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MULTI V™

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LG HVAC SOLUTION

MULTI V™

For Middle East & Africa

DIVERSE INTEGRATED SOLUTION

Energy Management Solution

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

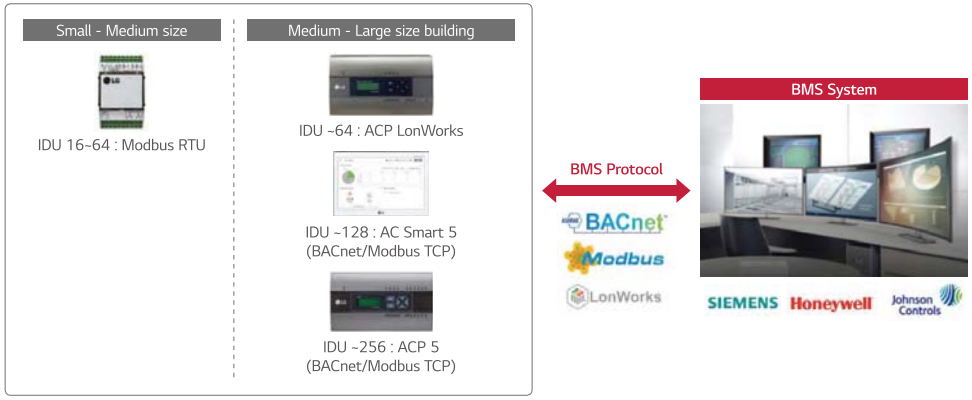
Compressor Capacity Control

IDU operation Ratio Control

IDU operation level

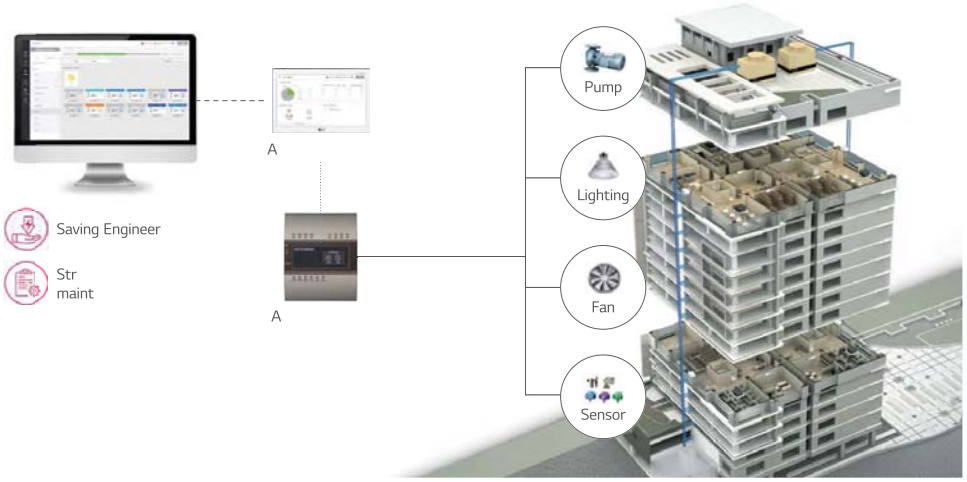
Integration Solution with BMS

There are many BMS protocols used for the control of building systems such as HVAC, lighting, power and security. LG has a wide range of gateway products for different protocols such as BACnet, Modbus, and LonWorks. With LG gateways HVAC control is still possible even if there is a problem with the BMS control because LG gateways include standalone central control capability.



Interlocking Solution by Using ACS IO Module

It is costly to introduce a BMS system to control multiple devices or systems in a small building. With the ACS IO module, various IO contact points (DI, DO, UI, AO) can be interlocked and integrated control is possible from the LG central controller. This enables an efficient management of lighting, pumps, sensors and other devices in the building in conjunction with the HVAC system.



Interlocking Solution by Using Dry Contact

The central room controller can control LG air conditioner through the LG Modbus RTU gate way. It is more convenient to apply than solutions from other companies because it can be installed using RS485. 3rd party thermostats can be used to control LG air conditioners in a room by using a multi point dry contact. The dry contact enables basic control of the air conditioner as well as making it possible to report the status and any errors impacting the indoor unit. The Standard III remote control has a DO port. With this DO port, it is possible to interlock the indoor unit with 3rd party devices such as lighting, a fan, or a radiator, based on things like operation mode or current temperature. The indoor unit can be interlocked with various types of input such as card key-tag, door sensor, human detection sensor etc. so that the air conditioner is automatically operated depending on situation. In addition, the dry contact option settings enable operation of air conditioner to maintain proper temperature when the occupant is absent. This solution makes sure that the room does not overheat or become too cold when unoccupied so that energy cost can be saved.

INDOOR UNITS LINE-UP

Type	kW	1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
	Btu/h	5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
4th generation Wall Mounted Unit	Artcool Gallery		●	●	●												
	Artcool Mirror	●	●	●	●	●	●		●								
	Standard	●	●	●	●	●	●		●		●	●					
4th generation Ceiling Mounted Cassette	Round Cassette																
	4 Way Cassette (570 x 570)	●	●	●	●	●	●	●									
	4 Way Cassette (840 x 840)								●	●	●	●	●	●	●		
	4 Way Cassette High Sensible (840 x 840)		●	●	●	●	●		●	●		●	●				
	2 Way Cassette			●	●		●		●								
	1 Way Cassette		●	●	●		●		●								
4th generation Ceiling Concealed Duct	Mid / High Statics		●	●	●	●	●		●	●		●	●	●	●	●	●
	Low Statics	●	●	●	●	●	●	●	●								
	High Sensible		●	●	●	●	●		●	●		●	●	●			
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		●	●	●	●	●		●								
4th generation HYDRO KIT	Low Temperature												●				●
	High Temperature												●			●	
4th generation Energy Recovery Ventilator with DX Coil	with Humidifier					●			●		●						
	without Humidifier					●			●		●						

1) If 4th generation indoor units are connected to MULTI V WATER S, several funtions are not available.
2) If 4th generation indoor units are combined to 2nd generation indoor units, several funtions are not available.
More detailed information, refer to the "MULTI V Indoor units Compatibility Table"

INDOOR UNITS FEATURE OVERVIEW

Type	Energy Monitoring	2 Set Point	Occupied / Unoccupied Scheduling Function	Group Control	Test Run (Cooling)	Test Run (Heating)	Model Information Monitoring	Auto Addressing	Refrigerant Leakage Detection	Thermo On / Off Range Setting (Cooling)	Thermo On / Off Range Setting (Heating)	Static Pressure 11 Step Control (Only for Ceiling Concealed Duct Type)	1 Point External Input (On / Off Control)	Filter Sign (Remaining Time)	Auto Rerstart Function Disable / Enable	Wi-Fi Ready
Artcool Gallery	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
Artcool Mirror	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
Standard	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
Round Cassette																
4 Way Cassette (570 x 570)	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
4 Way Cassette (840 x 840)	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
4 Way Cassette High Sensible (840 x 840)	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
2 Way Cassette	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
1 Way Cassette	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
Mid / High Statics	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low Statics	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
High Sensible	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Fresh Air Intake Units	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling & Floor Convertible Unit	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Suspended Unit	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Console	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor Standing Unit with Case	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor Standing Unit without Case	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HYDRO KIT Low Temperature	●			●	●	●	●	●	●	●	●		●		●	●
HYDRO KIT High Temperature	●			●	●	●	●	●	●		●		●		●	●
Energy Recovery Ventilator with Humidifier					●	●		●	●				●	●	●	
Energy Recovery Ventilator without Humidifier					●	●		●	●				●	●	●	

LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL

Wired Remote Controller

Standard

Standard III (White)

PREMTB100

Standard III (Black)

PREMTBB10

Standard II (White)

PREMTB001

Standard II (Black)

PREMTBB01

Premium

PREMTA000
PREMTA000A
PREMTA000B

Simple

PQRCVCL0QW

PQRCVCL0Q

PQRCHCA0QW
(Simple for Hotel)

PQRCHCA0Q
(Simple for Hotel)

Wireless Remote Controller

PQWRHQ0FDB

Wi-Fi Controller

LG Wi-Fi Modem

For Indoor Unit
PWFMDD200

CENTRALIZED CONTROL

Display

AC Ez

PQCSZ250S0
(Indoor Unit ~32)

AC Ez Touch

PACEZA000
(Indoor Unit ~64)

AC Smart 5

PACS5A000
(Indoor Unit ~128)

Platform

ACP 5

PACP5A000
(Indoor Unit ~256)

AC Manager 5

PACM5A000
(Indoor Unit ~8,192)

Gateway

ACP Lonworks

PLNWKB000
(Indoor Unit ~64)

Modbus RTU Gateway

PMBUSB00A

KNX Gateway

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

PI-485

For Indoor Unit (ERV)
PHNFP14A0

CENTRALIZED CONTROL

Facility Integrator

PDI
(Power Distribution Indicator)

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

ACS IO Module
(Input / Output Module)

PEXPMB000

Chiller Option Kit

PCHILLN000

ACU IO Module

NEW UIO

PEXPM300

NEW UO

PEXPM200

NEW UI

PEXPM100

INTEGRATION DEVICE

Indoor Unit

Dry Contact

Simple Dry Contact
PDRYCB000

Dry Contact for Thermostat
PDRYCB300

2 Points Dry Contact
(For Setback)
PDRYCB400

For Modbus
PDRYCB500

Control Accessory

Group Control Wire

PZCWRCG3

Remote Temperature Sensor

PQRSTA0

Low Profile Remote
Temperature Button Sensor

ZRTBS01

Zone Controller

4 Zones by
thermostat ABZCA

Outdoor Unit

IO Module
(Input / Output Module)

For MULTI V 5
PVDSMN000

Variable Water Flow
Control kit

For MULTI V WATER IV
PWFCKN000

Low Ambient Kit

For MULTI V IV, 5
PRVC2

Cool / Heat Selector

PRDSBM

AHU Kit

Communication Kit

Return/Room Air control
PAHCMR000

Discharge Air control
PAHCMS000

Control kit

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

EEV Kit
(Electronic Expansion Valve)

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

TXV Kit
(Thermal Expansion Valve)

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

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

OUTDOOR UNITS

MULTI V 5 / MULTI V S / MULTI V M
MULTI V WATER IV (HEAT PUMP / HEAT RECOVERY) /
MULTI V WATER S

OCEAN BLACK FIN HEAT EXCHANGER

Strong durability regardless of external environment

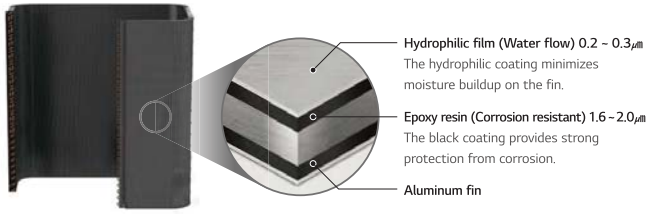
What benefits do you offer?

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

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

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

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



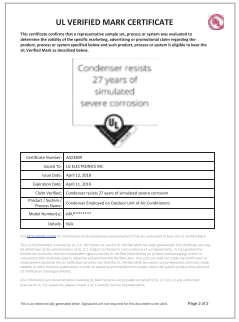
Condition of salt spray test

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

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

Corrosion Resistance Proven by Certified Tests

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

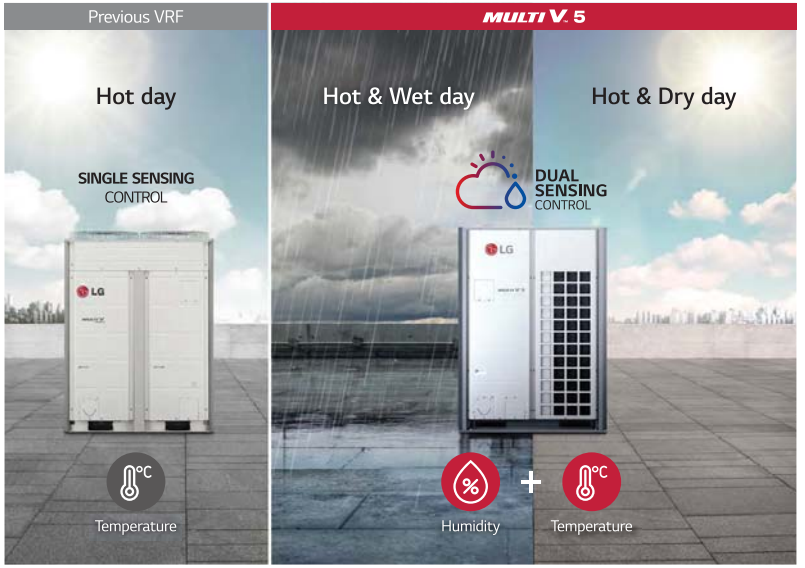

UL VERIFIED MARK CERTIFICATE

Condenser resists 27 years of simulated severe corrosion

*Certificates can be updated.

DUAL SENSING CONTROL

Energy savings and optimized cooling through temperature and humidity control



What benefits do you offer?

- Energy Reduction
- Pleasant Indoor Environment
- Convenient Monitoring with PREMTB100 / PREMTB10

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

Smart Load Control (SLC)

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

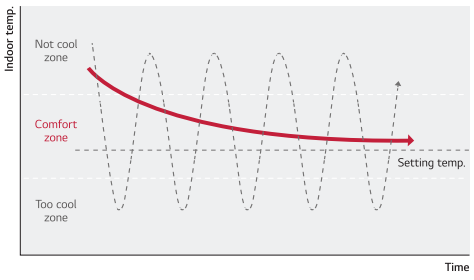
ESEER Up to 21%
(vs. standard mode at 26HP)

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

For low temperature, lower load and capacity are required → Lower load and capacity need higher evaporation temperature → Higher evaporation temperature results in higher efficiency

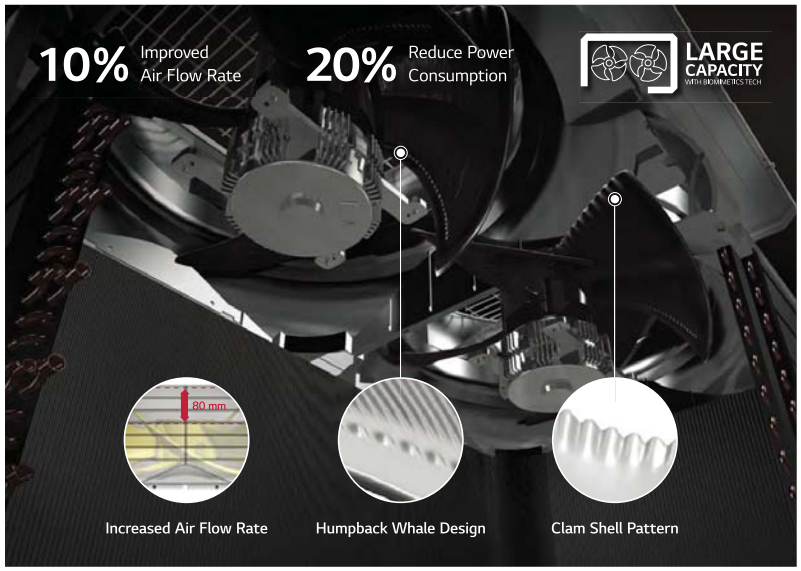
Comfort Cooling

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.



BIOMIMETICS TECHNOLOGY FAN

Maximum capacity and efficiency

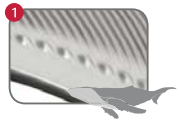


What benefits do you offer?

