



#### NEW SOUTH WALES / HEAD OFFICE

2 Wonderland Drive EASTERN CREEK NSW 2766

PH : 02-8805-4000 FAX : 02-8805-4248

#### QUEENSLAND

23 Terrace Place MURARRIE QLD 4172

PH : 07-3908-9000 FAX : 07-3399-4179

#### VICTORIA

3 John Deere Court, Parkwest Estate DERRIMUT VIC 3030

PH : 03-8369-0900 FAX : 03-9931-0677

#### SOUTH AUSTRALIA

91 Transport Avenue NETLEY SA 5037

PH : 08-8238-0200 FAX : 08-8238-0299

#### WESTERN AUSTRALIA

Unit 1/1A 2 Business Way Malaga

PO Box 1724 Malaga WA 6944

PH : 08-9249-3721 FAX : 08-9249-1300

Customer Information Centre is available 7 days  
from 7AM-7PM on 1300 54 2273 (1300 LG CARE)

<http://www.lg.com/au>

#### NEW ZEALAND

LG Electronics Australia Pty. Ltd. New Zealand Branch

LG House, Level 1, 60 Highbrook Drive, East Tamaki,

Auckland, 2013, New Zealand

Office : (09) 914 2444

Fax : (09) 914 2441

Customer Service Helpline is available from 9AM-9PM on  
0800 54 2273 (0800 LG CARE)

<http://www.lg.com/nz>

## LG HVAC SOLUTION

# MULTI V™ IV



MULTI V™ IV

Development Philosophy

LG Air Conditioning and Energy Solution (AE) company's primary goal is to 'vitalizing every environment' around the globe – from private residences to commercial buildings and shared communal spaces. To make this a reality, the company has developed a comprehensive range of innovative heating, ventilation and air conditioning (HVAC) products as well as state-of-the-art energy solutions. One such product is the advanced MULTI V [IV] variable refrigerant flow (VRF), which delivers incredible performance and energy efficiency through a number of proprietary LG technologies.

VRF solutions are widely considered to be among the most versatile and powerful system air conditioners available. Providing exceptional comfort, energy efficiency and reliability, They are highly regarded by building managers, business operators and HVAC engineers. The latest model VRF solutions boast a number of other tangible benefits too, including cost effectiveness and easier installation.

Thanks to significant advancements in HVAC technologies the LG Multi V VRF system is now able to offer unmatched performance capabilities along with reduced energy consumption. Nevertheless, LG continues to focus on

further improving operational efficiency. Through close observation, testing, analysis and extensive R&D, LG has been able to maximise operation efficiency. The results of this endeavor can clearly be seen in the company's finest achievement to date, new MULTI V [IV]. Going 'Beyond Your Standards,' the groundbreaking VRF system possesses all of the strengths without of the weaknesses in other VRF systems.

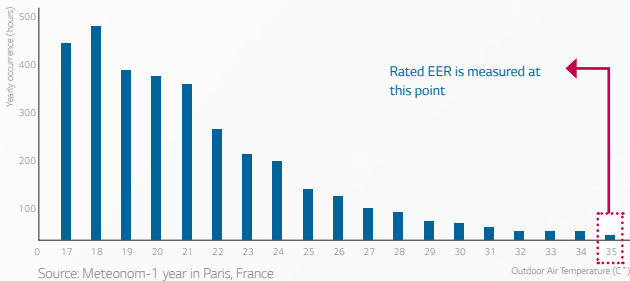
One of LG's firmly held beliefs is that in order to be the very best, one must offer the very best. Equipped with world-first technologies and offering performance, MULTI V [IV] has earned it's place among the very best VRF system the market.

Importance of Seasonal Efficiency

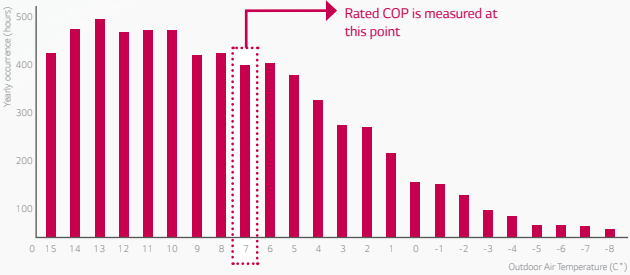
As a measurement index, rated EER or rated COP is limited in value, as it only measures power input in comparison with power output and is tested under european conditions. However, seasonal efficiency, which is based on EUROVENT standards, provides a more realistic determination of performance. This system measures the ratio of cooling output to energy consumption over the course of a given season, taking varying temperatures into account for greater accuracy. One reason that VRF system is able to

achieve a higher seasonal efficiency than conventional system is that it is more efficient in part load conditions. HVAC systems generally operate in part load 98% of the time, typically situated between 40-80% of maximum output. This is what has made improving part load efficiency such a high priority for the air conditioning industry.

Operating Hour for Cooling

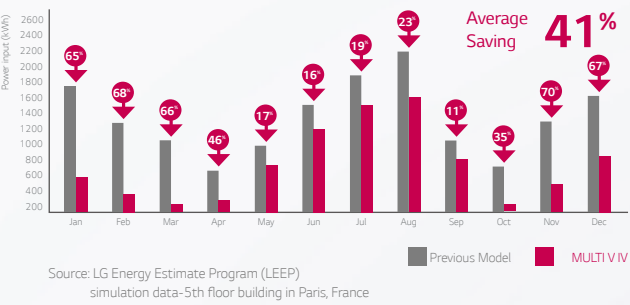


Operating Hour for Heating



World's First Class Seasonal Efficiency

MULTI V [IV] is up to 40% more efficient in part load conditions than previous model. The operational benefits of LG's MULTI V IV have been proven through rigorous testing. When connected with our wide variety of types and sizes of indoor units, MULTI V [IV] scored higher energy efficiency marks than conventional systems.



-

20%

Primary Energy Consumption

-

20%

Greenhouse Gas Emissions

+

20%

Sharing of Renewable Energy

By the year

2020



# 4th Generation



The operational efficiency of VRF system is determined by its compressor, heat exchanger, oil and refrigerant technologies, sometimes referred to as the ‘four key elements.’ LG is dedicated to maximising the energy efficiency of its MULTI V solutions by locating and minimising ‘hidden loss.’ The result of heavy investment and extensive R&D, LGE’s own technologies, including High Pressure Oil Return (HiPOR™), Active Refrigerant Control, Smart Oil Return and the Variable Heat Exchanger Circuit, maximises operating efficiency of the product and reduces the occurrence of energy loss.

The fourth generation inverter compressor which places MULTI V [IV] as the fourth generation LGE VRF system. And with breakthroughs in the

four key areas of VRF technology, MULTI V [IV]. Providing more than just an impressive energy efficiency ratio, the integrated part-load efficiency or the innovative functions, MULTI V [IV] is not only entirely new but far superior to its predecessor, MULTI V III.

LG is proud to introduce to it’s customers all around the world to its latest system air conditioning solution, MULTI V [IV]. This groundbreaking product is the embodiment of the company’s consistent commitment to excellence and technological innovation.

# LG HVAC SOLUTION INDEX



## OUTDOOR UNITS

004 **MULTI V™ IV**

## INDOOR UNITS

- 042 **Wall Mounted**
- 045 **Ceiling Concealed Ducts**
- 046 **Ceiling Cassettes**
- 048 **Ceiling & Floor / Ceiling Suspended**
- 049 **Floor Standing**
- 050 **Fresh Air Intake Unit**

## ECO V

076 **eco V**

## ACCESSORIES

- 086 **Air conditioner Control System**
- 124 **Mechanical Accessories**
- 131 **Piping Accessories**





# MULTI V™ IV

## OUTDOOR UNIT LINE UP

### MULTI V™ IV HEAT PUMP / HEAT RECOVERY



8, 10, 12 Class



14, 16, 18, 20 Class



22, 24 Class



26, 28, 30, 32 Class



34, 36, 38, 40 Class



42, 44, 46, 48, 50, 52 Class



54, 56, 58, 60 Class

## OUTDOOR UNITS

### MULTI V™ series

MULTI V series offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design.



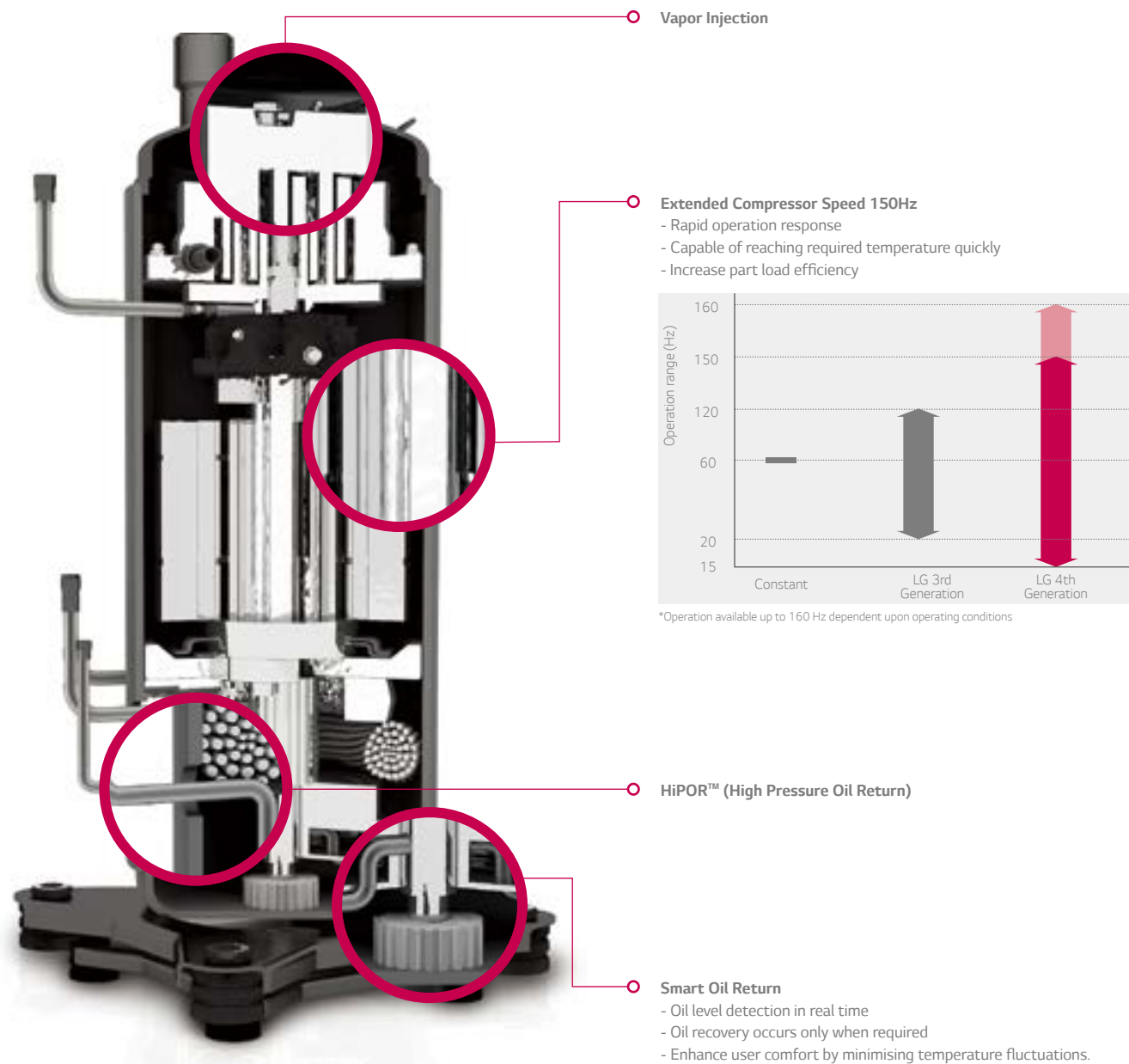
# EXCEPTIONAL EFFICIENCY

World's First Class, Rated and Part Load Efficiency

HEAT PUMP SERIES

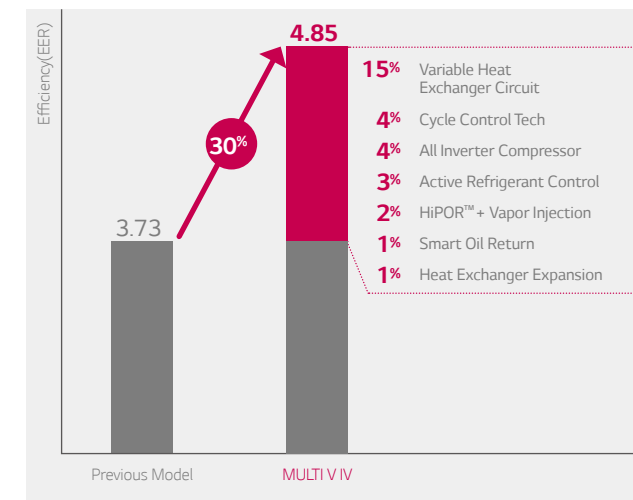
## LG's 4<sup>th</sup> Generation Inverter Compressor

The new High-Side Shell (HSS) scroll inverter compressor and BLDC concentration motor coil optimizes part load efficiency, with the 50% reduction in weight and increase in high-frequency operation of 120Hz to 150Hz.



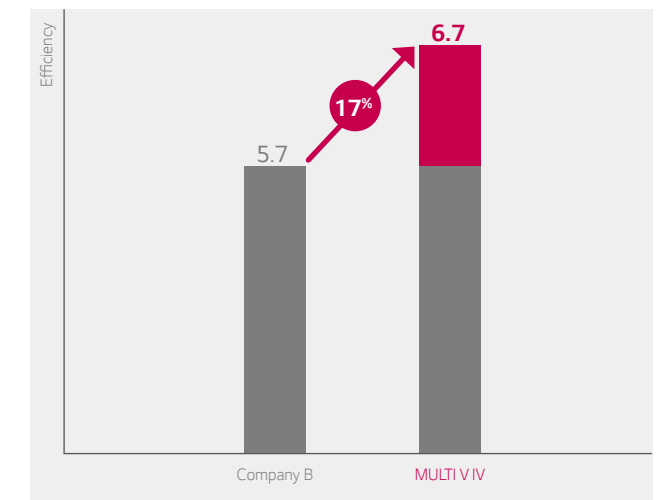
## World's First Class, Rated and Part Load Efficiency

### Rated Efficiency



\* Comparison between 20HP in cooling mode

### Part Load Efficiency



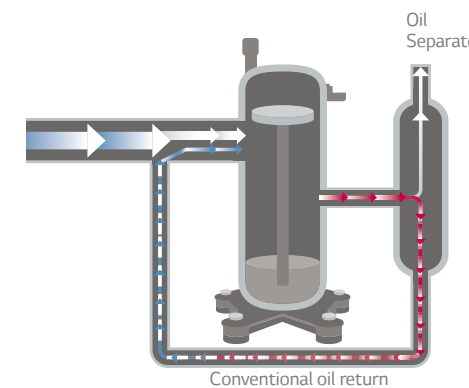
\* Comparison between 20HP in cooling mode, part load efficiency based on internal test data

## HiPOR™ (High Pressure Oil Return)

HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant circuit, minimising energy losses.

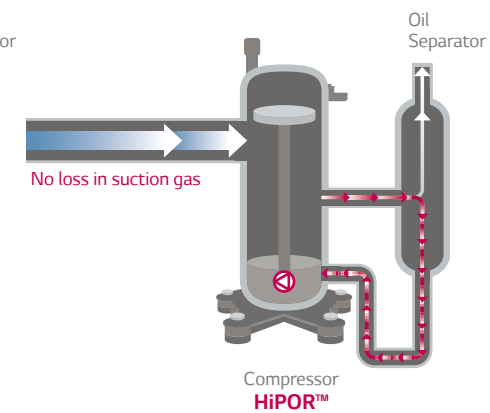
### Conventional

Loss of low pressure refrigerant to the extent of the oil volume returned by the refrigerant pipe.

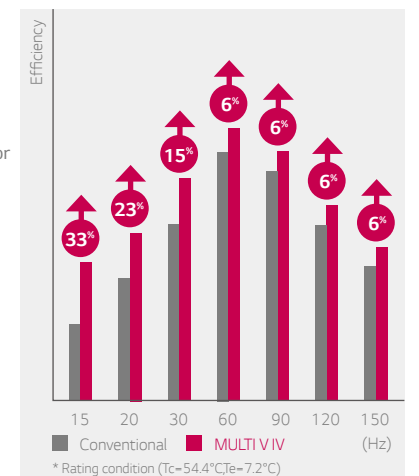


### MULTI V IV

Maximizing reliability and efficiency of the compressor by reducing high pressure refrigerant loss.



### Efficiency Comparison

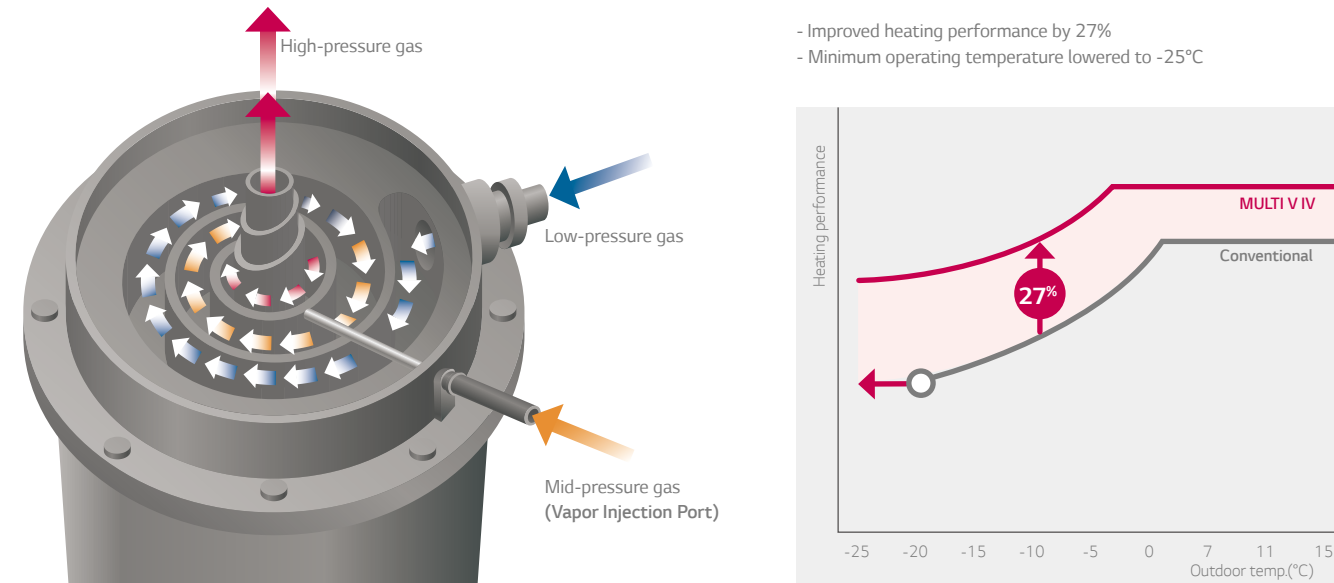


## EXCEPTIONAL EFFICIENCY

World's First Class, Rated and Part Load Efficiency

### Vapor Injection

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



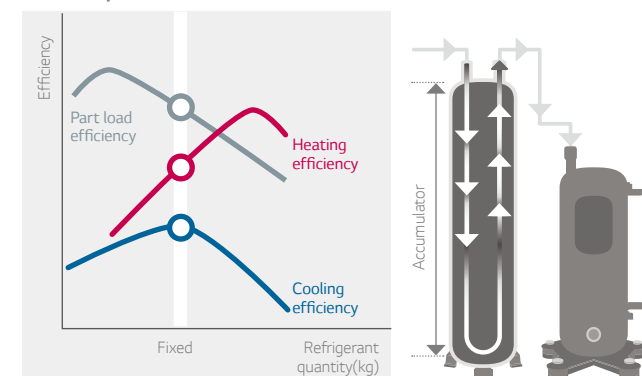
### Active Refrigerant Control

Active Refrigerant Control automatically controls the level of liquid refrigerant amount to maximise efficiency.

#### Conventional

Regardless of operation mode in a conventional VRF system a fixed amount of refrigerant is available which limits optimal efficiency of each modes operating.

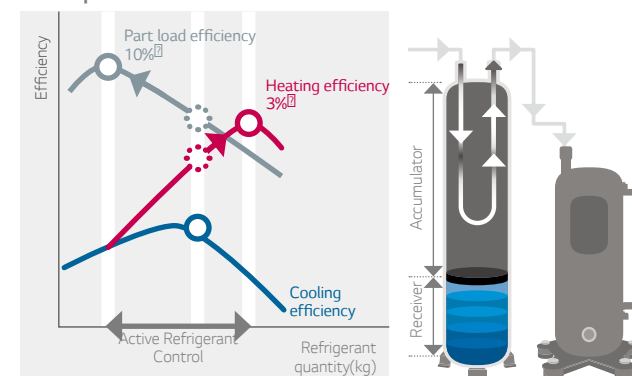
Fixed refrigerant Volume  
Compromises efficiency  
for each operation



#### MULTI V IV

In MULTI V [IV] Active Refrigerant Control automatically monitors and adjusts the volume of circulating refrigerant for each cycle cooling or heating. This precise, five-step control leads to an improvement in energy efficiency, for cooling or heating whether part on full load operation.

Maximizing efficiency  
for all operations

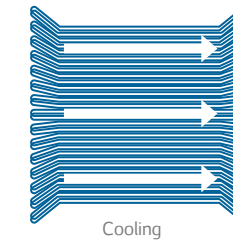


### Variable Heat Exchanger Circuit

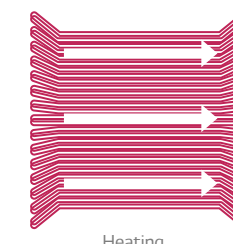
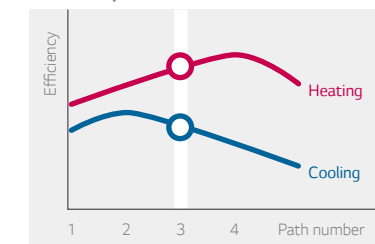
Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling.

#### Conventional

In conventional systems the number and direction of paths are fixed independent of temperature and operation mode. A fixed path limits efficiency.

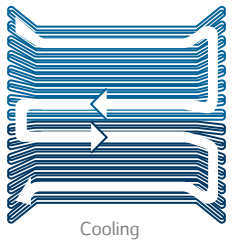


Fixed paths  
Compromises efficiency  
for each operation

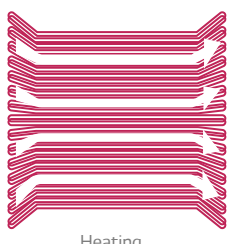
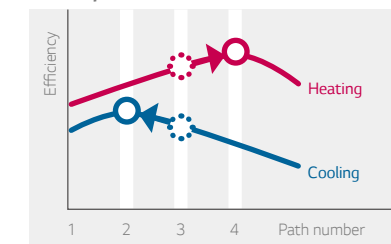


#### MULTI V IV

In MULTI V [IV] variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing to an increase in energy efficiency



Variable heat exchange circuit  
Maximises efficiency  
for all operations

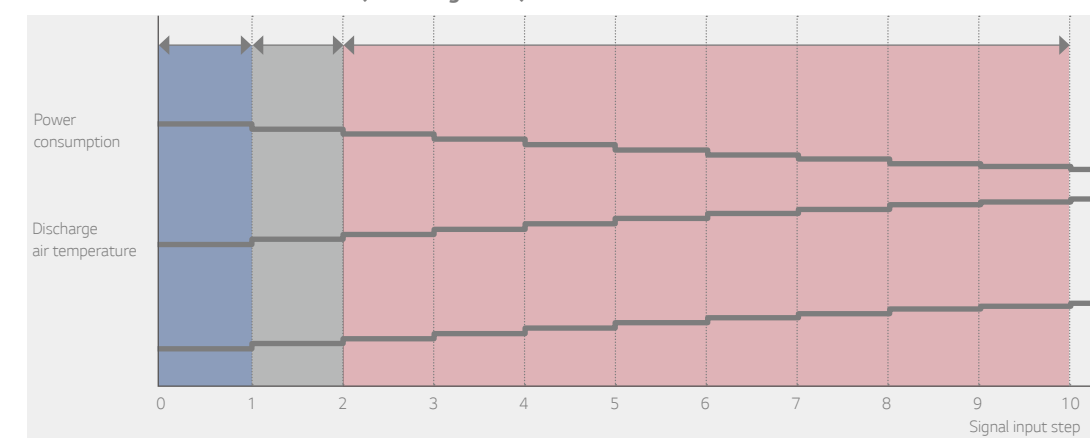


### Flexible Capacity Control

It is possible for the Designer, Consultant or Buildings owner to control heating & cooling performance and save energy through outdoor capacity control.

- 5 Basic steps capacity control
- 10 steps control is possible with IO(Input & Output) module (option)
- Up to 40% input power reduction through energy saving operation

#### Demand control with IO module (In cooling mode)



\* Reduction rate varies upon site conditions

\*\* It will be available at the end of 2013

\*\*\* IO module also provides silent operation during night time, IDU/ODU alarm operation, error alarm and low ambient control

## OUTSTANDING PERFORMANCE

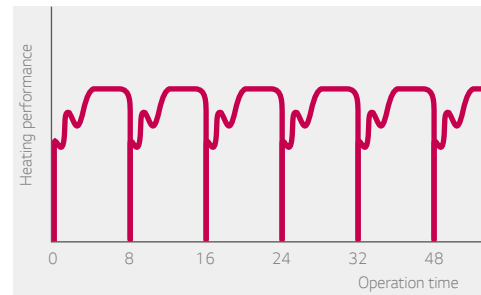
On the Leading Edge of Innovation with Powerful Heating and Cooling Performance

### Smart Oil Return

World first technology, which enhances system and compressor reliability, optimizes efficiency by checking compressor oil level with sensor in Real Time.

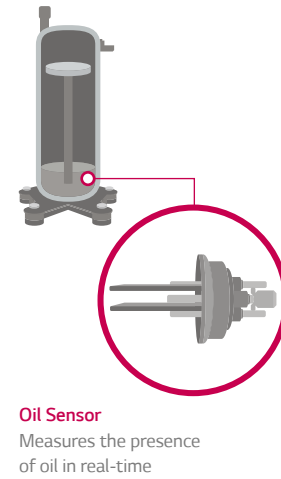
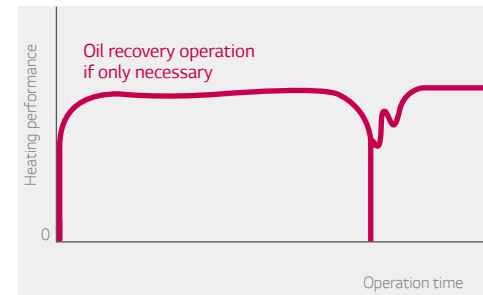
#### Conventional VRF

- Periodic oil recovery operation (every 8hr) is required as compressor oil level sensing technology is not present limiting continuous operation.
- During oil recovery operation, heating operation must be paused and total performance and operation is reduced. Noise caused by oil recovery operation



#### MULTI V [IV]

- Precise sensor monitors oil levels in Real Time performing recovery only when necessary
- An oil balancing and return algorithm works in tandem with the sensor to reduce power consumption, decrease energy wastage
- Oil recovery noise happens less often.

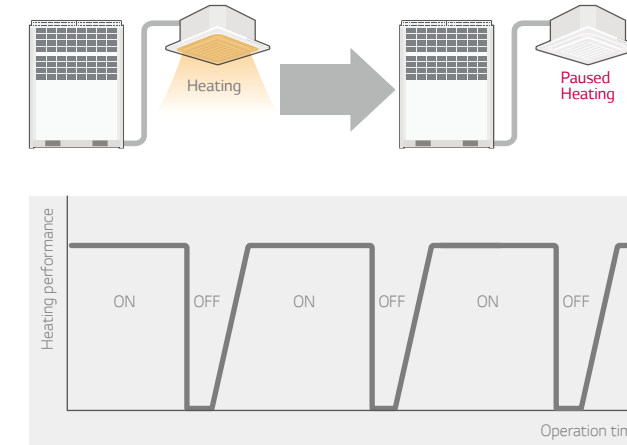


### Continuous Heating Operation in Defrost

MULTI V [IV] uses the split-defrost technology for continuous heating operation, which provides consistent heating for the indoor environment to improve both heating capacity and indoor comfort.

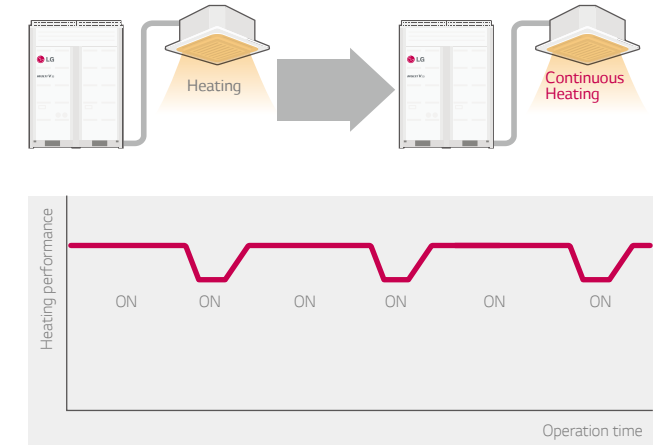
#### Conventional VRF

Heating stops during defrosting operation.



#### MULTI V [IV]

Continuous heating during part load defrosting operation.

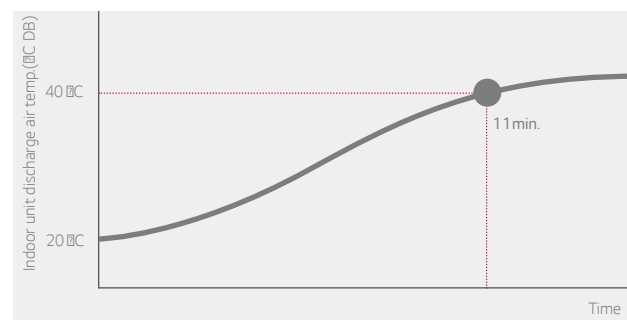
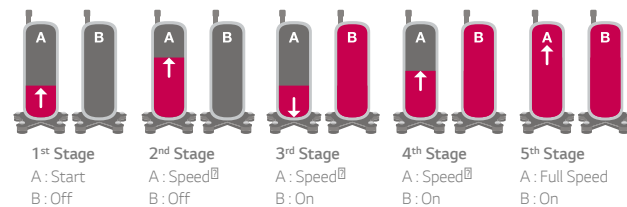


\* Continuous heating operation can be switched to existing defrost mode depending on environmental conditions.

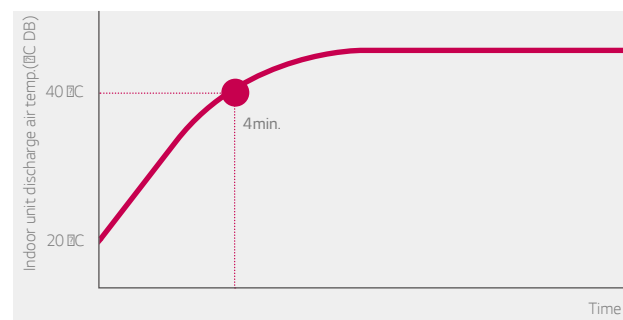
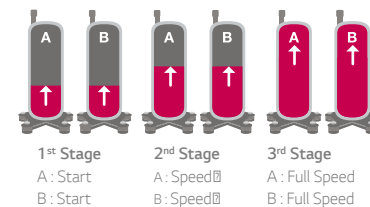
### Faster Heating and Cooling via Advanced Inverter Technology

In conventional models, inverter compressor and on/off compressor operate one by one, which taking far longer to reach maximum capacity. Thanks to LG's all inverter compressor system and high performance cycle design, MULTI V [IV] delivers faster cooling or heating by operating two inverter compressors simultaneously.

