	•	•	•	•
	Console	•	•		•		•		•		•	•	•	•	•	•
	Wall Mounted Unit	•	•		•		•		•		•	•	•	•	•	•
	Wall Mounted Unit	•	•		•		•		•		•	•	•	•	•	•
THERMA V	Split Mid Temp.	×	×		×		×		×		×	•	×	×	×	×
	Split High Temp.	×	×		×		×		×		×	•	×	×	×	×
	Monobloc	×	×		×		×		×		×	•	×	×	×	×

MEMO

MEMO