- Large Capacity
- Low Noise
- Energy Saving

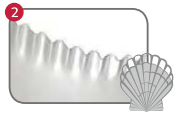
Enhanced core parts like biomimetics technology-based fans, 4-sided heat exchanger as opposed to 3-sided heat exchanger of previous model and compressor with increased efficiency and capacity allow large capacity for outdoor units. A single unit of MULTI V 5 can provide up to 26HP

Larger Capacity ODU with Biomimetics Technology Fan



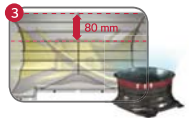
Humpback Whale Design

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



Clam Shell Pattern

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



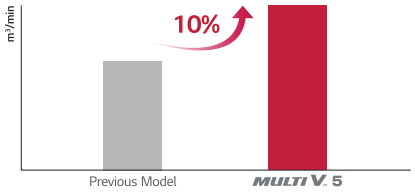
Increased Air Flow Rate

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

Enhanced Performance with Newly Developed Fan

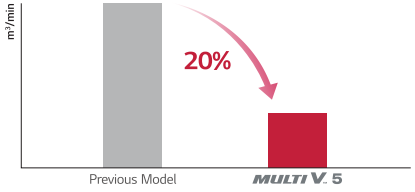
Based on the biomimetics technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20%. This eventually results in maximized performance with large capacity.

Air flow rate



* Comparison based on 20HP model

Power consumption



* Comparison based on air volume of 290m³/min

ULTIMATE INVERTER COMPRESSOR

The best durability and efficiency

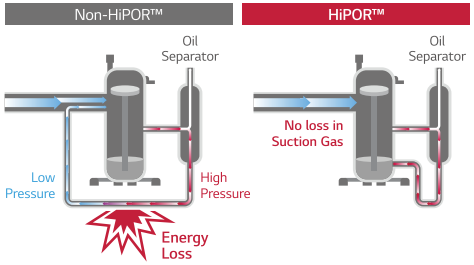
What benefits do you offer?

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

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

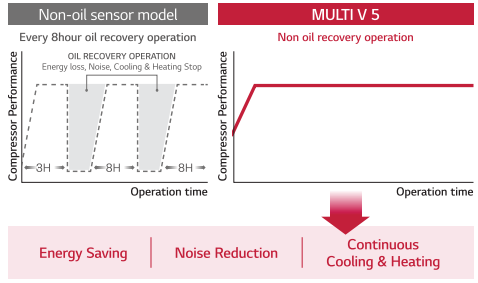
HiPOR™ (High Pressure Oil Return)

Resolve compressor efficiency loss caused by oil return.



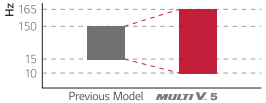
Smart Oil Management

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



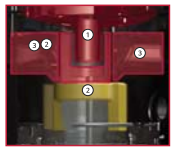
Wide Operation Range from 10 to 165Hz

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



Enhanced Bearing with PEEK Material

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



① Material : PEEK (Polyetheretherketone)
Strong material used in airplanes

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

Vapor Injection

Maximize heating capacity via two-stage compression

CONTINUOUS HEATING

Efficient even in low-temperature, high-humidity environments

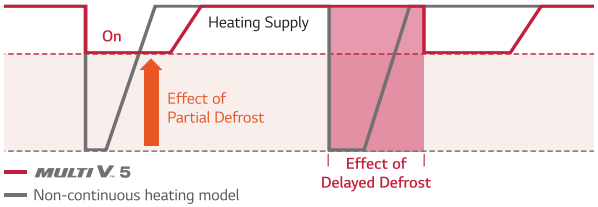
What benefits do you offer?

- Operational Efficiency
- Energy Reduction
- Effective in Various Environments

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

Partial Defrost

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



Heating Operation Time Per Day **Up to 11%**

Power Input **Down to 7%**

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

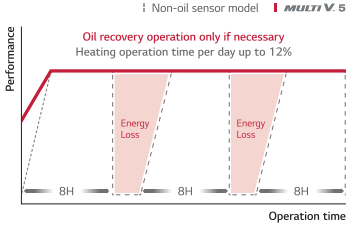
Delayed Defrost via Humidity Sensor of Dual Sensing Control

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

DUAL SENSING CONTROL

Smart Oil Management

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



AUTO DUST REMOVAL

Enhanced stability from environmental constraints

TROPICAL REGION

What benefits do you offer?

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

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

Technology mechanism

Fan rotates reversely to run sand dust free operation

Normal operation | Auto Dust Removal

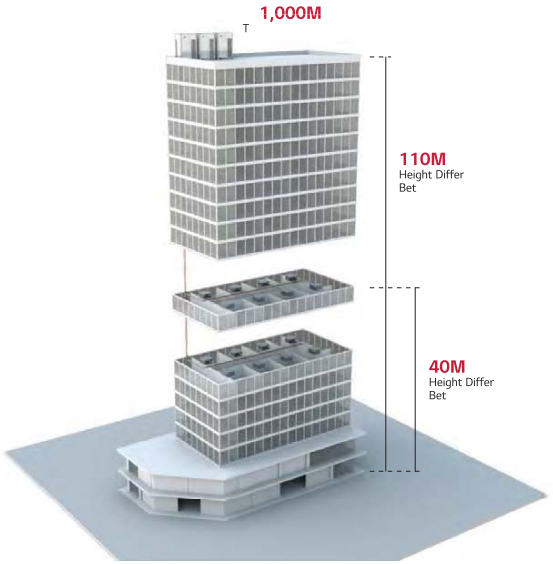
Auto Dust Removal

Performance comparison

Normal operation | Auto Dust Removal

MULTI V 5

Piping Length



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

Active Refrigerant Control

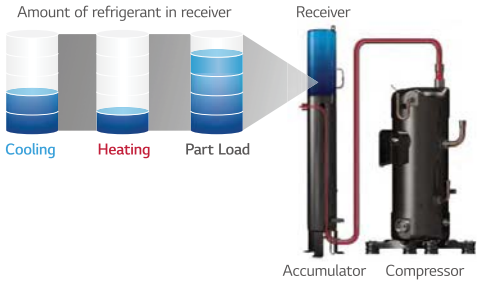
Stable operation & Sustaining most efficient operation

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

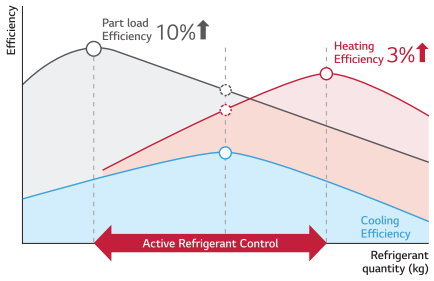
What are the benefits?

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

Technology mechanism



Efficiency performance



Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

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

What are the benefits?

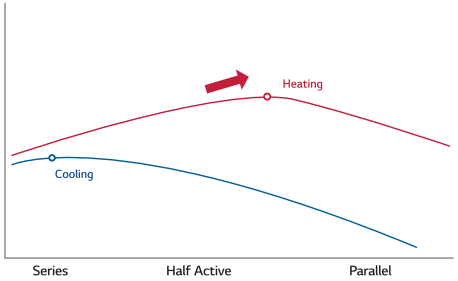
Optimizes system efficiency irrelevant of operating modes as ambient weather conditions change.
Customizes the area of outdoor units heat transfer surface in use dynamically.

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

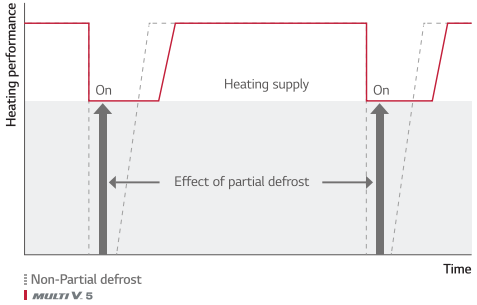
Full load cooling
- Upper & lower active
- Series circuited
- High velocity refrigerant flow

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

Efficiency



Continuous Heating



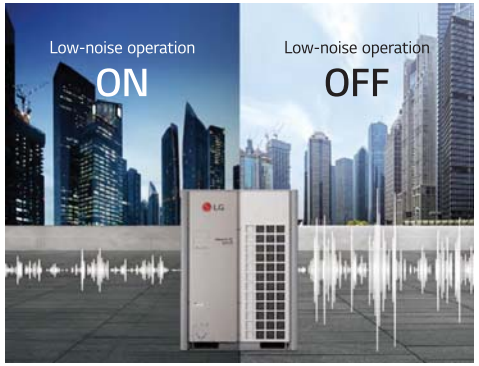
MULTI V 5

Low-Noise Operation

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

Automatic

Noise automatically adjusted



Manual

Choose preferred settings with remote based on noise conditions

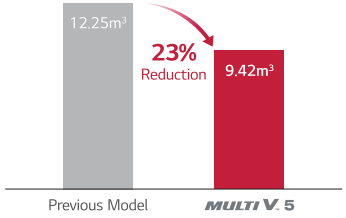
* Indoor unit set up available with Standard III Remote Controller

Flexible Installation Space with Large Capacity Outdoor Units

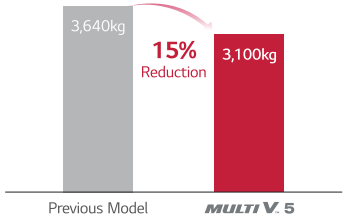
Large capacity outdoor units of MULTI V 5 minimizes installation space that spares valuable floor space and significantly decreases total installed weights. This allows users the flexible design potential and better use of the saved space.

Comparison on installation space

Installation space area comparison



Product weight comparison



Dual Sensing SLC (Smart Load Control)

Enhanced energy saving & Increased indoor comport

Even with same temperature, cooling load varies according to humidity. Because cooling load consists of two parts, temperature and humidity. In low humidity conditions, we will have less cooling load than in high humidity conditions. So, less work is needed to remove it. It influences the VRF system main processor's decision on where to set the system's target high or low system pressure values.

Smart Load Control monitors two inputs

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

Cooling Indoor Units - adjusts target low pressure

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

Heating Indoor Units - adjusts target high pressure

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

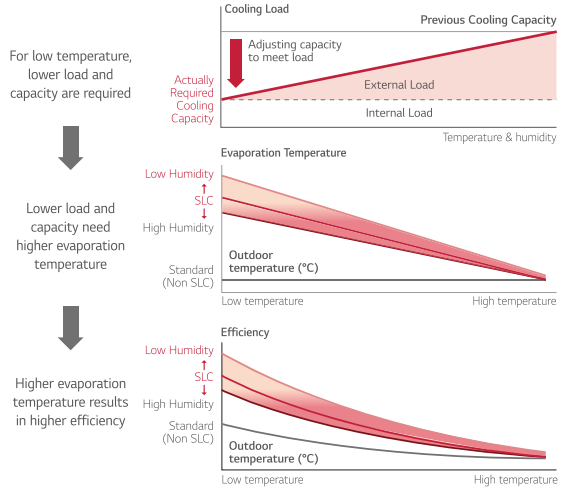
What are the benefits?

Enhanced energy savings

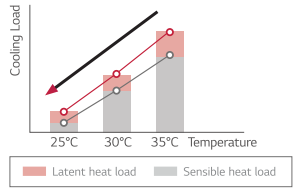
- Cooling Mode : Raises the system target low pressure during off-peak operation. Raising the operating low pressure reduces compressor lift, slows compressor speed, and reduces compressor power consumption.
- Heating Mode : Lowers the system target high pressure during off-peak heating operation. Lowering the operating high pressure target reduces compressor lift, slows compressor speed, and reduces compressor power consumption.

Increased indoor comfort

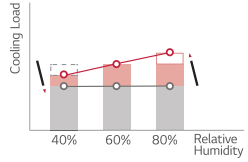
Smart Load Control uses one (or two) sensors to measure changing outdoor weather conditions and prepares the VRF system for operation under the revised weather conditions before the changed conditions have a chance to impact indoor comfort.



Cooling load according to temperature change



Cooling load according to humidity change



* constant indoor temp. condition

MULTI V 5

Comfort Cooling

Increased indoor comport & Enhanced operating efficiency

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

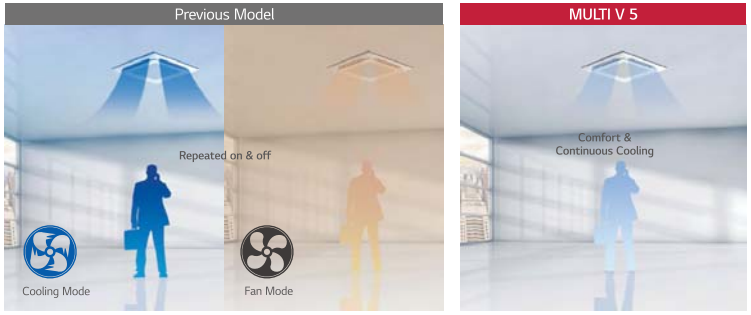
What are the benefits?

Increased indoor comfort

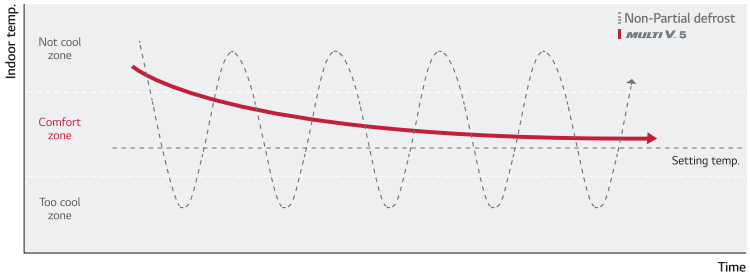
If comfort cooling is turned off, and the temperature of the leaving air is not raised, when the fan speed is reduced to low speed, there is a potential that occupants located directly under a cassette IDU or supply air registers could feel cold air falling on them resulting in a lower overall comfort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

Enhanced operating efficiency

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



* Indoor unit set up available with Standard III Remote Controller



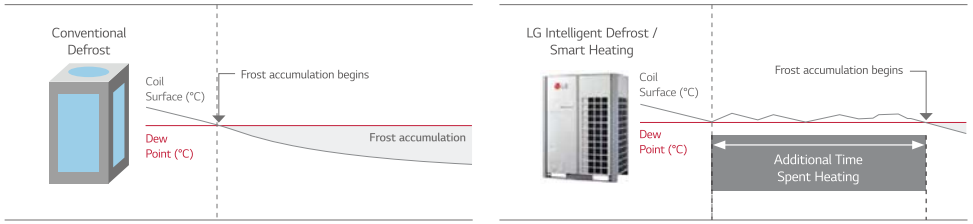
Intelligent Defrost - Smart Heating

Increased heating run-hours

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

What are the benefits?

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



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

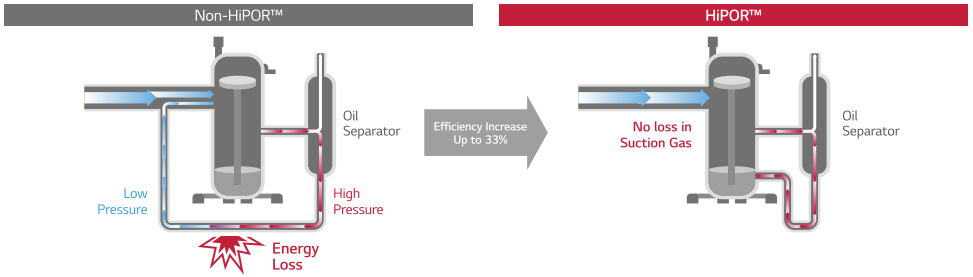
HiPOR™

Maximized reliability & efficiency of compressor

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

What are the benefits?

Maximizes reliability and efficiency of the compressor



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

MULTI V 5

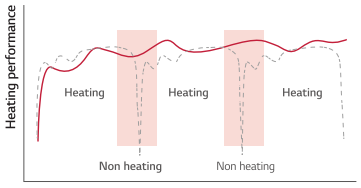
Smart Oil Management

Energy saving, Enhanced heating & increased compressor reliability

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

What are the benefits?