#### Conventional



#### MULTI V [IV]



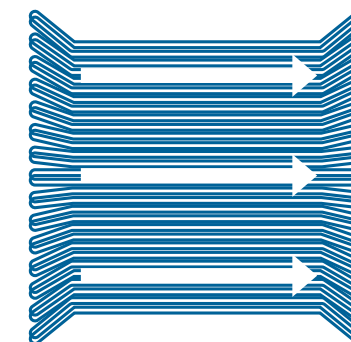
\* Condition : Standard heating mode (Ambient air temp. 7°C, Indoor temp. 20°C)

### Cooling Operation Range Down to -10°C

LG has expanded the MULTI V [IV] operating temperature range for continuous cooling from -5°C (23°F) to -10°C (14°F) to provide a better solution for zones that require four seasons cooling.

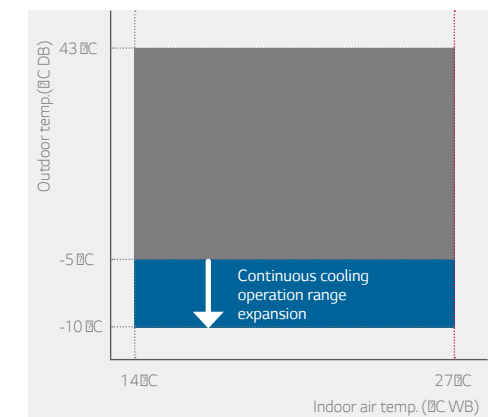
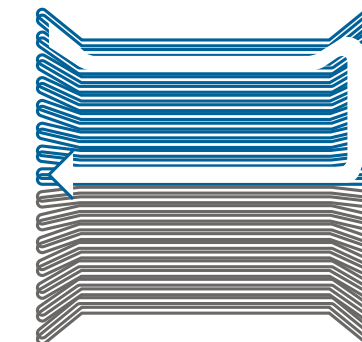
#### Conventional VRF

- Only allowed to use entire surface of heat exchanger which result into extremely low pressure
- Cooling operation range limited to -5°C and above



#### MULTI V [IV]

- Optimal low pressure by using part load surface of the heat exchanger
- Cooling operation range expanded to -10°C





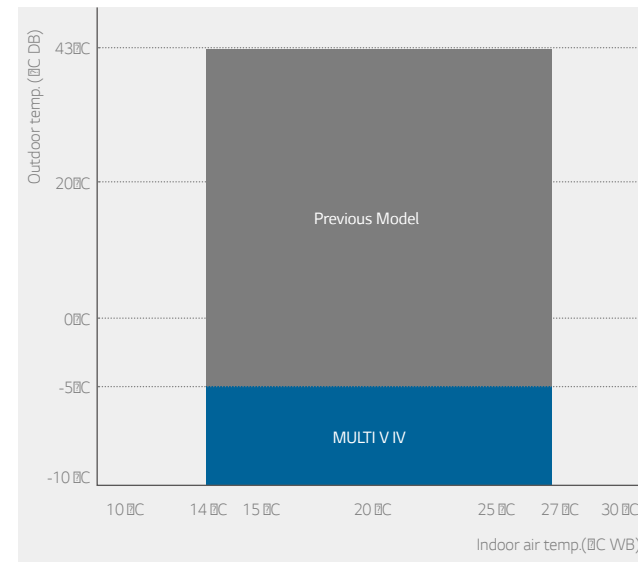
## OUTSTANDING PERFORMANCE

On the Leading Edge of Innovation with Powerful Heating and Cooling Performance

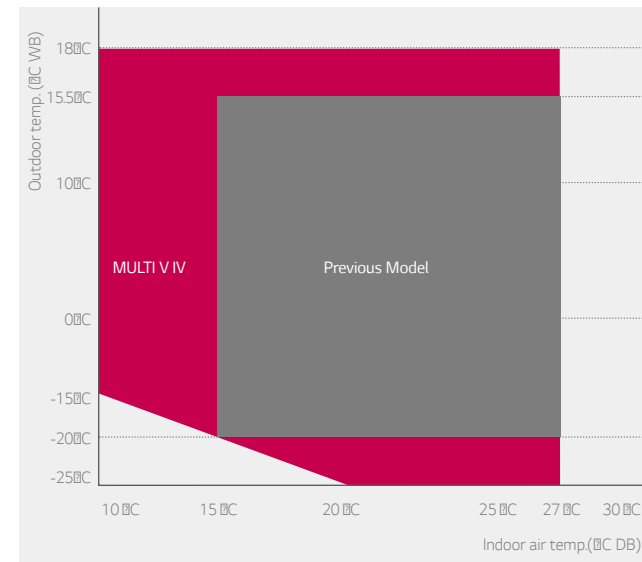
### Wide Operation Range

MULTI V [IV] extended range of continuous cooling and heating operation through enhanced inverter compressor and control technology.

#### Cooling



#### Heating



### Fan with Less Noise and Higher Air Volume

Cannon fan is applied with optimized shape of shroud, increasing air volume and decreasing noise level down to 4dB(A) compared to the previous value.

#### Cannon Fan

Minimized vortex and exfoliation provides high air volume, low noise level and high efficiency



- Sinusoidal leading edge**  
Low noise level with sinusoidal chord distribution (4dB(A) decreased)
- Grooved suction surface**  
Exfoliation of surface
- Tip vortex suppressor**  
Winglet technology applied for efficiency

## DESIGN FLEXIBILITY

Easy Design with Convenient Features

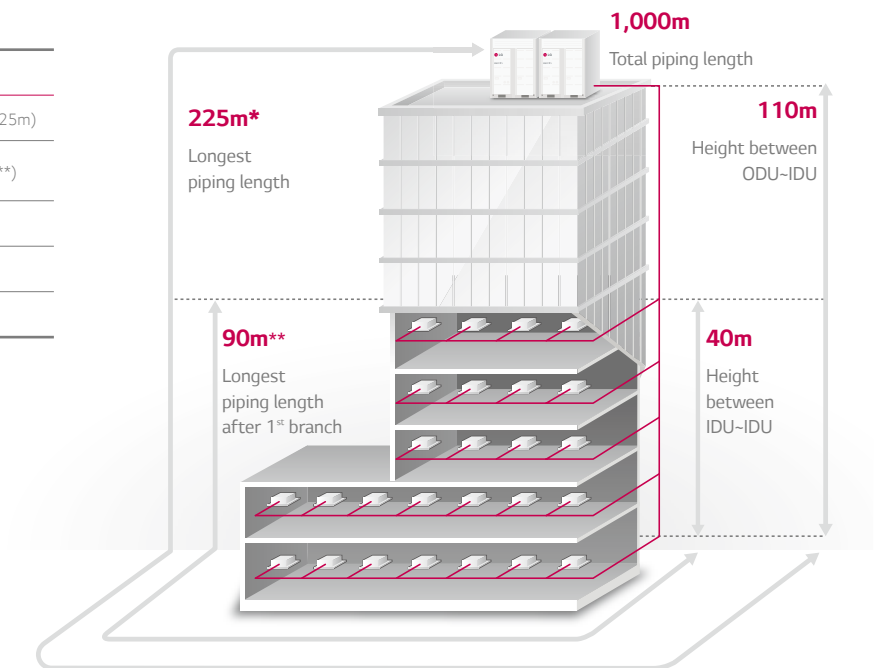
### Expanded Piping Capabilities

MULTI V [IV] inverter technology and subcooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a high-rise building or complex facilities, reducing the designer's work time and providing more efficient design.

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| Total piping length                                                          | 1,000m        |
| Actual longest piping length** (Equivalent)                                  | 200m** (225m) |
| Longest piping length after 1 <sup>st</sup> branch (Conditional application) | 40m (90m**)   |
| Height between ODU-IDU                                                       | 110m          |
| Height between IDU-IDU                                                       | 40m           |
| Height between ODU-ODU                                                       | 5m            |

ODU : Outdoor unit  
IDU : Indoor unit

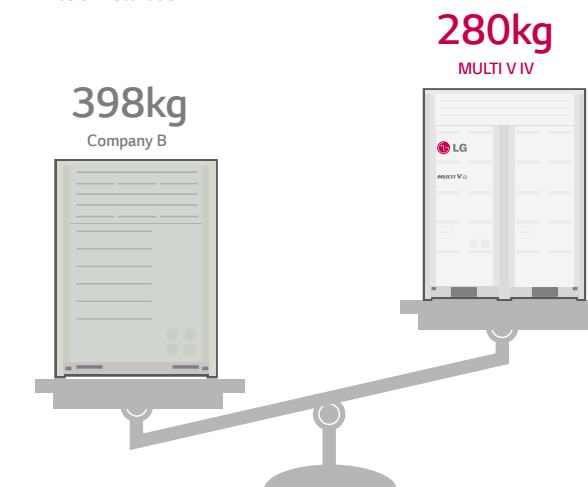
\*\* Conditional application. See product data book.



### Light Weight Outdoor Units

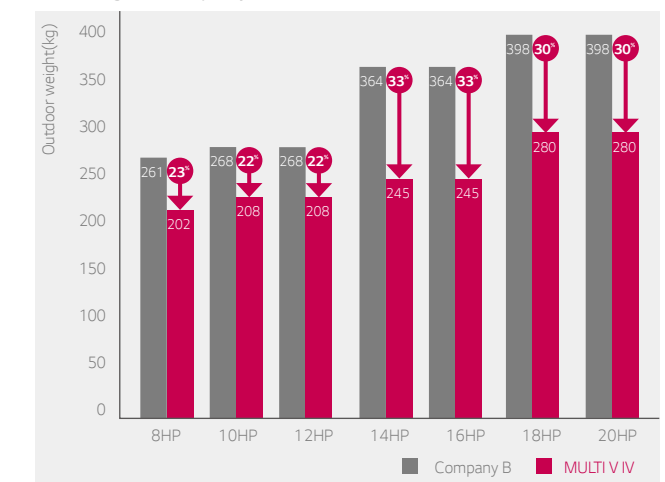
#### 30% lighter weight

- Less pressure on the roof
- Easier installation



#### Weight Comparison Table

- Less weight in all capacity

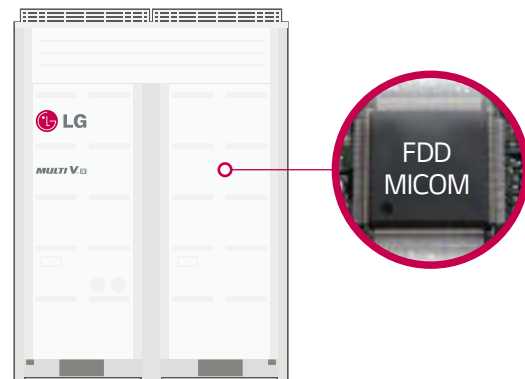


## CYCLE & SERVICE OPTIMIZATION

Easy and Reliable, LG Introduces the Self-regulating Heating and Air Conditioning System.

### Upgraded FDD (Fault Detection & Diagnosis)

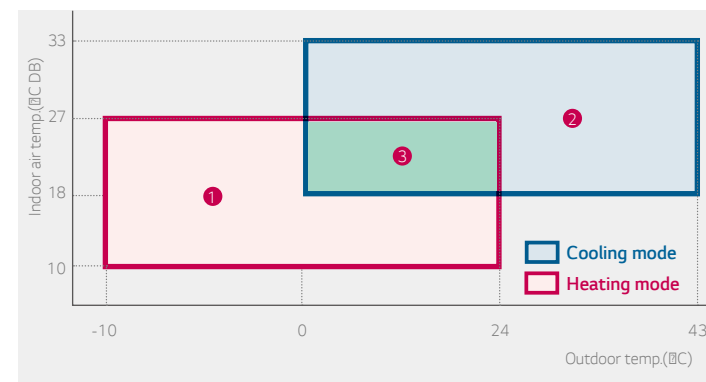
Newly upgraded FDD features provide the optimal solution for user reliability and easy maintenance.



- Start up time is reduced (60min → 45min)
- LGMV (LG Monitoring View) through a smartphone. See opposite.
- Piping & wiring error checking
- Auto start-up mode / reporting
- Black box function
- Simultaneous diagnosis
- Auto refrigerant quantity evaluation and charge
- Heating and cooling refrigerant quantity decision

#### New Refrigerant Quantity Decision Feature

LG MULTI V IV is the first VRF that has a Heating and Cooling mode start up function which permits whole year start up as well as refrigerant quantity evaluation

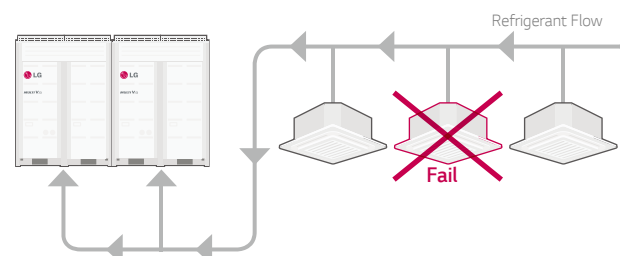


- 1 Refrigerant quantity evaluation during heating Operation
- 2 Refrigerant quantity evaluation during cooling Operation
- 3 Refrigerant quantity evaluation during cooling and heating Operation

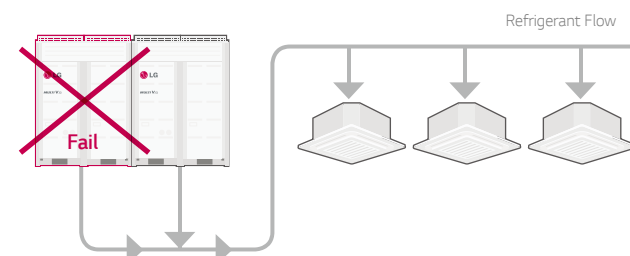
### Auto Refrigerant Collection

In case of an indoor or outdoor unit replacement for service, refrigerant from entire system is transferred to the outdoor unit by pumping down and releasing back to the system by pumping out for ease of maintenance and service.

#### Pump down



#### Pump out



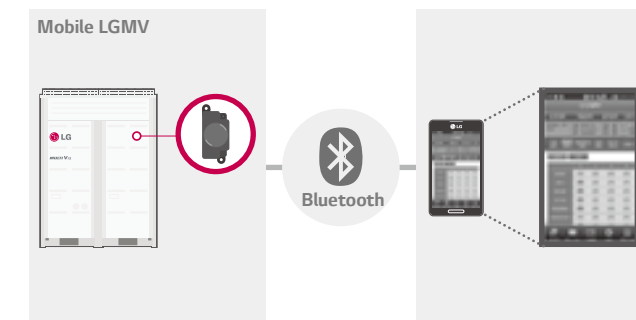
## CYCLE & SERVICE OPTIMIZATION

Easy and Reliable, LG Introduces the Self-regulating Heating and Air Conditioning System.

### Smartphone Monitoring & Control

#### Mobile LGMV (LG Monitoring View)

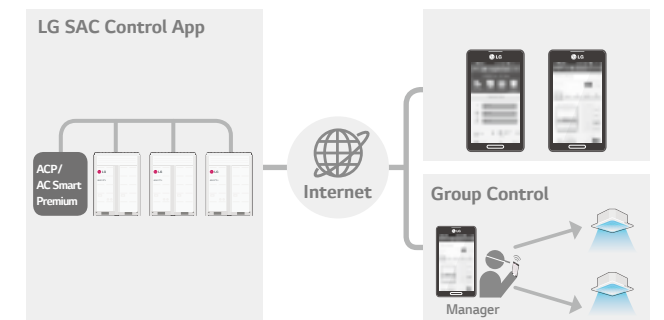
- Mobile LGMV helps technician to monitor and control the MULTI V IV system using Bluetooth connection. Technicians can check LGMV data 10m away from MULTI V IV outdoor with smartphone.



\* Connection type : Bluetooth  
To use Mobile LGMV application, exclusive Bluetooth module is required.

#### LG SAC (System Air-conditioning) Control App.

Central Controller (ACP (Advanced Control Platform) / AC Smart Premium) provides smartphone monitoring and control function for users. Group control is available via smartphone.



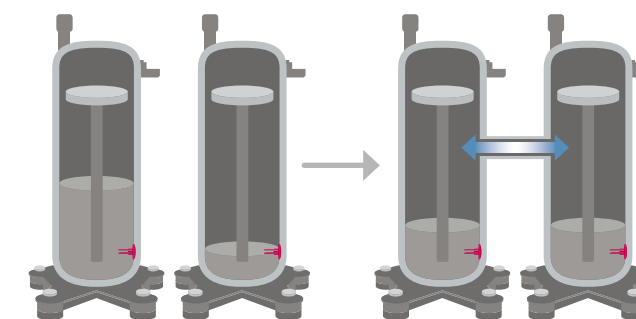
\* Available from Oct 2013  
Bluetooth module can be installed on the main board of the outdoor unit.

| Smartphone specification                                                                                    |                                                                                                                                                                                                                 |                                                                                                                | Effective communication distance of Bluetooth                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic specification                                                                                         | Recommended specification                                                                                                                                                                                       | Exception                                                                                                      |                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>- Android OS 2.2</li> <li>- CPU 1 GHz</li> <li>- RAM 1 GB</li> </ul> | <ul style="list-style-type: none"> <li>- Android OS 4.0(ICS) or higher</li> <li>- CPU 1 GHz Dual Core or higher</li> <li>- RAM 1GB or higher</li> <li>- 1280 x 720, 800 x 480 resolution (Optimized)</li> </ul> | <ul style="list-style-type: none"> <li>- Android OS 3.x (Honeycomb)</li> <li>- iPhone not supported</li> </ul> | <ul style="list-style-type: none"> <li>- Effective distance : 10m (Open Space)</li> <li>- Effective distance can be shortened based on the communication environment.</li> </ul> |

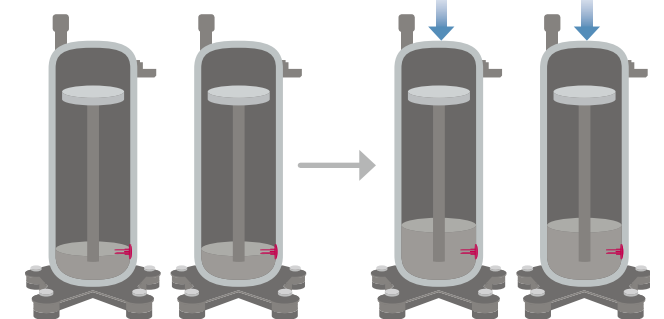
### Auto Compressor Oil Management

Compressor reliability is improved with a oil level sensor that allows for oil balancing and oil return real time.

#### Auto Oil Balancing



#### Smart Oil Return





HEAT PUMP

| Class                                  |                                |         |           | 8                          | 10                         | 12                         |
|----------------------------------------|--------------------------------|---------|-----------|----------------------------|----------------------------|----------------------------|
| Model                                  |                                |         |           | ARUN080LTE4                | ARUN100LTE4                | ARUN120LTE4                |
| Capacity                               | Cooling                        |         | kW        | 22.4                       | 28.0                       | 33.6                       |
|                                        | Heating                        |         | kW        | 25.2                       | 31.5                       | 37.8                       |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW        | 25.2                       | 31.5                       | 37.8                       |
| Power Input                            | Cooling                        |         | kW        | 4.38                       | 5.38                       | 6.85                       |
|                                        | Heating                        |         | kW        | 4.58                       | 5.49                       | 7.80                       |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW        | 6.54                       | 9.13                       | 11.52                      |
| COP                                    | Cooling                        |         |           | 5.11                       | 5.20                       | 4.91                       |
|                                        | Heating                        |         |           | 5.50                       | 5.74                       | 4.85                       |
| ESEER                                  |                                |         |           | 7.90                       | 7.54                       | 7.48                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB     | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB     | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |           | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |           | 1                          | 1                          | 1                          |
| Fan                                    | Type                           |         |           | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |           | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |           | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min    | 210                        | 210                        | 210                        |
|                                        |                                |         | l/s       | 3500                       | 3500                       | 3500                       |
| Sound Pressure                         |                                | Max     | dBA       | 58.5                       | 59                         | 59                         |
| Sound Power                            |                                | Max     | dBA       | 78.0                       | 79.0                       | 79.0                       |
| Dimensions                             |                                | WxHxD   | mm        | (920 × 1,680 × 760) × 1    | (920 × 1,680 × 760) × 1    | (920 × 1,680 × 760) × 1    |
| Net Weight                             |                                |         | kg        | 202 × 1                    | 208 × 1                    | 208 × 1                    |
| Refrigerant                            | Type                           |         |           | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg        | 7.5                        | 7.5                        | 7.5                        |
|                                        | Control                        |         |           | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |           | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc        | 2,400                      | 2,600                      | 2,600                      |
| Power Supply                           |                                |         | ø/V/Hz    | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm² | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m         | 1,000                      | 1000                       | 1000                       |
|                                        | Actual Longest Piping Length * | Max     | m         | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m         | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m         | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch)  | 9.52(3/8)                  | 9.52(3/8)                  | 12.7(1/2)                  |
|                                        | Gas                            |         | mm(inch)  | 19.05(3/4)                 | 22.2(7/8)                  | 28.58(1-1/8)               |
| Number of Outdoor Units                |                                |         |           | 1                          | 1                          | 1                          |
| Number of Connectable Indoor Units *** |                                | Max     |           | 13(20)                     | 16(25)                     | 20(30)                     |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |           | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  |
| Heat exchanger                         | Type                           |         |           | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



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| Class                                  |                                |         |          | 14                         | 16                         | 18                         | 20                         |
|----------------------------------------|--------------------------------|---------|----------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  |                                |         |          | ARUN140LTE4                | ARUN160LTE4                | ARUN180LTE4                | ARUN200LTE4                |
| Capacity                               | Cooling                        |         | kW       | 39.2                       | 44.8                       | 50.4                       | 56.0                       |
|                                        | Heating                        |         | kW       | 44.1                       | 50.4                       | 56.7                       | 63.0                       |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW       | 44.1                       | 50.4                       | 56.7                       | 63.0                       |
| Power Input                            | Cooling                        |         | kW       | 8.48                       | 10.42                      | 9.85                       | 11.54                      |
|                                        | Heating                        |         | kW       | 9.60                       | 11.40                      | 11.25                      | 13.36                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW       | 12.83                      | 15.07                      | 16.41                      | 17.53                      |
| COP                                    | Cooling                        |         |          | 4.62                       | 4.30                       | 5.12                       | 4.85                       |
|                                        | Heating                        |         |          | 4.59                       | 4.42                       | 5.04                       | 4.72                       |
| ESEER                                  |                                |         |          | 7.37                       | 7.27                       | 7.17                       | 6.78                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB    | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB    | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |          | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |          | 1                          | 1                          | 2                          | 2                          |
| Fan                                    | Type                           |         |          | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |          | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min   | 290                        | 290                        | 290                        | 290                        |
|                                        |                                |         | l/s      | 4833                       | 4833                       | 4833                       | 4833                       |
| Sound Pressure                         |                                | Max     | dBA      | 59                         | 59                         | 59.5                       | 59.5                       |
| Sound Power                            |                                | Max     | dBA      | 79.0                       | 79.0                       | 79.5                       | 79.5                       |
| Dimensions                             |                                | WxHxD   | mm       | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  |
| Net Weight                             |                                |         | kg       | 245 × 1                    | 245 × 1                    | 280 × 1                    | 280× 1                     |
| Refrigerant                            | Type                           |         |          | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg       | 10.5                       | 10.5                       | 10.5                       | 10.5                       |
|                                        | Control                        |         |          | EEV                        | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |          | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc       | 2,600                      | 2,600                      | 3,600                      | 3,600                      |
| Power Supply                           |                                |         | ø/V/Hz   | 3 / 380~415 / 50           | 3 / 380~415 / 50           | 3 / 380~415 / 50           | 3 / 380~415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No. xmm² | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m        | 1000                       | 1000                       | 1000                       | 1000                       |
|                                        | Actual Longest Piping Length * | Max     | m        | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m        | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m        | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m        | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch) | 12.7(1/2)                  | 12.7(1/2)                  | 15.88(5/8)                 | 15.88(5/8)                 |
|                                        | Gas                            |         | mm(inch) | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               |
| Number of Outdoor Units                |                                |         |          | 1                          | 1                          | 1                          | 1                          |
| Number of Connectable Indoor Units *** |                                |         | Max      | 23(35)                     | 26(40)                     | 29(45)                     | 32(50)                     |
| Ratio of the Connectable Indoor Units  |                                |         | Min-Max  | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  |
| Heat exchanger                         | Type                           |         |          | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |

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| Class                                  |                                | 22             |                            | 24                         |  |
|----------------------------------------|--------------------------------|----------------|----------------------------|----------------------------|--|
| Model                                  | Combination unit               |                | ARUN220LTE4                | ARUN240LTE4                |  |
|                                        | Independent unit               |                | ARUN120LTE4                | ARUN120LTE4                |  |
|                                        |                                |                | ARUN100LTE4                | ARUN120LTE4                |  |
| Capacity                               | Cooling                        | kW             | 61.6                       | 67.2                       |  |
|                                        | Heating                        | kW             | 69.3                       | 75.6                       |  |
| Low Temperature Capacity               | Heating -7°C                   | Max            | 69.3                       | 75.6                       |  |
| Power Input                            | Cooling                        | kW             | 12.23                      | 13.70                      |  |
|                                        | Heating                        | kW             | 13.29                      | 15.60                      |  |
| Low Temperature Power Input            | Heating -7°C                   | Max            | 20.65                      | 23.04                      |  |
| COP                                    | Cooling                        |                | 5.04                       | 4.91                       |  |
|                                        | Heating                        |                | 5.21                       | 4.85                       |  |
| ESEER                                  |                                |                | 7.51                       | 7.48                       |  |
| Operation Range                        | Cooling                        | Min-Max °C DB  | -10°C ~ 43°C               | -10°C ~ 43°C               |  |
|                                        | Heating                        | Min-Max °C WVB | -25°C ~ 18°C               | -25°C ~ 18°C               |  |
| Compressor                             | Type                           |                | Hermetically Sealed Scroll | Hermetically Sealed Scroll |  |
|                                        | Number of Compressor           |                | 2                          | 2                          |  |
| Fan                                    | Type                           |                | Propeller fan              | Propeller fan              |  |
|                                        | Motor Type                     |                | DC Inverter motor          | DC Inverter motor          |  |
|                                        | Max static pressure            |                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |  |
| Airflow Rate                           | Air Flow Rate(High)            | Max            | m³/min                     | 210 × 2                    |  |
|                                        |                                |                | l/s                        | 3500 × 2                   |  |
| Sound Pressure                         |                                | Max            | dBA                        | 62                         |  |
| Sound Power                            |                                | Max            | dBA                        | 82.0                       |  |
| Dimensions                             |                                | WxHxD          | mm                         | (920 × 1,680 × 760) × 2    |  |
| Net Weight                             |                                |                | kg                         | 208 × 2                    |  |
| Refrigerant                            | Type                           |                |                            | R410A                      |  |
|                                        | Charge                         | kg             | 7.5 × 2                    | 7.5 × 2                    |  |
| Refrigerant Oil                        | Control                        |                | EEV                        | EEV                        |  |
|                                        | Type                           |                | FVC68D(PVE)                | FVC68D(PVE)                |  |
|                                        | Capacity                       | cc             | 5,200                      | 5,200                      |  |
| Power Supply                           |                                | ø/V/Hz         | 3 / 380-415 / 50           | 3 / 380-415 / 50           |  |
| Transmission Cable (VCTF-SB)           |                                | No. x mm²      | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |  |
| Piping Length                          | Total                          | Max            | m                          | 1000                       |  |
|                                        | Actual Longest Piping Length * | Max            | m                          | 200(225)                   |  |
|                                        | After 1st Y branch **          | Max            | m                          | 40(90)                     |  |
| Piping Level Difference                | IDU-ODU                        | Max            | m                          | 110                        |  |
|                                        | IDU-IDU                        | Max            | m                          | 40                         |  |
| Piping Connection                      | Liquid                         | mm(inch)       | 15.88(5/8)                 | 15.88(5/8)                 |  |
|                                        | Gas                            | mm(inch)       | 28.58(1-1/8)               | 34.9(1-3/8)                |  |
| Number of Outdoor Units                |                                |                | 2                          | 2                          |  |
| Number of Connectable Indoor Units *** |                                | Max            | 35(44)                     | 39(48)                     |  |
| Ratio of the Connectable Indoor Units  |                                | Min-Max        | 50 ~ 160%                  | 50 ~ 160%                  |  |
| Heat exchanger                         | Type                           |                | Wide Louver Plus Fin       | Wide Louver Plus Fin       |  |

HEAT PUMP

| Class                                  |                                |         |           | 26                                         | 28                                          | 30                                         | 32                                         |
|----------------------------------------|--------------------------------|---------|-----------|--------------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------------|
| Model                                  | Combination unit               |         |           | ARUN260LTE4                                | ARUN280LTE4                                 | ARUN300LTE4                                | ARUN320LTE4                                |
|                                        | Independent unit               |         |           | ARUN140LTE4                                | ARUN160LTE4                                 | ARUN180LTE4                                | ARUN200LTE4                                |
|                                        |                                |         |           | ARUN120LTE4                                | ARUN120LTE4                                 | ARUN120LTE4                                | ARUN120LTE4                                |
| Capacity                               | Cooling                        |         | kW        | 72.8                                       | 78.4                                        | 84.0                                       | 89.6                                       |
|                                        | Heating                        |         | kW        | 81.9                                       | 88.2                                        | 94.5                                       | 100.8                                      |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW        | 81.9                                       | 88.2                                        | 94.5                                       | 100.8                                      |
| Power Input                            | Cooling                        |         | kW        | 15.33                                      | 17.27                                       | 16.70                                      | 18.39                                      |
|                                        | Heating                        |         | kW        | 17.40                                      | 19.20                                       | 19.05                                      | 21.16                                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW        | 24.35                                      | 26.59                                       | 27.93                                      | 29.05                                      |
| COP                                    | Cooling                        |         |           | 4.75                                       | 4.54                                        | 5.03                                       | 4.87                                       |
|                                        | Heating                        |         |           | 4.71                                       | 4.59                                        | 4.96                                       | 4.76                                       |
| ESEER                                  |                                |         |           | 7.43                                       | 7.38                                        | 7.33                                       | 7.13                                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB     | -10°C ~ 43°C                               | -10°C ~ 43°C                                | -10°C ~ 43°C                               | -10°C ~ 43°C                               |
|                                        | Heating                        | Min-Max | °C WB     | -25°C ~ 18°C                               | -25°C ~ 18°C                                | -25°C ~ 18°C                               | -25°C ~ 18°C                               |
| Compressor                             | Type                           |         |           | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                  | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 |
|                                        | Number of Compressor           |         |           | 2                                          | 2                                           | 3                                          | 3                                          |
| Fan                                    | Type                           |         |           | Propeller fan                              | Propeller fan                               | Propeller fan                              | Propeller fan                              |
|                                        | Motor Type                     |         |           | DC Inverter motor                          | DC Inverter motor                           | DC Inverter motor                          | DC Inverter motor                          |
|                                        | Max static pressure            |         |           | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                 | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min    | 290 + 210                                  | 290 + 210                                   | 290 + 210                                  | 290 + 210                                  |
|                                        |                                |         | l/s       | 4833 + 3500                                | 4833 + 3500                                 | 4833 + 3500                                | 4833 + 3500                                |
| Sound Pressure                         |                                | Max     | dBA       | 62                                         | 62                                          | 62.3                                       | 62.3                                       |
| Sound Power                            |                                | Max     | dBA       | 82.0                                       | 82.0                                        | 82.3                                       | 82.3                                       |
| Dimensions                             |                                | WxHxD   | mm        | (1,240×1,680×760)×1<br>+ (920×1,680×760)×1 | *(1,240×1,680×760)×1<br>+ (920×1,680×760)×1 | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 |
| Net Weight                             |                                |         | kg        | 245 × 1 + 208 × 1                          | 245 × 1 + 208 × 1                           | 280 × 1 + 208 × 1                          | 280 × 1 + 208 × 1                          |
| Refrigerant                            | Type                           |         |           | R410A                                      | R410A                                       | R410A                                      | R410A                                      |
|                                        | Charge                         |         | kg        | 10.5 + 7.5                                 | 10.5 + 7.5                                  | 10.5 + 7.5                                 | 10.5 + 7.5                                 |
| Refrigerant Oil                        | Control                        |         |           | EEV                                        | EEV                                         | EEV                                        | EEV                                        |
|                                        | Type                           |         |           | FVC68D(PVE)                                | FVC68D(PVE)                                 | FVC68D(PVE)                                | FVC68D(PVE)                                |
|                                        | Capacity                       |         | cc        | 5,200                                      | 5,200                                       | 6,200                                      | 6,200                                      |
| Power Supply                           |                                |         | ø/V/Hz    | 3 / 380-415 / 50                           | 3 / 380-415 / 50                            | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm² | 2C × 1.0 ~ 1.5                             | 2C × 1.0 ~ 1.5                              | 2C × 1.0 ~ 1.5                             | 2C × 1.0 ~ 1.5                             |
| Piping Length                          | Total                          | Max     | m         | 1000                                       | 1000                                        | 1000                                       | 1000                                       |
|                                        | Actual Longest Piping Length * | Max     | m         | 200(225)                                   | 200(225)                                    | 200(225)                                   | 200(225)                                   |
|                                        | After 1st Y branch **          | Max     | m         | 40(90)                                     | 40(90)                                      | 40(90)                                     | 40(90)                                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m         | 110                                        | 110                                         | 110                                        | 110                                        |
|                                        | IDU-IDU                        | Max     | m         | 40                                         | 40                                          | 40                                         | 40                                         |
| Piping Connection                      | Liquid                         |         | mm(inch)  | 19.05(3/4)                                 | 19.05(3/4)                                  | 19.05(3/4)                                 | 19.05(3/4)                                 |
|                                        | Gas                            |         | mm(inch)  | 34.9(1-3/8)                                | 34.9(1-3/8)                                 | 34.9(1-3/8)                                | 34.9(1-3/8)                                |
| Number of Outdoor Units                |                                |         |           | 2                                          | 2                                           | 2                                          | 2                                          |
| Number of Connectable Indoor Units *** |                                |         | Max       | 42(52)                                     | 45(56)                                      | 49(60)                                     | 52(64)                                     |
| Ratio of the Connectable Indoor Units  |                                |         | Min-Max   | 50 ~ 160%                                  | 50 ~ 160%                                   | 50 ~ 160%                                  | 50 ~ 160%                                  |
| Heat exchanger                         | Type                           |         |           | Wide Louver Plus Fin                       | Wide Louver Plus Fin                        | Wide Louver Plus Fin                       | Wide Louver Plus Fin                       |





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| Class                                  |                                |                | 34                         | 36                         | 38                         | 40                         |
|----------------------------------------|--------------------------------|----------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  | Combination unit               |                | ARUN340LTE4                | ARUN360LTE4                | ARUN380LTE4                | ARUN400LTE4                |
|                                        | Independent unit               |                | ARUN200LTE4                | ARUN200LTE4                | ARUN180LTE4                | ARUN200LTE4                |
|                                        |                                |                | ARUN140LTE4                | ARUN160LTE4                | ARUN200LTE4                | ARUN200LTE4                |
| Capacity                               | Cooling                        | kW             | 95.2                       | 100.8                      | 106.4                      | 112                        |
|                                        | Heating                        | kW             | 107.1                      | 113.4                      | 119.7                      | 126                        |
| Low Temperature Capacity               | Heating -7°C                   | Max kW         | 107.1                      | 113.4                      | 119.7                      | 126                        |
| Power Input                            | Cooling                        | kW             | 20.02                      | 21.96                      | 21.39                      | 23.08                      |
|                                        | Heating                        | kW             | 22.96                      | 24.76                      | 24.61                      | 26.72                      |
| Low Temperature Power Input            | Heating -7°C                   | Max kW         | 30.36                      | 32.60                      | 33.94                      | 35.06                      |
| COP                                    | Cooling                        |                | 4.76                       | 4.59                       | 4.97                       | 4.85                       |
|                                        | Heating                        |                | 4.66                       | 4.58                       | 4.86                       | 4.72                       |
| ESEER                                  |                                |                | 7.08                       | 7.03                       | 6.98                       | 6.78                       |
| Operation Range                        | Cooling                        | Min-Max °C DB  | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max °C WB  | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |                | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |                | 3                          | 3                          | 4                          | 4                          |
| Fan                                    | Type                           |                | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |                | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max m³/min l/s | 290 x 2<br>4833 x 2        | 290 x 2<br>4833 x 2        | 290 x 2<br>4833 x 2        | 290 x 2<br>4833 x 2        |
| Sound Pressure                         |                                | Max dBA        | 62.3                       | 62.3                       | 62.5                       | 62.5                       |
| Sound Power                            |                                | Max dBA        | 82.3                       | 82.3                       | 82.5                       | 82.5                       |
| Dimensions                             | WxHxD                          | mm             | (1,240×1,680×760)×2        | (1,240 × 1,680 × 760) × 2  | (1,240 × 1,680 × 760) × 2  | (1,240 × 1,680 × 760) × 2  |
| Net Weight                             |                                | kg             | 280 × 1 + 245 × 1          | 280 × 1 + 245 × 1          | 280 × 2                    | 280 × 2                    |
| Refrigerant                            | Type                           |                | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         | kg             | 10.5 × 2                   | 10.5 × 2                   | 10.5 × 2                   | 10.5 × 2                   |
|                                        | Control                        |                | EEV                        | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       | cc             | 6,200                      | 6,200                      | 6,200                      | 6,200                      |
| Power Supply                           |                                | ø/V/Hz         | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                | No. x mm²      | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max m          | 1000                       | 1000                       | 1000                       | 1000                       |
|                                        | Actual Longest Piping Length * | Max m          | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max m          | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max m          | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max m          | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         | mm(inch)       | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 |
|                                        | Gas                            | mm(inch)       | 34.9(1-3/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                |
| Number of Outdoor Units                |                                |                | 2                          | 2                          | 2                          | 2                          |
| Number of Connectable Indoor Units *** |                                | Max            | 55(64)                     | 58(64)                     | 61(64)                     | 64                         |
| Ratio of the Connectable Indoor Units  |                                | Min-Max        | 50 ~ 160%                  | 50 ~ 160%                  | 50 ~ 160%                  | 50 ~ 160%                  |
| Heat exchanger                         | Type                           |                | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



HEAT PUMP

| Class                                  |                                |                | 42                                                     | 44                                                     | 46                                         |
|----------------------------------------|--------------------------------|----------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|
| Model                                  | Combination unit               |                | ARUN420LTE4                                            | ARUN440LTE4                                            | ARUN460LTE4                                |
|                                        | Independent unit               |                | ARUN180LTE4                                            | ARUN200LTE4                                            | ARUN200LTE4                                |
|                                        |                                |                | ARUN140LTE4                                            | ARUN140LTE4                                            | ARUN160LTE4                                |
|                                        |                                |                | ARUN100LTE4                                            | ARUN100LTE4                                            | ARUN100LTE4                                |
| Capacity                               | Cooling                        | kW             | 117.6                                                  | 123.2                                                  | 128.8                                      |
|                                        | Heating                        | kW             | 132.3                                                  | 138.6                                                  | 144.9                                      |
| Low Temperature Capacity               | Heating -7°C                   | Max kW         | 132.3                                                  | 138.6                                                  | 144.9                                      |
| Power Input                            | Cooling                        | kW             | 23.71                                                  | 25.40                                                  | 27.34                                      |
|                                        | Heating                        | kW             | 26.34                                                  | 28.45                                                  | 30.25                                      |
| Low Temperature Power Input            | Heating -7°C                   | Max kW         | 38.37                                                  | 39.49                                                  | 41.73                                      |
| COP                                    | Cooling                        |                | 4.96                                                   | 4.85                                                   | 4.71                                       |
|                                        | Heating                        |                | 5.02                                                   | 4.87                                                   | 4.79                                       |
| ESEER                                  |                                |                | 7.36                                                   | 7.23                                                   | 7.20                                       |
| Operation Range                        | Cooling                        | Min-Max °C DB  | -10°C ~ 43°C                                           | -10°C ~ 43°C                                           | -10°C ~ 43°C                               |
|                                        | Heating                        | Min-Max °C WB  | -25°C ~ 18°C                                           | -25°C ~ 18°C                                           | -25°C ~ 18°C                               |
| Compressor                             | Type                           |                | Hermetically Sealed Scroll                             | Hermetically Sealed Scroll                             | Hermetically Sealed Scroll                 |
|                                        | Number of Compressor           |                | 4                                                      | 4                                                      | 4                                          |
| Fan                                    | Type                           |                | Propeller fan                                          | Propeller fan                                          | Propeller fan                              |
|                                        | Motor Type                     |                | DC Inverter motor                                      | DC Inverter motor                                      | DC Inverter motor                          |
|                                        | Max static pressure            |                | 8mmAq(80Pa)                                            | 8mmAq(80Pa)                                            | 8mmAq(80Pa)                                |
| Airflow Rate                           | Air Flow Rate(High)            | Max m³/min l/s | 290 x 2 + 210<br>4888 x 2 + 3500                       | 290 x 2 + 210<br>4888 x 2 + 3500                       | 290 x 2 + 210<br>4888 x 2 + 3500           |
| Sound Pressure                         |                                | Max dBA        | 63.9                                                   | 63.9                                                   | 63.9                                       |
| Sound Power                            |                                | Max dBA        | 83.9                                                   | 83.9                                                   | 83.9                                       |
| Dimensions                             | WxHxD                          | mm             | (1,240 × 1,680 × 760) × 2<br>+ (920 × 1,680 × 760) × 1 | (1,240 × 1,680 × 760) × 2<br>+ (920 × 1,680 × 760) × 1 | (1,240×1,680×760)×2 +<br>(920×1,680×760)×1 |
| Net Weight                             |                                | kg             | 280 × 1 + 245 × 1 + 208 × 1                            | 280 × 1 + 245 × 1 + 208 × 1                            | 280 × 1 + 245 × 1 + 208 × 1                |
| Refrigerant                            | Type                           |                | R410A                                                  | R410A                                                  | R410A                                      |
|                                        | Charge                         | kg             | (10.5 × 2) + 7.5                                       | (10.5 × 2) + 7.5                                       | (10.5 × 2) + 7.5                           |
|                                        | Control                        |                | EEV                                                    | EEV                                                    | EEV                                        |
| Refrigerant Oil                        | Type                           |                | FVC68D(PVE)                                            | FVC68D(PVE)                                            | FVC68D(PVE)                                |
|                                        | Capacity                       | cc             | 8,800                                                  | 8,800                                                  | 8,800                                      |
| Power Supply                           |                                | ø/V/Hz         | 3 / 380-415 / 50                                       | 3 / 380-415 / 50                                       | 3 / 380-415 / 50                           |
| Transmission Cable (VCTF-SB)           |                                | No. x mm²      | 2C × 1.0 ~ 1.5                                         | 2C × 1.0 ~ 1.5                                         | 2C × 1.0 ~ 1.5                             |
| Piping Length                          | Total                          | Max m          | 1000                                                   | 1000                                                   | 1000                                       |
|                                        | Actual Longest Piping Length * | Max m          | 200(225)                                               | 200(225)                                               | 200(225)                                   |
|                                        | After 1st Y branch **          | Max m          | 40(90)                                                 | 40(90)                                                 | 40(90)                                     |
| Piping Level Difference                | IDU-ODU                        | Max m          | 110                                                    | 110                                                    | 110                                        |
|                                        | IDU-IDU                        | Max m          | 40                                                     | 40                                                     | 40                                         |
| Piping Connection                      | Liquid                         | mm(inch)       | 19.05(3/4)                                             | 19.05(3/4)                                             | 19.05(3/4)                                 |
|                                        | Gas                            | mm(inch)       | 41.3(1-5/8)                                            | 41.3(1-5/8)                                            | 41.3(1-5/8)                                |
| Number of Outdoor Units                |                                |                | 3                                                      | 3                                                      | 3                                          |
| Number of Connectable Indoor Units *** |                                | Max            | 64                                                     | 64                                                     | 64                                         |
| Ratio of the Connectable Indoor Units  |                                | Min-Max        | 50 ~ 130%                                              | 50 ~ 130%                                              | 50 ~ 130%                                  |
| Heat exchanger                         | Type                           |                | Wide Louver Plus Fin                                   | Wide Louver Plus Fin                                   | Wide Louver Plus Fin                       |



HEAT PUMP

| Class                                  |                                |         |               | 48                                         | 50                                         | 52                                         |
|----------------------------------------|--------------------------------|---------|---------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Model                                  | Combination unit               |         |               | ARUN480LTE4                                | ARUN500LTE4                                | ARUN520LTE4                                |
|                                        | Independent unit               |         |               | ARUN200LTE4                                | ARUN200LTE4                                | ARUN200LTE4                                |
|                                        |                                |         |               | ARUN180LTE4                                | ARUN200LTE4                                | ARUN200LTE4                                |
|                                        |                                |         |               | ARUN100LTE4                                | ARUN100LTE4                                | ARUN120LTE4                                |
| Capacity                               | Cooling                        |         | kW            | 134.4                                      | 140.0                                      | 145.6                                      |
|                                        | Heating                        |         | kW            | 151.2                                      | 157.5                                      | 163.8                                      |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW            | 151.2                                      | 157.5                                      | 163.8                                      |
| Power Input                            | Cooling                        |         | kW            | 26.77                                      | 28.46                                      | 29.93                                      |
|                                        | Heating                        |         | kW            | 30.10                                      | 32.21                                      | 34.52                                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW            | 43.07                                      | 44.19                                      | 46.58                                      |
| COP                                    | Cooling                        |         |               | 5.02                                       | 4.92                                       | 4.86                                       |
|                                        | Heating                        |         |               | 5.02                                       | 4.89                                       | 4.75                                       |
| ESEER                                  |                                |         |               | 7.16                                       | 7.03                                       | 7.01                                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB         | -10°C ~ 43°C                               | -10°C ~ 43°C                               | -10°C ~ 43°C                               |
|                                        | Heating                        | Min-Max | °C WB         | -25°C ~ 18°C                               | -25°C ~ 18°C                               | -25°C ~ 18°C                               |
| Compressor                             | Type                           |         |               | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 |
|                                        | Number of Compressor           |         |               | 5                                          | 5                                          | 5                                          |
| Fan                                    | Type                           |         |               | Propeller fan                              | Propeller fan                              | Propeller fan                              |
|                                        | Motor Type                     |         |               | DC Inverter motor                          | DC Inverter motor                          | DC Inverter motor                          |
|                                        | Max static pressure            |         |               | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                |
|                                        |                                |         |               | 290 x 2 + 210                              | 290 x 2 + 210                              | 290 x 2 + 210                              |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min<br>l/s | 4888 x 2 + 3500                            | 4888 x 2 + 3500                            | 4888 x 2 + 3500                            |
| Sound Pressure                         |                                | Max     | dBA           | 64.1                                       | 64.1                                       | 64.1                                       |
| Sound Power                            |                                | Max     | dBA           | 84.1                                       | 84.1                                       | 84.1                                       |
| Dimensions                             |                                | WxHxD   | mm            | (1,240×1,680×760)×2 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×2 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×2 +<br>(920×1,680×760)×1 |
| Net Weight                             |                                |         | kg            | 280 x 2 + 208 x 1                          | 280 x 2 + 208 x 1                          | 280 x 2 + 208 x 1                          |
| Refrigerant                            | Type                           |         |               | R410A                                      | R410A                                      | R410A                                      |
|                                        | Charge                         |         | kg            | (10.5 x 2) + 7.5                           | (10.5 x 2) + 7.5                           | (10.5 x 2) + 7.5                           |
|                                        | Control                        |         |               | EEV                                        | EEV                                        | EEV                                        |
| Refrigerant Oil                        | Type                           |         |               | FVC68D(PVE)                                | FVC68D(PVE)                                | FVC68D(PVE)                                |
|                                        | Capacity                       |         | cc            | 9,800                                      | 9,800                                      | 9,800                                      |
| Power Supply                           |                                |         | ø/V/Hz        | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm²     | 2C x 1.0 ~ 1.5                             | 2C x 1.0 ~ 1.5                             | 2C x 1.0 ~ 1.5                             |
| Piping Length                          | Total                          | Max     | m             | 1000                                       | 1000                                       | 1000                                       |
|                                        | Actual Longest Piping Length * | Max     | m             | 200(225)                                   | 200(225)                                   | 200(225)                                   |
|                                        | After 1st Y branch **          | Max     | m             | 40(90)                                     | 40(90)                                     | 40(90)                                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m             | 110                                        | 110                                        | 110                                        |
|                                        | IDU-IDU                        | Max     | m             | 40                                         | 40                                         | 40                                         |
| Piping Connection                      | Liquid                         |         | mm(inch)      | 19.05(3/4)                                 | 19.05(3/4)                                 | 19.05(3/4)                                 |
|                                        | Gas                            |         | mm(inch)      | 41.3(1-5/8)                                | 41.3(1-5/8)                                | 41.3(1-5/8)                                |
| Number of Outdoor Units                |                                |         |               | 3                                          | 3                                          | 3                                          |
| Number of Connectable Indoor Units *** |                                |         | Max           | 64                                         | 64                                         | 64                                         |
| Ratio of the Connectable Indoor Units  |                                |         | Min-Max       | 50 ~ 130%                                  | 50 ~ 130%                                  | 50 ~ 130%                                  |
| Heat exchanger                         | Type                           |         |               | Wide Lower Plus Fin                        | Wide Lower Plus Fin                        | Wide Lower Plus Fin                        |



HEAT PUMP

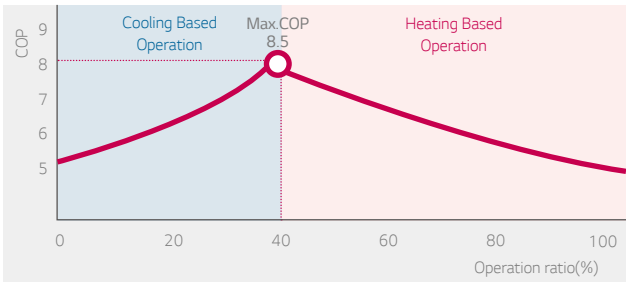
| Class                                  |                                |         |               | 54                         | 56                         | 58                         | 60                         |
|----------------------------------------|--------------------------------|---------|---------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  | Combination unit               |         |               | ARUN540LTE4                | ARUN560LTE4                | ARUN580LTE4                | ARUN600LTE4                |
|                                        | Independent unit               |         |               | ARUN200LTE4                | ARUN200LTE4                | ARUN200LTE4                | ARUN200LTE4                |
|                                        |                                |         |               | ARUN200LTE4                | ARUN200LTE4                | ARUN200LTE4                | ARUN200LTE4                |
|                                        |                                |         |               | ARUN140LTE4                | ARUN160LTE4                | ARUN180LTE4                | ARUN200LTE4                |
| Capacity                               | Cooling                        |         | kW            | 151.2                      | 156.8                      | 162.4                      | 168.0                      |
|                                        | Heating                        |         | kW            | 170.1                      | 176.4                      | 182.7                      | 189.0                      |
| Low Temperature Capacity               | Heating -7℃                    | Max     | kW            | 170.1                      | 176.4                      | 182.7                      | 189.0                      |
| Power Input                            | Cooling                        |         | kW            | 31.56                      | 33.50                      | 32.93                      | 34.62                      |
|                                        | Heating                        |         | kW            | 36.32                      | 38.12                      | 37.97                      | 40.08                      |
| Low Temperature Power Input            | Heating -7℃                    | Max     | kW            | 47.89                      | 50.13                      | 51.47                      | 52.59                      |
| COP                                    | Cooling                        |         |               | 4.79                       | 4.68                       | 4.93                       | 4.85                       |
|                                        | Heating                        |         |               | 4.68                       | 4.63                       | 4.81                       | 4.72                       |
| ESEER                                  |                                |         |               | 6.98                       | 6.94                       | 6.91                       | 6.78                       |
| Operation Range                        | Cooling                        | Min-Max | ℃ DB          | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 |
|                                        | Heating                        | Min-Max | ℃ WB          | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 |
| Compressor                             | Type                           |         |               | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |               | 5                          | 5                          | 5                          | 5                          |
| Fan                                    | Type                           |         |               | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |               | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |               | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min<br>l/s | 290 x 3<br>4833 x 3        | 290 x 3<br>4833 x 3        | 290 x 3<br>4833 x 3        | 290 x 3<br>4833 x 3        |
| Sound Pressure                         |                                | Max     | dBA           | 64.1                       | 64.1                       | 64.3                       | 64.3                       |
| Sound Power                            |                                | Max     | dBA           | 84.1                       | 84.1                       | 84.3                       | 84.3                       |
| Dimensions                             |                                | WxHxD   | mm            | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  |
| Net Weight                             |                                |         | kg            | 280 x 2 + 245 x 1          | 280 x 2 + 245 x 1          | 280 x 3                    | 280 x 3                    |
| Refrigerant                            | Type                           |         |               | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg            | 10.5 x 3                   | 10.5 x 3                   | 10.5 x 3                   | 10.5 x 3                   |
|                                        | Control                        |         |               | EEV                        | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |               | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc            | 9,800                      | 9,800                      | 10,800                     | 10,800                     |
| Power Supply                           |                                |         | ø/V/Hz        | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm²     | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m             | 1000                       | 1000                       | 1000                       | 1000                       |
|                                        | Actual Longest Piping Length * | Max     | m             | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m             | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m             | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m             | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch)      | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 |
|                                        | Gas                            |         | mm(inch)      | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                |
| Number of Outdoor Units                |                                |         |               | 3                          | 3                          | 3                          | 3                          |
| Number of Connectable Indoor Units *** |                                | Max     |               | 64                         | 64                         | 64                         | 64                         |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |               | 50 ~ 130%                  | 50 ~ 130%                  | 50 ~ 130%                  | 50 ~ 130%                  |
| Heat exchanger                         | Type                           |         |               | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |

# HIGH EFFICIENCY

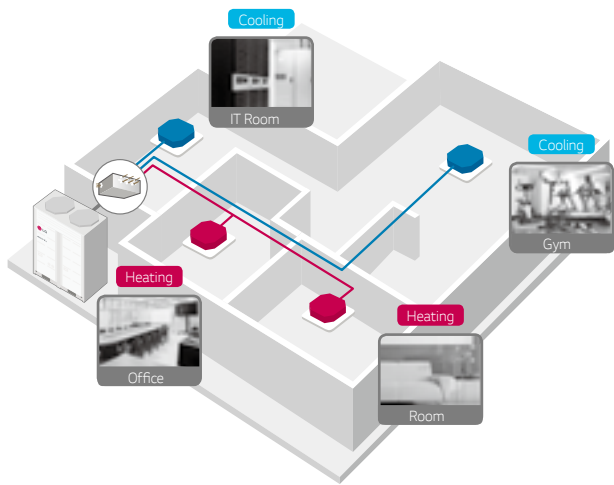
World's First Class, Rated and Part Load Efficiency

## Synchronized Heating and Cooling

It's possible to reach COP up to 8.2 (Under condition to 40% of cooling and 60% of heating) in ideal conditions.  
- Energy consumption can be decreased by 30%

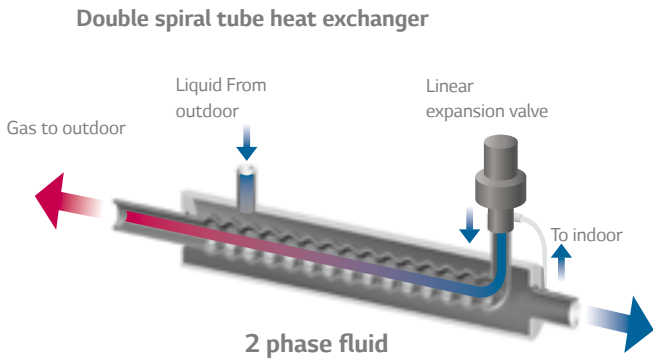
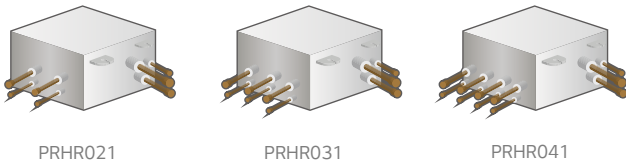


\* Outdoor temperature : 7°C DB / 6°C WB  
\* Indoor temperature : 20°C DB / 15°C WB



## High Efficiency Heat Recovery Unit

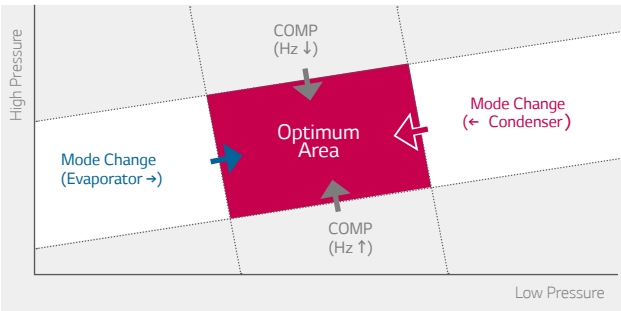
- High efficient double spiral tube type SCI circuit
- Maximum 8 indoor units connectable per a branch
- Easy installation with auto piping detect function
- Access allowed to internal parts for Service.
- Up to 16 kW



## Advanced Mode Change (AMC)

AMC control provides an optimal cycle operation under any conditions.  
Through this mode, system cycles can be more stable and maintain comfort for the user.

- Real time pressure control
- Optimal cycle in optimum area
- Minimise settling time after switching mode : MAX 5 min.



- \* ( ) : equivalent length
- \*\* Conditional Application  
To make 40~90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB
- \*\*\* ( ) : the number of max. connectable outdoor units, for max indoor unit combination ratio (refer to the table below)

### 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. Capacities are net capacities
- 3. Due to our policy of innovation some specifications may be changed without notification
- 4. EEV : Electronic Expansion Valve
- 5. ESEER calculation corresponds with below conditions and power input of indoor units is not included.  
- Indoor temperature: 27°C(80.6°F) DB / 19°C(66.2°F) WB  
- Outdoor temperature conditions.

| Part Load Ratio | Outdoor Air Temp.(°C°F)DB | Weighting Coefficients |
|-----------------|---------------------------|------------------------|
| 100%            | 35 (95)                   | 0.03                   |
| 75%             | 30 (86)                   | 0.33                   |
| 50%             | 25 (77)                   | 0.41                   |
| 25%             | 20 (68)                   | 0.23                   |

- Formula :  $0.03 \times \text{EER}_{100\%} + 0.33 \times \text{EER}_{75\%} + 0.41 \times \text{EER}_{50\%} + 0.23 \times \text{EER}_{25\%}$

### CAUTION

- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio(50~200%)

| No. of outdoor unit | Connection Capacity |
|---------------------|---------------------|
| Single unit         | 200%                |
| Double unit         | 160%                |
| Triple unit         | 130%                |

We can guarantee the capacity of the system only within 130% Combination. In combinations greater than 130% connection ratio system capacity will be diversified.  
If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

- 1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
- 2) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.

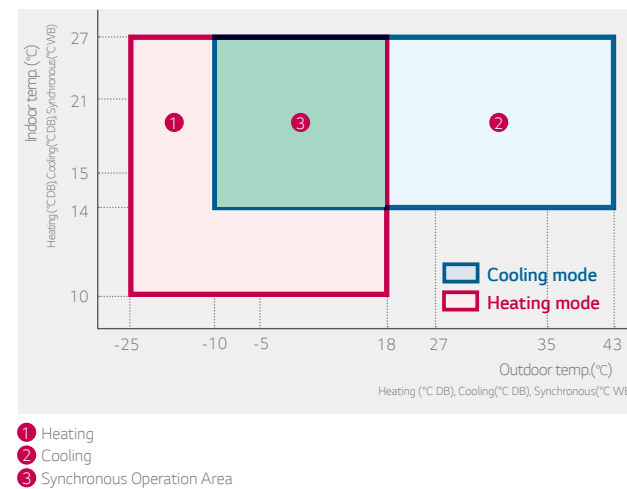
## OUTSTANDING PERFORMANCE

Leading Edge of Innovation that includes Powerful Heating and Cooling Performance

### Wide Operation Range

Low temperature operation range is expanded through condenser with various control.

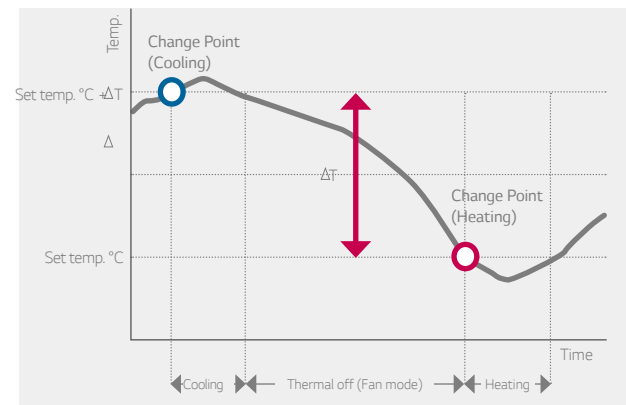
- Heating mode : - 25°C WB ~ 18°C WB
- Cooling mode : - 10°C DB ~ 43°C DB
- Synchronous mode : - 10°C WB ~ 16°C WB



### Auto Changeover

Auto Changeover function operates cooling and heating to maintain optimal room temperature and increase energy savings.

Note: This function can only be made with the use of the AC Smart Premium controller, PQCSW421E0A.

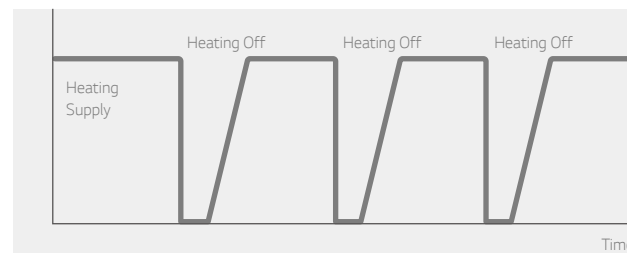


### Continuous Heating Operation

Improved continuous heating operation for Double, Triple and 4 outdoor unit system, defrost is performed by alternate outdoor units.

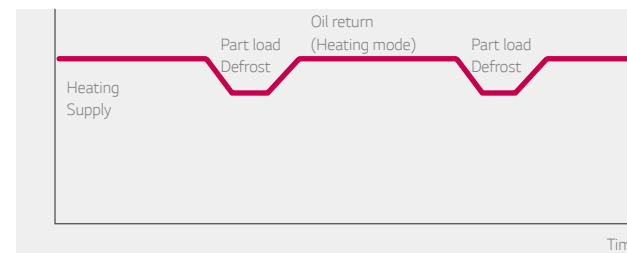
- Integrated heating capacity : 17% up
- Heating mode oil return**
- Continuous heating and oil return during heating mode

#### Conventional



\* Existing mode can be operated automatically, depending on the condition of application.

#### MULTI V IV Heat Recovery

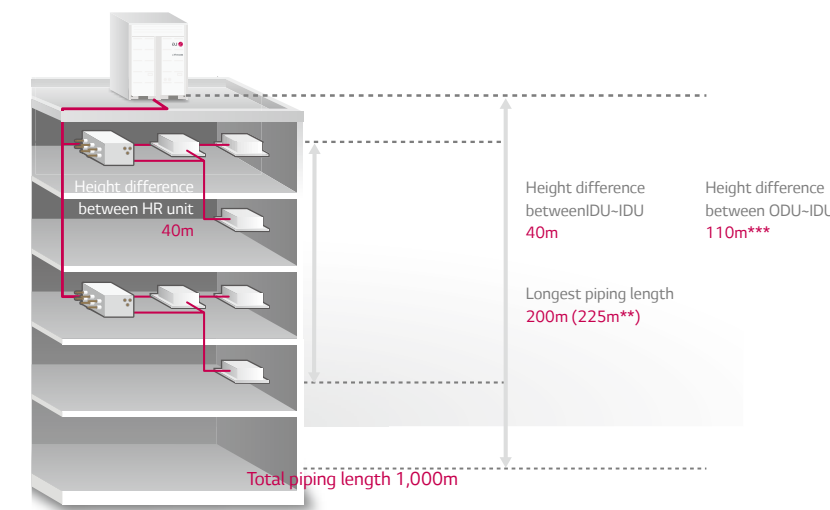


## DESIGN FLEXIBILITY

Easy Design with Convenient Features

### Long Piping Length

As MULTI V [IV] uses inverter control technology and sub-cooling control circuit technology, it is possible to design a system with longer piping lengths and world-class elevation difference.



|                                                                  |              |
|------------------------------------------------------------------|--------------|
| Total piping length                                              | 1,000m       |
| Actual longest piping length** (Equivalent)                      | 200m (225m*) |
| Longest piping length after 1st branch (Conditional application) | 40m (90m**)  |
| Height difference between ODU-IDU                                | 110m         |
| Height difference between IDU-IDU                                | 40m          |
| Height difference between ODU-ODU                                | 5m           |
| Height difference between IDU-HR unit                            | 15m          |
| Height difference between HR unit                                | 40m          |

\* Equivalent  
\*\* Conditional application  
\*\*\* For outdoor unit above or below indoor units.