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

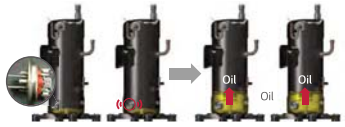


Timed oil return logic (Non_oil Sensor)
MULTI V 5

Increased heating operation time per day : Up to 12%

- LG Internal Test result,
- Test condition
- without oil level sensor : every 8hour oil recovery operation
- with oil level sensor : non oil recovery operation

Smart Oil Return



Oil Level Sensor

Auto Oil Balancing

Oil Level Sensor

Sub-cooling & Vapor Injection

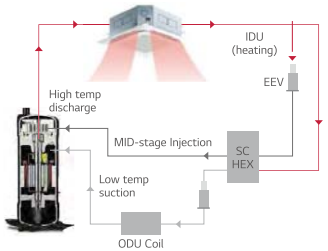
Increased heating performance

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

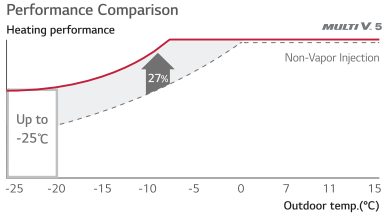
What are the benefits?

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

Technology Mechanism



Performance Comparison



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

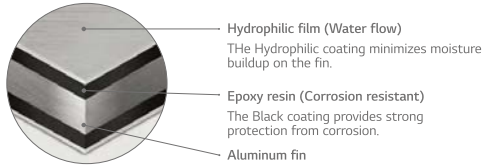
Ocean Black Fin

Improved durability

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

What are the benefits?

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



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

Condition of salt spray test

Temperature	35℃
Mist of 5% NaCl (mass fraction) solution	

Condition of gas exposure test

Temp.	Relative Humidity	Gas Volume Fraction	
		NO_2	SO_2
25℃	95%	10 x 10^{-6}	5 x 10^{-6}

Biomimetic Fan

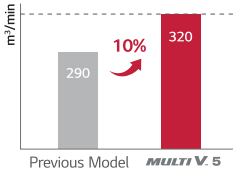
Maximized performance

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

What are the benefits?

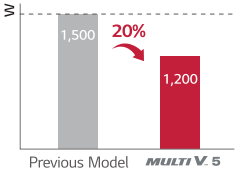
Based on the biomimetic technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20% when compared with the fan blade design on Multi V IV. This eventually results in maximized performance with large capacity.

Air flow rate



* Comparison based on 20HP model

Power consumption



* Comparison based on air volume of 290m³/min

MULTI V 5

STANDARD

ARUN080LTH5 / ARUN100LTH5 / ARUN120LTH5 / ARUN140LTH5

TROPICAL REGION

HP			8	10	12	14
Model Name	Combination Unit		ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
	Independent Unit		ARUN080LTH5	ARUN100LTH5	ARUN120LTH5	ARUN140LTH5
			1	1	1	1
Capacity	*Cooling (Rated)	RT	6.4	8.0	9.5	11.1
		kW	22.4	28.0	33.6	39.2
		Btu/h	76,400	95,500	114,600	133,800
	**Cooling (Rated)	RT	5.6	7.1	8.9	10.5
		kW	19.8	25.0	31.2	36.8
		Btu/h	67,600	85,300	106,500	125,600
	Heating (Rated)	RT	7.2	8.6	10.7	12.5
		kW	25.2	30.3	37.8	43.9
		Btu/h	86,000	103,400	129,000	149,900
Input	*Cooling (Rated)	kW	5.00	7.00	8.00	9.30
	**Cooling (Rated)	kW	6.37	8.33	9.54	11.20
	Heating (Rated)	kW	5.80	7.30	8.06	9.69
COP	*Cooling (Rated)	kW	4.48	4.00	4.20	4.22
	**Cooling (Rated)	kW	3.11	3.00	3.27	3.29
	Heating (Rated)	kW	4.34	4.15	4.69	4.53
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600	3,600	3,600
	Motor Output × Number	W × No.	5,300 × 1	5,300 × 1	5,300 × 1	5,300 × 1
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	1,200 × 1	1,200 × 1	1,200 × 1	900 × 2
	Air Flow Rate(High)	m^3/min	240 × 1	240 × 1	240 × 1	320 × 1
		ft^3/min	8,476 × 1	8,476 × 1	8,476 × 1	11,301 × 1
	External Static Pressure (Max, Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Gas Pipe	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)	28.58(1-1/8)
Dimensions (W × H × D)		mm	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(930 × 1,690 × 760) × 1	(1,240 × 1,690 × 760)×1
		inch	(36-5/8 × 66-17/32 × 29-29/32) × 1	(36-5/8 × 66-17/32 × 29-29/32) × 1	(36-5/8 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 1
Net Weight		kg	173 × 1	171 × 1	200 × 1	221 × 1
		lbs	381 × 1	377 × 1	441 × 1	487 × 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.5	59.0	60.0
	Heating	dB(A)	60.0	60.5	60.0	61.0
Sound Power Level	Cooling	dB(A)	78.0	79.0	79.0	82.0
	Heating	dB(A)	80.0	80.0	80.0	84.0
Communication Cable		No.×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	4.7	4.7	10.0	13.0
		lbs	10.4	10.4	22.0	28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			13	16	20	23

STANDARD

ARUN160LTH5 / ARUN180LTH5 / ARUN200LTH5 / ARUN220LTH5

TROPICAL REGION

HP			16	18	20	22
Model Name	Combination Unit		ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
	Independent Unit		ARUN160LTH5	ARUN180LTH5	ARUN200LTH5	ARUN220LTH5
			1	1	1	1
Capacity	*Cooling (Rated)	RT	12.7	14.3	15.9	17.5
		kW	44.8	50.4	56.0	61.6
		Btu/h	152,900	172,000	191,100	210,200
	**Cooling (Rated)	RT	11.4	12.4	13.6	14.1
		kW	40.3	43.6	48.0	49.6
		Btu/h	137,500	148,800	163,800	169,100
	Heating (Rated)	RT	14.2	16.1	17.9	19.7
		kW	50.0	56.7	63.0	69.3
		Btu/h	170,600	193,500	215,000	236,500
Input	*Cooling (Rated)	kW	10.80	11.20	13.00	14.84
	**Cooling (Rated)	kW	13.15	14.39	15.77	16.72
	Heating (Rated)	kW	11.36	11.98	15.52	17.54
COP	*Cooling (Rated)	kW	4.15	4.50	4.31	4.15
	**Cooling (Rated)	kW	3.06	3.03	3.04	2.96
	Heating (Rated)	kW	4.40	4.73	4.06	3.95
Power Factor	Rated	-	0.93	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1	62.1 × 1 + 43.8 × 1	62.1 × 2	62.1 × 2
	Number of Revolution	rev/min	3,600	3,600 × 2	3,600 × 2	3,600 × 2
	Motor Output × Number	W × No.	5,300 × 1	5,300 × 1 + 4,200 × 1	5,300 × 2	5,300 × 2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 2	900 × 2	900 × 2	900 × 2
	Air Flow Rate(High)	m^3/min	320 × 1	320 × 1	320 × 1	320 × 1
		ft^3/min	11,301 × 1	11,301 × 1	11,301 × 1	11,301 × 1
	External Static Pressure (Max, Pa)		80	80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Gas Pipe	mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1	(1,240 × 1,690 × 760)×1
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 1
Net Weight		kg	221 × 1	261 × 1	281 × 1	281 × 1
		lbs	487 × 1	575 × 1	619 × 1	619 × 1
Sound Pressure Level	Cooling	dB(A)	60.5	61.0	62.0	64.5
	Heating	dB(A)	61.5	62.0	64.5	65.5
Sound Power Level	Cooling	dB(A)	83.0	85.0	86.0	86.0
	Heating	dB(A)	85.0	86.0	87.0	88.0
Communication Cable		No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0	13.0	14.0	14.0
		lbs	28.7	28.7	30.9	30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			26	29	32	35

MULTI V 5

STANDARD

ARUN240LTH5 / ARUN260LTH5 / ARUN280LTH5 / ARUN300LTH5

TROPICAL REGION

HP				24	26	28	30
Model Name	Combination Unit			ARUN240LTH5	ARUN260LTH5	ARUN280LTH5	ARUN300LTH5
	Independent Unit			ARUN120LTH5 ARUN120LTH5	ARUN140LTH5 ARUN120LTH5	ARUN160LTH5 ARUN120LTH5	ARUN160LTH5 ARUN140LTH5
				2	2	2	2
Capacity	*Cooling (Rated)		RT	19.1	20.7	22.3	23.9
			kW	67.2	72.8	78.4	84.0
			Btu/h	229,300	248,400	267,500	286,600
	**Cooling (Rated)		RT	17.7	19.3	20.3	21.9
			kW	62.4	68.0	71.5	77.1
			Btu/h	212,900	232,000	244,000	263,100
	Heating (Rated)		RT	21.5	23.2	24.9	26.7
			kW	75.6	81.7	87.8	93.9
			Btu/h	257,900	278,800	299,600	320,500
Input	*Cooling (Rated)		kW	16.00	17.30	18.80	20.10
	**Cooling (Rated)		kW	19.08	20.74	22.69	24.35
	Heating (Rated)		kW	16.12	17.75	19.42	21.05
COP	*Cooling (Rated)		kW	4.20	4.21	4.17	4.18
	**Cooling (Rated)		kW	3.27	3.28	3.15	3.17
	Heating (Rated)		kW	4.69	4.60	4.52	4.46
Power Factor	Rated		-	0.93	0.93	0.93	0.93
Casing	Color			Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger				Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement		cm^3/rev	62.1 × 2	62.1 × 2	62.1 × 2	62.1 × 2
	Number of Revolution		rev/min	3,600 × 2	3,600 × 2	3,600 × 2	3,600 × 2
	Motor Output × Number		W × No.	5,300 × 2	5,300 × 2	5,300 × 2	5,300 × 2
	Starting Method			Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number		W	1,200 × 2	(900 × 2) + (1,200 × 1)	(900 × 2) + (1,200 × 1)	900 × 4
	Air Flow Rate(High)		m^3/min	240 × 2	(320 × 1) + (240 × 1)	(320 × 1) + (240 × 1)	320 × 2
			ft^3/min	8,476 × 2	(11,301 × 1) + (8,476 × 1)	(11,301 × 1) + (8,476 × 1)	11,301 × 2
	External Static Pressure (Max, Pa)			80	80	80	80
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe		mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe		mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Dimensions (W × H × D)			mm	(930 × 1,690 × 760) × 2	(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
			inch	(36-5/8 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 1 + (36-5/8 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 1 + (36-5/8 × 66-17/32 × 29-29/32) × 1	(48-13/16 × 66-17/32 × 29-29/32) × 2
Net Weight			kg	200 × 2	(221 × 1) + (200 × 1)	(221 × 1) + (200 × 1)	221 × 2
			lbs	441 × 2	(487 × 1) + (441 × 1)	(487 × 1) + (441 × 1)	487 × 2
Sound Pressure Level	Cooling		dB(A)	62.0	62.5	62.8	63.3
	Heating		dB(A)	63.0	63.5	63.8	64.3
Sound Power Level	Cooling		dB(A)	82.0	83.8	84.5	85.5
	Heating		dB(A)	83.0	85.5	86.2	87.5
Communication Cable			No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name			R410A	R410A	R410A	R410A
	Precharged Amount in factory		kg	10.0 + 10.0	13.0 + 10.0	13.0+ 10.0	13.0+ 13.0
			lbs	22.0 + 22.0	28.7 + 22.0	28.7 + 22.0	28.7 + 28.7
	Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			Ø, V, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
				400, 3, 60	400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units				39	42	45	49

STANDARD

ARUN320LTH5 / ARUN340LTH5 / ARUN360LTH5

TROPICAL REGION

HP				32	34	36
Model Name	Combination Unit			ARUN320LTH5	ARUN340LTH5	ARUN360LTH5
	Independent Unit			ARUN160LTH5 ARUN160LTH5	ARUN180LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5
				2	2	2
Capacity	*Cooling (Rated)		RT	25.4	27.0	28.6
			kW	89.6	95.2	100.8
			Btu/h	305,700	324,800	343,900
	**Cooling (Rated)		RT	22.9	23.8	25.1
			kW	80.6	83.9	88.3
			Btu/h	275,000	286,300	301,300
	Heating (Rated)		RT	28.4	30.3	32.1
			kW	100.0	106.7	113.0
			Btu/h	341,200	364,100	385,600
Input	*Cooling (Rated)		kW	21.60	22.00	23.80
	**Cooling (Rated)		kW	26.30	27.54	28.92
	Heating (Rated)		kW	22.72	23.34	26.88
COP	*Cooling (Rated)		kW	4.15	4.33	4.24
	**Cooling (Rated)		kW	3.06	3.05	3.05
	Heating (Rated)		kW	4.40	4.57	4.20
Power Factor	Rated		-	0.93	0.93	0.93
Casing	Color			Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger				Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement		cm^3/rev	62.1 × 2	(62.1 × 2) + (43.8 × 1)	62.1 × 3
	Number of Revolution		rev/min	3,600 × 2	3,600 × 3	3,600 × 3
	Motor Output × Number		W × No.	5,300 × 2	(5,300 × 2) + (4,200 × 1)	5,300 × 3
	Starting Method			Direct On Line	Direct On Line	Direct On Line
	Oil Type			FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type			Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number		W	900 × 4	900 × 4	900 × 4
	Air Flow Rate(High)		m^3/min	320 × 2	320 × 2	320 × 2
			ft^3/min	11,301 × 2	11,301 × 2	11,301 × 2
	External Static Pressure (Max, Pa)			80	80	80
	Drive			DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe		mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe		mm(inch)	34.9(1-3/8)	34.9(1-3/8)	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
			inch	(48-13/16 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 2
Net Weight			kg	221 × 2	(261 × 1) + (221 × 1)	(281 × 1) + (221 × 1)
			lbs	487 × 2	(575 × 1) + (487 × 1)	(619 × 1) + (487 × 1)
Sound Pressure Level	Cooling		dB(A)	63.5	63.8	64.3
	Heating		dB(A)	64.5	64.8	66.3
Sound Power Level	Cooling		dB(A)	86.0	87.1	87.8
	Heating		dB(A)	88.0	88.5	89.1
Communication Cable			No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name			R410A	R410A	R410A
	Precharged Amount in factory		kg	13.0 + 13.0	13.0 + 13.0	14.0 + 13.0
			lbs	28.7 + 28.7	28.7 + 28.7	30.9 + 28.7
	Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			Ø, V, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
				400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units				52	55	58

MULTI V 5

STANDARD

ARUN380LTH5 / ARUN400LTH5 / ARUN420LTH5

TROPICAL REGION

HP			38	40	42
Model Name	Combination Unit		ARUN380LTH5	ARUN400LTH5	ARUN420LTH5
	Independent Unit		ARUN220LTH5 ARUN160LTH5	ARUN200LTH5 ARUN200LTH5	ARUN220LTH5 ARUN200LTH5
			2	2	2
Capacity	*Cooling (Rated)	RT	30.2	31.8	33.4
		kW	106.4	112.0	117.6
		Btu/h	363,000	382,100	401,300
	**Cooling (Rated)	RT	25.5	27.3	27.7
		kW	89.9	96.0	97.6
		Btu/h	306,600	327,600	332,900
	Heating (Rated)	RT	33.9	35.8	37.6
		kW	119.3	126.0	132.3
		Btu/h	407,100	429,900	451,400
Input	*Cooling (Rated)	kW	25.64	26.00	27.84
	**Cooling (Rated)	kW	29.87	31.54	32.49
	Heating (Rated)	kW	28.90	31.04	33.06
COP	*Cooling (Rated)	kW	4.15	4.31	4.22
	**Cooling (Rated)	kW	3.01	3.04	3.00
	Heating (Rated)	kW	4.13	4.06	4.00
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm³/rev	62.1 × 3	62.1 × 4	62.1 × 4
	Number of Revolution	rev/min	3,600 × 3	3,600 × 4	3,600 × 4
	Motor Output × Number	W × No.	5,300 × 3	5,300 × 4	5,300 × 4
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 4	900 × 4	900 × 4
	Air Flow Rate(High)	m³/min	320 × 2	320 × 2	320 × 2
		ft³/min	11,301 × 2	11,301 × 2	11,301 × 2
	External Static Pressure (Max, Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 2
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 2
Net Weight		kg	(281 × 1) + (221 × 1)	281 × 2	281 × 2
		lbs	(619 × 1) + (487 × 1)	619 × 2	619 × 2
Sound Pressure Level	Cooling	dB(A)	66.0	65.0	66.4
	Heating	dB(A)	67.0	67.5	68.0
Sound Power Level	Cooling	dB(A)	87.8	89.0	89.0
	Heating	dB(A)	89.8	90.0	90.5
Communication Cable		No.×mm²(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 13.0	14.0 + 14.0	14.0 + 14.0
		lbs	30.9 + 28.7	30.9 + 30.9	30.9 + 30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			61	64	64