### Convenient Free Zoning

MULTI V [IV] Heat recovery provides flexible control over individual zones for the user's convenience.

#### Individual Control

- Individual control over the spaces where ventilation is needed

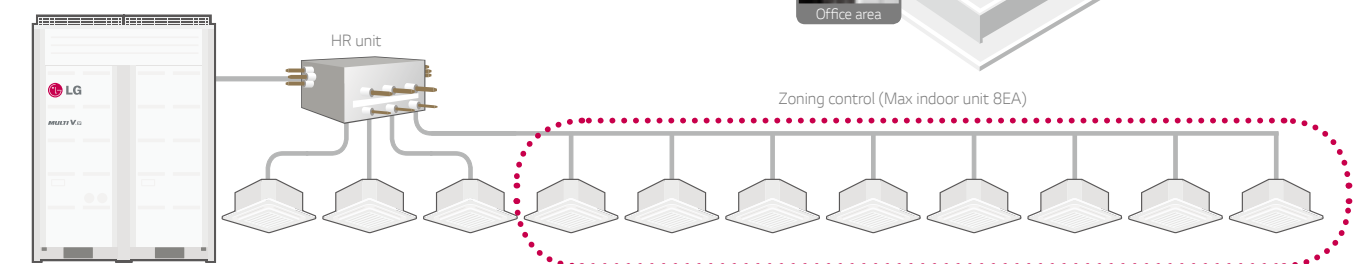
#### Zone Control

- Max. of 8 indoor units can be connected on one branch
- Max. of 32 indoor units can be connected to one HR unit
- Same operational model can be operated by indoor units with zone control function installed

#### Combination of Individual and Zoning Installations

- Flexible piping design
- Saves on product and installation Costs

#### Zoning control





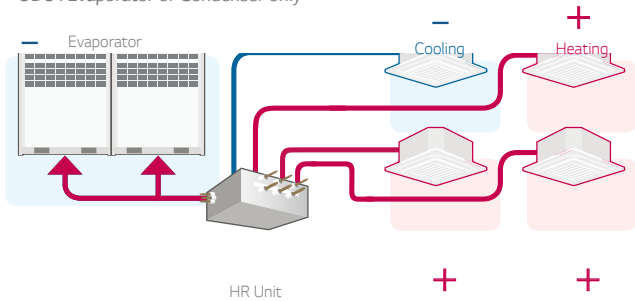
## Simultaneous Operations of Outdoor Units

The outdoor units' heat exchanger can be operated for cooling and heating simultaneously.

- Linear loading response
- Increased efficiency with simultaneous operation
- Minimised switch mode(continuous cooling and heating)

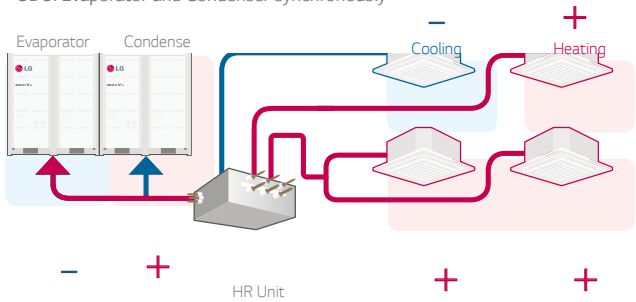
### Conventional

ODU : Evaporator or Condenser only



### MULTI V IV Heat Recovery

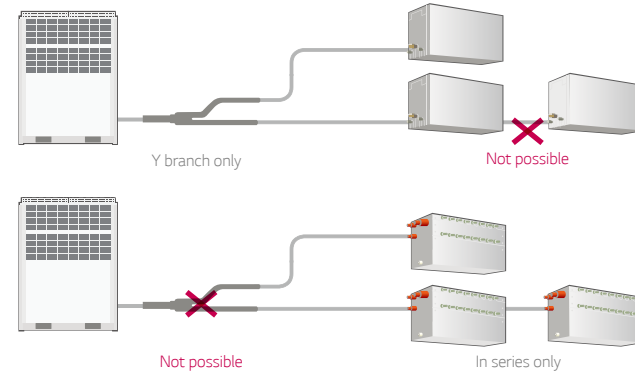
ODU: Evaporator and Condenser synchronously



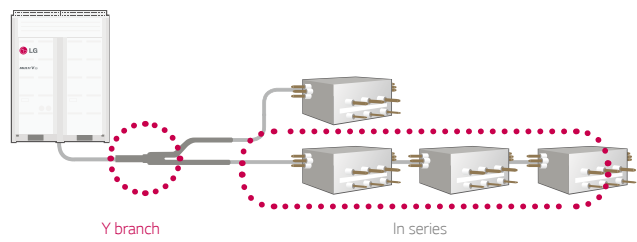
## Flexible Connection of HR Unit

MULTI V [IV] heat recovery system allows flexible connection both in series and in a row.

### Conventional



### MULTI V IV Heat Recovery



### HEAT RECOVERY

| Class                                  |                                |         |          | 8                          | 10                         | 12                         |
|----------------------------------------|--------------------------------|---------|----------|----------------------------|----------------------------|----------------------------|
| Model                                  |                                |         |          | ARUB080LTE4                | ARUB100LTE4                | ARUB120LTE4                |
| Capacity                               | Cooling                        |         | kW       | 22.4                       | 28.0                       | 33.6                       |
|                                        | Heating                        |         | kW       | 25.2                       | 31.5                       | 37.8                       |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW       | 25.2                       | 31.5                       | 37.8                       |
|                                        | Cooling                        |         | kW       | 4.38                       | 5.38                       | 6.85                       |
| Power Input                            | Heating                        |         | kW       | 4.58                       | 5.49                       | 7.80                       |
|                                        | Heating -7°C                   | Max     | kW       | 6.54                       | 9.13                       | 11.52                      |
| COP                                    | Cooling                        |         |          | 5.11                       | 5.20                       | 4.91                       |
|                                        | Heating                        |         |          | 5.50                       | 5.74                       | 4.85                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB    | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB    | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |          | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |          | 1                          | 1                          | 1                          |
| Fan                                    | Type                           |         |          | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |          | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min   | 210                        | 210                        | 210                        |
|                                        |                                |         | l/s      | 3500                       | 3500                       | 3500                       |
| Sound Pressure                         |                                | Max     | dBA      | 58.5                       | 59.0                       | 59.0                       |
| Sound Power                            |                                | Max     | dBA      | 78.0                       | 79.0                       | 79.0                       |
| Dimensions                             |                                | WxHxD   | mm       | (920 × 1,680 × 760) × 1    | (920 × 1,680 × 760) × 1    | (920 × 1,680 × 760) × 1    |
| Net Weight                             |                                |         | kg       | 202 × 1                    | 208 × 1                    | 208 × 1                    |
| Refrigerant                            | Type                           |         |          | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg       | 7.5                        | 7.5                        | 7.5                        |
|                                        | Control                        |         |          | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |          | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc       | 2,400                      | 2,600                      | 2,600                      |
| Power Supply                           |                                |         | ø/V/Hz   | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No.xmm²  | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m        | 1,000                      | 1,000                      | 1,000                      |
|                                        | Actual Longest Piping Length * | Max     | m        | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m        | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m        | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch) | 9.52(3/8)                  | 9.52(3/8)                  | 12.7(1/2)                  |
|                                        | Low Pressure Gas               |         | mm(inch) | 19.05(3/4)                 | 22.2(7/8)                  | 28.58(1-1/8)               |
|                                        | High Pressure Gas              |         | mm(inch) | 15.88(5/8)                 | 19.05(3/4)                 | 19.05(3/4)                 |
| Number of Outdoor Units                |                                |         |          | 1                          | 1                          | 1                          |
| Number of Connectable Indoor Units *** |                                | Max     |          | 13(20)                     | 16(25)                     | 20(30)                     |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |          | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  |
| Heat exchanger                         | Type                           |         |          | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



HEAT RECOVERY

| Class                                  |                                |         |          | 14                         | 16                         | 18                         | 20                         |
|----------------------------------------|--------------------------------|---------|----------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  |                                |         |          | ARUB140LTE4                | ARUB160LTE4                | ARUB180LTE4                | ARUB200LTE4                |
| Capacity                               | Cooling                        | kW      |          | 39.2                       | 44.8                       | 50.4                       | 56.0                       |
|                                        | Heating                        | kW      |          | 44.1                       | 50.4                       | 56.7                       | 63.0                       |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW       | 44.1                       | 50.4                       | 56.7                       | 63.0                       |
| Power Input                            | Cooling                        | kW      |          | 8.48                       | 10.42                      | 9.85                       | 11.54                      |
|                                        | Heating                        | kW      |          | 9.60                       | 11.40                      | 11.25                      | 13.36                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW       | 12.83                      | 15.07                      | 16.41                      | 17.53                      |
| COP                                    | Cooling                        |         |          | 4.62                       | 4.30                       | 5.12                       | 4.85                       |
|                                        | Heating                        |         |          | 4.59                       | 4.42                       | 5.04                       | 4.72                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB    | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB    | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |          | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |          | 1                          | 1                          | 2                          | 2                          |
| Fan                                    | Type                           |         |          | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |          | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min   | 290                        | 290                        | 290                        | 290                        |
|                                        |                                |         | l/s      | 4833                       | 4833                       | 4833                       | 4833                       |
| Sound Pressure                         |                                | Max     | dBA      | 59.0                       | 59.0                       | 59.5                       | 59.5                       |
| Sound Power                            |                                | Max     | dBA      | 79.0                       | 79.0                       | 79.5                       | 79.5                       |
| Dimensions                             | WxHxD                          | mm      |          | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  | (1,240 × 1,680 × 760) × 1  |
|                                        |                                |         |          |                            |                            |                            |                            |
| Net Weight                             |                                |         | kg       | 245 × 1                    | 245 × 1                    | 280 × 1                    | 280 × 1                    |
|                                        |                                |         |          |                            |                            |                            |                            |
| Refrigerant                            | Type                           |         |          | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         | kg      |          | 10.5                       | 10.5                       | 10.5                       | 10.5                       |
|                                        | Control                        |         |          | EEV                        | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |          | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       | cc      |          | 2,600                      | 2,600                      | 3,600                      | 3,600                      |
| Power Supply                           |                                |         | ø/V/Hz   | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No.xmm²  | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m        | 1,000                      | 1,000                      | 1,000                      | 1,000                      |
|                                        | Actual Longest Piping Length * | Max     | m        | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m        | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m        | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m        | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch) | 12.7(1/2)                  | 12.7(1/2)                  | 15.88(5/8)                 | 15.88(5/8)                 |
|                                        | Low Pressure Gas               |         | mm(inch) | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               |
|                                        | High Pressure Gas              |         | mm(inch) | 22.2(7/8)                  | 22.2(7/8)                  | 22.2(7/8)                  | 22.2(7/8)                  |
| Number of Outdoor Units                |                                |         |          | 1                          | 1                          | 1                          | 1                          |
| Number of Connectable Indoor Units *** |                                | Max     |          | 23(35)                     | 26(40)                     | 29(45)                     | 32(50)                     |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |          | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  | 50 ~ 200%                  |
| Heat exchanger                         | Type                           |         |          | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



HEAT RECOVERY

| Class                                  |                                |         |          | 22                         | 24                         |
|----------------------------------------|--------------------------------|---------|----------|----------------------------|----------------------------|
| Model                                  | Combination unit               |         |          | ARUB220LTE4                | ARUB240LTE4                |
|                                        | Independent unit               |         |          | ARUB100LTE4                | ARUB120LTE4                |
|                                        |                                |         |          | ARUB120LTE4                | ARUB120LTE4                |
| Capacity                               | Cooling                        | kW      |          | 61.6                       | 67.2                       |
|                                        | Heating                        | kW      |          | 69.3                       | 75.6                       |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW       | 69.3                       | 75.6                       |
| Power Input                            | Cooling                        | kW      |          | 12.23                      | 13.70                      |
|                                        | Heating                        | kW      |          | 13.29                      | 15.60                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW       | 20.65                      | 23.04                      |
| COP                                    | Cooling                        |         |          | 5.04                       | 4.91                       |
|                                        | Heating                        |         |          | 5.21                       | 4.85                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB    | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB    | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |          | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |          | 2                          | 2                          |
| Fan                                    | Type                           |         |          | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |          | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min   | 210 × 2                    | 210 × 2                    |
|                                        |                                |         | l/s      | 3500 × 2                   | 3500 × 2                   |
| Sound Pressure                         |                                | Max     | dBA      | 62.0                       | 62.0                       |
| Sound Power                            |                                | Max     | dBA      | 82.0                       | 82.0                       |
| Dimensions                             | WxHxD                          | mm      |          | (920 × 1,680 × 760) × 2    | (920 × 1,680 × 760) × 2    |
|                                        |                                |         |          |                            |                            |
| Net Weight                             |                                |         | kg       | 208 × 2                    | 208 × 2                    |
|                                        |                                |         |          |                            |                            |
| Refrigerant                            | Type                           |         |          | R410A                      | R410A                      |
|                                        | Charge                         | kg      |          | 7.5 × 2                    | 7.5 × 2                    |
|                                        | Control                        |         |          | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |          | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       | cc      |          | 5,200                      | 5,200                      |
| Power Supply                           |                                |         | ø/V/Hz   | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No.xmm²  | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m        | 1,000                      | 1,000                      |
|                                        | Actual Longest Piping Length * | Max     | m        | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m        | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m        | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch) | 15.88(5/8)                 | 15.88(5/8)                 |
|                                        | Low Pressure Gas               |         | mm(inch) | 34.9(1-3/8)                | 34.9(1-3/8)                |
|                                        | High Pressure Gas              |         | mm(inch) | 28.58(1-1/8)               | 28.58(1-1/8)               |
| Number of Outdoor Units                |                                |         |          | 2                          | 2                          |
| Number of Connectable Indoor Units *** |                                | Max     |          | 35(44)                     | 39(48)                     |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |          | 50 ~ 160%                  | 50 ~ 160%                  |
| Heat exchanger                         | Type                           |         |          | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



HEAT RECOVERY

| Class                                  |                                |         |               | 26                                         | 28                                         | 30                                         | 32                                         |
|----------------------------------------|--------------------------------|---------|---------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Model                                  | Combination unit               |         |               | ARUB260LTE4                                | ARUB280LTE4                                | ARUB300LTE4                                | ARUB320LTE4                                |
|                                        | Independent unit               |         |               | ARUB120LTE4                                | ARUB120LTE4                                | ARUB120LTE4                                | ARUB120LTE4                                |
|                                        |                                |         |               | ARUB140LTE4                                | ARUB160LTE4                                | ARUB180LTE4                                | ARUB200LTE4                                |
| Capacity                               | Cooling                        |         | kW            | 72.8                                       | 78.4                                       | 84.0                                       | 89.6                                       |
|                                        | Heating                        |         | kW            | 81.9                                       | 88.2                                       | 94.5                                       | 100.8                                      |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW            | 81.9                                       | 88.2                                       | 94.5                                       | 100.8                                      |
| Power Input                            | Cooling                        |         | kW            | 15.33                                      | 17.27                                      | 16.70                                      | 18.39                                      |
|                                        | Heating                        |         | kW            | 17.40                                      | 19.20                                      | 19.05                                      | 21.16                                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW            | 24.35                                      | 26.59                                      | 27.93                                      | 29.05                                      |
| COP                                    | Cooling                        |         |               | 4.75                                       | 4.54                                       | 5.03                                       | 4.87                                       |
|                                        | Heating                        |         |               | 4.71                                       | 4.59                                       | 4.96                                       | 4.76                                       |
| ESEER                                  |                                |         |               | -10°C ~ 43°C                               | -10°C ~ 43°C                               | -10°C ~ 43°C                               | -10°C ~ 43°C                               |
| Operation Range                        | Cooling                        | Min-Max | °C DB         | -25°C ~ 18°C                               | -25°C ~ 18°C                               | -25°C ~ 18°C                               | -25°C ~ 18°C                               |
|                                        | Heating                        | Min-Max | °C WB         | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 | Hermetically Sealed Scroll                 |
| Compressor                             | Type                           |         |               | 2                                          | 2                                          | 3                                          | 3                                          |
|                                        | Number of Compressor           |         |               | Propeller fan                              | Propeller fan                              | Propeller fan                              | Propeller fan                              |
| Fan                                    | Type                           |         |               | DC Inverter motor                          | DC Inverter motor                          | DC Inverter motor                          | DC Inverter motor                          |
|                                        | Motor Type                     |         |               | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                | 8mmAq(80Pa)                                |
|                                        | Max static pressure            |         |               | 290 + 210                                  | 290 + 210                                  | 290 + 210                                  | 250 + 210                                  |
|                                        |                                |         |               |                                            | 4833 + 3500                                | 4833 + 3500                                | 4833 + 3500                                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min<br>l/s | 290 + 210<br>4833 + 3500                   | 290 + 210<br>4833 + 3500                   | 290 + 210<br>4833 + 3500                   | 290 x 2<br>4833 x 2                        |
| Sound Pressure                         |                                | Max     | dBA           | 73.0                                       | 73.0                                       | 73.3                                       | 73.3                                       |
| Sound Power                            |                                | Max     | dBA           | 82.0                                       | 82.0                                       | 82.3                                       | 82.3                                       |
| Dimensions                             |                                | WxHxD   | mm            | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 | (1,240×1,680×760)×1 +<br>(920×1,680×760)×1 |
| Net Weight                             |                                |         | kg            | R410A                                      | R410A                                      | R410A                                      | R410A                                      |
| Refrigerant                            | Type                           |         |               | 10.5 + 7.5                                 | 10.5 + 7.5                                 | 10.5 + 7.5                                 | 10.5 + 7.5                                 |
|                                        | Charge                         |         | kg            | EEV                                        | EEV                                        | EEV                                        | EEV                                        |
| Refrigerant Oil                        | Control                        |         |               | FVC68D(PVE)                                | FVC68D(PVE)                                | FVC68D(PVE)                                | FVC68D(PVE)                                |
|                                        | Type                           |         |               | 5,200                                      | 5,200                                      | 6,200                                      | 6,200                                      |
|                                        | Capacity                       |         | cc            | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           | 3 / 380-415 / 50                           |
| Power Supply                           |                                |         | ø/V/Hz        | 2C × 1.0 ~ 1.5                             | 2C × 1.0 ~ 1.5                             | 2C × 1.0 ~ 1.5                             | 2C × 1.0 ~ 1.5                             |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm²     | 1,000                                      | 1,000                                      | 1,000                                      | 1,000                                      |
| Piping Length                          | Total                          | Max     | m             | 200(225)                                   | 200(225)                                   | 200(225)                                   | 200(225)                                   |
|                                        | Actual Longest Piping Length * | Max     | m             | 40(90)                                     | 40(90)                                     | 40(90)                                     | 40(90)                                     |
|                                        | After 1st Y branch **          | Max     | m             | 110                                        | 110                                        | 110                                        | 110                                        |
| Piping Level Difference                | IDU-ODU                        | Max     | m             | 40                                         | 40                                         | 40                                         | 40                                         |
|                                        | IDU-IDU                        | Max     | m             | 19.05(3/4)                                 | 19.05(3/4)                                 | 19.05(3/4)                                 | 19.05(3/4)                                 |
| Piping Connection                      | Liquid                         |         | mm(inch)      | 34.9(1-3/8)                                | 34.9(1-3/8)                                | 34.9(1-3/8)                                | 34.9(1-3/8)                                |
|                                        | Gas                            |         | mm(inch)      | 28.58(1-1/8)                               | 28.58(1-1/8)                               | 28.58(1-1/8)                               | 28.58(1-1/8)                               |
| Number of Outdoor Units                |                                |         |               | 2                                          | 2                                          | 2                                          | 2                                          |
| Number of Connectable Indoor Units *** |                                |         | Max           | 42(52)                                     | 45(56)                                     | 49(60)                                     | 52(64)                                     |
| Ratio of the Connectable Indoor Units  |                                |         | Min-Max       | 50 ~ 160%                                  | 50 ~ 160%                                  | 50 ~ 160%                                  | 50 ~ 160%                                  |
| Heat exchanger                         | Type                           |         |               | Wide Louver Plus Fin                       | Wide Louver Plus Fin                       | Wide Louver Plus Fin                       | Wide Louver Plus Fin                       |



HEAT RECOVERY

| Class                                  |                                |         |           | 34                         | 36                         | 38                         | 40                         |
|----------------------------------------|--------------------------------|---------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  | Combination unit               |         |           | ARUB340LTE4                | ARUB360LTE4                | ARUB380LTE4                | ARUB400LTE4                |
|                                        | Independent unit               |         |           | ARUB140LTE4                | ARUB160LTE4                | ARUB180LTE4                | ARUB200LTE4                |
|                                        |                                |         |           | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                |
| Capacity                               | Cooling                        |         | kW        | 95.2                       | 100.8                      | 112                        | 112                        |
|                                        | Heating                        |         | kW        | 107.1                      | 113.4                      | 126                        | 126                        |
| Low Temperature Capacity               | Heating -7℃                    | Max     | kW        | 107.1                      | 113.4                      | 126                        | 126                        |
| Power Input                            | Cooling                        |         | kW        | 20.02                      | 21.96                      | 23.08                      | 23.08                      |
|                                        | Heating                        |         | kW        | 22.96                      | 24.76                      | 26.72                      | 26.72                      |
| Low Temperature Power Input            | Heating -7℃                    | Max     | kW        | 30.36                      | 32.60                      | 35.06                      | 35.06                      |
| COP                                    | Cooling                        |         |           | 4.76                       | 4.59                       | 4.85                       | 4.85                       |
|                                        | Heating                        |         |           | 4.66                       | 4.58                       | 4.72                       | 4.72                       |
| Operation Range                        | Cooling                        | Min-Max | ℃ DB      | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 | -10℃ ~ 43℃                 |
|                                        | Heating                        | Min-Max | ℃ WB      | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 | -25℃ ~ 18℃                 |
| Compressor                             | Type                           |         |           | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |           | 3                          | 3                          | 4                          | 4                          |
| Fan                                    | Type                           |         |           | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |           | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |           | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min    | 290 x 2                    | 290 x 2                    | 290 x 2                    | 290 x 2                    |
|                                        |                                |         | l/s       | 4833 x 2                   | 4833 x 2                   | 4833 x 2                   | 4833 x 2                   |
| Sound Pressure                         |                                | Max     | dBA       | 62.3                       | 62.3                       | 62.5                       | 62.5                       |
| Sound Power                            |                                | Max     | dBA       | 82.3                       | 82.3                       | 82.5                       | 82.5                       |
| Dimensions                             |                                | WxHxD   | mm        | (1,240 × 1,680 × 760) × 2  | (1,240 × 1,680 × 760) × 2  | (1,240 × 1,680 × 760) × 2  | (1,240 × 1,680 × 760) × 2  |
| Net Weight                             |                                |         | kg        | 280 × 1 + 245 × 1          | 280 × 1 + 245 × 1          | 280 × 2                    | 280 × 2                    |
| Refrigerant                            | Type                           |         |           | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg        | 10.5 × 2                   | 10.5 × 2                   | 10.5 × 2                   | 10.5 × 2                   |
| Refrigerant Oil                        | Control                        |         |           | EEV                        | EEV                        | EEV                        | EEV                        |
|                                        | Type                           |         |           | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc        | 6,200                      | 6,200                      | 6,200                      | 6,200                      |
| Power Supply                           |                                |         | ø/V/Hz    | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           | 3 / 380-415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm² | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             | 2C × 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m         | 1,000                      | 1,000                      | 1000                       | 1000                       |
|                                        | Actual Longest Piping Length * | Max     | m         | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m         | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m         | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m         | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch)  | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 |
|                                        | Low Pressure Gas               |         | mm(inch)  | 34.9(1-3/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                |
|                                        | High Pressure Gas              |         | mm(inch)  | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               | 28.58(1-1/8)               |
| Number of Outdoor Units                |                                |         |           | 2                          | 2                          | 2                          | 2                          |
| Number of Connectable Indoor Units *** |                                |         |           | 55(64)                     | 58(64)                     | 61(64)                     | 64                         |
| Ratio of the Connectable Indoor Units  |                                |         |           | 50 ~ 160%                  | 50 ~ 160%                  | 50 ~ 160%                  | 50 ~ 160%                  |
| Heat exchanger                         | Type                           |         |           | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |



HEAT RECOVERY

| Class                                  |                                |         |          | 42                                                  | 44                                                  | 46                                      |
|----------------------------------------|--------------------------------|---------|----------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------|
| Model                                  | Combination unit               |         |          | ARUB420LTE4                                         | ARUB440LTE4                                         | ARUB460LTE4                             |
|                                        | Independent unit               |         |          | ARUB100LTE4                                         | ARUB100LTE4                                         | ARUB100LTE4                             |
|                                        |                                |         |          | ARUB140LTE4                                         | ARUB140LTE4                                         | ARUB160LTE4                             |
|                                        |                                |         |          | ARUB180LTE4                                         | ARUB200LTE4                                         | ARUB200LTE4                             |
| Capacity                               | Cooling                        |         | kW       | 17.6                                                | 123.2                                               | 128.8                                   |
|                                        | Heating                        |         | kW       | 132.3                                               | 138.6                                               | 144.9                                   |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW       | 132.3                                               | 138.6                                               | 144.9                                   |
| Power Input                            | Cooling                        |         | kW       | 23.71                                               | 25.40                                               | 27.34                                   |
|                                        | Heating                        |         | kW       | 26.34                                               | 28.45                                               | 30.25                                   |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW       | 38.37                                               | 39.49                                               | 41.73                                   |
| COP                                    | Cooling                        |         |          | 0.74                                                | 4.85                                                | 4.71                                    |
|                                        | Heating                        |         |          | 5.02                                                | 4.87                                                | 4.79                                    |
| Operation Range                        | Cooling                        | Min-Max | °C DB    | -10°C ~ 43°C                                        | -10°C ~ 43°C                                        | -10°C ~ 43°C                            |
|                                        | Heating                        | Min-Max | °C WB    | -25°C ~ 18°C                                        | -25°C ~ 18°C                                        | -25°C ~ 18°C                            |
| Compressor                             | Type                           |         |          | Hermetically Sealed Scroll                          | Hermetically Sealed Scroll                          | Hermetically Sealed Scroll              |
|                                        | Number of Compressor           |         |          | 4                                                   | 4                                                   | 4                                       |
| Fan                                    | Type                           |         |          | Propeller fan                                       | Propeller fan                                       | Propeller fan                           |
|                                        | Motor Type                     |         |          | DC Inverter motor                                   | DC Inverter motor                                   | DC Inverter motor                       |
|                                        | Max static pressure            |         |          | 8mmAq(80Pa)                                         | 8mmAq(80Pa)                                         | 8mmAq(80Pa)                             |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min   | 290 x 2 + 210                                       | 290 x 2 + 210                                       | 290 x 2 + 210                           |
|                                        |                                |         | l/s      | 4888 x 2 + 3500                                     | 4888 x 2 + 3500                                     | 4888 x 2 + 3500                         |
| Sound Pressure                         |                                | Max     | dBA      | 63.9                                                | 63.9                                                | 63.9                                    |
| Sound Power                            |                                | Max     | dBA      | 83.9                                                | 83.9                                                | 83.9                                    |
| Dimensions                             |                                | WxHxD   | mm       | (1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1 | (1,240 × 1,680 × 760) × 2 + (920 × 1,680 × 760) × 1 | (1,240×1,680×760)×2 + (920×1,680×760)×1 |
| Net Weight                             |                                |         | kg       | 280 × 1 + 245 × 1 + 208 × 1                         | 280 × 1 + 245 × 1 + 208 × 1                         | 280 × 1 + 245 × 1 + 208 × 1             |
| Refrigerant                            | Type                           |         |          | R410A                                               | R410A                                               | R410A                                   |
|                                        | Charge                         |         | kg       | (10.5 × 2) + 7.5                                    | (10.5 × 2) + 7.5                                    | (10.5 × 2) + 7.5                        |
|                                        | Control                        |         |          | EEV                                                 | EEV                                                 | EEV                                     |
| Refrigerant Oil                        | Type                           |         |          | FVC68D(PVE)                                         | FVC68D(PVE)                                         | FVC68D(PVE)                             |
|                                        | Capacity                       |         | cc       | 8,800                                               | 8,800                                               | 8,800                                   |
| Power Supply                           |                                |         | ø/V/Hz   | 3 / 380-415 / 50                                    | 3 / 380-415 / 50                                    | 3 / 380-415 / 50                        |
| Transmission Cable (VCTF-SB)           |                                |         | No.xmm²  | 2C × 1.0 ~ 1.5                                      | 2C × 1.0 ~ 1.5                                      | 2C × 1.0 ~ 1.5                          |
| Piping Length                          | Total                          | Max     | m        | 1,000                                               | 1,000                                               | 1,000                                   |
|                                        | Actual Longest Piping Length * | Max     | m        | 200(225)                                            | 200(225)                                            | 200(225)                                |
|                                        | After 1st Y branch **          | Max     | m        | 40(90)                                              | 40(90)                                              | 40(90)                                  |
| Piping Level Difference                | IDU-ODU                        | Max     | m        | 110                                                 | 110                                                 | 110                                     |
|                                        | IDU-IDU                        | Max     | m        | 40                                                  | 40                                                  | 40                                      |
| Piping Connection                      | Liquid                         |         | mm(inch) | 19.05(3/4)                                          | 19.05(3/4)                                          | 19.05(3/4)                              |
|                                        | Low Pressure Gas               |         | mm(inch) | 41.3(1-5/8)                                         | 41.3(1-5/8)                                         | 41.3(1-5/8)                             |
|                                        | High Pressure Gas              |         | mm(inch) | 34.9(1-3/8)                                         | 34.9(1-3/8)                                         | 34.9(1-3/8)                             |
| Number of Outdoor Units                |                                |         |          | 3                                                   | 3                                                   | 3                                       |
| Number of Connectable Indoor Units *** |                                |         |          | 64                                                  | 64                                                  | 64                                      |
| Ratio of the Connectable Indoor Units  |                                |         |          | 50 ~ 130%                                           | 50 ~ 130%                                           | 50 ~ 130%                               |
| Heat exchanger                         | Type                           |         |          | Wide Louver Plus Fin                                | Wide Louver Plus Fin                                | Wide Louver Plus Fin                    |



HEAT RECOVERY

| Class                                  |                                |         |           | 48                                      | 50                                      | 52                                      |
|----------------------------------------|--------------------------------|---------|-----------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Model                                  | Combination unit               |         |           | ARUB480LTE4                             | ARUB500LTE4                             | ARUB520LTE4                             |
|                                        | Independent unit               |         |           | ARUB100LTE4                             | ARUB100LTE4                             | ARUB120LTE4                             |
|                                        |                                |         |           | ARUB180LTE4                             | ARUB200LTE4                             | ARUB200LTE4                             |
|                                        |                                |         |           | ARUB200LTE4                             | ARUB200LTE4                             | ARUB200LTE4                             |
| Capacity                               | Cooling                        |         | kW        | 134.4                                   | 140.0                                   | 145.6                                   |
|                                        | Heating                        |         | kW        | 151.2                                   | 157.5                                   | 163.8                                   |
| Low Temperature Capacity               | Heating -7℃                    | Max     | kW        | 151.2                                   | 157.5                                   | 163.8                                   |
| Power Input                            | Cooling                        |         | kW        | 26.77                                   | 28.46                                   | 29.93                                   |
|                                        | Heating                        |         | kW        | 30.10                                   | 32.21                                   | 34.52                                   |
| Low Temperature Power Input            | Heating -7℃                    | Max     | kW        | 43.07                                   | 44.19                                   | 46.58                                   |
| COP                                    | Cooling                        |         |           | 5.02                                    | 4.92                                    | 4.86                                    |
|                                        | Heating                        |         |           | 5.02                                    | 4.89                                    | 4.75                                    |
| Operation Range                        | Cooling                        | Min-Max | ℃ DB      | -10℃ ~ 43℃                              | -10℃ ~ 43℃                              | -10℃ ~ 43℃                              |
|                                        | Heating                        | Min-Max | ℃ WB      | -25℃ ~ 18℃                              | -25℃ ~ 18℃                              | -25℃ ~ 18℃                              |
| Compressor                             | Type                           |         |           | Hermetically Sealed Scroll              | Hermetically Sealed Scroll              | Hermetically Sealed Scroll              |
|                                        | Number of Compressor           |         |           | 5                                       | 5                                       | 5                                       |
| Fan                                    | Type                           |         |           | Propeller fan                           | Propeller fan                           | Propeller fan                           |
|                                        | Motor Type                     |         |           | DC Inverter motor                       | DC Inverter motor                       | DC Inverter motor                       |
|                                        | Max static pressure            |         |           | 8mmAq(80Pa)                             | 8mmAq(80Pa)                             | 8mmAq(80Pa)                             |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min    | 290 x 2 + 210                           | 290 x 2 + 210                           | 290 x 2 + 210                           |
|                                        |                                |         | l/s       | 4888 x 2 + 3500                         | 4888 x 2 + 3500                         | 4888 x 2 + 3500                         |
| Sound Pressure                         |                                | Max     | dBA       | 64.1                                    | 64.1                                    | 64.1                                    |
| Sound Power                            |                                | Max     | dBA       | 84.1                                    | 84.1                                    | 84.1                                    |
| Dimensions                             |                                | WxHxD   | mm        | (1,240×1,680×760)×2 + (920×1,680×760)×1 | (1,240×1,680×760)×2 + (920×1,680×760)×1 | (1,240×1,680×760)×2 + (920×1,680×760)×1 |
| Net Weight                             |                                |         | kg        | 280 x 2 + 208 x 1                       | 280 x 2 + 208 x 1                       | 280 x 2 + 208 x 1                       |
| Refrigerant                            | Type                           |         |           | R410A                                   | R410A                                   | R410A                                   |
|                                        | Charge                         |         | kg        | (10.5 x 2) + 7.5                        | (10.5 x 2) + 7.5                        | (10.5 x 2) + 7.5                        |
|                                        | Control                        |         |           | EEV                                     | EEV                                     | EEV                                     |
| Refrigerant Oil                        | Type                           |         |           | FVC68D(PVE)                             | FVC68D(PVE)                             | FVC68D(PVE)                             |
|                                        | Capacity                       |         | cc        | 9,800                                   | 9,800                                   | 9,800                                   |
| Power Supply                           |                                |         | ø/V/Hz    | 3 / 380-415 / 50                        | 3 / 380-415 / 50                        | 3 / 380-415 / 50                        |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm² | 2C x 1.0 ~ 1.5                          | 2C x 1.0 ~ 1.5                          | 2C x 1.0 ~ 1.5                          |
| Piping Length                          | Total                          | Max     | m         | 1,000                                   | 1,000                                   | 1,000                                   |
|                                        | Actual Longest Piping Length * | Max     | m         | 200(225)                                | 200(225)                                | 200(225)                                |
|                                        | After 1st Y branch **          | Max     | m         | 40(90)                                  | 40(90)                                  | 40(90)                                  |
| Piping Level Difference                | IDU-ODU                        | Max     | m         | 110                                     | 110                                     | 110                                     |
|                                        | IDU-IDU                        | Max     | m         | 40                                      | 40                                      | 40                                      |
| Piping Connection                      | Liquid                         |         | mm(inch)  | 19.05(3/4)                              | 19.05(3/4)                              | 19.05(3/4)                              |
|                                        | Low Pressure Gas               |         | mm(inch)  | 41.3(1-5/8)                             | 41.3(1-5/8)                             | 41.3(1-5/8)                             |
|                                        | High Pressure Gas              |         | mm(inch)  | 34.9(1-3/8)                             | 34.9(1-3/8)                             | 34.9(1-3/8)                             |
| Number of Outdoor Units                |                                |         |           | 3                                       | 3                                       | 3                                       |
| Number of Connectable Indoor Units *** |                                |         | Max       | 64                                      | 64                                      | 64                                      |
| Ratio of the Connectable Indoor Units  |                                |         | Min-Max   | 50 ~ 130%                               | 50 ~ 130%                               | 50 ~ 130%                               |
| Heat exchanger                         | Type                           |         |           | Wide Lower Plus Fin                     | Wide Lower Plus Fin                     | Wide Lower Plus Fin                     |





HEAT RECOVERY

| Class                                  |                                |         |           | 54                         | 56                         | 58                         | 60                         |
|----------------------------------------|--------------------------------|---------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|
| Model                                  | Combination unit               |         |           | ARUB540LTE4                | ARUB560LTE4                | ARUB580LTE4                | ARUB600LTE5                |
|                                        | Independent unit               |         |           | ARUB140LTE4                | ARUB160LTE4                | ARUB180LTE4                | ARUB200LTE4                |
|                                        |                                |         |           | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                |
|                                        |                                |         |           | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                | ARUB200LTE4                |
| Capacity                               | Cooling                        |         | kW        | 151.2                      | 156.8                      | 162.4                      | 168.0                      |
|                                        | Heating                        |         | kW        | 170.1                      | 176.4                      | 182.7                      | 189.0                      |
| Low Temperature Capacity               | Heating -7°C                   | Max     | kW        | 170.1                      | 176.4                      | 182.7                      | 189.0                      |
| Power Input                            | Cooling                        |         | kW        | 31.56                      | 33.50                      | 32.93                      | 34.62                      |
|                                        | Heating                        |         | kW        | 36.32                      | 38.12                      | 37.97                      | 40.08                      |
| Low Temperature Power Input            | Heating -7°C                   | Max     | kW        | 47.89                      | 50.13                      | 51.47                      | 52.59                      |
| COP                                    | Cooling                        |         |           | 4.79                       | 4.68                       | 4.93                       | 4.85                       |
|                                        | Heating                        |         |           | 4.68                       | 4.63                       | 4.81                       | 4.72                       |
| Operation Range                        | Cooling                        | Min-Max | °C DB     | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               | -10°C ~ 43°C               |
|                                        | Heating                        | Min-Max | °C WB     | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               | -25°C ~ 18°C               |
| Compressor                             | Type                           |         |           | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
|                                        | Number of Compressor           |         |           | 5                          | 5                          | 5                          | 5                          |
| Fan                                    | Type                           |         |           | Propeller fan              | Propeller fan              | Propeller fan              | Propeller fan              |
|                                        | Motor Type                     |         |           | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          | DC Inverter motor          |
|                                        | Max static pressure            |         |           | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                | 8mmAq(80Pa)                |
| Airflow Rate                           | Air Flow Rate(High)            | Max     | m³/min    | 290 x 3                    | 290 x 3                    | 290 x 3                    | 290 x 3                    |
|                                        |                                |         | l/s       | 4833 x 3                   | 4833 x 3                   | 4833 x 3                   | 4833 x 3                   |
| Sound Pressure                         |                                | Max     | dBA       | 64.1                       | 64.1                       | 64.3                       | 64.3                       |
| Sound Power                            |                                | Max     | dBA       | 84.1                       | 84.1                       | 84.3                       | 84.3                       |
| Dimensions                             |                                | WxHxD   | mm        | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  | (1,240 x 1,680 x 760) x 3  |
| Net Weight                             |                                |         | kg        | 280 x 2 + 245 x 1          | 280 x 2 + 245 x 1          | 280 x 3                    | 280 x 3                    |
| Refrigerant                            | Type                           |         |           | R410A                      | R410A                      | R410A                      | R410A                      |
|                                        | Charge                         |         | kg        | 10.5 x 3                   | 10.5 x 3                   | 10.5 x 3                   | 10.5 x 3                   |
|                                        | Control                        |         |           | EEV                        | EEV                        | EEV                        | EEV                        |
| Refrigerant Oil                        | Type                           |         |           | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                | FVC68D(PVE)                |
|                                        | Capacity                       |         | cc        | 9,800                      | 9,800                      | 10,800                     | 10,800                     |
| Power Supply                           |                                |         | ø/V/Hz    | 3 / 380~415 / 50           | 3 / 380~415 / 50           | 3 / 380~415 / 50           | 3 / 380~415 / 50           |
| Transmission Cable (VCTF-SB)           |                                |         | No. x mm² | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             | 2C x 1.0 ~ 1.5             |
| Piping Length                          | Total                          | Max     | m         | 1,000                      | 1,000                      | 1,000                      | 1,000                      |
|                                        | Actual Longest Piping Length * | Max     | m         | 200(225)                   | 200(225)                   | 200(225)                   | 200(225)                   |
|                                        | After 1st Y branch **          | Max     | m         | 40(90)                     | 40(90)                     | 40(90)                     | 40(90)                     |
| Piping Level Difference                | IDU-ODU                        | Max     | m         | 110                        | 110                        | 110                        | 110                        |
|                                        | IDU-IDU                        | Max     | m         | 40                         | 40                         | 40                         | 40                         |
| Piping Connection                      | Liquid                         |         | mm(inch)  | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 | 19.05(3/4)                 |
|                                        | Low Pressure Gas               |         | mm(inch)  | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                | 41.3(1-5/8)                |
|                                        | High Pressure Gas              |         | mm(inch)  | 34.9(1-3/8)                | 34.9(1-3/8)                | 34.9(1-3/8)                | 34.9(1-3/8)                |
| Number of Outdoor Units                |                                |         |           | 3                          | 3                          | 3                          | 3                          |
| Number of Connectable Indoor Units *** |                                | Max     |           | 64                         | 64                         | 64                         | 64                         |
| Ratio of the Connectable Indoor Units  |                                | Min-Max |           | 50 ~ 130%                  | 50 ~ 130%                  | 50 ~ 130%                  | 50 ~ 130%                  |
| Heat exchanger                         | Type                           |         |           | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       | Wide Louver Plus Fin       |

\* ( ) : equivalent length  
\*\* Conditional Application  
To make 40~90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB  
\*\*\* ( ) : the number of max. connectable outdoor units, for max indoor unit combination ratio (refer to the table below)

- 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. Capacities are net capacities

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

4. EEV : Electronic Expansion Valve
- CAUTION

• A combination operation over 100% cause to reduce each indoor unit capacity

• Combination ratio(50~200%)

| No. of outdoor unit | Connection Capacity |
|---------------------|---------------------|
| Single unit         | 200%                |
| Double unit         | 160%                |
| Triple unit         | 130%                |
- We can guarantee the capacity of the system only within 130% Combination. In combinations greater than 130% connection ratio system capacity will be diversified.  
If you want to connect more than 130% combination, please contact us and discuss the requirement like below.  
1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.  
2) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.
- 36
- 37
- HEAT RECOVERY
- OUTDOOR UNIT



# INDOOR UNIT

If you need a highly efficient air conditioning system in your building, MULTI V is the right choice for you

- 042 **Wall Mounted**
- 045 **Ceiling Concealed Ducts**
- 046 **Ceiling Cassettes**
- 048 **Ceiling & Floor / Ceiling Suspended**
- 049 **Floor Standing**
- 050 **Fresh Air Intake Unit**

# MULTI V™

## INDOOR UNIT LINE UP

If you need a highly efficient air conditioning system in your building, MULTI V is the right choice for you

| kW                     |                          |                                                                                     | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 |  | 5.6 | 7.1 | 8.2 | 10.6 | 12.3 | 14.1 | 16.0 | 18.0 | 20.0 | 22.4 | 28.0 |
|------------------------|--------------------------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|--|-----|-----|-----|------|------|------|------|------|------|------|------|
| Btu / h                |                          |                                                                                     | 5k  | 7k  | 9k  | 12k | 15k |  | 18k | 24k | 28k | 36k  | 42k  | 48k  | 54k  | 62k  | 68k  | 76k  | 96k  |
| SRAC                   | Wall Mounted             |    |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | Gallery                  |    |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | Mirror                   |    |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Ceiling Cassette       | 4 Way Cassette (570x570) |    |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | 4 Way Cassette (840x840) |   |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | 2 Way Cassette           |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | 1 Way Cassette           |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Ceiling Concealed Duct | Low Static               |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | Built-in                 |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | High Static              |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Ceiling & Floor        |                          |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Ceiling Suspended      |                          |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Floor Standing         | With Case                |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
|                        | Without Case             |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Frech AirIntake Unit   |                          |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |
| Eco V II               |                          |  |     |     |     |     |     |  |     |     |     |      |      |      |      |      |      |      |      |

# WALL MOUNTED

Gallery / Panel / Mirror

## Aesthetic Design

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

### How to Change the Picture



### Mirror



Mirror  
07/09/12/15GSER2  
18/24GS8R2



Silver  
07/09/12/15GSEV2  
18/24GS8V2

### Panel Type



Silver  
07/09/12GSFV2



Gold  
07/09/12GSFG2



Red  
07/09/12GSFE2

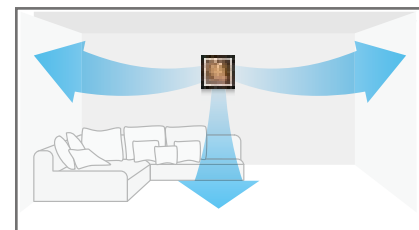


White silver  
07/09/12GSFH2

## Digital Air Flow Control

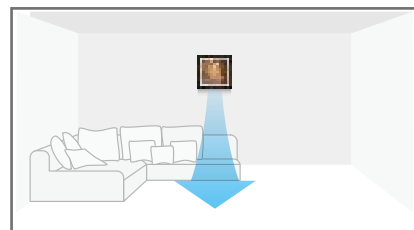
The air flow can be controlled to ensure maximum comfort and convenience.

### Normal



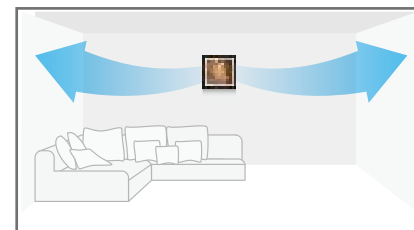
Fast, wide and even

### Jet cool



Speedy and powerful

### Sleep mode



Indirect and low noise

# WALL MOUNTED

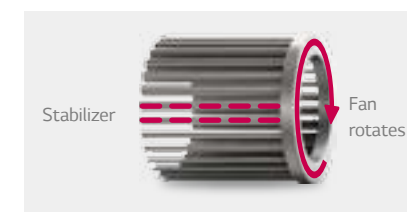
Gallery / Panel / Mirror

## Low Noise Level\*

The indoor unit operates quietly in sleep mode for peace and quiet for in bedroom or office. For example, LG model ARNU09GSBL2, ARNU12GSBL2 in sleep mode is only 19dB. In addition, the outdoor units have reduced vibration and noise thanks to a super quiet fan and motor.

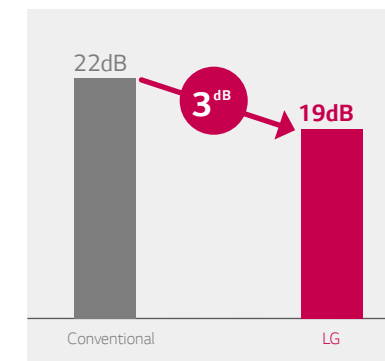
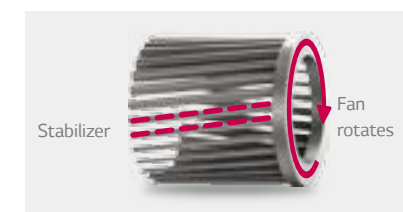
### Conventional Fan

When the fan rotates, the stabiliser and the fan blade are in parallel  
(= the contact of lines)  
→ Instantaneous pressure change is great.



### Skew Fan

When the fan rotates, the stabiliser and the fan blade are not in parallel  
(= the contact of points)  
→ Instantaneous pressure change is small.

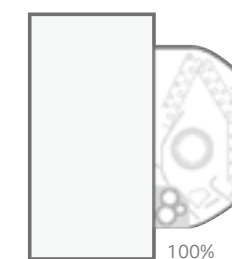


\*In heating mode and oil recovery mode some refrigerant noise may occasionally be noticeable.

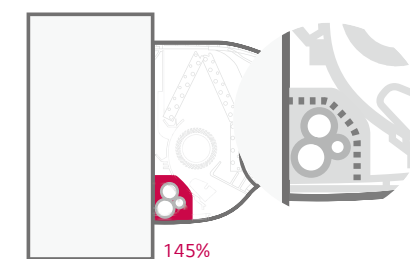
## Wider Piping Space

The tubing space is up to 45% wider than previous models for easier installation.  
The tubing space is wider than many products currently on the market.

### Conventional

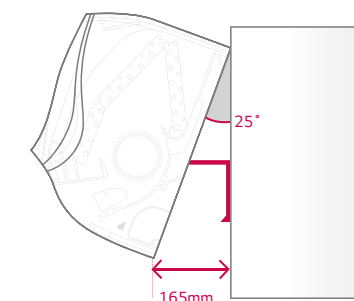


### LG



## Installation Support Clip

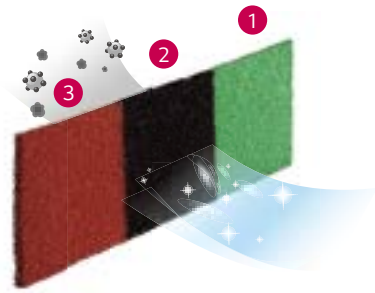
A support clip creates adequate space between the wall and the unit for easier installation.



# WALL MOUNTED

## Triple filter

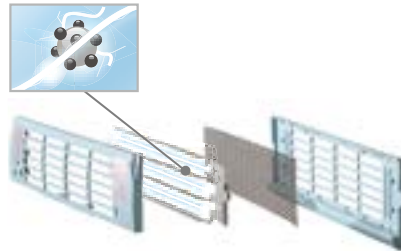
Removes chemical particles and other odour emanating from different sources including tobacco.



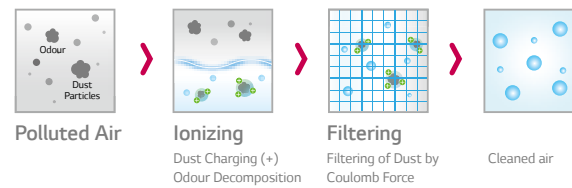
- 1 VOC filter**  
removes odour and hazardous VOCs that are discharged from household materials made out of chemical substances (carpet, paint, cleaners, furniture, etc.)  
(VOC= Volatile Organic Chemical)
- 2 Formaldehyde filter**  
blocks formaldehyde.
- 3 Common odour filter**  
removes ordinary odours.

## Plasmaster™ Filter

Tiny dust particles are burnt and eliminated when captured by the electric field. The plasma air purifying system can reduce microscopic contaminants and dust. This filter removes house mites, micro dust, and pet fur.



How it works



## NCB Filter

Nano-size carbon filters catch fine odorous particles doubly and completely, and removes odours from the household, thus offering a pleasant environment.

What is a NCB(Nano Carbon Ball) Filter?

Nano Carbon Ball consists of a vast system of pores of Ultra Nano size. These pores are highly adsorbent, forming a strong chemical bond / attraction to odorous gaseous, and liquid contaminant. Nano carbon, was used for the first time in the world as a deodourizing material.

## Pre Filter

The pre filter enables easier cleaning of the air conditioner unit.

Easy to Open

Ez-Detachable Grille : The simple bottom to top cover makes cleaning of the air conditioner a lot easier.

Easy to Clean

Ez-Cleaning Filter : The filter is designed for easier handling and cleaning which thus enables longer use.

## Auto Cleaning with odour prevention

The Odour Prevention function reduces unwanted odours and mould build up on the heat exchanger.



Drying

By reducing humidity and bacteria left in the air conditioner, the Odour Prevention function removes substances that might be harmful to human body.

Deodorizing

The indoor environment remains odourless with the advanced deodorizing function.

High Performing

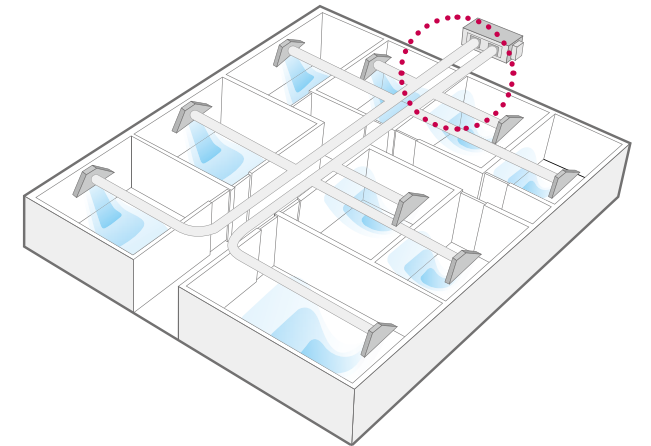
By preventing the pollution of the heat exchanger by various germs and bacteria, the cooling performance and longevity of the air conditioner is maintained.

**MULTI V™**

# CEILING CONCEALED DUCT

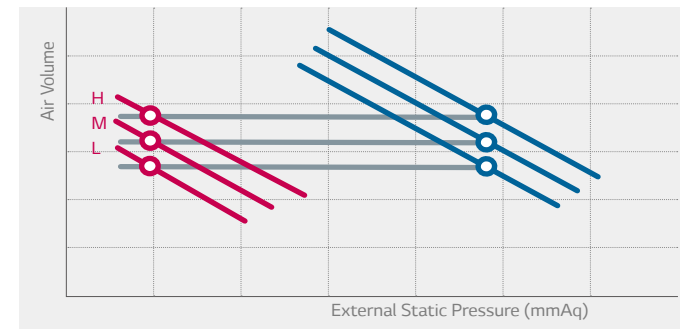
## Operation for Multiple Rooms

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



## E.S.P. Control

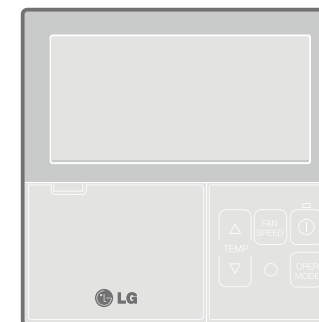
The BLDC motor and low noise fan means that air volume can be easily controlled by using the wired remote controller.  
The BLDC motor can control the fan speed and air volume regardless of the external static pressure(E.S.P.)  
With E.S.P control no additional accessories are needed to adjust the air flow and the energy consumption of the fan is also reduced.



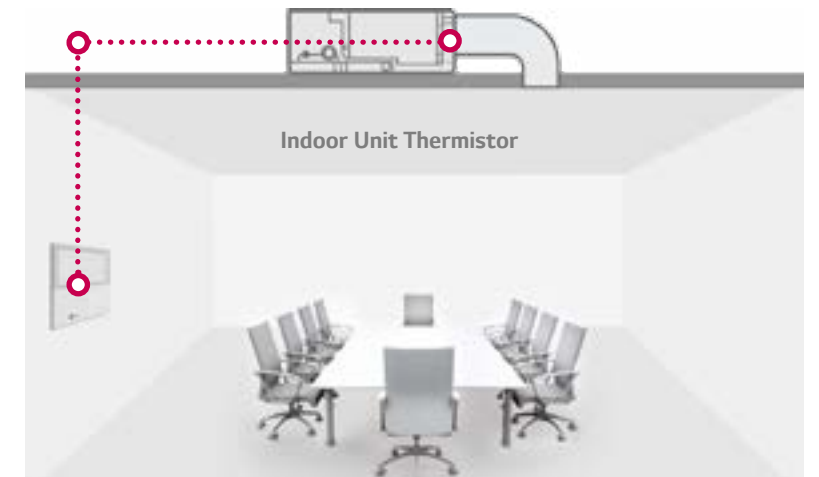
## Two Thermistors Control

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

Remote Controller Thermistor



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



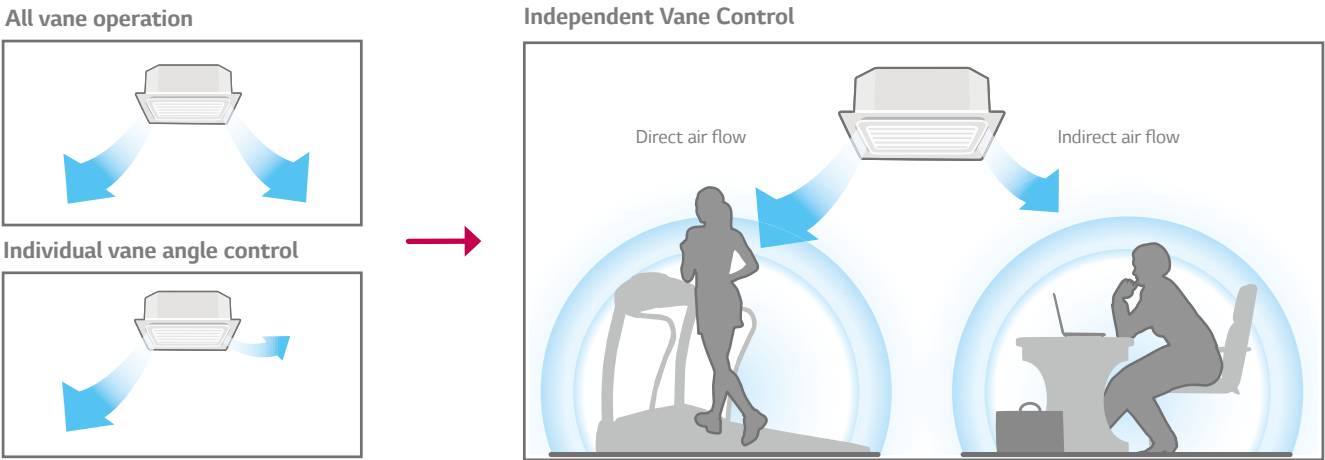


# MULTI V™

## CEILING CASSETTE

### Independent Vane Control

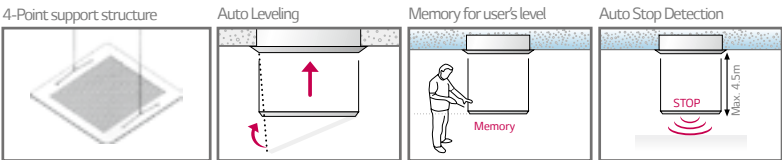
It is possible to control each of the 4 vanes individually as the motors are connected separately to each vane.



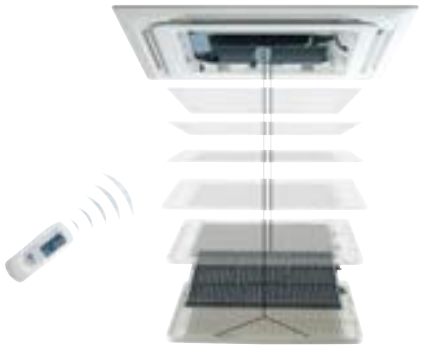
### Auto Elevation Grille

Easy filter cleaning with elevation grill

- Installation inside main body  
- 4 points support structure  
- Max 4.5m length
- Auto horizontal control  
- Memory for user's level  
- Model : PTEGM0

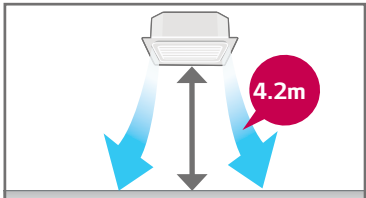


\* Except ARNU05GTRC2, ARNU07GTRC2, ARNU09GTRC2, ARNU12GTRC2, ARNU15GTRC2, ARNU18GTRC2  
\* Operating with wired remote controller PQRCVSL0(QW) and wireless remote controller included in PTEGM0.



### High Ceiling Mode

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



### Reduced Height

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

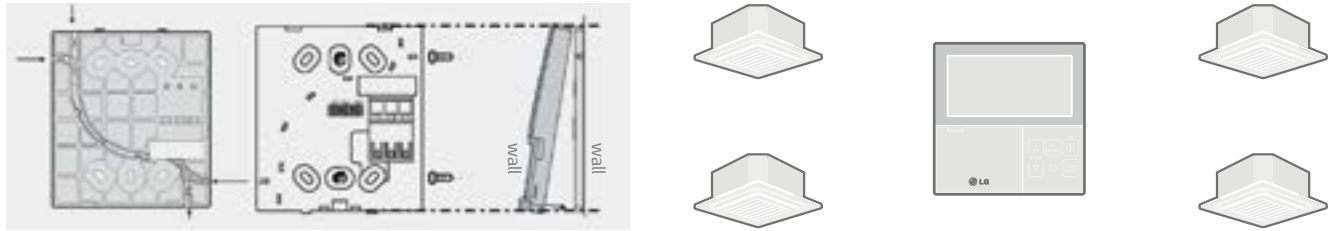
|              | 6.0~7.2 kW | 8.3~11.0 kW |
|--------------|------------|-------------|
| conventional | 218mm      | 288mm       |
| LG           | 204mm      | 246mm       |

### Flexible Connection

Flexible connection of remote controller

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

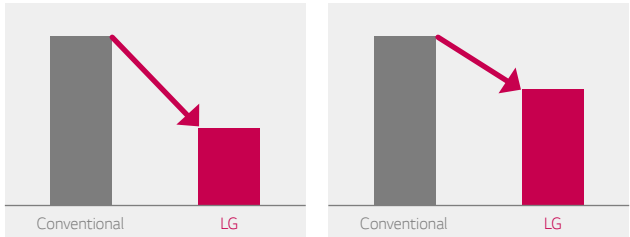
Easy & solid attachment to the wall



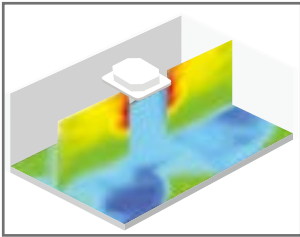
### Swirl Swing

Swirl swing distributes air evenly throughout the room to ensure a more comfortable environment by adjusting the movement of the vane.