STANDARD

ARUN440LTH5 / ARUN460LTH5 / ARUN480LTH5

TROPICAL REGION

HP			44	46	48
Model Name	Combination Unit		ARUN440LTH5	ARUN460LTH5	ARUN480LTH5
	Independent Unit		ARUN220LTH5 ARUN220LTH5	ARUN160LTH5 ARUN160LTH5 ARUN140LTH5	ARUN160LTH5 ARUN160LTH5 ARUN160LTH5
			2	3	3
Capacity	*Cooling (Rated)	RT	35.0	36.6	38.2
		kW	123.2	128.8	134.4
		Btu/h	420,400	439,500	458,600
	**Cooling (Rated)	RT	28.2	33.3	34.3
		kW	99.2	117.4	120.9
		Btu/h	338,200	400,600	412,500
	Heating (Rated)	RT	39.4	40.9	42.6
		kW	138.6	143.9	150.0
		Btu/h	472,900	491,000	511,800
Input	*Cooling (Rated)	kW	29.68	30.90	32.40
	**Cooling (Rated)	kW	33.44	37.50	39.45
	Heating (Rated)	kW	35.08	32.41	34.08
COP	*Cooling (Rated)	kW	4.15	4.17	4.15
	**Cooling (Rated)	kW	2.97	3.13	3.06
	Heating (Rated)	kW	3.95	4.44	4.40
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm³/rev	62.1 × 4	62.1 × 3	62.1 × 3
	Number of Revolution	rev/min	3,600 × 4	3,600 × 3	3,600 × 3
	Motor Output × Number	W × No.	5,300 × 4	5,300 × 3	5,300 × 3
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 4	900 × 6	900 × 6
	Air Flow Rate(High)	m³/min	320 × 2	320 × 3	320 × 3
		ft³/min	1,1301 ×2	11,301 × 3	11,301 × 3
	External Static Pressure (Max, Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 2	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 2	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3
Net Weight		kg	281 × 2	221 × 3	221 × 3
		lbs	619 × 2	487 × 3	487 × 3
Sound Pressure Level	Cooling	dB(A)	67.5	65.1	65.3
	Heating	dB(A)	68.5	66.1	66.3
Sound Power Level	Cooling	dB(A)	89.0	87.5	87.8
	Heating	dB(A)	91.0	89.5	89.8
Communication Cable		No.×mm²(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 14.0	13.0 + 13.0 + 13.0	13.0 + 13.0 + 13.0
		lbs	30.9 + 30.9	28.7 + 28.7 + 28.7	28.7 + 28.7 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			64	64	64

MULTI V 5

STANDARD

ARUN500LTH5 / ARUN520LTH5 / ARUN540LTH5

TROPICAL REGION

HP			50	52	54
Model Name	Combination Unit		ARUN500LTH5	ARUN520LTH5	ARUN540LTH5
	Independent Unit		ARUN180LTH5 ARUN160LTH5 ARUN160LTH5	ARUN200LTH5 ARUN160LTH5 ARUN160LTH5	ARUN220LTH5 ARUN160LTH5 ARUN160LTH5
			3	3	3
Capacity	*Cooling (Rated)	RT	39.8	41.4	42.9
		kW	140.0	145.6	151.2
		Btu/h	477,700	496,800	515,900
	**Cooling (Rated)	RT	35.3	36.5	37.0
		kW	124.2	128.6	130.2
		Btu/h	423,800	438,800	444,200
	Heating (Rated)	RT	44.5	46.3	48.1
		kW	156.7	163.0	169.3
		Btu/h	534,700	556,200	577,700
Input	*Cooling (Rated)	kW	32.80	34.60	36.44
	**Cooling (Rated)	kW	40.69	42.07	43.02
	Heating (Rated)	kW	34.70	38.24	40.26
COP	*Cooling (Rated)	kW	4.27	4.21	4.15
	**Cooling (Rated)	kW	3.05	3.06	3.03
	Heating (Rated)	kW	4.52	4.26	4.21
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	(62.1 × 3) + (43.8 × 1)	62.1 × 4	62.1 × 4
	Number of Revolution	rev/min	3,600 × 4	3,600 × 4	3,600 × 4
	Motor Output × Number	W × No.	(5,300 × 3) + (4,200 × 1)	5,300 × 4	5,300 × 4
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 6	900 × 6	900 × 6
	Air Flow Rate(High)	m^3/min	320 × 3	320 × 3	320 × 3
		ft^3/min	11,301 × 3	11,301 × 3	11,301 × 3
	External Static Pressure (Max, Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3
Net Weight		kg	(261 × 1) + (221 × 2)	(281 × 1) + (221 × 2)	(281 × 1) + (221 × 2)
		lbs	(575 × 1) + (487 × 2)	(619 × 1) + (487 × 2)	(619 × 1) + (487 × 2)
Sound Pressure Level	Cooling	dB(A)	65.4	65.8	67.0
	Heating	dB(A)	66.4	67.5	68.0
Sound Power Level	Cooling	dB(A)	88.5	89.0	89.0
	Heating	dB(A)	90.1	90.5	91.0
Communication Cable		No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	13.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0	14.0 + 13.0 + 13.0
		lbs	28.7 + 28.7 + 28.7	30.9 + 28.7 + 28.7	30.9 + 28.7 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			64	64	64

STANDARD

ARUN560LTH5 / ARUN580LTH5 / ARUN600LTH5

TROPICAL REGION

HP			56	58	60
Model Name	Combination Unit		ARUN560LTH5	ARUN580LTH5	ARUN600LTH5
	Independent Unit		ARUN200LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN200LTH5 ARUN160LTH5	ARUN220LTH5 ARUN220LTH5 ARUN160LTH5
			3	3	3
Capacity	*Cooling (Rated)	RT	44.5	46.1	47.7
		kW	156.8	162.4	168.0
		Btu/h	535,000	554,100	573,200
	**Cooling (Rated)	RT	38.7	39.2	39.6
		kW	136.3	137.9	139.5
		Btu/h	465,100	470,500	476,000
	Heating (Rated)	RT	50.0	51.8	53.6
		kW	176.0	182.3	188.6
		Btu/h	600,500	622,000	643,500
Input	*Cooling (Rated)	kW	36.80	38.64	40.48
	**Cooling (Rated)	kW	44.69	45.64	46.59
	Heating (Rated)	kW	42.40	44.42	46.44
COP	*Cooling (Rated)	kW	4.26	4.20	4.15
	**Cooling (Rated)	kW	3.05	3.02	2.99
	Heating (Rated)	kW	4.15	4.10	4.06
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 × 5	62.1 × 5	62.1 × 5
	Number of Revolution	rev/min	3,600 × 5	3,600 × 5	3,600 × 5
	Motor Output × Number	W × No.	5,300 × 5	5,300 × 5	5,300 × 5
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 6	900 × 6	900 × 6
	Air Flow Rate(High)	m^3/min	320 × 3	320 × 3	320 × 3
		ft^3/min	11,301 × 3	11,301 × 3	11,301 × 3
	External Static Pressure (Max, Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas Pipe	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions (W × H × D)		mm	(1,240 ×1,690 × 760) × 3	(1,240 ×1,690 × 760) × 3	(1,240 × 1,690 × 760) × 3
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3
Net Weight		kg	(281 × 2) + (221 × 1)	(281 × 2) + (221 × 1)	(281 × 2) + (221 × 1)
		lbs	(619 × 2) + (487 × 1)	(619 × 2) + (487 × 1)	(619 × 2) + (487 × 1)
Sound Pressure Level	Cooling	dB(A)	66.3	67.4	68.3
	Heating	dB(A)	68.5	68.9	69.3
Sound Power Level	Cooling	dB(A)	90.0	90.0	90.0
	Heating	dB(A)	91.2	91.6	92.0
Communication Cable		No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0	14.0 + 14.0 + 13.0
		lbs	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7	30.9 + 30.9 + 28.7
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			64	64	64

MULTI V 5

STANDARD

ARUN620LTH5 / ARUN640LTH5 / ARUN660LTH5

TROPICAL REGION

HP			62	64	66
Model Name	Combination Unit		ARUN620LTH5	ARUN640LTH5	ARUN660LTH5
	Independent Unit		ARUN220LTH5 ARUN200LTH5 ARUN200LTH5	ARUN220LTH5 ARUN220LTH5 ARUN200LTH5	ARUN220LTH5 ARUN220LTH5 ARUN220LTH5
			3	3	3
Capacity	*Cooling (Rated)	RT	49.3	50.9	52.5
		kW	173.6	179.2	184.8
		Btu/h	592,300	611,400	630,500
	**Cooling (Rated)	RT	41.4	41.8	42.3
		kW	145.6	147.2	148.8
		Btu/h	496,800	502,200	507,700
	Heating (Rated)	RT	55.5	57.3	59.0
		kW	195.3	201.6	207.9
		Btu/h	666,400	687,900	709,400
Input	*Cooling (Rated)	kW	40.84	42.68	44.52
	**Cooling (Rated)	kW	48.26	49.21	50.16
	Heating (Rated)	kW	48.58	50.60	52.62
COP	*Cooling (Rated)	kW	4.25	4.20	4.15
	**Cooling (Rated)	kW	3.02	2.99	2.97
	Heating (Rated)	kW	4.02	3.98	3.95
Power Factor	Rated	-	0.93	0.93	0.93
Casing	Color		Warm Gray / Dawn Gray	Warm Gray / Dawn Gray	Warm Gray / Dawn Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm^3/rev	62.1 × 6	62.1 × 6	62.1 × 6
	Number of Revolution	rev/min	3,600 × 6	3,600 × 6	3,600 × 6
	Motor Output × Number	W × No.	5,300 × 6	5,300 × 6	5,300 × 6
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor Output × Number	W	900 × 6	900 × 6	900 × 6
	Air Flow Rate(High)	m^3/min	320 × 3	320 × 3	320 × 3
		ft^3/min	11,301 × 3	11,301 × 3	11,301 × 3
	External Static Pressure (Max, Pa)		80	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Pipe Connctions	Liquid Pipe	mm(inch)	22.2(7/8)	22.2(7/8)	22.2(7/8)
	Gas Pipe	mm(inch)	44.5(1-3/4)	44.5(1-3/4)	53.98(2-1/8)
Dimensions (W × H × D)		mm	(1,240 × 1,690 × 760) × 3	(1,240 × 1,690 × 760) × 3	(1,240 × 1,690 × 760) × 3
		inch	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3	(48-13/16 × 66-17/32 × 29-29/32) × 3
Net Weight		kg	281 × 3	281 × 3	281 × 3
		lbs	619 × 3	619 × 3	619 × 3
Sound Pressure Level	Cooling	dB(A)	67.8	68.6	69.3
	Heating	dB(A)	69.6	70.0	70.3
Sound Power Level	Cooling	dB(A)	90.8	90.8	90.8
	Heating	dB(A)	92.1	92.5	92.8
Communication Cable		No.×mm^2(VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
Refigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount in factory	kg	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0	14.0 + 14.0 + 14.0
		lbs	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9	30.9 + 30.9 + 30.9
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380~415, 3, 50	380~415, 3, 50	380~415, 3, 50
			400, 3, 60	400, 3, 60	400, 3, 60
Number of maxmum connectable indoor units			64	64	64

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 work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

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

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

5. Performances are based on the following conditions (ISO15042) :
   - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
   - **Cooling : Indoor Ambient Temp. 29°CDB / 19°CWB, Outdoor Ambient Temp. 46°CDB / 24°CWB
   - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
   - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

6. The Maximum combination ratio is 130%.

7. This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2,087.5)

INDOOR UNITS

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

ARTCOOL GALLERY

ARNU07GSF14 / ARNU09GSF14 / ARNU12GSF14

Model		Unit	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Cooling Capacity		kW	2.2	2.8	3.6
Heating Capacity		kW	2.5	3.2	4.0
Power Input (H / M / L)	Nominal	W	28 / 16 / 10	28 / 16 / 10	32 / 20 / 12
Dimensions (W x H x D)	Body	mm	600 x 600 x 146	600 x 600 x 146	600 x 600 x 146
	Shipping	mm	685 x 670 x 215	685 x 670 x 215	685 x 670 x 215
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	8.1 / 6.3 / 4.2	8.1 / 6.3 / 4.2	9.3 / 7.7 / 6.0
	Motor type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø12(15/32)	Ø12(15/32)	Ø12(15/32)
Weight	Body	kg	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	38 / 32 / 27	38 / 32 / 27	44 / 38 / 32
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 41	48 / 46 / 41	54 / 46 / 38
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm² x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU07GSF14	ARNU09GSF14	ARNU12GSF14
Drain Pump	-		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	PRGK024A0		
Independent Power Module	PRIP0		
Robot Cleaner	-		
Pre Filter (washable / anti-fungus)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200 1)		

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

STANDARD

ARNU05GSJC4 / ARNU07GSJC4 / ARNU09GSJC4 / ARNU12GSJC4 / ARNU15GSJC4

Model		Unit	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0
Power Input (H / M / L)	Nominal	W	11 / 10 / 9	12 / 11 / 9	13 / 12 / 9	15 / 13 / 11	23 / 18 / 11
Exterior Color			White	White	White	White	White
RAL Code			RAL 9016	RAL 9016	RAL 9016	RAL 9016	RAL 9016
Dimensions (W x H x D)	Body	mm	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189	818 x 316 x 189
	Shipping	mm	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249	892 x 381 x 249
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m³/min	6.8 / 6.5 / 5.9	7.2 / 6.8 / 5.9	7.8 / 7.2 / 5.9	8.5 / 7.8 / 6.8	10.5 / 9.5 / 6.8
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)	Ø16(5/8)
Weight	Body	kg (lbs)	8.4	8.4	8.4	8.4	8.4
Sound Pressure Levels (H / M / L)		dB(A)	30 / 29 / 28	32 / 30 / 28	34 / 32 / 28	37 / 34 / 30	42 / 39 / 32
Sound Power Levels (H / M / L)		dB(A)	54 / 53 / 52	54 / 53 / 52	55 / 54 / 52	55 / 54 / 53	58 / 56 / 54
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm² x No.	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C

1) Nominal : 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

Chassis	ARNU05GSJ*4	ARNU07GSJ*4	ARNU09GSJ*4	ARNU12GSJ*4	ARNU15GSJ*4
Drain Pump	-				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit	PRGK024A0				
Independent Power Module	PRIP0				
Robot Cleaner	-				
Pre Filter (washable / anti-fungus)	○				
Ion Generator	○				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	-				
Zone Controller	-				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	○				

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

STANDARD

ARNU18GSK*4 / ARNU24GSK*4

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

1) Nominal : 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

Chassis	ARNU18GSK*4	ARNU24GSK*4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	
Pre Filter (washable / anti-fungus)	○	
Ion Generator	○	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	○	

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

ARNU30GSVA4 / ARNU36GSVA4

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

1) Nominal : 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

Chassis	ARNU30GSVA4	ARNU36GSVA4
Drain Pump	-	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Independent Power Module	PRIP0	
Robot Cleaner	-	
Pre Filter (washable / anti-fungus)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD2001)	

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

4 Way CASSETTE (570 X 570)

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

Model		Unit	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
Dimensions (W x H x D)	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m^3/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Power Supply		Ø, V, Hz	1, 220-240, 50 1, 220, 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
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0

1) Nominal : 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

Chassis	ARNU05GTRD4	ARNU07GTRD4	ARNU09GTRD4	ARNU12GTRD4	ARNU15GTQD4	ARNU18GTQD4	ARNU21GTQD4
Drain Pump	○						
Cassette Cover	PTDCQ						
Refrigerant Leakage Detector	PRLDNVS0						
EEV Kit	PRGK024A0 (~4.5kW)						
Independent Power Module	PRIP0						
Robot Cleaner	-						
Pre Filter (washable / anti-fungus)	○						
Ion Generator	-						
CO_2 Sensor	-						
Ventilation Kit	PTVK430						
IR Receiver	-						
Zone Controller	-						
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB501 (Modbus)						
External Input (1 point)	○						
Wi-Fi	PWFMDD200						

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

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

Model		Unit	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Cooling Capacity		kW	1.6	2.2	2.8	3.6	4.5	5.6	6.0
Heating Capacity		kW	1.8	2.5	3.2	4.0	5.0	6.3	6.8
Power Input (H / M / L)	Nominal	W	13 / 12 / 11	13 / 12 / 11	14 / 13 / 12	17 / 15 / 13	24 / 21 / 18	25 / 22 / 19	28 / 23 / 20
Dimensions (W x H x D)	Body	mm	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 214 x 570	570 x 256 x 570	570 x 256 x 570	570 x 256 x 570
	Shipping	mm	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 285 x 646	667 x 327 x 646	667 x 327 x 646	667 x 327 x 646
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1	43 x 1
	Air Flow Rate (H / M / L)	m^3/min	7.5 / 7.0 / 6.6	7.5 / 7.0 / 6.6	8.0 / 7.5 / 7.1	8.7 / 8.0 / 7.0	11.0 / 10.0 / 9.3	11.2 / 11.0 / 10.0	12.0 / 11.1 / 9.4
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	12.6	12.6	13.7	13.7	15.0	15.0	15.0
Sound Pressure Levels (H / M / L)		dB(A)	29 / 27 / 26	29 / 27 / 26	30 / 29 / 27	32 / 30 / 27	36 / 34 / 32	37 / 35 / 34	40 / 38 / 34
Sound Power Levels (H / M / L)		dB(A)	45 / 43 / 42	45 / 43 / 42	46 / 43 / 42	48 / 46 / 43	50 / 48 / 46	51 / 50 / 46	53 / 51 / 46
Power Supply		Ø, V, Hz	1, 220-240, 50 1, 220, 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
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0	PT-UQC PT-QCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620	700 x 22 x700 620 x 20 x 620
	Net Weight	kg	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0

1) Nominal : 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

Chassis	ARNU05GTRC4	ARNU07GTRC4	ARNU09GTRC4	ARNU12GTRC4	ARNU15GTQC4	ARNU18GTQC4	ARNU21GTQC4
Drain Pump	○						
Cassette Cover	PTDCQ						
Refrigerant Leakage Detector	PRLDNVS0						
EEV Kit	PRGK024A0 (~4.5kW)						
Independent Power Module	PRIP0						
Robot Cleaner	-						
Pre Filter (washable / anti-fungus)	○						
Ion Generator	-						
CO_2 Sensor	-						
Ventilation Kit	PTVK430						
IR Receiver	-						
Zone Controller	-						
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)						
External Input (1 point)	○						
Wi-Fi	-						

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

4 Way CASSETTE (840 X 840)

ARNU24GTPC4 / ARNU28GTPC4 / ARNU30GTPC4 / ARNU36GTNC4

Model		Unit	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4
Cooling Capacity		kW	7.1	8.2	9.0	10.6
Heating Capacity		kW	8.0	9.2	10.0	11.9
Power Input (H / M / L)	Nominal	W	31 / 26 / 23	40 / 31 / 25	40 / 34 / 27	70 / 53 / 43
Dimensions (W x H x D)	Body	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
	Shipping	mm	922 x 276 x 917	922 x 276 x 917	922 x 276 x 917	922 x 318 x 917
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	30 x 1	30 x 1	30 x 1	135 x 1
	Air Flow Rate (H / M / L)	m^3/min	17.0 / 15.0 / 13.0	19.0 / 16.0 / 14.0	24.3 / 22.8 / 19.5	25.0 / 21.0 / 19.0
	Motor type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	20.8	20.8	20.8	23.5
Sound Pressure Levels (H / M / L)		dB(A)	36 / 34 / 31	39 / 35 / 33	40 / 36 / 33	43 / 40 / 37
Sound Power Levels (H / M / L)		dB(A)	46 / 44 / 43	52 / 46 / 44	58 / 57 / 54	56 / 53 / 51
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

1) Nominal : 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

Chassis	ARNU24GTPC4	ARNU28GTPC4	ARNU30GTPC4	ARNU36GTNC4
Drain Pump	○			
Cassette Cover	PTDCM			
Refrigerant Leakage Detector	PRLDNVS0			
EEV Kit	-			
Independent Power Module	PRIP0			
Robot Cleaner	-			
Pre Filter (washable / anti-fungus)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	PTVK430			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB502 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

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

ARNU42GTM / C4ARNU48GTMC4 / ARNU54GTMC4

Model		Unit	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Cooling Capacity		kW	12.3	14.1	15.8
Heating Capacity		kW	13.8	15.9	18.0
Power Input (H / M / L)	Nominal	W	104 / 75 / 53	120 / 80 / 62	135 / 93 / 70
Dimensions (W x H x D)	Body	mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping	mm	922 x 360 x 917	922 x 360 x 917	922 x 360 x 917
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W	135 x 1	135 x 1	135 x 1
	Air Flow Rate (H / M / L)	m^3/min	30.0 / 27.0 / 24.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 27.0
	Motor type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	25.6	25.6	26.5
Sound Pressure Levels (H / M / L)		dB(A)	44 / 41 / 38	46 / 43 / 41	50 / 48 / 44
Sound Power Levels (H / M / L)		dB(A)	58 / 55 / 50	60 / 56 / 55	60 / 58 / 55
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0	PT-UMC1 PT-MCHW0
	Exterior Color		Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	950 x 25 x 950 950 x 35 x 950	950 x 25 x 950 9 50 x 35 x 950	950 x 25 x 950 950 x 35 x 950
	Net Weight	kg	5.0 / 6.3	5.0 / 6.3	5.0 / 6.3

1) Nominal : 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

Chassis	ARNU42GTMC4	ARNU48GTMC4	ARNU54GTMC4
Drain Pump	○		
Cassette Cover	PTDCM		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	-		
Independent Power Module	PRIP0		
Robot Cleaner	-		
Pre Filter (washable / anti-fungus)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	PTVK430		
IR Receiver	-		
Zone Controller	-		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB502 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200		

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

2 Way CASSETTE

ARNU09GTSC4 / ARNU12GTSC4
ARNU18GTSC4 / ARNU24GTSC4

Model		Unit	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
Cooling Capacity		kW	2.8	3.6	5.6	7.1
Heating Capacity		kW	3.2	4	6.3	8
Power Input (H / M / L)	Nominal	W	16 / 14 / 11	18 / 14 / 11	19 / 16 / 14	31 / 22 / 14
Dimensions (W x H x D)	Body	mm	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600	830 x 225 x 600
	Shipping	mm	1,033 x 270 x 665	1,033 x 270 x 665	1,033 x 270 x 665	1,033 x 270 x 665
Fan	Type		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor Output x Number	W x No.	37 x 1	37 x 1	37 x 1	37 x 1
	Air Flow Rate (H / M / L)	m^3/min	10.8 / 9.8 / 9.1	11.1 / 10.3 / 9.1	11.8 / 10.8 / 9.8	14.5 / 12.4 / 10.3
	Motor type		BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø6.35 (1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø12.7 (1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	18.1	18.1	18.1	18.1
Sound Pressure Levels (H / M / L)		dB (A)	33 / 31 / 29	34 / 32 / 29	35 / 33 / 31	40 / 37 / 33
Sound Power Levels (H / M / L)		dB (A)	42 / 40 / 38	43 / 41 / 39	44 / 42 / 40	48 / 45 / 40
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-USC	PT-USC	PT-USC	PT-USC
	Exterior Color		Morning Fog	Morning Fog	Morning Fog	Morning Fog
	RAL Code		RAL 9001	RAL 9001	RAL 9001	RAL 9001
	Net Dimensions (W x H x D)	mm	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690	1,100 x 28 x 690
	Net Weight	kg	4.7	4.7	4.7	4.7

1) Nominal : 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

Chassis	ARNU09GTSC4	ARNU12GTSC4	ARNU18GTSC4	ARNU24GTSC4
Drain Pump	○			
Cassette Cover	-			
Refrigerant Leakage Detector	PRLDNVS0			
EEV Kit	PRGK024A0 (~5.6kW)			
Independent Power Module	PRIP0			
Robot Cleaner	-			
Pre Filter (washable / anti-fungus)	○			
Ion Generator	-			
CO_2 Sensor	-			
Ventilation Kit	-			
IR Receiver	-			
Zone Controller	-			
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			
External Input (1 point)	○			
Wi-Fi	PWFMDD200			

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

1 Way CASSETTE

ARNU07GTUD4 / ARNU09GTUD4 / ARNU12GTUD4
ARNU18GTTD4 / ARNU24GTTD4

Model		Unit	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Cooling Capacity		kW	2.2	2.8	3.6	5.6	7.1
Heating Capacity		kW	2.5	3.2	4.0	6.3	7.1
Power Input (H / M / L)	Nominal	W	20 / 18 / 16	22 / 20 / 18	24 / 22 / 20	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	860 x 132 x 450	860 x 132 x 450	860 x 132 x 450	1,180 x 132 x 450	1,180 x 132 x 450
	Shipping	mm	1,129 x 259 x 538	1,129 x 259 x 538	1,129 x 259 x 538	1,499 x 259 x 538	1,499 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1	30 x 1	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m^3/min	8.2 / 7.3 / 6.4	9.2 / 8.6 / 8.2	10.0 / 9.2 / 8.2	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25(1)	Ø25(1)	Ø25(1)	Ø25(1)	Ø25(1)
Weight	Body	kg	13.6	13.6	13.6	15.6	15.6
Sound Pressure Levels (H / M / L)		dB (A)	32 / 29 / 25	35 / 34 / 32	38 / 35 / 32	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB (A)	47 / 44 / 41	50 / 48 / 47	52 / 50 / 47	56 / 51 / 48	59 / 53 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-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)
	Exterior Color		Noble White	Noble White	Noble White	Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003	RAL 9003	RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,100 x 34 x 500 1,100 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500
	Net Weight	kg	4.6 / 5.3	4.6 / 5.3	4.6 / 5.3	5.5 / 6.5	5.5 / 6.5

1) Nominal : 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

Chassis	ARNU07GTUC4	ARNU09GTUC4	ARNU12GTUC4	ARNU18GTTC4	ARNU24GTTC4
Drain Pump	○			○	
Cassette Cover	-			-	
Refrigerant Leakage Detector	PRLDNVS0			PRLDNVS0	
EEV Kit	PRGK024A0			-	
Independent Power Module	PRIP0			PRIP0	
Robot Cleaner	-			-	
Pre Filter (washable / anti-fungus)	○			○	
Ion Generator	-			-	
CO_2 Sensor	-			-	
Ventilation Kit	-			-	
IR Receiver	-			-	
Zone Controller	-			-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)			PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB502 (Modbus)	
External Input (1 point)	○			○	
Wi-Fi	-			-	

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

1 Way CASSETTE

ARNU07GTUD4 / ARNU09GTUD4 / ARNU12GTUD4

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

1) Nominal : 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

Chassis	ARNU07GTUD4	ARNU09GTUD4	ARNU12GTUD4
Drain Pump		○	
Cassette Cover		-	
Refrigerant Leakage Detector		PRLDNVS0	
EEV Kit		PRGK024A0	
Independent Power Module		PRIP0	
Robot Cleaner		-	
Pre Filter (washable / anti-fungus)		○	
Ion Generator		-	
CO_2 Sensor		-	
Ventilation Kit		-	
IR Receiver		-	
Zone Controller		-	
Dry Contact (with additional accessory)		PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB501 (Modbus)	
External Input (1 point)		○	
Wi-Fi		PWFMDD200	

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

ARNU18GTTD4 / ARNU24GTTD4

Model		Unit	ARNU18GTTD4	ARNU24GTTD4
Cooling Capacity		kW	5.6	7.1
Heating Capacity		kW	6.3	7.1
Power Input (H / M / L)	Nominal	W	38 / 28 / 24	51 / 33 / 26
Dimensions (W x H x D)	Body	mm	1,180 x 132 x 450	1,180 x 132 x 450
	Shipping	mm	1,499 x 259 x 538	1,499 x 259 x 538
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output x Number	W x No.	30 x 1	30 x 1
	Air Flow Rate (H / M / L)	m^3/min	13.3 / 12.1 / 10.9	14.6 / 13.3 / 11.5
	Motor type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25(1)	Ø25(1)
Weight	Body	kg	15.6	15.6
Sound Pressure Levels (H / M / L)		dB (A)	40 / 37 / 35	43 / 40 / 36
Sound Power Levels (H / M / L)		dB (A)	56 / 51 / 48	59 / 53 / 50
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C
Decoration Panel (Accessory)	Model Name		PT-UTC(Grill) PT-UTD(Panel)	PT-UTC(Grill) PT-UTD(Panel)
	Exterior Color		Noble White	Noble White
	RAL Code		RAL 9003	RAL 9003
	Net Dimensions (W x H x D)	mm	1,420 x 34 x 500 1,420 x 34 x 500	1,420 x 34 x 500 1,420 x 34 x 500
	Net Weight	kg	5.5 / 6.5	5.5 / 6.5

1) Nominal : 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

Chassis	ARNU18GTTD4	ARNU24GTTD4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	-	
Independent Power Module	PRIP0	
Robot Cleaner	-	
Pre Filter (washable / anti-fungus)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	-	
Zone Controller	-	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB503 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

MID / HIGH STATIC

ARNU07GM1A4 / ARNU09GM1A4 / ARNU12GM1A4
ARNU15GM1A4 / ARNU18GM1A4 / ARNU24GM1A4

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

1) Nominal : 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

Chassis	ARNU07GM1A4	ARNU09GM1A4	ARNU12GM1A4	ARNU15GM1A4	ARNU18GM1A4	ARNU24GM1A4
Drain Pump	○					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNVS0					
EEV Kit	PRGK024A0(~5.6kW)					
Independent Power Module	PRIP0					
Robot Cleaner	-					
Pre Filter (washable / anti-fungus)	○					
Ion Generator	-					
CO_2 Sensor	-					
Ventilation Kit	-					
IR Receiver	PWLRVN000					
Zone Controller	ABZCA					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)					
External Input (1 point)	○					
Wi-Fi	PWFMDD200					