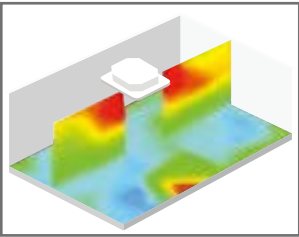
Comparison of temperatures



Normal air flow



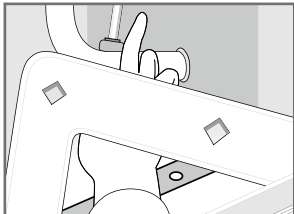
Swirl swing (pleasant air)



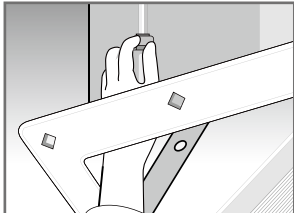
### Convenient Panel Installation

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

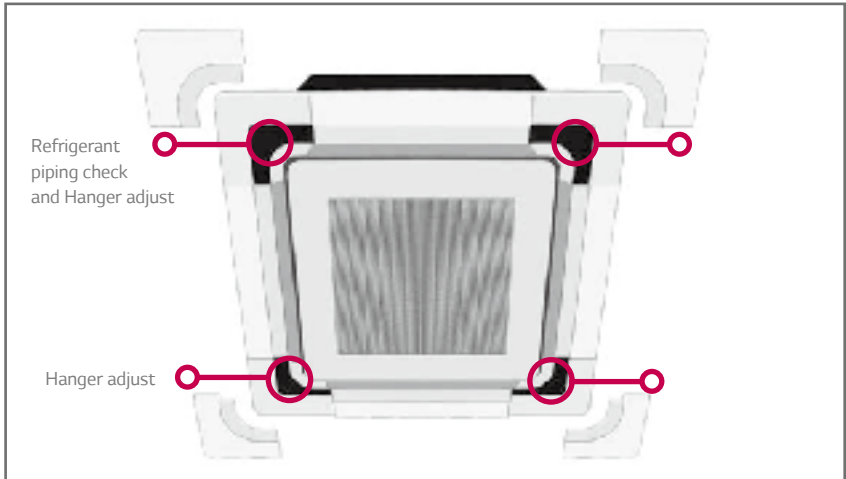
Drain leakage check



Hanger adjust



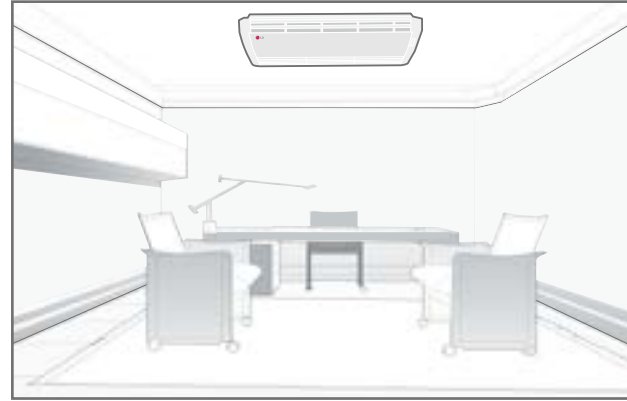
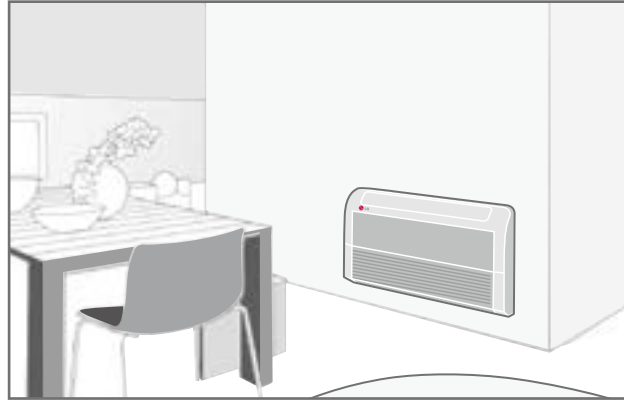
Detachable Corner Design



# CEILING & FLOOR CEILING SUSPENDED

## Flexible Installation

The ceiling and floor models can be installed either on the ceiling or on the floor.  
This saves space when installed in shops or offices.

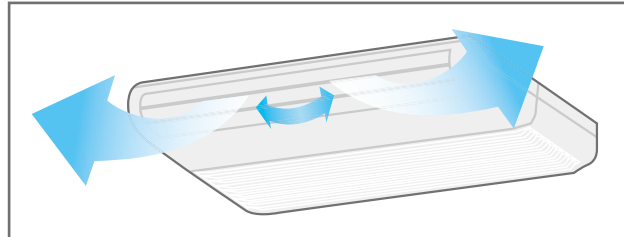


\* Ceiling & Floor : ARNU09GVEA2, ARNU12GVEA2

## Airflow Direction Control

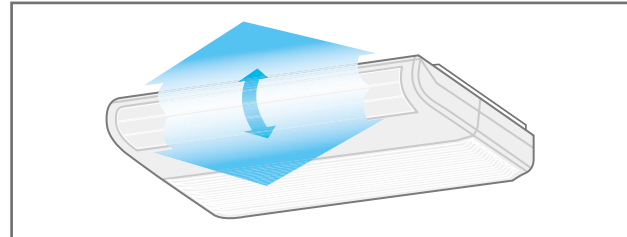
### Horizontal Airflow Direction Control

Adjust the horizontal airflow direction by manually moving the horizontal airflow direction louvre by hand.



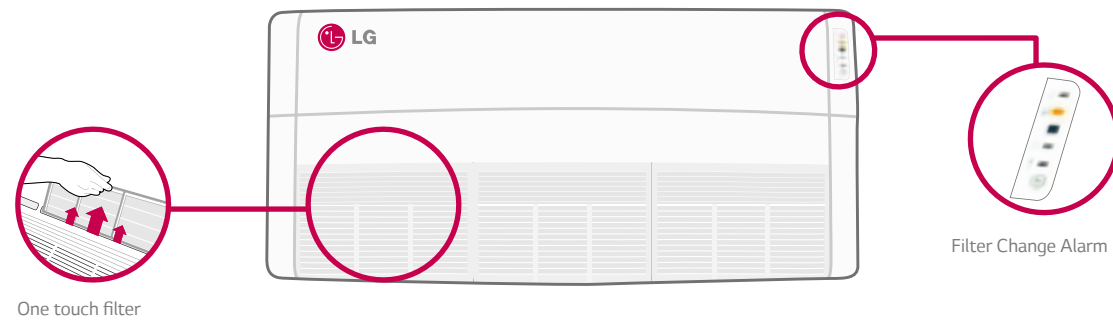
### Vertical Airflow Direction Control

The airflow direction can be adjusted as desired by using the remote control.



## One Touch Filter

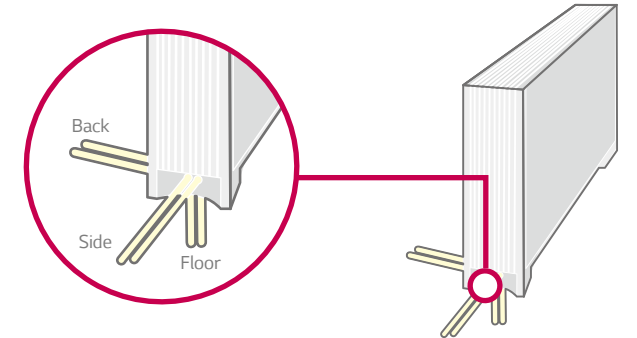
The filter change alarm informs you when the unit has been operating for 2,400 hours. It is very easy to clean or change the filter.



# FLOOR STANDING

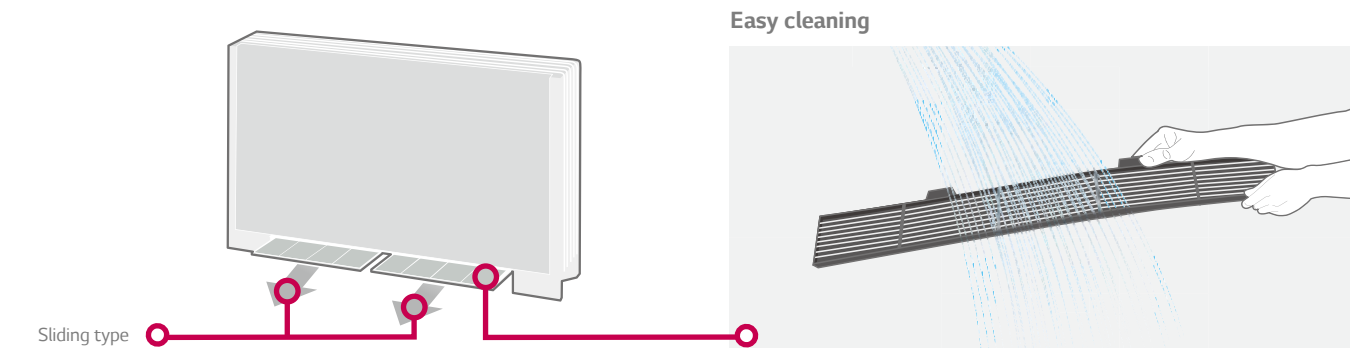
## 3 way Flexible Installation

It is possible to install and connect the outdoor unit in 3 different ways  
(side, back, floor).



## Sliding Type Filter

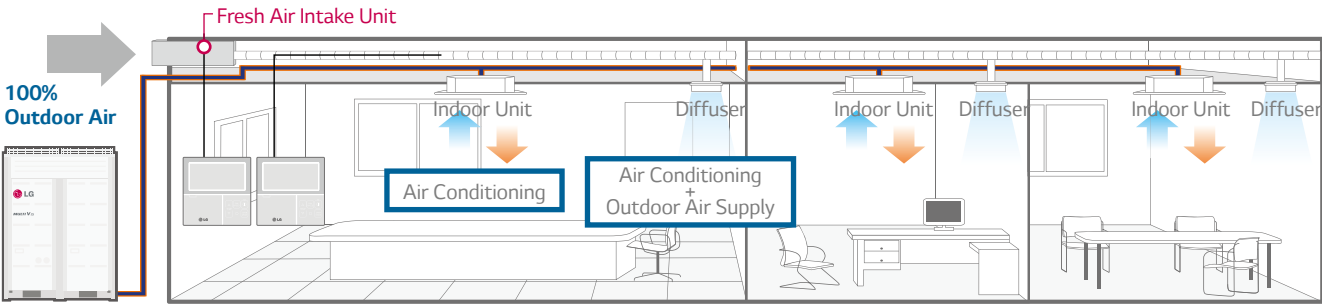
Easy maintenance and extended product life with sliding type filter



# FRESH AIR INTAKE UNIT

## Fresh Air Supply

The MULTI V™ Fresh Air Unit (FAU) is the alternative solution for ventilation, which supplies the fresh air indoors as well as being able to cool and heat air. It means the indoor space can have positive air pressure consistently.

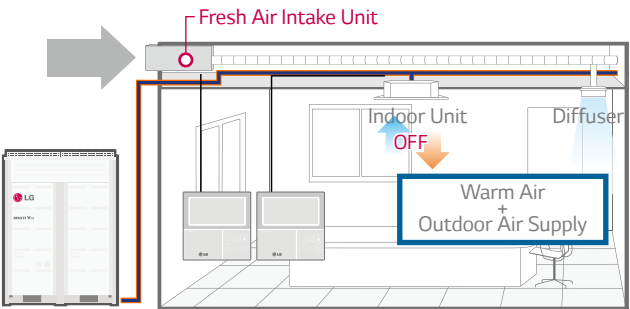


MULTI V IV Outdoor unit

## Economic Operation

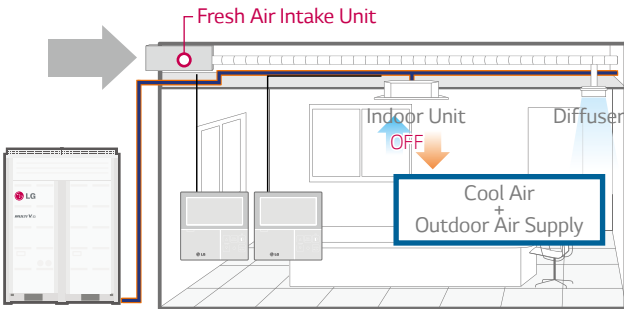
Using the free cooling and heating can save costs by blowing the natural outdoor air inside when the season changes.

### Spring Season



MULTI V IV Outdoor unit

### Autumn Season

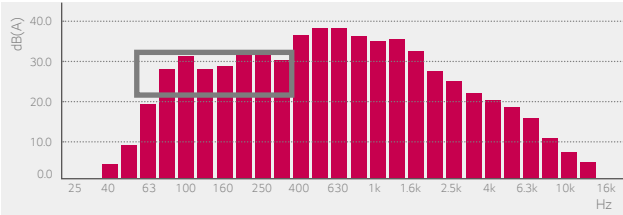


MULTI V IV Outdoor unit

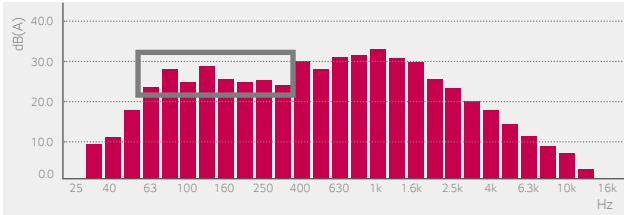
## BLDC Fan Motor

BLDC Fan Motor reduces noise at low frequency operation as well as give infinite control of fan speed, air quality and ESP.

### AC Tap Motor



### BLDC motor



## Fresh Air Intake Unit

ARNU48GBRZ2 ARNU76GB8Z2 ARNU96GB8Z2



ARNU48GBRZ2



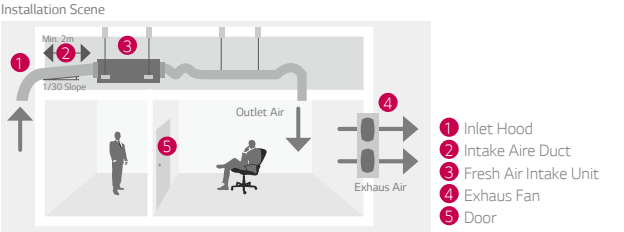
ARNU76GB8Z2



ARNU96GB8Z2

| Model                       |                         |               | ARNU48GBRZ2       | ARNU76GB8Z2       | ARNU96GB8Z2       |
|-----------------------------|-------------------------|---------------|-------------------|-------------------|-------------------|
| Capacity                    | Cooling                 | kW            | 14.1              | 22.4              | 28.0              |
|                             | Heating                 | kW            | 13.5              | 21.4              | 26.7              |
| Power Input                 | Cooling                 | W             | 169               | 230               | 360               |
|                             | Heating                 | W             | 169               | 230               | 360               |
| Power Supply                |                         | ø/V/Hz        | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate<br>(High mode) | H/M/L                   | m³/min        | 18.8/14.7/14.7    | 23.7/13.2/13.2    | 35.7/23.7/23.7    |
|                             |                         | l/s           | 131 / 245 / 245   | 395 / 220 / 220   | 595 / 395 / 395   |
| External Static Pressure    | High Mode - Factory Set | mmAq(Pa)      | 18(0.7)           | 22(0.86)          | 22(0.86)          |
| High Mode - Factory Set     | H/M/L                   | dBA           | 44 / 42 / 42      | 49 / 47 / 47      | 50 / 48 / 48      |
| Dimensions                  | Body                    | WxHxD         | mm                | 1,230 x 380 x 590 | 1,562 x 460 x 688 |
|                             |                         |               |                   |                   |                   |
| Net Weight                  |                         | kg(lbs)       | 45(99)            | 73(161)           | 73(161)           |
|                             |                         |               |                   |                   |                   |
| Piping Connection           | Liquid                  | mm(inch)      | 9.52(3/8)         | 9.52(3/8)         | 9.52(3/8)         |
|                             | Gas                     | mm(inch)      | 15.88(5/8)        | 15.88(5/8)        | 15.88(5/8)        |
|                             | Drain                   | I.D. mm(inch) | 25(31/32)         | 25(31/32)         | 25(31/32)         |
| Fan motor output x Number   |                         | W             | 195 x 1           | 375 x 1           | 375 x 1           |

- Notes:
- Capacities are based on the following conditions:  
Cooling: Outdoor temp. 33°C(91.4°F)DB / 28°C(82.4°F)WB  
IDU-ODU Piping Length : 7.5m  
Level Difference of Zero  
Heating: Outdoor temp. 0°C(32°F)DB / -2.9°C(26.78°F)WB  
Interconnecting Piping Length : 7.5m  
Level Difference of Zero
  - Capacities are net capacities
  - Noise Level is under standard mode(For actual High Mode(Factory set) condition,  
Noise Level may exceed the standard level by 1.5dB(A))
  - Due to our policy of innovation some specifications may be changed without prior notification



### Caution

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

| No | Connection Condition                                               | Combination                                                                                                                                                                                                                             |
|----|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Fresh Air Intake Units only are connected with outdoor units       | 1) The total capacity of Fresh Air Intake Unit should be 50~100% of outdoor unit.<br>2) The max quantity of Fresh Air Intake is 2 units.                                                                                                |
| 2  | Mixture connection with general indoor unit and Fresh Intake units | 1) The total capacity of indoor units(standard indoor unit + Fresh Air Intake Unit) should be 50~100% of outdoor unit.<br>2) The total capacity of Fresh Air Intake Unit should be less than 30% of the total capacity of indoor units. |

### Wired Remote Controller

Standard Type



PQRCVSLOQW

\*1: Photo changeable

- V : Silver

- E : Red

- G : Gold

- H : White Silver

| Model             |         |               | ARNU07G <b>SF</b> *2 | ARNU09G <b>SF</b> *2 | ARNU12G <b>SF</b> *2 |
|-------------------|---------|---------------|----------------------|----------------------|----------------------|
| Capacity          | Cooling | kW            | 2.2                  | 2.8                  | 3.6                  |
|                   | Heating | kW            | 2.5                  | 3.2                  | 4.0                  |
| Power Input       | Cooling | W             | 35                   | 35                   | 35                   |
|                   | Heating | W             | 35                   | 35                   | 35                   |
| Power Supply      |         | ø/V/Hz        | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    |
| Airflow Rate      | H/M/L   | m³/min        | 8.1 / 6.3 / 4.2      | 8.1 / 6.3 / 4.2      | 9.3 / 7.7 / 6.0      |
|                   |         | l/s           | 135 / 105 / 70       | 135 / 105 / 70       | 155 / 128 / 100      |
| Sound Pressure    | H/M/L   | dBA           | 38 / 32 / 27         | 38 / 32 / 27         | 44 / 38 / 32         |
| Dimensions        | Body    | WxHxD         | 600 x 600 x 146      | 600 x 600 x 146      | 600 x 600 x 146      |
| Net Weight        | Liquid  | kg(lbs)       | 15(33.1)             | 15(33.1)             | 15(33.1)             |
|                   |         | mm(inch)      | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            |
| Piping Connection | Gas     | mm(inch)      | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            |
|                   | Drain   | I.D. mm(inch) | 12.2(15/32)          | 12.2(15/32)          | 12.2(15/32)          |

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

Accessories

| Model       |                                |                | ARNU07G <b>SF</b> *2 | ARNU09G <b>SF</b> *2 | ARNU12G <b>SF</b> *2 |
|-------------|--------------------------------|----------------|----------------------|----------------------|----------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |                      |                      |                      |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |                      |                      |                      |
|             | With Case (2 Contact Point)    | PQDSBC         |                      |                      |                      |

| Wired Remote Controller |                    |                       | Wireless Remote Controller |
|-------------------------|--------------------|-----------------------|----------------------------|
| Standard Type           | Simple Type        | Simple Type for Hotel | <br>PQWRHQ0FDB             |
|                         |                    |                       |                            |
| PQRCVSL0QW              | PQRCVCLOQW (white) | PQRCHCA0QW(White)     |                            |

Mirror

- R : Mirror

- V : Silver

| Model             |         |               | ARNU07G <b>SE</b> *2 | ARNU09G <b>SE</b> *2 | ARNU12G <b>SE</b> *2 | ARNU15G <b>SE</b> *2 | ARNU18G <b>S8</b> *2 | ARNU24G <b>S8</b> *2 |
|-------------------|---------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Capacity          | Cooling | kW            | 2.2                  | 2.8                  | 3.6                  | 4.5                  | 5.6                  | 7.1                  |
|                   | Heating | kW            | 2.5                  | 3.2                  | 4.0                  | 5.0                  | 6.3                  | 8.0                  |
| Power Input       | Cooling | W             | 40                   | 40                   | 40                   | 40                   | 35                   | 35                   |
|                   | Heating | W             | 40                   | 40                   | 40                   | 40                   | 35                   | 35                   |
| Power Supply      |         | ø/V/Hz        | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    |
| Airflow Rate      | H/M/L   | m³/min        | 7.0/6.0/4.0          | 8.0/7.0/5.0          | 10.0/8.0/6.0         | 10.5/8.0/6.0         | 14.4/13.0/11.0       | 17.9/14.4/12.0       |
|                   |         | l/s           | 117 / 100 / 67       | 133 / 117 / 83       | 167 / 133 / 100      | 175 / 133 / 100      | 240 / 217 / 183      | 298 / 240 / 200      |
| Sound Pressure    | H/M/L   | dBA           | 37 / 33 / 23         | 39 / 35 / 25         | 41 / 36 / 27         | 42 / 36 / 27         | 37 / 34 / 31         | 43 / 37 / 32         |
| Dimensions        | Body    | WxHxD         | 915 x 282 x 165      | 915 x 282 x 165      | 915 x 282 x 165      | 915 x 282 x 165      | 1,107 x 299 x 200    | 1,107 x 299 x 200    |
| Net Weight        | Liquid  | kg(lbs)       | 11.2(24.7)           | 11.2(24.7)           | 11.2(24.7)           | 11.2(24.7)           | 15(33.1)             | 15(33.1)             |
|                   |         | mm(inch)      | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 9.52(3/8)            |
| Piping Connection | Gas     | mm(inch)      | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 15.88(5/8)           |
|                   | Drain   | I.D. mm(inch) | 16(5/8)              | 16(5/8)              | 16(5/8)              | 16(5/8)              | 16(5/8)              | 16(5/8)              |

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

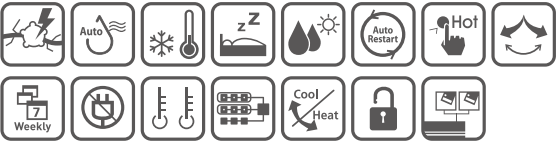
Accessories

| Model       |                                |                | ARNU07G <b>SE</b> *2 | ARNU09G <b>SE</b> *2 | ARNU12G <b>SE</b> *2 | ARNU15G <b>SE</b> *2 | ARNU18G <b>S8</b> *2 | ARNU24G <b>S8</b> *2 |
|-------------|--------------------------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |                      |                      |                      |                      |                      |                      |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |                      |                      |                      |                      |                      |                      |
|             | With Case (2 Contact Point)    | PQDSBC         |                      |                      |                      |                      |                      |                      |

| Wired Remote Controller |                    |                       | Wireless Remote Controller |
|-------------------------|--------------------|-----------------------|----------------------------|
| Standard Type           | Simple Type        | Simple Type for Hotel | <br>PQWRHQ0FDB             |
|                         |                    |                       |                            |
| PQRCVSL0QW              | PQRCVCLOQW (white) | PQRCHCA0QW(White)     |                            |

Wall Mounted

ARNU07GSBL2   ARNU09GSBL2   ARNU12GSBL2   ARNU15GSBL2



| Model             |         |          | ARNU07GSBL2       | ARNU09GSBL2       | ARNU12GSBL2       | ARNU15GSBL2       |
|-------------------|---------|----------|-------------------|-------------------|-------------------|-------------------|
| Capacity          | Cooling | kW       | 2.2               | 2.8               | 3.6               | 4.5               |
|                   | Heating | kW       | 2.5               | 3.2               | 4.0               | 5.0               |
| Power Input       | Cooling | W        | 21.0              | 21.0              | 21.0              | 21.0              |
|                   | Heating | W        | 21.0              | 21.0              | 21.0              | 21.0              |
| Power Supply      |         | ø/V/Hz   | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate      | H/M/L   | m³/min   | 7.0 / 6.5 / 5.5   | 8.2 / 7.0 / 5.5   | 9.5 / 8.2 / 6.5   | 10.5 / 9.0 / 7.0  |
|                   |         | l/s      | 117 / 108 / 92    | 137 / 117 / 92    | 158 / 137 / 108   | 175 / 150 / 117   |
| Sound Pressure    | H/M/L   | dBA      | 32 / 30 / 28      | 34 / 32 / 28      | 37 / 34 / 30      | 40 / 36 / 32      |
| Dimensions        | Body    | WxHxD    | mm                | 895 × 289 × 215   | 895 × 289 × 215   | 895 × 289 × 215   |
| Net Weight        |         | kg(lbs)  | 10.0 (22.0)       | 10.0 (22.0)       | 10.0 (22.0)       | 10.0 (22.0)       |
|                   | Liquid  | mm(inch) | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         |
| Piping Connection | Gas     | mm(inch) | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         |
|                   | Drain   | I.D.     | mm(inch)          | 16(5/8)           | 16(5/8)           | 16(5/8)           |

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

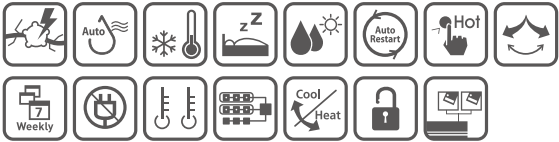
Accessories

| Model       |                                | ARNU07GSBL2    | ARNU09GSBL2 | ARNU12GSBL2 | ARNU15GSBL2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |

| Wired Remote Controller                                                             |                                                                                     |                                                                                     | Wireless Remote Controller                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Standard Type                                                                       | Simple Type                                                                         | Simple Type for Hotel                                                               |                                                                                       |
|  |  |  |  |
| PQRCVSL0QW                                                                          | PQRCVCL0QW (white)                                                                  | PQRCCHA0QW(White)                                                                   | PQWRHQ0FDB                                                                            |

Wall Mounted

ARNU18GSCL2   ARNU24GSCL2



| Model             |         |          | ARNU18GSCL2        | ARNU24GSCL2        |
|-------------------|---------|----------|--------------------|--------------------|
| Capacity          | Cooling | kW       | 5.6                | 7.1                |
|                   | Heating | kW       | 6.3                | 8.0                |
| Power Input       | Cooling | W        | 39.5               | 39.5               |
|                   | Heating | W        | 39.5               | 39.5               |
| Power Supply      |         | ø/V/Hz   | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate      | H/M/L   | m³/min   | 12.5 / 12.0 / 11.3 | 14.0 / 12.7 / 11.5 |
|                   |         | l/s      | 208 / 200 / 188    | 233 / 212 / 192    |
| Sound Pressure    | H/M/L   | dBA      | 38 / 35 / 33       | 43 / 39 / 35       |
| Dimensions        | Body    | WxHxD    | mm                 | 1,030 × 325 × 255  |
| Net Weight        |         | kg(lbs)  | 14.0 (30.9)        | 14.0 (30.9)        |
|                   | Liquid  | mm(inch) | 6.35(1/4)          | 9.52(3/8)          |
| Piping Connection | Gas     | mm(inch) | 12.7(1/2)          | 15.88(5/8)         |
|                   | Drain   | I.D.     | mm(inch)           | 16(5/8)            |

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

Accessories

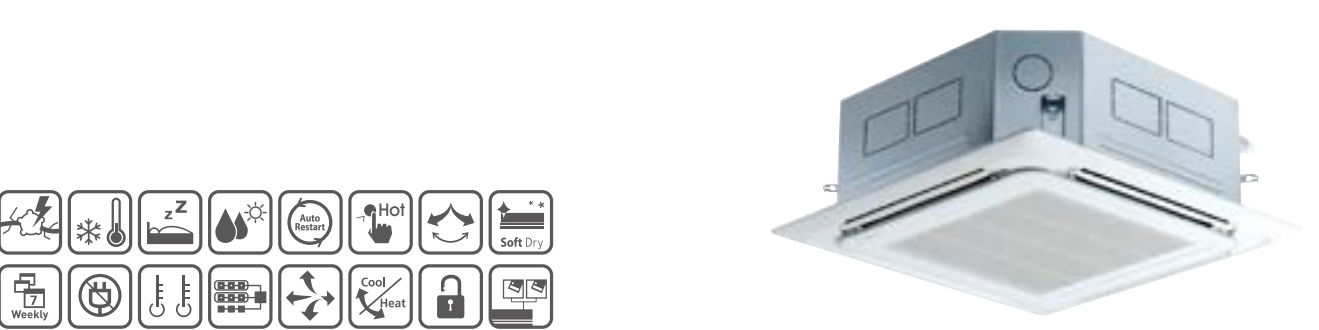
| Model       |                                | ARNU18GSCL2    | ARNU24GSCL2 |
|-------------|--------------------------------|----------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |

| Wired Remote Controller                                                               |                                                                                       |                                                                                       | Wireless Remote Controller                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Standard Type                                                                         | Simple Type                                                                           | Simple Type for Hotel                                                                 |                                                                                       |
|  |  |  |  |
| PQRCVSL0QW                                                                            | PQRCVCL0QW (white)                                                                    | PQRCCHA0QW(White)                                                                     | PQWRHQ0FDB                                                                            |



4 Way Cassette (570×570)

ARNU05G**TRA**2 / ARNU07G**TRA**2 / ARNU09G**TRA**2  
ARNU12G**TRA**2 ARNU15G**TQA**2 / ARNU18G**TQA**2



| Model                      |            |               | ARNU05G <b>TRA</b> 2 | ARNU07G <b>TRA</b> 2 | ARNU09G <b>TRA</b> 2 | ARNU12G <b>TRA</b> 2 | ARNU15G <b>TQA</b> 2 | ARNU18G <b>TQA</b> 2 |
|----------------------------|------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Capacity                   | Cooling    | kW            | 1.6                  | 2.2                  | 2.8                  | 3.6                  | 4.5                  | 5.6                  |
|                            | Heating    | kW            | 1.8                  | 2.5                  | 3.2                  | 4.0                  | 5.0                  | 6.3                  |
| Power Input                | Cooling    | W             | 30                   | 30                   | 30                   | 30                   | 30                   | 30                   |
|                            | Heating    | W             | 30                   | 30                   | 30                   | 30                   | 30                   | 30                   |
| Power Supply               |            | ø/V/Hz        | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    | 1 / 220 ~240 / 50    |
| Airflow Rate               | H/M/L      | m³/min        | 7.5 / 7.0 / 6.6      | 7.5 / 7.0 / 6.6      | 8.0 / 7.5 / 7.1      | 8.7 / 8.0 / 7.0      | 11.0 / 10.0 / 9.3    | 11.2 / 11.0 / 10.0   |
|                            |            | l/s           | 125 / 117 / 110      | 125 / 117 / 110      | 133 / 125 / 118      | 145 / 133 / 117      | 183 / 167 / 155      | 187 / 183 / 167      |
| Sound Pressure             | H/M/L      | dBA           | 29 / 27 / 26         | 29 / 27 / 26         | 30 / 29 / 27         | 32 / 30 / 27         | 36 / 34 / 32         | 37 / 35 / 34         |
| Dimensions                 | Body       | WxHxD         | mm                   | 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      |
| Net Weight                 |            | kg(lbs)       | 13.1(28.9)           | 13.1(28.9)           | 14.2(31.3)           | 14.2(31.3)           | 15.5(34.2)           | 15.5(34.2)           |
| Neoplasma Purifying Filter |            |               | PTPKQ0               | PTPKQ0               | PTPKQ0               | PTPKQ0               | PTPKQ0               | PTPKQ0               |
| Piping Connection          | Liquid     | mm(inch)      | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            | 6.35(1/4)            |
|                            | Gas        | mm(inch)      | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            | 12.7(1/2)            |
|                            | Drain      | I.D. mm(inch) | 25(31/32)            | 25(31/32)            | 25(31/32)            | 25(31/32)            | 25(31/32)            | 25(31/32)            |
| Decoration Panel           | Model      |               | PT-UQC               | PT-UQC               | PT-UQC               | PT-UQC               | PT-UQC               | PT-UQC               |
|                            | Colour     |               | Morning fog          | Morning fog          | Morning fog          | Morning fog          | Morning fog          | Morning fog          |
|                            | Dimensions | WxHxD         | mm                   | 700 x 22 x 700       | 700 x 22 x 700       | 700 x 22 x 700       | 700 x 22 x 700       | 700 x 22 x 700       |
|                            | Weight     | kg            | 3                    | 3                    | 3                    | 3                    | 3                    | 3                    |

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

Accessories

| Model       |                                | ARNU05G <b>TRA</b> 2 | ARNU07G <b>TRA</b> 2 | ARNU09G <b>TRA</b> 2 | ARNU12G <b>TRA</b> 2 | ARNU15G <b>TQA</b> 2 | ARNU18G <b>TQA</b> 2 |
|-------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA                |                      |                      |                      |                      |                      |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1       |                      |                      |                      |                      |                      |
|             | With Case (2 Contact Point)    | PQDSBC               |                      |                      |                      |                      |                      |
| Front Panel |                                | PT-UQC               |                      |                      |                      |                      |                      |

| Wired Remote Controller                                                                                |                                                                                                   |                                                                                                           |                                                                                                          | Wireless Remote Controller                                                                          |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                            | Standard Type                                                                                     | Simple Type                                                                                               | Simple Type for Hotel                                                                                    | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