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

ARNU28GM2A4 / ARNU36GM2A4 / ARNU42GM2A4
ARNU48GM3A4 / ARNU54GM3A4

Model		Unit	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Cooling Capacity		kW	8.2	10.6	12.3	14.1	15.8
Heating Capacity		kW	9.2	11.9	13.8	15.9	18.0
Power Input (H / M / L)	Nominal	W	123	184	231	172	260
Dimensions (W x H x D)	Body	mm	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 270 x 700	1,250 x 360 x 700	1,250 x 360 x 700
	Shipping	mm	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 338 x 773	1,450 x 428 x 773	1,450 x 428 x 773
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	350 x 1	350 x 1	350 x 1	350 x 1	350 x 1
	Air Flow Rate (H / M / L)	m^3/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External static pressure (High mode)	mmAq (Pa)	6(59)	6(59)	6(59)	6(59)	6(59)
	Air Flow Rate (H / M / L) (Standard mode)	m^3/min	28.0 / 24.0 / 21.0	32.0 / 28.0 / 24.0	38.0 / 33.0 / 28.0	40.0 / 34.0 / 28.0	50.0 / 45.0 / 40.0
	External static pressure (Standard mode)	mmAq (Pa)	5(49)	5(49)	5(49)	5(49)	5(49)
	Motor type		BLDC	BLDC	BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	38.0	38.0	39.5	44.0	44.0
Sound Pressure Levels (H / M / L)		dB (A)	36 / 34 / 33	37 / 36 / 34	38 / 37 / 36	39 / 37 / 35	42 / 40 / 39
Sound Power Levels (H / M / L)		dB (A)	59 / 57 / 55	60 / 59 / 57	62 / 61 / 60	63 / 60 / 59	65 / 64 / 62
Power Supply		Ø, V, Hz	1, 220-240, 50 1, 220, 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
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU28GM2A4	ARNU36GM2A4	ARNU42GM2A4	ARNU48GM3A4	ARNU54GM3A4
Drain Pump	○				
Cassette Cover	-				
Refrigerant Leakage Detector	PRLDNVS0				
EEV Kit	-				
Independent Power Module	PRIP0				
Robot Cleaner	-				
Pre Filter (washable / anti-fungus)	○				
Ion Generator	-				
CO_2 Sensor	-				
Ventilation Kit	-				
IR Receiver	PWLRVN000				
Zone Controller	ABZCA				
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)				
External Input (1 point)	○				
Wi-Fi	PWFMDD200				

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

HIGH STATIC

ARNU76GB8A4 / ARNU96GB8A4

Model		Unit	ARNU76GB8A4	ARNU96GB8A4
Cooling Capacity		kW	22.4	28.0
Heating Capacity		kW	25.2	31.5
Power Input (H / M / L)	Nominal	W	765 / 500 / 500	800 / 750 / 750
Dimensions (W x H x D)	Body	mm	1,562 x 460 x 688	1,562 x 460 x 688
	Shipping	mm	1,806 x 537 x 825	1,806 x 537 x 825
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	375 x 2	375 x 2
	Air Flow Rate (H / M / L)	m^3/min	60.0 / 50.0 / 50.0	72.0 / 64.0 / 64.0
	External static pressure (High mode)	mmAq (Pa)	22(216)	22(216)
	Air Flow Rate (H / M / L) (Standard mode)	m^3/min	64.0 / 50.0 / 50.0	76.0 / 64.0 / 64.0
	External static pressure (Standard mode)	mmAq (Pa)	15(147)	15(147)
	Motor type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø19.05(3/4)	Ø22.2(7/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	87.0	87.0
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU76GB8A4	ARNU96GB8A4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	○	
Independent Power Module	PRIP0	
Robot Cleaner	-	
Pre Filter (washable / anti-fungus)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Zone Controller	ABZCA	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

LOW STATIC

ARNU05GL1G4 / ARNU07GL1G4 / ARNU09GL1G4

Model		Unit	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Cooling Capacity		kW	1.7	2.2	2.8
Heating Capacity		kW	1.9	2.5	3.2
Power Input (H / M / L)	Nominal	W	29 / 26 / 24	31 / 28 / 24	39 / 29 / 24
Dimensions (W x H x D)	Body	mm	700 x 190 x 700	700 x 190 x 700	700 x 190 x 700
	Shipping	mm	862 x 255 x 781	862 x 255 x 781	862 x 255 x 781
Fan	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 1	19 x 1	19 x 1
	Air Flow Rate (H / M / L)	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External static pressure (High mode)	mmAq (Pa)	2.54 (25)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m^3/min	6.7 / 6.2 / 5.5	7.5 / 6.5 / 5.5	9.0 / 7.0 / 5.5
	External static pressure (Standard mode)	mmAq (Pa)	0 (0)	0 (0)	0 (0)
	Motor type		BLDC	BLDC	BLDC
Air Filter			Pre Filter	Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Side	mm (inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	17.5	17.5	17.5
Sound Pressure Levels (H / M / L)		dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 45	50 / 47 / 45	53 / 49 / 45
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU05GL1G4	ARNU07GL1G4	ARNU09GL1G4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	PRGK024A0		
Independent Power Module	PRIP0		
Robot Cleaner	-		
Pre Filter (washable / anti-fungus)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200		

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

LOW STATIC

ARNU12GL2G4 / ARNU15GL2G4 / ARNU18GL2G4

Model		Unit	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Cooling Capacity		kW	19 x 1, 5 x 1	19 x 1, 5 x 1	19 x 1, 5 x 1
Heating Capacity		kW	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
Power Input (H / M / L)	Nominal	W	2.54 (25)	2.54 (25)	2.54 (25)
Dimensions (W x H x D)	Body	mm	10.0 / 8.5 / 7.0	12.5 / 10.0 / 8.5	15.0 / 12.5 / 10.0
	Shipping	mm	0 (0)	0 (0)	0 (0)
Fan	Type		BLDC	BLDC	BLDC
	Motor Output x Number	W x No.	Pre Filter	Pre Filter	Pre Filter
	Air Flow Rate (H / M / L)	m^3/min	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	External static pressure (High mode)	mmAq (Pa)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
	Air Flow Rate (H / M / L) (Standard mode)	m^3/min	Ø25 (1)	Ø25 (1)	Ø25 (1)
	External static pressure (Standard mode)	mmAq (Pa)	23.0	23.0	23.0
	Motor type		30 / 27 / 25	33 / 30 / 28	35 / 32 / 29
Air Filter			50 / 47 / 46	54 / 51 / 47	56 / 54 / 51
Pipe Connections	Liquid Side	mm (inch)	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
	Gas Side	mm (inch)	1, 220, 60	1, 220, 60	1, 220, 60
	Drain Pipe (Internal Dia.)	mm (inch)	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C
Weight	Body	kg	17.5	17.5	17.5
Sound Pressure Levels (H / M / L)		dB(A)	25 / 24 / 22	26 / 24 / 22	28 / 25 / 22
Sound Power Levels (H / M / L)		dB(A)	48 / 46 / 45	50 / 47 / 45	53 / 49 / 45
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU12GL2G4	ARNU15GL2G4	ARNU18GL2G4
Drain Pump	○		
Cassette Cover	-		
Refrigerant Leakage Detector	PRLDNVS0		
EEV Kit	-		
Independent Power Module	PRIP0		
Robot Cleaner	-		
Pre Filter (washable / anti-fungus)	○		
Ion Generator	-		
CO_2 Sensor	-		
Ventilation Kit	-		
IR Receiver	PWLRVN000		
Zone Controller	ABZCA		
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)		
External Input (1 point)	○		
Wi-Fi	PWFMDD200		

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

ARNU21GL3G4 / ARNU24GL3G4

Model		Unit	ARNU21GL3G4	ARNU24GL3G4
Cooling Capacity		kW	6.2	7.1
Heating Capacity		kW	7.0	8.0
Power Input (H / M / L)	Nominal	W	72 / 53 / 48	103 / 63 / 48
Dimensions (W x H x D)	Body	mm	1,100 x 190 x 700	1,100 x 190 x 700
	Shipping	mm	1,262 x 255 x781	1,262 x 255 x781
Fan	Type		Sirocco Fan	Sirocco Fan
	Motor Output x Number	W x No.	19 x 2	19 x 2
	Air Flow Rate (H / M / L)	m^3/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External static pressure (High mode)	mmAq (Pa)	2.54 (25)	2.54 (25)
	Air Flow Rate (H / M / L) (Standard mode)	m^3/min	17.5 / 14.0 / 12.0	20.0 / 16.0 / 12.0
	External static pressure (Standard mode)	mmAq (Pa)	0 (0)	0 (0)
	Motor type		BLDC	BLDC
Air Filter			Pre Filter	Pre Filter
Pipe Connections	Liquid Side	mm (inch)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas Side	mm (inch)	Ø15.88(5/8)	Ø15.88(5/8)
	Drain Pipe (Internal Dia.)	mm (inch)	Ø25 (1)	Ø25 (1)
Weight	Body	kg	27.0	27.0
Sound Pressure Levels (H / M / L)		dB(A)	35 / 29 / 28	36 / 33 / 28
Sound Power Levels (H / M / L)		dB(A)	59 / 55 / 54	63 / 59 / 55
Power Supply		Ø, V, Hz	1, 220 - 240, 50	1, 220 - 240, 50
			1, 220, 60	1, 220, 60
Communication Cable		mm^2 x No.	1.0~1.5 x 2C	1.0~1.5 x 2C

1) Nominal : 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

Chassis	ARNU21GL3G4	ARNU24GL3G4
Drain Pump	○	
Cassette Cover	-	
Refrigerant Leakage Detector	PRLDNVS0	
EEV Kit	PRGK024A0	
Independent Power Module	PRIP0	
Robot Cleaner	-	
Pre Filter (washable / anti-fungus)	○	
Ion Generator	-	
CO_2 Sensor	-	
Ventilation Kit	-	
IR Receiver	PWLRVN000	
Zone Controller	ABZCA	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB300 (8 points for thermostat compatible) PDRYCB400 (2 points input) PDRYCB500 (Modbus)	
External Input (1 point)	○	
Wi-Fi	PWFMDD200	

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

COMPATIBILITY

Product \ Controller			Premium	Standard III		Standard II		Simple		Simple for Hotel		Wireless	Dry Contact			
			PREMTA000 PREMTA000A PREMTA000B	PREMTB10	PREMTB100	PREMTBB01	PREMTB001	PQRCVCL0Q	PQRCVC0QW	PQRCHCA0Q	PQRCHCA0QW	PQWRHQ0FDB	Simple Dry Contact PDRYCB000	2 points Dry Contact PDRYCB400	Dry Contact for Thermostat PDRYCB300	For Modbus PDRYCB500
Multi V	Ceiling Mounted Cassette	4 Way	ARNU-A4 ARNU-C4 ARNU-D4	○	○	○		○		○		○	○	○	○	○
		2 Way / 1 Way	ARNU-C4	○	○	○		○		○		○	○	○	○	○
	Ceiling Concealed Duct	High Sensible	ARNU-A4	○	○	○		○		○		△	○	○	○	○
		High Statics Mid Statics	ARNU-A4	○	○	○		○		○		△	○	○	○	○
		Low Statics	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	○	○	○		○		○		○	○	○	○	○
			ARNU-R4	○	○	○		○		○		○	○	○	○	○
			ARNU-A4 ARNU-C4 ARNU-N4	○	○	○		○		○		○	○	○	○	○
	HYDRO KIT [1]		ARNH-A4	-	-	-		-		-		-	○	-	○	-
	Ventilation	Energy Recovery Ventilator		○	○	○		-		-		-	○	-	-	○
		Energy Recovery Ventilator with DX coil		○	○	○		-		-		-	○	-	-	○
	AHU Communication kit			○	○	○		○		-		△	-	-	-	-

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

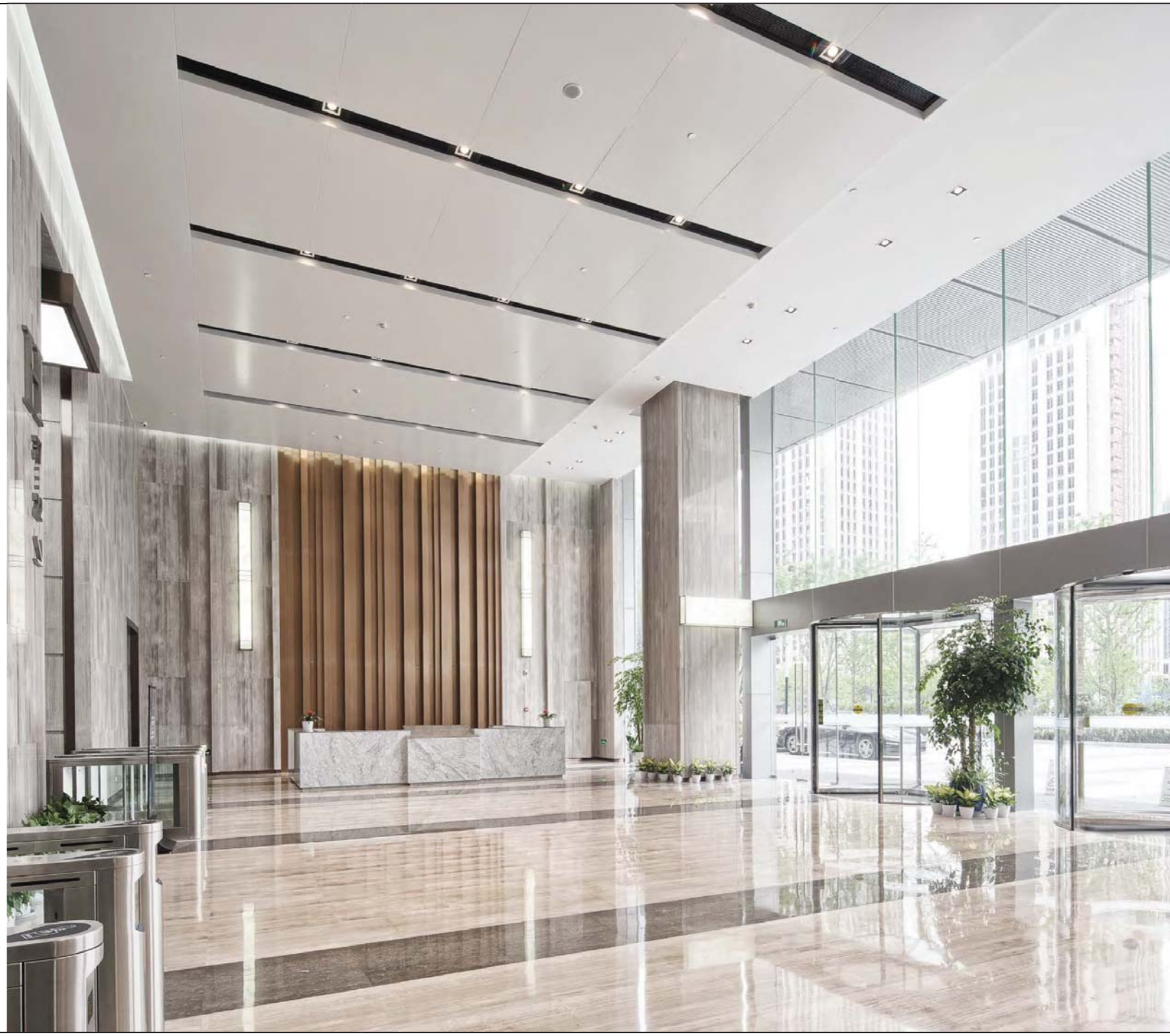
FEATURE FUNCTIONS

Controller Name		Wired Remote Controller					Wireless Remote Controller	Wi-fi Controller
		Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PQWRHQ0FDB	PWFMDD200
Basic	On / Off	○	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○	○
	Mode Change	○	○	○	○	-	○	○
	Auto Swing	○	○	○	○	○	○	
	Vane Control (Louver Angle)	○	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	-	-
	Electric Failure Compensation	○	○	○	○	○	-	○
	Indoor Temperature Display	○	○	○	○	○	○	
	ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
Advanced	Schedule / Timer	Weekly-Yearly	Weekly-Yearly	Weekly	-	-	Sleep	Weekly
	Additional Mode Setting [1]	○	○	○	-	-	-	-
	Time Display	○	○	○	-	-	○	-
	Humid. Display	○	○	-	-	-	-	-
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	Advanced Lock	Mode Lock	-	-	-	-
	Filter Sign	○	○	○	-	-	-	-
	Energy Management [2]	○	○	○	-	-	-	-
	Dual Set Point	○	○	-	-	-	-	-
	Human Detection	-	○	-	-	-	-	-
	Temp, Humidity Compensation	○	○	-	-	-	-	-
	Wifi AP mode setting	○	○	○	○	○	○	-
ETC	Operation Status LED	○	○	○	○	○	-	-
	Wireless Remote Controller Receiver	○ [3]	-	○ [3]	○ [3]	○ [3]	-	-
	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-
	Black Light Control for Screen Saver	○	○	-	-	-	-	-

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

VENTILATION SOLUTIONS

ERV



ERV

LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4

Model				LZ-H025GBA4	LZ-H035GBA4	LZ-H050GBA4
Nominal Capacity			CMH (CFM)	250 (147)	350 (206)	500 (294)
Power Supply			Ø / V / Hz	1 / 220~240 / 50, 60		
ERV Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	75 / 75 / 77	78 / 78 / 79
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72	68 / 68 / 70	73 / 73 / 75
		Cooling (SH / H / L)	%	66 / 66 / 68	63 / 63 / 65	66 / 66 / 69
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 28 / 24	32 / 30 / 27	34 / 32 / 25
Bypass Mode	Step		-	SUPER-HIGH / HIGH / LOW		
	Current	SH / H / L	Amps	0.70 / 0.60 / 0.42	1.10 / 0.95 / 0.60	1.92 / 1.58 / 0.79
	Power Input	SH / H / L	W	97 / 78 / 52	180 / 163 / 88	240 / 220 / 90
	Air Flow	SH / H / L	CMH (CFM)	250 / 250 / 150 (147 / 147 / 88)	350 / 350 / 210 (206 / 206 / 123)	500 / 500 / 320 (294 / 294 / 124)
	External Static Pressure	SH / H / L	Pa (inWTR)	100 / 70 / 50 (0.40 / 0.28 / 0.20)	150 / 130 / 100 (0.60 / 0.52 / 0.40)	150 / 100 / 50 (0.60 / 0.40 / 0.20)
	Noise Level (Sound Level, 1.5m)	SH / H / L	dB (A)	29 / 29 / 25	32 / 30 / 27	35 / 33 / 25
Heat Exchanger		Type	-	Air to air cross flow heat exchange		
Net Weight			kg	44	44	44
Dimension		W x H x D	mm	988 x 273 x 1,014	988 x 273 x 1,014	988 x 273 x 1,014
Duct work*		Qty	EA	4		
		Size (Ø)	mm	Ø200		
Supply Air Fan		Qty	EA	1		
		Type	-	Direct-Drive (Sirocco Fan)		
Exhaust Air Fan		Qty	EA	1		
		Type	-	Direct-Drive (Sirocco Fan)		
Filters (Default)		Qty	EA	2		2
		Type	-	Cleanable fibrous fleeces		
		Size (W x H x D)	mm	855 x 10 x 160		855 x 6 x 230
Filters (Optional)		Model	-	AHFT035H0		AHFT050H0
		Qty	EA	2		2
		Type	-	F7		F7
		Size (W x H x D)	mm	423.5 x 132 x 25		425 x 194 x 25
Dry Contact				PDRYCB000		

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

Premium	Standard III		Standard II		CO_2 Sensor
					
PREMTA000 PREMTA000A PREMTA000B	PREMTB100	PREMTBB10	PREMTBB01	PREMTB001	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			

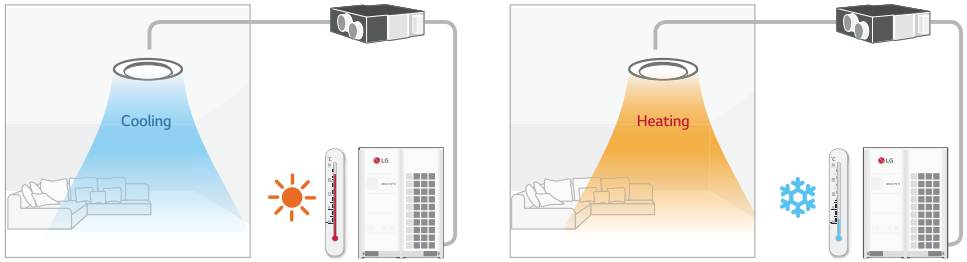
Note : 1. ERV mode : Total Heat Recovery Ventilation mode
2. * : Refer to dimensional drawings.
3. Noise level : - The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic 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	PREMTBB10	PREMTBB01	PREMTB001	AHCS100H0 (Internal Type : Default)

ERV WITH DX COIL

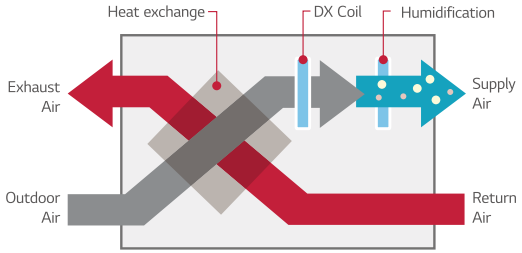
Providing Cool & Warm Fresh Air

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.



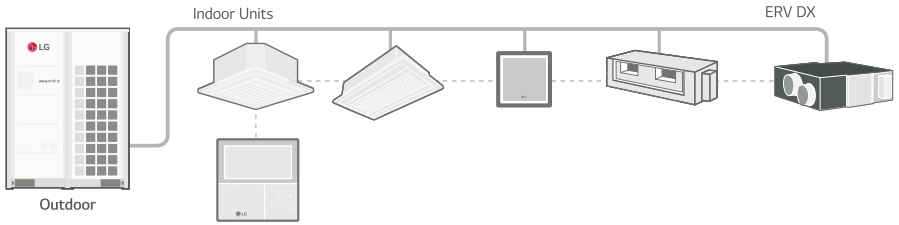
Total Air Conditioning Solution

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.



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	kW	4.93	7.46	9.12	4.93	7.46	9.12
	Heating	kW	6.73	9.80	11.72	6.73	9.80	11.72
Temperature Exchange Efficiency	SH / H / L	%	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78	86 / 86 / 87	80 / 80 / 81	76 / 76 / 78
Enthalpy Exchange 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
Operation Range	Outdoor air Temperature	°C	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45	-15 ~ 45
Air Flow Rate	Heat Exchange Mode (SH / H / L)	CMH	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820	500 / 500 / 440	800 / 800 / 640	1,000 / 1,000 / 820
	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	kg/h	2.70	4.00	5.40	-		
	Pressure Feed Water	Mpa	0.02 ~ 0.49			-		
Sound Pressure	Heat Exchange Mode (SH / H / L)	dB (A)	38 / 36 / 33	39 / 37 / 34	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
	Bypass Mode (SH / H / L)	dB (A)	39 / 37 / 34	40 / 38 / 35	40 / 38 / 35	39 / 37 / 35	41 / 38 / 36	41 / 39 / 36
Refrigerant			R410A					
Power Supply		Ø / V / Hz	1 / 220~240 / 50, 60					
Power Input (Nominal)	Heat Exchange Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
	Bypass Mode (SH / H / L)	kW	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27	0.25 / 0.20 / 0.15	0.42 / 0.35 / 0.25	0.48 / 0.42 / 0.27
Nominal Running Current (RLA)	Heat Exchange Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
	Bypass Mode (SH / H / L)	A	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3	1.5 / 1.3 / 1.0	2.5 / 2.0 / 1.5	3.6 / 3.2 / 2.3
Heat exchange system			Air to air cross flow total heat (sensible + latent heat) exchange			Air to air cross flow total heat (sensible + latent heat) exchange		
Heat exchange element			Specially processed non-flammable paper			Specially processed non-flammable paper		
Air Filter			Multidirectional fibrous fleeces			Multidirectional fibrous fleeces		
Dimensions	W x H x D	mm	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 Pipe (Internal Dia.)	mm (inch)	Ø25 (1)			Ø25 (1)		
Connection Duct Diameter		mm	Ø250			Ø250		

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

Accessories

Chassis	LZ-H050GXH4	LZ-H080GXH4	LZ-H100GXH4	LZ-H050GXN4	LZ-H080GXN4	LZ-H100GXN4
Drain Pump	-					
Cassette Cover	-					
Refrigerant Leakage Detector	PRLDNVS0					
EEV Kit	-					
Independent Power Module	-					
Robot Cleaner	-					
Pre Filter (washable / anti-fungus)	-					
Ion Generator	-					
CO_2 Sensor	AHCS100H0					
Ventilation Kit	-					
IR Receiver	-					
Zone Controller	-					
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact) PDRYCB500(Modbus)					
External Input (1 point)	○					
Wi-Fi	-					

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

CONTROL SOLUTIONS

INDIVIDUAL CONTROL / CENTRALIZED CONTROL
INTEGRATION DEVICE

LG CONTROL SOLUTIONS

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

HOTEL

Hotel Room Solution

OFFICE

Central Control Solution

3rd Party BMS

Cloud System

- Energy Management

- External Device

Integration Solution

reddot award
User Interface Design

APARTMENT

Power Distribution Solution

RESIDENTIAL

Smart Individual Control Solution

SMALL BUILDING

Small Central Control Solution

INDIVIDUAL CONTROL SOLUTIONS

FEATURE FUNCTIONS

Controller Name		Wired Remote Controller					Wireless Remote Controller	Wi-Fi Controller
		Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name								
		PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	PQWRHQ0FDB	PWFMDD200
Basic	On / Off	○	○	○	○	○	○	○
	Fan Speed Control	○	○	○	○	○	○	○
	Temperature Setting	○	○	○	○	○	○	○
	Mode Change	○	○	○	○	-	○	○
	Auto Swing	○	○	○	○	○	○	
	Vane Control (Louver Angle)	○	○	○	○	○	○	○
	E.S.P (External Static Pressure)	○	○	○	○	○	-	-
	Electric Failure Compensation	○	○	○	○	○	-	○
	Indoor Temperature Display	○	○	○	○	○	○	
	ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
Advanced	Schedule / Timer	Weekly~Yearly	Weekly~Yearly	Weekly	-	-	Sleep	Weekly
	Additional Mode Setting [1]	○	○	○	-	-	-	-
	Time Display	○	○	○	-	-	○	-
	Humid. Display	○	○	-	-	-	-	-
	Advanced Lock (mode, set point, set point range, On / Off Lock)	Advanced Lock	Advanced Lock	Mode Lock	-	-	-	-
	Filter Sign	○	○	○	-	-	-	-
	Energy Management [2]	○	○	○	-	-	-	-
	Dual Set Point	○	○	-	-	-	-	-
	Human Detection	-	○	-	-	-	-	-
	Temp, Humidity Compensation	○	○	-	-	-	-	-
	Wi-Fi AP Mode Setting	○	○	○	○	○	○	-
ETC	Operation Status LED	○	○	○	○	○	-	-
	Wireless Remote Controller Receiver	○[3]	-	○[3]	○[3]	○[3]	-	-
	Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
	Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15	51 x 153 x 26	-
	Black Light Control for Screen Saver	○	○	-	-	-	-	-

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

STANDARD II WIRED REMOTE CONTROLLER

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

PREMTB001 (White)

PREMTBB01 (Black)

Model Name	PREMTB001 / PREMTBB01
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	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	○1)
Size (W x H x D, mm)	120 x 120 x 16
Blacklight	○
Power Consumption Monitoring	○2)
Check Model Information	○

※ ○ : Applied, - : Not Applied
1) For ceiling type ducted unit
2)This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
Note : Indoor unit needs to have functions requested by the controller

Features & Benefit

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

SIMPLE WIRED REMOTE CONTROLLER

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

PQRCVCL0QW (White) / PQRCVCL0Q (Black)

PQRCHCA0QW (White) / PQRCHCA0Q (Black)

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	○1)	○1)
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	○	○

※ ○ : Applied, - : Not Applied
1) For ceiling type ducted unit
Note : Indoor unit needs to have functions requested by the controller

Features & Benefit

• Small remote control with minimal functionality

WIRELESS REMOTE CONTROLLER

PQWRHQ0FDB

Features & Benefit

• Easy to use while moving
• Main functions are available

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

※ ○ : Applied, - : Not Applied

CENTRALIZED CONTROL

CENTRALIZED CONTROLLER FEATURE LIST

Controller Name			AC Ez	AC Ez Touch	AC Smart 5[5]	ACP 5[5]	ACP Lonworks	AC Manager 5[3]
Model Name								
			PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PLNWKB000	PACM5A000
Product	DO		-	-	2	4	2	-
	DI		-	1	2	10	2	-
	Max. Connectable No.	IDUs	32	64	128	256	64	8,192
		ERV	32	64	128	256	64	-
		A/C + ERV	32	64	128	256	64	-
		AHU	-	-	16	16	16[4]	-
		Chiller	-	-	5 Optional[2]	10 Optional[2]	-	-
Compatibility	Air Conditioner		○[1]	○	○	○	○	○
	Ventilation (ERV / ERV DX)		○[2]	○	○	○	○	○
	Heating		-	○	○	○	○	○
	AHU		-	-	○	○	○	○
	Chiller		-	-	○[4]	○[4]	-	○
	ACS IO		-	-	○[4]	○[4]	○[4]	○
Additional Function	Add Drawing		-	-	○[4]	○[4]	○[4]	○
	Group Management		-	-	○[4]	○[4]	○[4]	○
	Auto Changer Over		-	○	○[4]	○[4]	○[4]	○
	Set Back		-	○	○[4]	○[4]	○[4]	○
	2 Set		-	○	○	○	○[4]	-
	Change Alarm		-	Filter	Filter	Filter	Filter	Filter
	Indoor Unit Lock		-	○	○	○	○[4]	-
	Cycle		-	-	○	○	○[4]	○
Schedule			○	○	○[4]	○[4]	○[4]	○
Auto Control	Peak Control	Priority Control	-	○	○	○	○[4]	○
		Outdoor Unit Capacity Control	-	-	○[4]	○[4]	○[4]	○
	Demand Control	Priority Control	-	-	-	-	○[4]	○
		Outdoor Unit Capacity Control	-	-	-	-	○[4]	○
	Time limit control		-	-	○[4]	○[4]	○[4]	○
	InterLocking		-	-	○[4]	○[4]	○[4]	○
Energy Navigation			-	-	○[4]	○[4]	-	○
Energy Report	Power		-	○	○	○	○[4]	○
	Gas		-	-	○	○	○[4]	○
	Run time		-	-	○[4]	○[4]	○[4]	○
	Email		-	-	○[4]	○[4]	○[4]	-
	PC / USB		-	-	○[4]	PC	PC	PC
Trend Reporting			-	-	-	-	-	○
History	Report (Control / Error)		-	Error	○[4]	○[4]	○[4]	○
	Send Email		-	-	○[4]	○[4]	○[4]	○
	Save to PC / USB		-	-	○[4]	○[4]	○[4]	PC
etc	Summer Time		-	○	○[4]	○[4]	○[4]	-
	Outdoor Unit Oil-Return Operation		-	-	○[4]	○[4]	○[4]	-
	User Authority		-	Password	○[4]	○[4]	○[4]	○
	PC Access		-	○	○[4]	○[4]	○[4]	○

※ ○ : Applied, - : Not Applied
1) Except for some feature (individual lock, limit, temp., etc.)
2) Except for some feature (user mode, additional function, etc)
3) ACP 5 or AC Smart 5 is required
4) This function is possible to use in Web Only (BMS Point is not applied)
5) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS

AC EZ TOUCH

Smart management with 5 inch touch screen for small site.