4 Way Cassette (840×840)

ARNU24G**TPA**2 / ARNU28G**TPA**2  
ARNU36G**TNA**2 / ARNU42G**TMA**2 / ARNU48G**TMA**2



| Model                      |            |               | ARNU24G <b>TPA</b> 2 | ARNU28G <b>TPA</b> 2 | ARNU36G <b>TNA</b> 2 | ARNU42G <b>TMA</b> 2 | ARNU48G <b>TMA</b> 2 |
|----------------------------|------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Capacity                   | Cooling    | kW            | 7.1                  | 8.2                  | 10.6                 | 12.3                 | 14.1                 |
|                            | Heating    | kW            | 8.0                  | 9.2                  | 11.9                 | 13.8                 | 15.9                 |
| Power Input                | Cooling    | W             | 33                   | 33                   | 144                  | 144                  | 144                  |
|                            | Heating    | W             | 33                   | 33                   | 144                  | 144                  | 144                  |
| 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    |
| Airflow Rate               | H/M/L      | m³/min        | 17 / 15 / 13         | 19 / 16 / 14         | 25 / 21 / 19         | 30 / 27 / 24         | 31 / 29 / 27         |
|                            |            | l/s           | 283 / 250 / 217      | 317 / 267 / 233      | 417 / 350 / 317      | 500 / 450 / 400      | 517 / 483 / 450      |
| Sound Pressure             | H/M/L      | dBA           | 36 / 34 / 31         | 39 / 35 / 33         | 43 / 40 / 37         | 44 / 41 / 38         | 46 / 43 / 41         |
| Dimensions                 | Body       | WxHxD         | mm                   | 840 x 204 x 840      | 840 x 204 x 840      | 840 x 246 x 840      | 840 x 288 x 840      |
| Net Weight                 |            | kg(lbs)       | 20.8(45.8)           | 20.8(45.8)           | 23.5(51.8)           | 25.6(56.4)           | 25.6(56.4)           |
| Neoplasma Purifying Filter |            |               | PTPKM0               | PTPKM0               | PTPKM0               | PTPKM0               | PTPKM0               |
| Piping Connection          | Liquid     | mm(inch)      | 9.52(3/8)            | 9.52(3/8)            | 9.52(3/8)            | 9.52(3/8)            | 9.52(3/8)            |
|                            | Gas        | mm(inch)      | 15.88(5/8)           | 15.88(5/8)           | 15.88(5/8)           | 15.88(5/8)           | 15.88(5/8)           |
|                            | Drain      | I.D. mm(inch) | 25(31/32)            | 25(31/32)            | 25(31/32)            | 25(31/32)            | 25(31/32)            |
| Decoration Panel           | Model      |               | PT-UMC1              | PT-UMC1              | PT-UMC1              | PT-UMC1              | PT-UMC1              |
|                            | Colour     |               | Morning fog          | Morning fog          | Morning fog          | Morning fog          | Morning fog          |
|                            | Dimensions | WxHxD         | mm                   | 950 x 25 x 950       | 950 x 25 x 950       | 950 x 25 x 950       | 950 x 25 x 950       |
|                            | Weight     | kg            | 5.6                  | 5.6                  | 5.6                  | 5.6                  | 5.6                  |

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

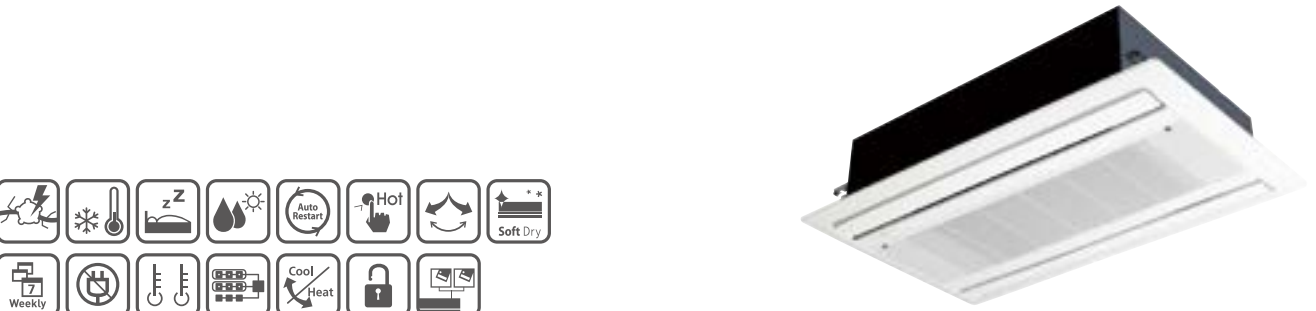
Accessories

| Model                 |                                | ARNU24G <b>TPA</b> 2         | ARNU28G <b>TPA</b> 2 | ARNU36G <b>TNA</b> 2 | ARNU42G <b>TMA</b> 2 | ARNU48G <b>TMA</b> 2 |
|-----------------------|--------------------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|
| Dry Contact           | Without Case (1 Contact Point) | PQDSA                        |                      |                      |                      |                      |
|                       | With Case (1 Contact Point)    | PQDSB / PQDSB1               |                      |                      |                      |                      |
|                       | With Case (2 Contact Point)    | PQDSBC                       |                      |                      |                      |                      |
|                       |                                |                              |                      |                      |                      |                      |
| Front Panel           |                                | PT-UMC1                      |                      |                      |                      |                      |
| Auto Elevation Grille |                                | PTGMO                        |                      |                      |                      |                      |
| Ventilation Kit       |                                | PTVK410 / PTVK420 / PTVK 430 |                      |                      |                      |                      |

| Wired Remote Controller                                                                                  |                                                                                                     |                                                                                                             |                                                                                                            | Wireless Remote Controller                                                                          |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                              | Standard Type                                                                                       | Simple Type                                                                                                 | Simple Type for Hotel                                                                                      | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

2 Way Cassette

ARNU18G**TLA2**    ARNU24G**TLA2**



| Model             |            |          | ARNU18G <b>TLA2</b> | ARNU24G <b>TLA2</b> |
|-------------------|------------|----------|---------------------|---------------------|
| Capacity          | Cooling    | kW       | 5.6                 | 7.1                 |
|                   | Heating    | kW       | 6.3                 | 8.0                 |
| Power Input       | Cooling    | W        | 70                  | 70                  |
|                   | Heating    | W        | 70                  | 70                  |
| Power Supply      | ø/V/Hz     |          | 1 / 220 ~240 / 50   | 1 / 220 ~240 / 50   |
| Airflow Rate      | H/M/L      | m³/min   | 13 / 12 / 10        | 17 / 15 / 13        |
|                   |            | l/s      | 217 / 200 / 167     | 283 / 250 / 217     |
| Sound Pressure    | H/M/L      | dBA      | 40 / 36 / 32        | 42 / 38 / 34        |
| Dimensions        | Body       | WxHxD mm | 830 x 225 x 550     | 830 x 225 x 550     |
| Net Weight        |            | kg(lbs)  | 22(48.5)            | 22(48.5)            |
| Piping Connection | Liquid     | mm(inch) | 6.35(1/4)           | 9.52(3/8)           |
|                   | Gas        | mm(inch) | 12.7(1/2)           | 15.88(5/8)          |
|                   | Drain I.D. | mm(inch) | 25(31/32)           | 25(31/32)           |
| Decoration Panel  | Model      |          | PT-HLC              | PT-HLC              |
|                   | Colour     |          | Morning fog         | Morning fog         |
|                   | Dimensions | WxHxD mm | 1,050 x 28 x 640    | 1,050 x 28 x 640    |
|                   | Weight     | kg       | 4.0                 | 4.0                 |

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

Accessories

| Model       |                                | ARNU18G <b>TLA2</b> | ARNU24G <b>TLA2</b> |
|-------------|--------------------------------|---------------------|---------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA               |                     |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1      |                     |
|             | With Case (2 Contact Point)    | PQDSBC              |                     |
| Front Panel |                                | PT-HLA              |                     |

| Wired Remote Controller                                                             |                                                                                     |                                                                                     |                                                                                     | Wireless Remote Controller                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Deluxe Type                                                                         | Standard Type                                                                       | Simple Type                                                                         | Simple Type for Hotel                                                               |                                                                                       |
|  |  |  |  |  |
| PQRCUDS0(white)                                                                     | PQRCVSLQW                                                                           | PQRCVCLQW (white)                                                                   | PQRCHCA0QW(White)                                                                   | PQWRHQQFDB                                                                            |

1 Way Cassette

ARNU07G**TUA2**    ARNU09G**TUA2**    ARNU12G**TUA2**  
ARNU18G**TTA2**    ARNU24G**TTA2**



| Model             |            |          | ARNU07G <b>TUA2</b>          | ARNU09G <b>TUA2</b>          | ARNU12G <b>TUA2</b>          | ARNU18G <b>TTA2</b>          | ARNU24G <b>TTA2</b>          |
|-------------------|------------|----------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Capacity          | Cooling    | kW       | 2.2                          | 2.8                          | 3.6                          | 5.6                          | 7.1                          |
|                   | Heating    | kW       | 2.5                          | 3.2                          | 4.0                          | 6.3                          | 7.1                          |
| Power Input       | Cooling    | W        | 40                           | 40                           | 40                           | 70                           | 70                           |
|                   | Heating    | W        | 40                           | 40                           | 40                           | 70                           | 70                           |
| 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            |
| Airflow Rate      | H/M/L      | m³/min   | 8.2 / 7.3 / 6.4              | 9.2 / 8.6 / 8.2              | 10 / 9.2 / 8.2               | 13.3 / 12.1 / 10.9           | 14.6 / 13.3 / 11.5           |
|                   |            | l/s      | 137 / 122 / 107              | 153 / 143 / 137              | 167 / 153 / 137              | 222 / 202 / 182              | 243 / 222 / 192              |
| Sound Pressure    | H/M/L      | dBA      | 32 / 29 / 25                 | 35 / 34 / 32                 | 38 / 35 / 32                 | 40 / 37 / 35                 | 43 / 40 / 36                 |
| Dimensions        | Body       | WxHxD mm | 860 x 132 x 450              | 860 x 132 x 450              | 860 x 132 x 450              | 1,180 x 132 x 450            | 1,180 x 132 x 450            |
| Net Weight        |            | kg(lbs)  | 14.7(32.4)                   | 14.7(32.4)                   | 14.7(32.4)                   | 18.7(41.23)                  | 18.7(41.23)                  |
| Piping Connection | Liquid     | mm(inch) | 6.35(1/4)                    | 6.35(1/4)                    | 6.35(1/4)                    | 6.35(1/4)                    | 9.52(3/8)                    |
|                   | Gas        | mm(inch) | 12.7(1/2)                    | 12.7(1/2)                    | 12.7(1/2)                    | 12.7(1/2)                    | 15.88(5/8)                   |
|                   | Drain I.D. | mm(inch) | 25(31/32)                    | 25(31/32)                    | 25(31/32)                    | 25(31/32)                    | 25(31/32)                    |
| Decoration Panel  | Model      |          | PT-UUC(Grill), PT-UUD(Panel) | PT-UUC(Grill), PT-UUD(Panel) | PT-UUC(Grill), PT-UUD(Panel) | PT-UTC(Grill), PT-UTD(Panel) | PT-UTC(Grill), PT-UTD(Panel) |
|                   | Colour     |          | White                        | White                        | White                        | White                        | White                        |
|                   | Dimensions | WxHxD mm | 1,100 x 34 x 500             | 1,100 x 34 x 500             | 1,100 x 34 x 500             | 1,420 x 34 x 500             | 1,420 x 34 x 500             |
|                   | Weight     | kg       | 4.6                          | 4.6                          | 4.6                          | 5.5                          | 5.5                          |

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

Accessories

| Model       |                                | ARNU07G <b>TUA2</b> | ARNU09G <b>TUA2</b> | ARNU12G <b>TUA2</b> | ARNU18G <b>TTA2</b> | ARNU24G <b>TTA2</b> |
|-------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA               |                     |                     |                     |                     |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1      |                     |                     |                     |                     |
|             | With Case (2 Contact Point)    | PQDSBC              |                     |                     |                     |                     |
| Front Panel |                                | PT-UUC              |                     |                     |                     |                     |

| Wired Remote Controller                                                               |                                                                                       |                                                                                       |                                                                                       | Wireless Remote Controller                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Deluxe Type                                                                           | Standard Type                                                                         | Simple Type                                                                           | Simple Type for Hotel                                                                 |                                                                                       |
|  |  |  |  |  |
| PQRCUDS0(white)                                                                       | PQRCVSLQW                                                                             | PQRCVCLQW (white)                                                                     | PQRCHCA0QW(White)                                                                     | PQWRHQQFDB                                                                            |

Low Static Duct

ARNU05GL1G2   ARNU07GL1G2   ARNU09GL1G2



| Model                       |                        |               | ARNU05GL1G2       | ARNU07GL1G2       | ARNU09GL1G2       |
|-----------------------------|------------------------|---------------|-------------------|-------------------|-------------------|
| Capacity                    | Cooling                | kW            | 1.7               | 2.2               | 2.8               |
|                             | Heating                | kW            | 1.9               | 2.5               | 3.2               |
| Power Input                 | Cooling                | W             | 40                | 40                | 40                |
|                             | Heating                | W             | 40                | 40                | 40                |
| Power Supply                |                        | ø/V/Hz        | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate<br>(High mode) | H/M/L                  | m³/min        | 6.7 / 6.2 / 5.5   | 7.5 / 6.5 / 5.5   | 9.0 / 7.0 / 5.5   |
|                             |                        | l/s           | 112 / 103 / 92    | 125 / 108 / 92    | 150 / 117 / 92    |
| External Static Pressure    | high mode-factory mode | mmAq(Pa)      | 2.54(25)          | 2.54(25)          | 2.54(25)          |
| Sound Pressure              | H/M/L                  | dBA           | 25 / 24 / 22      | 26 / 24 / 22      | 28 / 25 / 22      |
| Dimensions                  | Body                   | WxHxD mm      | 700 x 190 x 700   | 700 x 190 x 700   | 700 x 190 x 700   |
| Net Weight                  |                        | kg(lbs)       | 17.5(38.6)        | 17.5(38.6)        | 17.5(38.6)        |
| Piping Connection           | Liquid                 | mm(inch)      | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         |
|                             | Gas                    | mm(inch)      | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         |
|                             | Drain                  | I.D. mm(inch) | 25.4(1)           | 25.4(1)           | 25.4(1)           |
| Fan motor output x Numver   |                        | W             | 19 x 1            | 19 x 1            | 19 x 1            |

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

Accessories

| Model       |                                | ARNU05GL1G2    | ARNU07GL1G2 | ARNU09GL1G2 |
|-------------|--------------------------------|----------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |

| Wired Remote Controller                                                                                |                                                                                                  |                                                                                                          |                                                                                                          | Wireless Remote Controller                                                                          |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                            | Standard Type                                                                                    | Simple Type                                                                                              | Simple Type for Hotel                                                                                    | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVLSQW | <br>PQRCVCLQW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

Low Static Duct

ARNU12GL2G2   ARNU15GL2G2   ARNU18GL2G2   ARNU24GL3G2



| Model                       |                        |               | ARNU12GL2G2       | ARNU15GL2G2       | ARNU18GL2G2        | ARNU24GL3G2        |
|-----------------------------|------------------------|---------------|-------------------|-------------------|--------------------|--------------------|
| Capacity                    | Cooling                | kW            | 3.6               | 4.5               | 5.6                | 7.1                |
|                             | Heating                | kW            | 4.0               | 5.0               | 6.3                | 8.0                |
| Power Input                 | Cooling                | W             | 85                | 85                | 85                 | 115                |
|                             | Heating                | W             | 85                | 85                | 85                 | 115                |
| Power Supply                |                        | ø/V/Hz        | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate<br>(High mode) | H/M/L                  | m³/min        | 10.0 / 8.5 / 7.0  | 12.5 / 10.0 / 8.5 | 15.0 / 12.5 / 10.0 | 20.0 / 16.0 / 12.0 |
|                             |                        | l/s           | 167 / 142 / 117   | 208 / 167 / 142   | 250 / 208 / 167    | 333 / 267 / 200    |
| External Static Pressure    | high mode-factory mode | mmAq(Pa)      | 2.54(25)          | 2.54(25)          | 2.54(25)           | 2.54(25)           |
| Sound Pressure              | H/M/L                  | dBA           | 30 / 27 / 25      | 33 / 30 / 28      | 35 / 32 / 29       | 36 / 33 / 28       |
| Dimensions                  | Body                   | WxHxD mm      | 900 x 190 x 700   | 900 x 190 x 700   | 900 x 190 x 700    | 1,100 x 190 x 700  |
| Net Weight                  |                        | kg(lbs)       | 23(50.7)          | 23(50.7)          | 23(50.7)           | 27(59.5)           |
| Piping Connection           | Liquid                 | mm(inch)      | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)          | 9.52(3/8)          |
|                             | Gas                    | mm(inch)      | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)          | 15.88(5/8)         |
|                             | Drain                  | I.D. mm(inch) | 25.4(1)           | 25.4(1)           | 25.4(1)            | 25.4(1)            |
| Fan motor output x Numver   |                        | W             | 19 x 1, 5 x 1     | 19 x 1, 5 x 1     | 19 x 1, 5 x 1      | 19 x 2             |

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

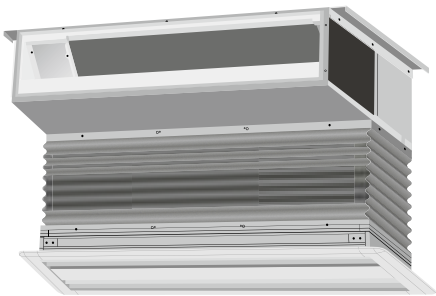
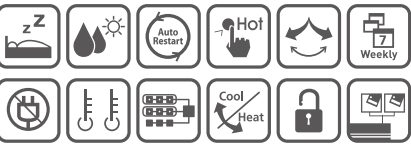
Accessories

| Model       |                                | ARNU12GL2G2    | ARNU15GL2G2 | ARNU18GL2G2 | ARNU24GL3G2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |

| Wired Remote Controller                                                                                  |                                                                                                    |                                                                                                            |                                                                                                            | Wireless Remote Controller                                                                          |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                              | Standard Type                                                                                      | Simple Type                                                                                                | Simple Type for Hotel                                                                                      | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVLSQW | <br>PQRCVCLQW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

Built-in Duct

ARNU07GB3G2   ARNU09GB3G2   ARNU12GB3G2   ARNU15GB3G2



| Model                     |                        |          | ARNU07GB3G2       | ARNU09GB3G2        | ARNU012GB3G2       | ARNU15GB3G2        |
|---------------------------|------------------------|----------|-------------------|--------------------|--------------------|--------------------|
| Capacity                  | Cooling                | kW       | 2.2               | 2.8                | 3.6                | 4.5                |
|                           | Heating                | kW       | 2.5               | 3.2                | 4.0                | 5.0                |
| Power Input               | Cooling                | W        | 30                | 30                 | 30                 | 30                 |
|                           | Heating                | W        | 30                | 30                 | 30                 | 30                 |
| Power Supply              |                        | ø/V/Hz   | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate              | H/M/L                  | m³/min   | 8.0 / 6.5 / 5.5   | 9.0 / 7.0 / 6.0    | 10.0 / 8.0 / 6.5   | 11.0 / 10.0 / 8.0  |
|                           |                        | l/s      | 133 / 108 / 92    | 150 / 117 / 100    | 167 / 133 / 108    | 183 / 167 / 133    |
| External Static Pressure  | high mode-factory mode | mmAq(Pa) | 2(20)             | 2(20)              | 2(20)              | 2(20)              |
| Sound Pressure            | H/M/L                  | dBA      | 33 / 32 / 29      | 34 / 33 / 32       | 35 / 34 / 33       | 41 / 40 / 37       |
| Dimensions                | Body                   | WxHxD    | mm                | 820 x 190 x 575    | 820 x 190 x 575    | 820 x 190 x 575    |
|                           | Suction Grille         | WxHxD    | mm                | 910 x 56 x 359     | 910 x 56 x 359     | 910 x 56 x 359     |
|                           | Suction Canvas         | WxHxD    | mm                | 821 x 42~250 x 274 | 821 x 42~250 x 274 | 821 x 42~250 x 274 |
| Net Weight                |                        | kg(lbs)  | 21(46.3)          | 21(46.3)           | 21(46.3)           | 21(46.3)           |
| Piping Connection         | Liquid                 | mm(inch) | 6.35(1/4)         | 6.35(1/4)          | 6.35(1/4)          | 6.35(1/4)          |
|                           | Gas                    | mm(inch) | 12.7(1/2)         | 12.7(1/2)          | 12.7(1/2)          | 12.7(1/2)          |
|                           | Drain                  | I.D.     | mm(inch)          | 25.4(1)            | 25.4(1)            | 25.4(1)            |
| Fan motor output x Number |                        | W        | 30 x 1            | 30 x 1             | 30 x 1             | 30 x 1             |

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

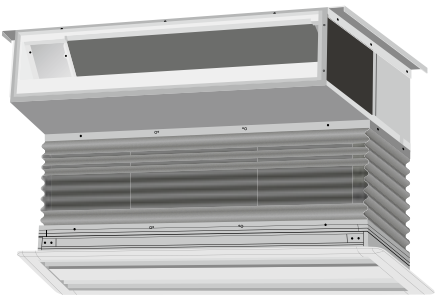
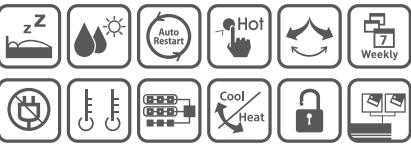
Accessories

| Model       |                                | ARNU07GB3G2    | ARNU09GB3G2 | ARNU012GB3G2 | ARNU15GB3G2 |
|-------------|--------------------------------|----------------|-------------|--------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |              |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |              |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |              |             |

| Wired Remote Controller                                                                                |                                                                                                   |                                                                                                           |                                                                                                          | Wireless Remote Controller                                                                          |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                            | Standard Type                                                                                     | Simple Type                                                                                               | Simple Type for Hotel                                                                                    | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

Built-in Duct

ARNU18GB4G2   ARNU24GB4G2



| Model                     |                        |          | ARNU18GB4G2        | ARNU24GB4G2          |
|---------------------------|------------------------|----------|--------------------|----------------------|
| Capacity                  | Cooling                | kW       | 5.6                | 7.1                  |
|                           | Heating                | kW       | 6.3                | 8.0                  |
| Power Input               | Cooling                | W        | 80                 | 80                   |
|                           | Heating                | W        | 80                 | 80                   |
| Power Supply              |                        | ø/V/Hz   | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50    |
| Airflow Rate              | H/M/L                  | m³/min   | 14.0 / 12.0 / 10.0 | 17.0 / 15.0 / 10.0   |
|                           |                        | l/s      | 233 / 200 / 167    | 283 / 250 / 167      |
| External Static Pressure  | high mode-factory mode | mmAq(Pa) | 2(20)              | 2(20)                |
| Sound Pressure            | H/M/L                  | dBA      | 43 / 40 / 37       | 46 / 43 / 37         |
| Dimensions                | Body                   | WxHxD    | mm                 | 1,100 x 190 x 575    |
|                           | Suction Grille         | WxHxD    | mm                 | 1,188 x 56 x 359     |
|                           | Suction Canvas         | WxHxD    | mm                 | 1,100 x 42~250 x 274 |
| Net Weight                |                        | kg(lbs)  | 26(57.3)           | 26(57.3)             |
| Piping Connection         | Liquid                 | mm(inch) | 6.35(1/4)          | 9.52(3/8)            |
|                           | Gas                    | mm(inch) | 12.7(1/2)          | 15.88(5/8)           |
|                           | Drain                  | I.D.     | mm(inch)           | 25.4(1)              |
| Fan motor output x Number |                        | W        | 80 x 1             | 80 x 1               |

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

Accessories

| Model          |                                | ARNU18GB4G2    | ARNU24GB4G2 |
|----------------|--------------------------------|----------------|-------------|
| Dry Contact    | Without Case (1 Contact Point) | PQDSA          |             |
|                | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |
|                | With Case (2 Contact Point)    | PQDSBC         |             |
| Suction Grille |                                | PBSGB30        |             |
| Suction Canvas |                                | PBSC30         |             |

| Wired Remote Controller                                                                                  |                                                                                                     |                                                                                                             |                                                                                                            | Wireless Remote Controller                                                                          |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                              | Standard Type                                                                                       | Simple Type                                                                                                 | Simple Type for Hotel                                                                                      | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

High Static Duct

ARNU07GBHA2    ARNU09GBHA2    ARNU12GBHA2  
ARNU15GBHA2    ARNU18GBHA2    ARNU24GBHA2



| Model                     |                        |               |    | ARNU07GBHA2       | ARNU09GBHA2       | ARNU12GBHA2       | ARNU15GBHA2       | ARNU18GBHA2       | ARNU24GBHA2        |
|---------------------------|------------------------|---------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Capacity                  | Cooling                | kW            |    | 2.2               | 2.8               | 3.6               | 4.5               | 5.6               | 7.1                |
|                           | Heating                | kW            |    | 2.5               | 3.2               | 4.0               | 5.0               | 6.3               | 8.0                |
| Power Input               | Cooling                | W             |    | 150               | 150               | 150               | 150               | 150               | 150                |
|                           | Heating                | W             |    | 150               | 150               | 150               | 150               | 150               | 150                |
| Power Supply              |                        | ø/V/Hz        |    | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50  |
| Airflow Rate              | H/M/L                  | m³/min        |    | 6.5 / 5.8 / 5.4   | 8.1 / 6.5 / 5.8   | 9.6 / 8.1 / 6.5   | 11.3 / 9.6 / 6.5  | 13.0 / 11.3 / 9.6 | 16.0 / 14.4 / 13.0 |
|                           |                        | l/s           |    | 108 / 97 / 90     | 135 / 108 / 97    | 160 / 135 / 108   | 188 / 160 / 108   | 217 / 188 / 160   | 267 / 240 / 217    |
| External Static Pressure  | high mode-factory mode | mmAq(Pa)      |    | 8(78)             | 8(78)             | 8(78)             | 8(78)             | 8(78)             | 8(78)              |
| Sound Pressure            | H/M/L                  | dBA           |    | 26 / 25 / 23      | 26 / 25 / 23      | 27 / 26 / 23      | 28 / 27 / 25      | 30 / 29 / 26      | 33 / 31 / 28       |
| Dimensions                | Body                   | WxHxD         | mm | 882 x 260 x 450   | 882 x 260 x 450   | 882 x 260 x 450   | 882 x 260 x 450   | 882 x 260 x 450   | 882 x 260 x 450    |
| Net Weight                |                        | kg(lbs)       |    | 26(57.4)          | 26(57.4)          | 26(57.4)          | 26(57.4)          | 26.5(58.4)        | 26.5(58.4)         |
| Piping Connection         | Liquid                 | mm(inch)      |    | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 9.52(3/8)          |
|                           | Gas                    | mm(inch)      |    | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 15.88(5/8)         |
|                           | Drain                  | I.D. mm(inch) |    | 25(31/32)         | 25(31/32)         | 25(31/32)         | 25(31/32)         | 25(31/32)         | 25(31/32)          |
| Fan motor output x Number |                        | W             |    | 118 x 1           | 118 x 1           | 118 x 1           | 118 x 1           | 118 x 1           | 118 x 1            |

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

Accessories

| Model       |                                | ARNU07GBHA2    | ARNU09GBHA2 | ARNU12GBHA2 | ARNU15GBHA2 | ARNU18GBHA2 | ARNU24GBHA2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |             |             |

| Wired Remote Controller                                                                                |                                                                                                   |                                                                                                           |                                                                                                          | Wireless Remote Controller                                                                          |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                            | Standard Type                                                                                     | Simple Type                                                                                               | Simple Type for Hotel                                                                                    | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSLOQW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

High Static Duct

ARNU28GBGA2    ARNU36GBGA2



| Model                     |                        |               | ARNU28GBGA2        | ARNU36GBGA2        |
|---------------------------|------------------------|---------------|--------------------|--------------------|
| Capacity                  | Cooling                | kW            | 8.2                | 10.6               |
|                           | Heating                | kW            | 9.2                | 11.9               |
| Power Input               | Cooling                | W             | 450                | 450                |
|                           | Heating                | W             | 450                | 450                |
| Power Supply              |                        | ø/V/Hz        | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate              | H/M/L                  | m³/min        | 25.9 / 24.1 / 21.8 | 32.3 / 29.0 / 25.3 |
|                           |                        | l/s           | 432 / 402 / 363    | 538 / 483 / 422    |
| External Static Pressure  | high mode-factory mode | mmAq(Pa)      | 10(98)             | 10(98)             |
| Sound Pressure            | H/M/L                  | dBA           | 29 / 25 / 23       | 33 / 31 / 28       |
| Dimensions                | Body                   | WxHxD         | mm                 | 1,182 x 298 x 450  |
| Net Weight                |                        | kg(lbs)       | 38.0(83.8)         | 38(83.8)           |
| Piping Connection         | Liquid                 | mm(inch)      | 9.52(3/8)          | 9.52(3/8)          |
|                           | Gas                    | mm(inch)      | 15.88(5/8)         | 15.88(5/8)         |
|                           | Drain                  | I.D. mm(inch) | 25(31/32)          | 25(31/32)          |
| Fan motor output x Number |                        | W             | 350 x 1            | 350 x 1            |

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

Accessories

| Model       |                                | ARNU28GBGA2    | ARNU36GBGA2 |
|-------------|--------------------------------|----------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |

| Wired Remote Controller                                                                                  |                                                                                                     |                                                                                                             |                                                                                                            | Wireless Remote Controller                                                                          |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                              | Standard Type                                                                                       | Simple Type                                                                                                 | Simple Type for Hotel                                                                                      | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSLOQW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |



High Static Duct

ARNU42G**BRK2**    ARNU48G**BRK2**    ARNU54G**BRK2**



| Model                     |                        |               |    | ARNU42G <b>BRK2</b> | ARNU48G <b>BRK2</b> | ARNU54G <b>BRK2</b> |
|---------------------------|------------------------|---------------|----|---------------------|---------------------|---------------------|
| Capacity                  | Cooling                | kW            |    | 12.3                | 14.1                | 16                  |
|                           | Heating                | kW            |    | 13.8                | 15.9                | 18.1                |
| Power Input               | Cooling                | W             |    | 368                 | 477                 | 565                 |
|                           | Heating                | W             |    | 368                 | 477                 | 565                 |
| Power Supply              |                        | ø/V/Hz        |    | 1/220~240/50        | 1/220~240/50        | 1/220~240/50        |
| Airflow Rate              | H/M/L                  | m³/min        |    | 40.0 / 38.3 / 35.7  | 48.0 / 45.3 /40.0   | 52.0 / 48.0 / 45.3  |
|                           |                        | l/s           |    | 667 / 638 / 595     | 800 / 755 / 667     | 867 / 800 / 755     |
| External Static Pressure  | high mode-factory mode | mmAq(Pa)      |    | 12(118)             | 12(118)             | 12(118)             |
| Sound Pressure            | H/M/L                  | dBA           |    | 41/40/39            | 43/42/41            | 46/43/42            |
| Dimensions                | Body                   | WxHxD         | mm | 1,230x590x380       | 1,230x590x380       | 1,230x590x380       |
| Net Weight                |                        | kg(lbs)       |    | 53(117)             | 53(117)             | 53(117)             |
| Piping Connection         | Liquid                 | mm(inch)      |    | Ø9.52(3/8)          | Ø9.52(3/8)          | Ø9.52(3/8)          |
|                           | Gas                    | mm(inch)      |    | Ø15.88(5/8)         | Ø15.88(5/8)         | Ø15.88(5/8)         |
|                           | Drain                  | I.D. mm(inch) |    | 25                  | 25                  | 25                  |
| Fan motor output x Number |                        | W             |    | 185x2               | 185x2               | 185x2               |