PACEZA000

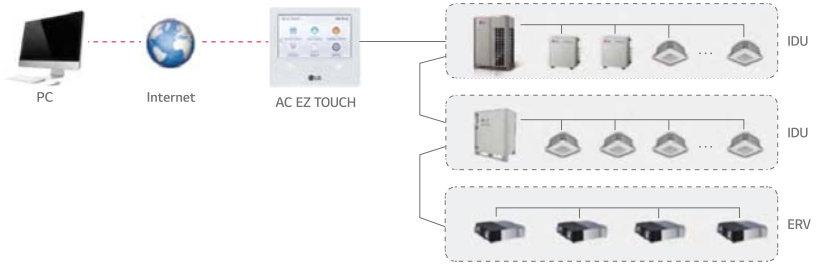
Model Name	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / Hydro kit / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	○
Slave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

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

Features & Benefit

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

Overview



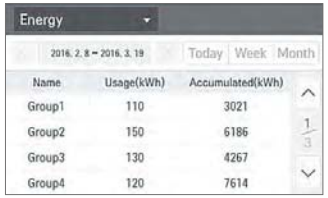
Feature

PC Access

Users can control each space efficiently through PC access.

Energy Statistics (with PDI)

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



Energy Mode

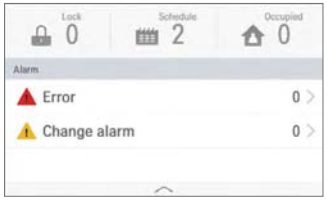
When using energy mode function, operation mode changes from cooling to fan or heating to off mode by force. (It is available only 'on' mode indoor unit)

Schedule

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

Alarm Indicator

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



Group / Individual Control

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

AC EZ

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

PQCSZ250S0

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

※ ○ : Applied, - : Not Applied

Features & Benefit

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

AC SMART 5

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

PACS5A000

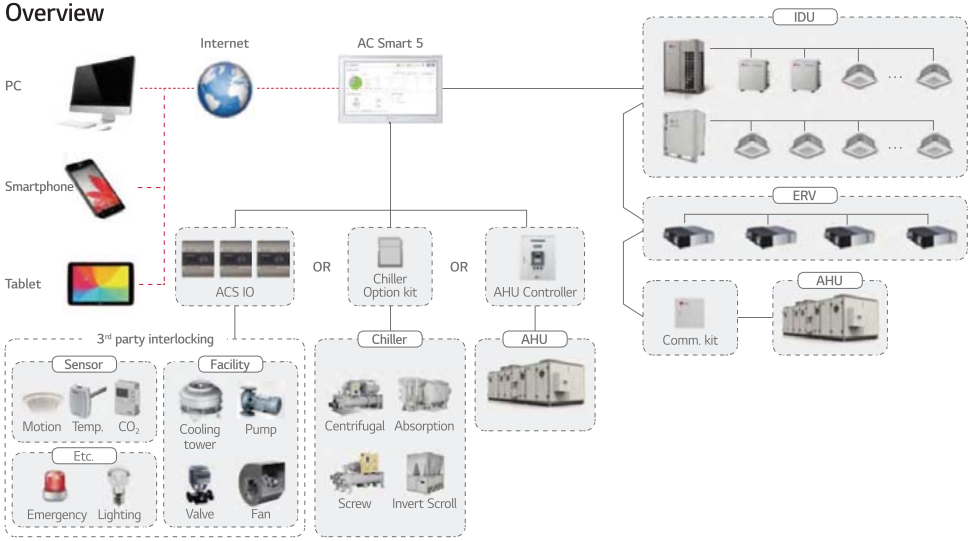
Features & Benefit

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

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

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLLN000) is required
2) It is only available in some products
3) For the detail point list, please refer to the installation manual

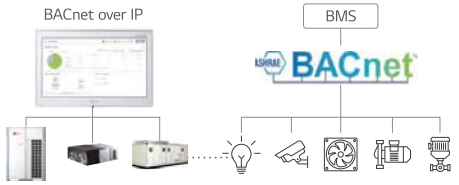
Overview



Feature

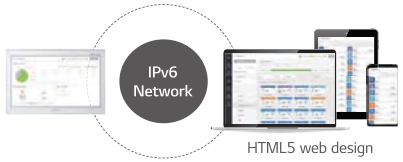
BMS Integration

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



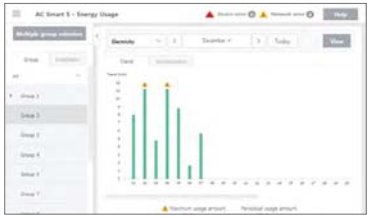
Advanced Network Accessibility

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



Energy Management / Operation Trend

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

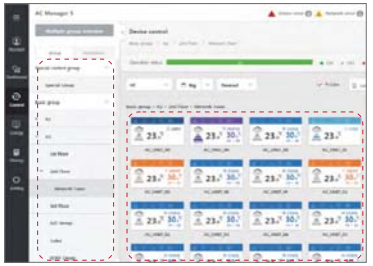


Visualized Control

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

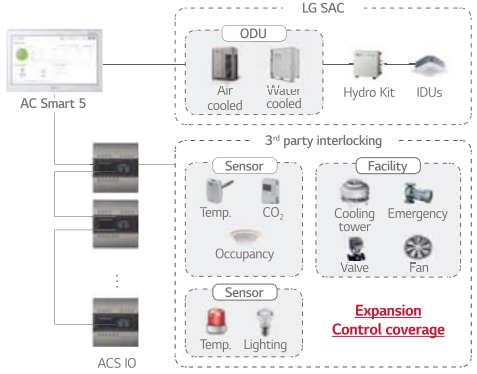
Multi Level Group Composition

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



Interlocking with 3rd party equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module. Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches···)



ACP 5

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

PACP5A000

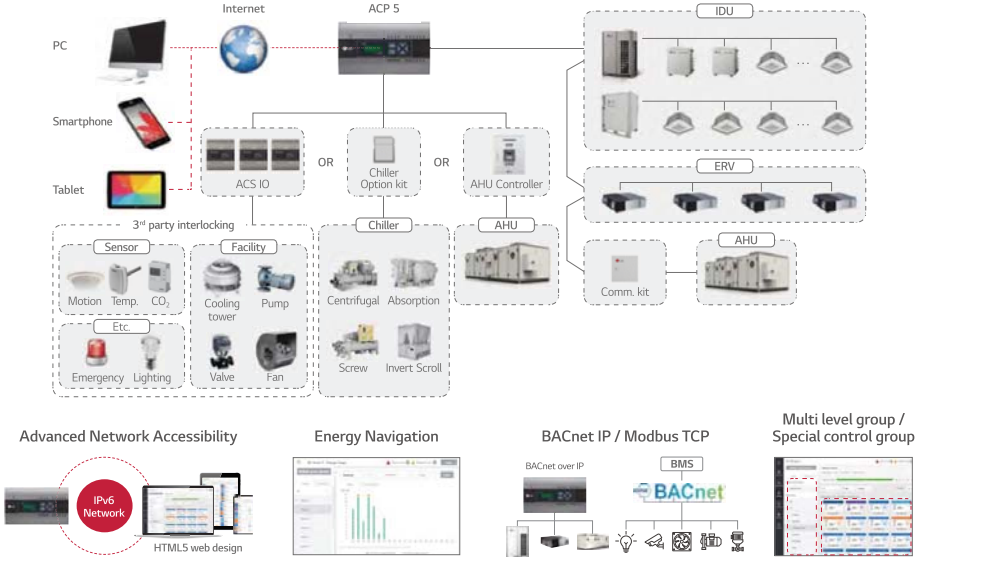
Features & Benefit

• The central controller allows control of the LG HVAC system to various platforms. (PC, Smartphone, Tablet)
- DI :10 / DO : 4
- Max. 256 IDU control
- BACnet/IP and Modbus/TCP
- Schedule
- Map View (Visual Navigation)
- Time limit control / Auto change over
- Energy monitoring
- History / Operation Trend
- Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
- Multi level grouping
- Emergency stop & alarm
- Error alarm by E-mail

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

※ ○ : Applied, - : Not Applied
1) Chiller Option Kit (PCHLLN000) is required
2) It is only available in some products
3) For the detail point list, please refer to the installation manual

Overview



ACP LONWORKS GATEWAY

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

PLNWKB000

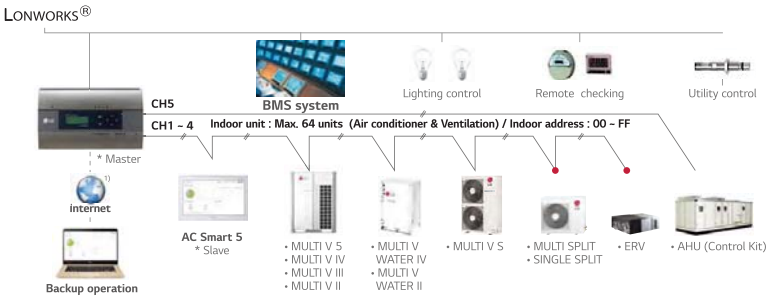
Features & Benefit

• Connect to use Lonworks® protocol and LG air conditioner protocol.
• Process Ability (Max. connection) : Indoor unit 64EA, AHU Control Kit : Max. 16EA
• Self installation verification using interne (Web Server Included)
  - Diagnosis of communication status on LG Air-conditioner network
• It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.

Control	Monitoring
On / Off Command	On / Off
Operation Mode Setting	Operation Mode
Lock	Lock
Temperature	Temperature
Fan Level	Fan Level
Fan Direction Auto	Fan Direction Auto
Mode Lock	Mode Lock
Fan Level Lock	Fan Level Lock
Temperature Lock	Temperature Lock
Temperature Lower Limit	Temperature Lower Limit
Temperature Higher Limit	Temperature Higher Limit
Peak Convert Cycle	Peak Convert Cycle
Peak Setting	Peak Setting
Temperature Unit	Temperature Unit
Total Temperature Lock	-
Total On / Off	-
Total Temperature	-
-	Product Type
-	Product Address
-	Current Temperature
-	Alarm
-	Power
-	Error Code
-	Peak Current Operating Percent
-	Total Accumulate Power

※ ○ : Applied, - : Not Applied

Overview



1) Assignment of public IP address is required to access central controller through internet. ● Appropriate PI 485 should be used according to PDB (Product Data Book)

PI 485

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

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

PHNFP14A0

AC MANAGER 5

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

reddot award
User Interface Design

PACM5A000

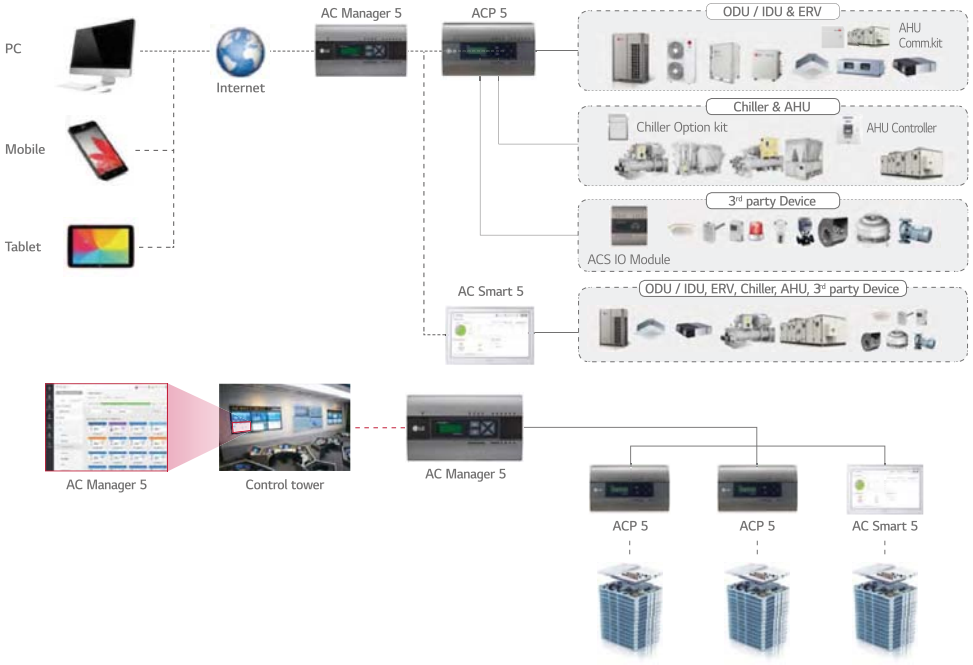
Features & Benefit

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

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

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

Overview



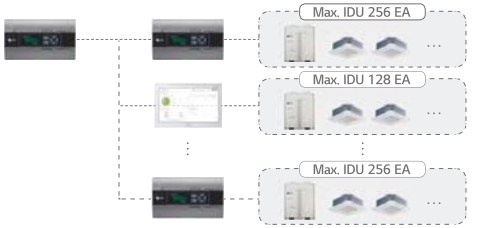
Feature

Stand-alone

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

Up to 8,192 Connections for Indoor Units

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



Advanced Network Accessibility & User Friendly GUI (reddot award)

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

Energy Navigation & Energy Usage Trend

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

Peak Control

This function can reduce electricity use. There are two kinds of control logic. Energy saving effect by indoor unit operation rate control. Load management effect by outdoor unit capacity control.

Multi Level Group Composition

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

Communication Kit Function

Communication with DDC via Contact Signal

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

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

Communication with DDC via Modbus protocol

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

※ ○ : Applied, - : Not Applied
1) Available operation mode can be varied depending on the setting of Communication Kit
2) To control the fan speed using Modbus, DO ports for the status of fan speed needs to be connected with the fan unit
Note : For the Modbus memory map, pleases refer to the product data book

Communication Kit Function

With LG Control system (Individual & Centralized Controller)

Function List		PAHCMR000	PAHCMS000	Note
Control*	Comm. Kit Operation	On / Off	On / Off	-
	Operation Mode 1)	Cooling / Heating	Cooling / Heating	-
	Return (room) Air Temperature	16~30°C	-	-
	Discharge Air Temperature 2)	-	16 ~ 30°C	-
	Fan Speed 3)	Low / Middle / High	-	-
	Forced Thermal On / Off	-	-	-
	Capacity Control	-	-	-
Monitor	Comm. Kit Operation	On / Off	On / Off	-
	Operation Mode 1)	Cooling / Heating	Cooling / Heating	-
	Return (room) Air Temperature	11~39.5°C / -50~100°C	-	By Individual controller : 11 ~ 39.5°C By Centralized controller : -50 ~ 100°C
	Discharge Air Temperature	-	-50 ~ 100°C	Only with Centralized Controller
	Fan Speed 3)	Low / Middle / High	-	-
	Defrost Operation	On / Off	On / Off	Only with Individual Controller
	Error Alarm	Error Code	Error Code	-
	Compressor On / Off	On / Off	On / Off	Only with Individual Controller

※ ○ : Applied, - : Not Applied
1) Available operation mode can be varied depending on the setting of Communication Kit. For more details, please refer to the product data book
2) This range may differ depending on the type of controller
3) To control the fan speed using contact signal, DO ports for the status of fan speed needs to be connected with the fan unit
Note : Control function is unavailable in case of using together with DDC via contact signal

Compatibility with LG HVAC Controllers

Controller	Individual Controller			Centralized Controller					BMS Gateway	PDI
	Premium	Standard III	Standard II	AC Ez	AC Ez Touch	AC Smart 5	ACP 5	AC Manager 5 1)	ACP Lonworks	Premium Standard
										
Model no.	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001	PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PACM5A000	PLNWKB000	PQNUD1S40 PPWRDB000
PAHCMR000	○	○	○	○	○	○	○	○	○	○
PAHCMS000	-	-	○2)	-	-	○	○	○	-	-

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

AHU KITS

Communication Kit Function

Outdoor Unit Compatibility

Multi V

Model		MULTI V				MULTI V WATER		
		5	IV	III	S	IV	II	S
AHU Controller	PAHCMR000	○	○	○	○	○	○	○
	PAHCMS000	○	○	○	○	○	○	-

Single Split

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

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

※ ○ : Applied, - : Not Applied

Note : 1. Table of the outdoor unit compatibility is based on European regional model.
2. When connecting outdoor units in other areas, please check whether they are compatible or not.

Expansion valves for MULTI V system

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

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

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

Control Kit

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

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

Field Supplied Item

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

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

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