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

Accessories

| Model       |                                | ARNU42G <b>BRK2</b> | ARNU48G <b>BRK2</b> | ARNU54G <b>BRK2</b> |
|-------------|--------------------------------|---------------------|---------------------|---------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA               |                     |                     |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1      |                     |                     |
|             | With Case (2 Contact Point)    | PQDSBC              |                     |                     |

| Wired Remote Controller                                                                                    |                                                                                                      |                                                                                                               |                                                                                                              | Wireless Remote Controller                                                                              |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                                | Standard Type                                                                                        | Simple Type                                                                                                   | Simple Type for Hotel                                                                                        |  <p>PQWRHQ0FDB</p> |
|  <p>PQRCUDS0(white)</p> |  <p>PQRCVSLQW</p> |  <p>PQRCVCL0QW (white)</p> |  <p>PQRCHCA0QW(White)</p> |                                                                                                         |

High Static Duct

ARNU68G**B8K2**    ARNU76G**B8K2**    ARNU96G**B8K2**



| Model                     |                        |               |    | ARNU68G <b>B8K2</b>   | ARNU76G <b>B8K2</b>   | ARNU96G <b>B8K2</b>   |
|---------------------------|------------------------|---------------|----|-----------------------|-----------------------|-----------------------|
| Capacity                  | Cooling                | kW            |    | 20                    | 22.4                  | 28                    |
|                           | Heating                | kW            |    | 22.5                  | 25.2                  | 31.5                  |
| Power Input               | Cooling                | W             |    | 550                   | 850                   | 900                   |
|                           | Heating                | W             |    | 550                   | 850                   | 900                   |
| Power Supply              |                        | ø/V/Hz        |    | 1/220~240/50          | 1/220~240/50          | 1/220~240/50          |
| Airflow Rate              | H/M/L                  | m³/min        |    | 77.0 / 67.6 / 67.6    | 78.0 / 72.1 / 72.1    | 81.1 / 78.0 / 78.0    |
|                           |                        | l/s           |    | 1,283 / 1,127 / 1,127 | 1,300 / 1,202 / 1,202 | 1,352 / 1,300 / 1,300 |
| External Static Pressure  | high mode-factory mode | mmAq(Pa)      |    | 15(147)               | 18(176)               | 18(176)               |
| Sound Pressure            | H/M/L                  | dBA           |    | 44/43/43              | 46/45/45              | 47/46/46              |
| Dimensions                | Body                   | WxHxD         | mm | 1562x688x460          | 1562x688x460          | 1562x688x460          |
| Net Weight                |                        | kg(lbs)       |    | 87(192)               | 87(192)               | 87(192)               |
| Piping Connection         | Liquid                 | mm(inch)      |    | Ø9.52(3/8)            | Ø9.52(3/8)            | Ø9.52(3/8)            |
|                           | Gas                    | mm(inch)      |    | Ø19.05(3/4)           | Ø19.05(3/4)           | Ø22.2(7/8)            |
|                           | Drain                  | I.D. mm(inch) |    | 25                    | 25                    | 25                    |
| Fan motor output x Number |                        | W             |    | 375x2                 | 375x2                 | 375x2                 |

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

Accessories

| Model       |                                | ARNU68G <b>B8K2</b> | ARNU76G <b>B8K2</b> | ARNU96G <b>B8K2</b> |
|-------------|--------------------------------|---------------------|---------------------|---------------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA               |                     |                     |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1      |                     |                     |
|             | With Case (2 Contact Point)    | PQDSBC              |                     |                     |

| Wired Remote Controller                                                                                      |                                                                                                        |                                                                                                                 |                                                                                                                | Wireless Remote Controller                                                                              |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                                  | Standard Type                                                                                          | Simple Type                                                                                                     | Simple Type for Hotel                                                                                          |  <p>PQWRHQ0FDB</p> |
|  <p>PQRCUDS0(white)</p> |  <p>PQRCVSLQW</p> |  <p>PQRCVCL0QW (white)</p> |  <p>PQRCHCA0QW(White)</p> |                                                                                                         |

Ceiling & Floor

ARNU09GVEA2    ARNU12GVEA2



| Model             |         |               | ARNU09GVEA2       | ARNU12GVEA2       |
|-------------------|---------|---------------|-------------------|-------------------|
| Capacity          | Cooling | kW            | 2.8               | 3.6               |
|                   | Heating | kW            | 3.2               | 4.0               |
| Power Input       | Cooling | W             | 30                | 30                |
|                   | Heating | W             | 30                | 30                |
| Power Supply      |         | ø/V/Hz        | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate      | H/M/L   | m³/min        | 7.6 / 6.9 / 6.2   | 9.2 / 7.6 / 6.9   |
|                   |         | l/s           | 127 / 115 / 103   | 153 / 127 / 115   |
| Sound Pressure    | H/M/L   | dBA           | 36 / 32 / 28      | 38 / 36 / 30      |
| Dimensions        | Body    | WxHxD         | mm                | 900 x 490 x 200   |
| Net Weight        |         | kg(lbs)       | 13.7(30.2)        | 13.7(30.2)        |
| Piping Connection | Liquid  | mm(inch)      | 6.35(1/4)         | 6.35(1/4)         |
|                   | Gas     | mm(inch)      | 12.7(1/2)         | 12.7(1/2)         |
|                   | Drain   | I.D. mm(inch) | 16(5/8)           | 16(5/8)           |

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

Ceiling Suspended

URNU18GVJA2    URNU24GVJA2    URNU36GVKA2    URNU48GVLA2



| Model             |         |               | URNU18GVJA2        | URNU24GVJA2        | URNU36GVKA2       | URNU48GVLA2       |
|-------------------|---------|---------------|--------------------|--------------------|-------------------|-------------------|
| Capacity          | Cooling | kW            | 5.6                | 7.1                | 10.6              | 14.1              |
|                   | Heating | kW            | 6.3                | 8.0                | 11.9              | 15.9              |
| Power Input       | Cooling | W             | 63                 | 63                 | 140               | 190               |
|                   | Heating | W             | 63                 | 63                 | 140               | 190               |
| Power Supply      |         | ø/V/Hz        | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 |
| Airflow Rate      | H/M/L   | m³/min        | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 | 24.6 / 23 / 21.4  | 35 / 32 / 30      |
|                   |         | l/s           | 267 / 233 / 200    | 300 / 267 / 233    | 410 / 383 / 357   | 583 / 533 / 500   |
| Sound Pressure    | H/M/L   | dBA           | 42 / 40 / 37       | 43 / 41 / 39       | 48 / 46 / 44      | 49 / 48 / 47      |
| Dimensions        | Body    | WxHxD         | mm                 | 950 x 650 x 220    | 1350 x 650 x 220  | 1750 x 650 x 220  |
| Net Weight        |         | kg(lbs)       | 24.6(54.2)         | 24.6(54.2)         | 35.0(77.2)        | 45.0(99.2)        |
| Piping Connection | Liquid  | mm(inch)      | 6.35(1/4)          | 9.52(3/8)          | 9.52(3/8)         | 9.52(3/8)         |
|                   | Gas     | mm(inch)      | 12.7(1/2)          | 15.9(5/8)          | 15.9(5/8)         | 15.9(5/8)         |
|                   | Drain   | I.D. mm(inch) | 16(5/8)            | 16(5/8)            | 16(5/8)           | 16(5/8)           |

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

Accessories

| Model       |                                | ARNU09GVEA2    | ARNU12GVEA2 |
|-------------|--------------------------------|----------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |

| Wired Remote Controller                                                                                |                                                                                                   |                                                                                                           |                                                                                                          | Wireless Remote Controller                                                                          |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                            | Standard Type                                                                                     | Simple Type                                                                                               | Simple Type for Hotel                                                                                    | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

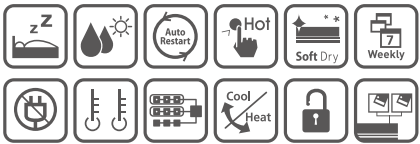
Accessories

| Model       |                                | URNU18GVJA2    | URNU24GVJA2 | URNU36GVKA2 | URNU48GVLA2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |

| Wired Remote Controller                                                                                  |                                                                                                     |                                                                                                             |                                                                                                            | Wireless Remote Controller                                                                          |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Deluxe Type                                                                                              | Standard Type                                                                                       | Simple Type                                                                                                 | Simple Type for Hotel                                                                                      | <br>PQWRHQ0FDB |
| <br>PQRCUDS0(white) | <br>PQRCVSL0QW | <br>PQRCVCL0QW (white) | <br>PQRCHCA0QW(White) |                                                                                                     |

Floor Standing with Case

ARNU07GCEA2    ARNU09GCEA2    ARNU12GCEA2  
ARNU15GCEA2    ARNU18GCEA2    ARNU24GCEA2



| Model             |         |          | ARNU07GCEA2       | ARNU09GCEA2       | ARNU12GCEA2       | ARNU15GCEA2       | ARNU018GCEA2       | ARNU024GCEA2       |
|-------------------|---------|----------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Capacity          | Cooling | kW       | 2.2               | 2.8               | 3.6               | 4.5               | 5.6                | 7.1                |
|                   | Heating | kW       | 2.5               | 3.2               | 4.0               | 5.0               | 6.3                | 8.0                |
| Power Input       | Cooling | W        | 30                | 30                | 30                | 30                | 80                 | 80                 |
|                   | Heating | W        | 30                | 30                | 30                | 30                | 80                 | 80                 |
| Power Supply      |         | ø/V/Hz   | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate      | H/M/L   | m³/min   | 8.5 / 7.5 / 6.5   | 9.5 / 8.5 / 7.5   | 10.5 / 9.5 / 8.5  | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
|                   |         | l/s      | 142 / 125 / 108   | 158 / 142 / 125   | 175 / 158 / 142   | 192 / 167 / 158   | 267 / 233 / 200    | 300 / 267 / 233    |
| Sound Pressure    | H/M/L   | dBA      | 35 / 33 / 31      | 36 / 34 / 32      | 37 / 35 / 33      | 38 / 37 / 35      | 40 / 37 / 34       | 43 / 40 / 37       |
| Dimensions        | Body    | WxHxD    | mm                | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,067 x 635 x 203 | 1,067 x 635 x 203  | 1,345 x 635 x 203  |
| Net Weight        |         | kg(lbs)  |                   | 27(59.5)          | 27(59.5)          | 27(59.5)          | 27(59.5)           | 34(75.0)           |
| Piping Connection | Liquid  | mm(inch) | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)          | 9.52(3/8)          |
|                   | Gas     | mm(inch) | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)          | 15.9(5/8)          |
|                   | Drain   | I.D.     | mm(inch)          | 12(15/32)         | 12(15/32)         | 12(15/32)         | 12(15/32)          | 12(15/32)          |

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

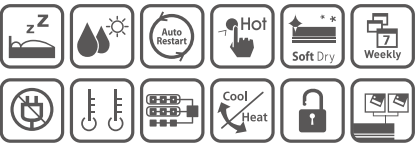
Accessories

| Model       |                                | ARNU07GCEA2    | ARNU09GCEA2 | ARNU12GCEA2 | ARNU15GCEA2 | ARNU018GCEA2 | ARNU024GCEA2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|--------------|--------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |              |              |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |              |              |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |              |              |

| Wired Remote Controller                                                             |                                                                                     |                                                                                     |                                                                                     | Wireless Remote Controller                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Deluxe Type                                                                         | Standard Type                                                                       | Simple Type                                                                         | Simple Type for Hotel                                                               |  |
|  |  |  |  |                                                                                       |
| PQRCUDS0(white)                                                                     | PQRCVSL0QW                                                                          | PQRCVCL0QW (white)                                                                  | PQRCHCA0QW(White)                                                                   | PQWRHQ0FDB                                                                            |

Floor Standing without Case

ARNU07GCEU2    ARNU09GCEU2    ARNU12GCEU2  
ARNU15GCEU2    ARNU18GCEU2    ARNU24GCEU2



| Model             |         |          | ARNU07GCEU2       | ARNU09GCEU2       | ARNU12GCEU2       | ARNU15GCEU2       | ARNU18GCEU2        | ARNU24GCEU2        |
|-------------------|---------|----------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| Capacity          | Cooling | kW       | 2.2               | 2.8               | 3.6               | 4.5               | 5.6                | 7.1                |
|                   | Heating | kW       | 2.5               | 3.2               | 4.0               | 5.0               | 6.3                | 8.0                |
| Power Input       | Cooling | W        | 30                | 30                | 30                | 30                | 80                 | 80                 |
|                   | Heating | W        | 30                | 30                | 30                | 30                | 80                 | 80                 |
| Power Supply      |         | ø/V/Hz   | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50 | 1 / 220 ~240 / 50  | 1 / 220 ~240 / 50  |
| Airflow Rate      | H/M/L   | m³/min   | 8.5 / 7.5 / 6.5   | 9.5 / 8.5 / 7.5   | 10.5 / 9.5 / 8.5  | 11.5 / 10.0 / 9.5 | 16.0 / 14.0 / 12.0 | 18.0 / 16.0 / 14.0 |
|                   |         | l/s      | 142 / 125 / 108   | 158 / 142 / 125   | 175 / 158 / 142   | 192 / 167 / 158   | 267 / 233 / 200    | 300 / 267 / 233    |
| Sound Pressure    | H/M/L   | dBA      | 35 / 33 / 31      | 36 / 34 / 32      | 37 / 35 / 33      | 38 / 37 / 35      | 40 / 37 / 34       | 43 / 40 / 37       |
| Dimensions        | Body    | WxHxD    | mm                | 978 x 639 x 190   | 978 x 639 x 190   | 978 x 639 x 190   | 978 x 639 x 190    | 1,256 x 639 x 190  |
| Net Weight        |         | kg(lbs)  |                   | 20(44.1)          | 20(44.1)          | 20(44.1)          | 20(44.1)           | 27(59.5)           |
| Piping Connection | Liquid  | mm(inch) | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)         | 6.35(1/4)          | 9.52(3/8)          |
|                   | Gas     | mm(inch) | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)         | 12.7(1/2)          | 15.9(5/8)          |
|                   | Drain   | I.D.     | mm(inch)          | 12(15/32)         | 12(15/32)         | 12(15/32)         | 12(15/32)          | 12(15/32)          |

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

Accessories

| Model       |                                | ARNU07GCEU2    | ARNU09GCEU2 | ARNU12GCEU2 | ARNU15GCEU2 | ARNU18GCEU2 | ARNU24GCEU2 |
|-------------|--------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|
| Dry Contact | Without Case (1 Contact Point) | PQDSA          |             |             |             |             |             |
|             | With Case (1 Contact Point)    | PQDSB / PQDSB1 |             |             |             |             |             |
|             | With Case (2 Contact Point)    | PQDSBC         |             |             |             |             |             |

| Wired Remote Controller                                                               |                                                                                       |                                                                                       |                                                                                       | Wireless Remote Controller                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Deluxe Type                                                                           | Standard Type                                                                         | Simple Type                                                                           | Simple Type for Hotel                                                                 |  |
|  |  |  |  |                                                                                       |
| PQRCUDS0(white)                                                                       | PQRCVSL0QW                                                                            | PQRCVCL0QW (white)                                                                    | PQRCHCA0QW(White)                                                                     | PQWRHQ0FDB                                                                            |



\*Requires AC Smart Premium, PQCSW421E0A, to perform this function.

## INDOOR UNIT





# **ecoV™**

ENERGY RECOVERY VENTILATOR

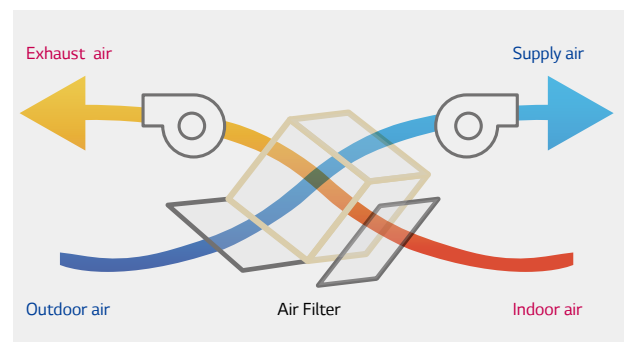
MULTI V series Offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design and install.

076 **eco V**



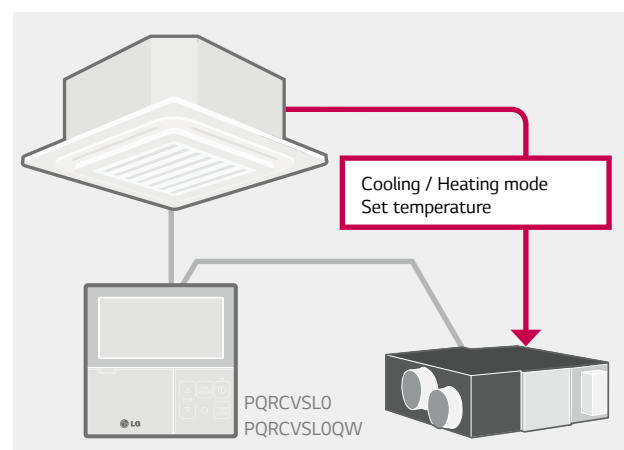
## High Efficiency Heat Exchanger

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



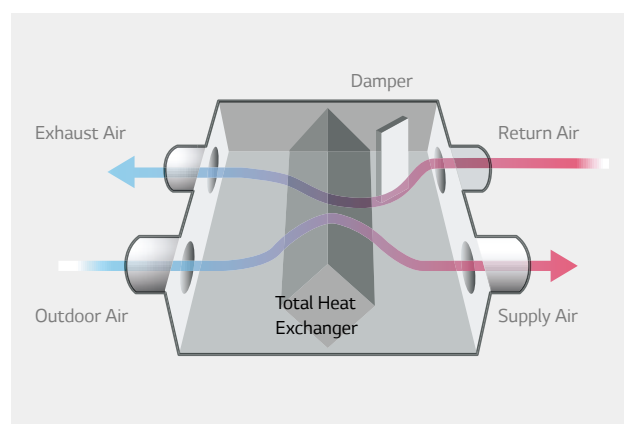
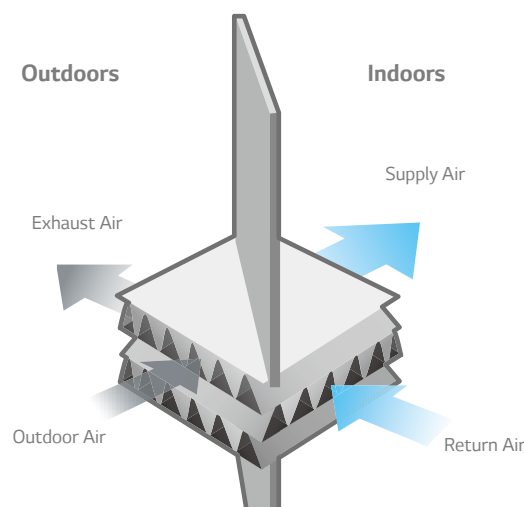
## Interlocking with Air Conditioning System

- ECO V can be interlocked with air conditioners or controlled individually.
- This function can be operated when the system is connected with a remote control.



## Compulsory Exhausting System

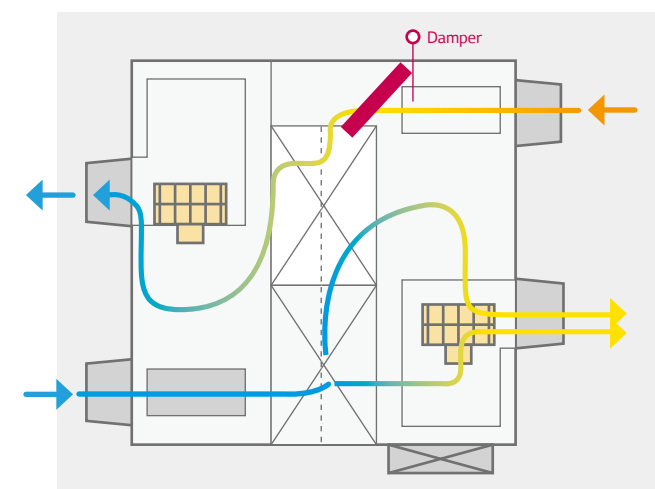
The exhausting system using high static and sirocco fan removes contaminants effectively from indoor air. Supply and exhaust air flows are completely separated in the total heat exchanger, ECO V can filter out the impurities before supplying outdoor air and make indoor air fresh and healthy.



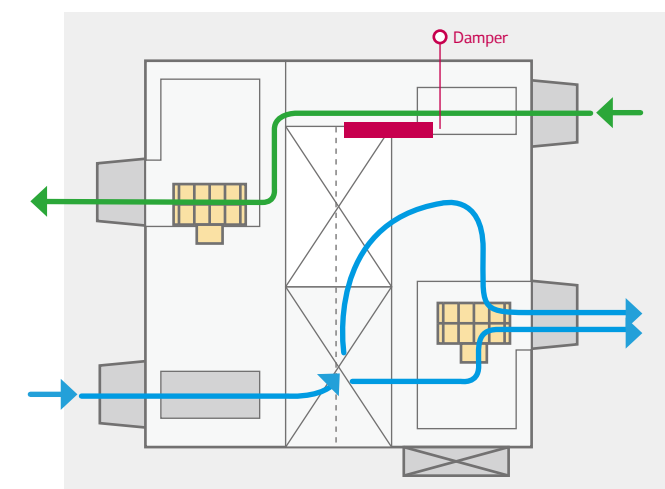
## Bypass Ventilation

ECO V automatically switches the ventilation mode (Enthalpy Heat Exchange Mode / Bypass Mode) according to the indoor/outdoor temperature. (Only applied to 500 CMH models or above)

**Enthalpy Heat Exchange Mode** (Summer / Winter)



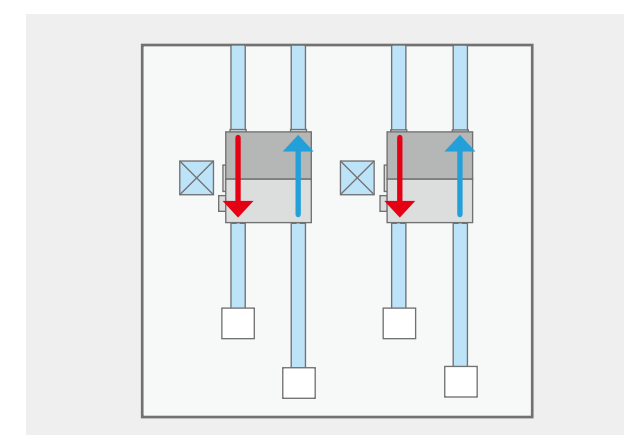
**Bypass Mode** (Seasonal Change)



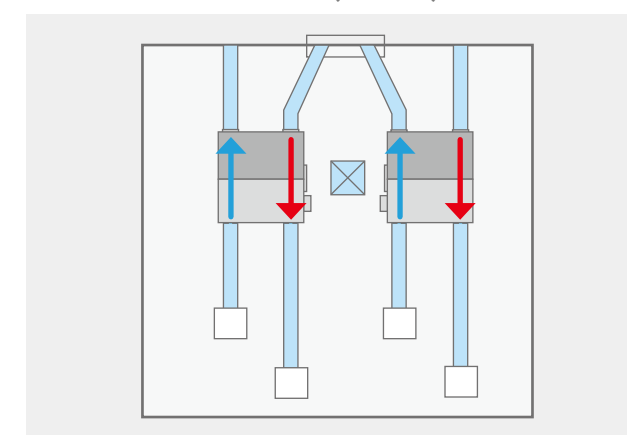
## Flexibility of Installation

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

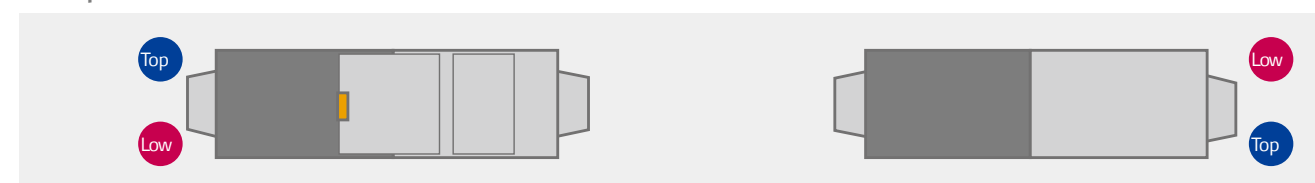
**Normal installation of 2 units**



**Reverse installation of 1 unit (Left unit)**

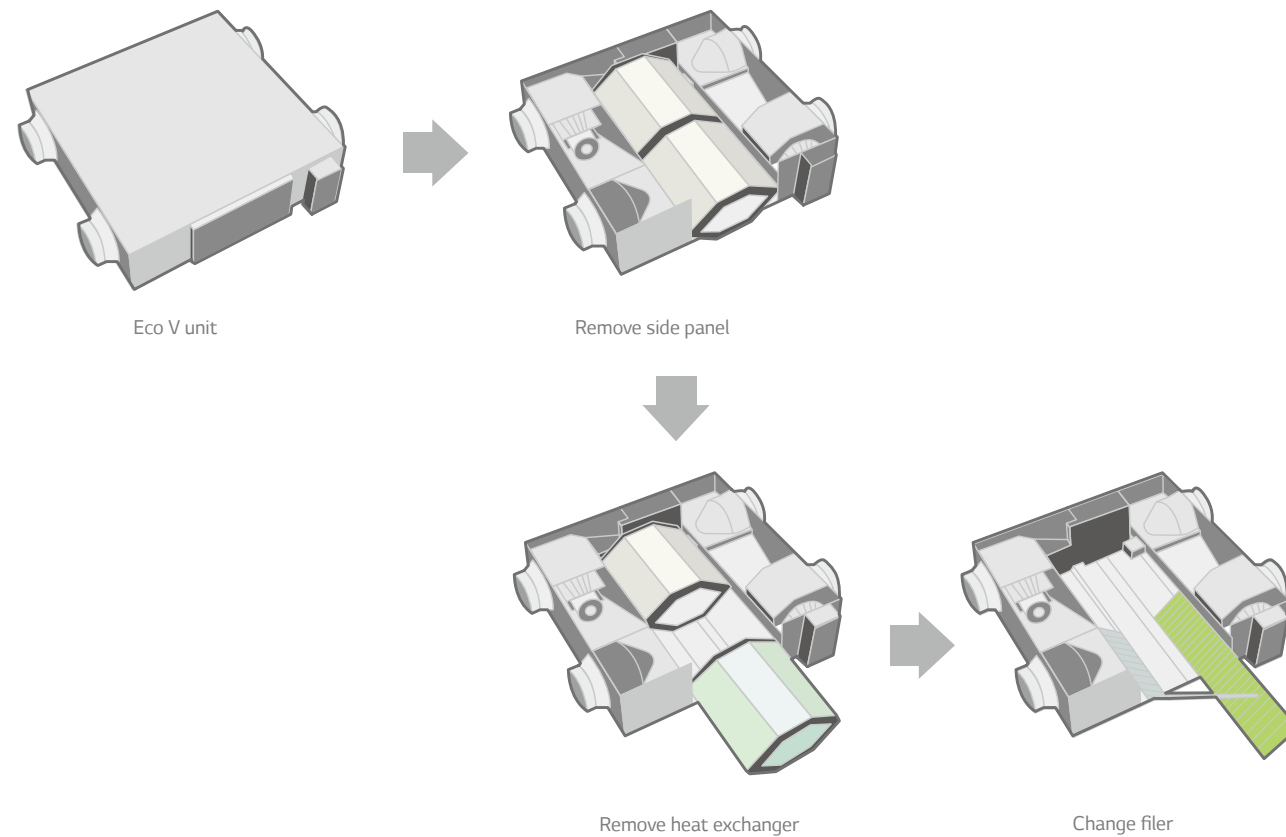


**Inspection chamber**



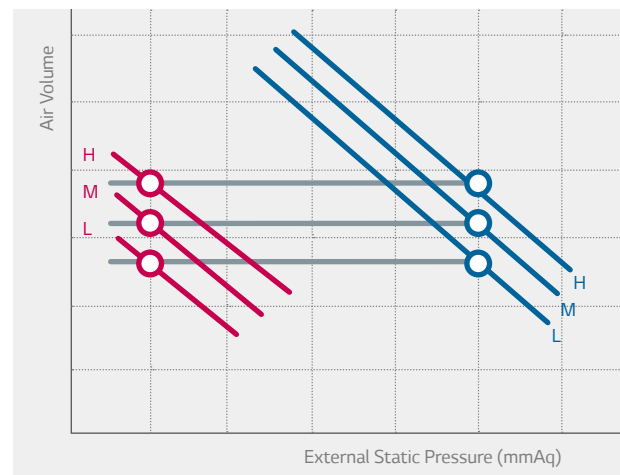
## Easy Cleaning and Filter Change

It is easy and convenient to change and clean the filter. (Only applied to 500 CMH models or above)



## ETuning (External Static Pressure Control)

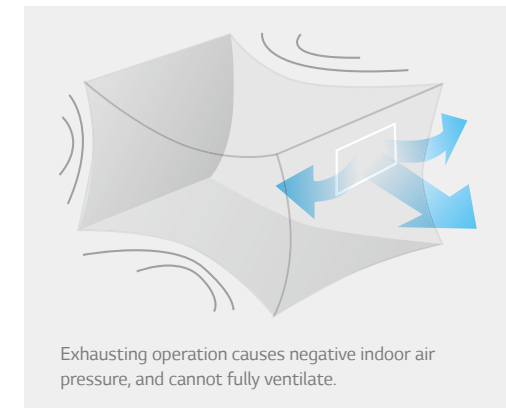
The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



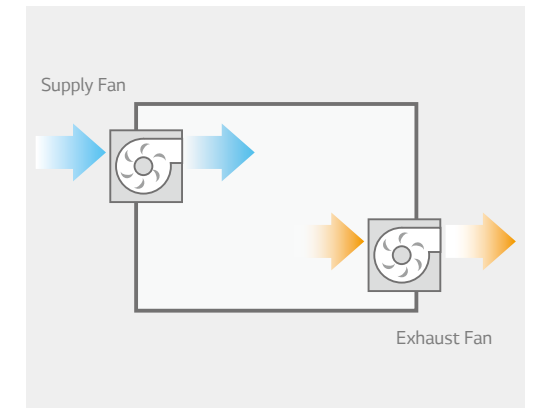
## Fast Ventilation Mode

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

### Only Exhausting

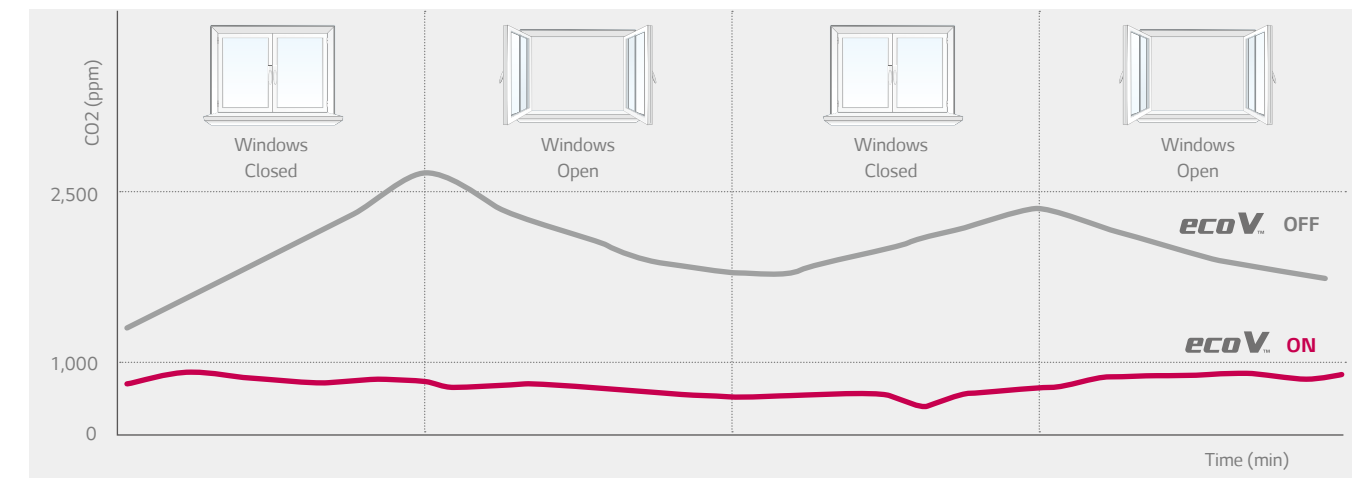
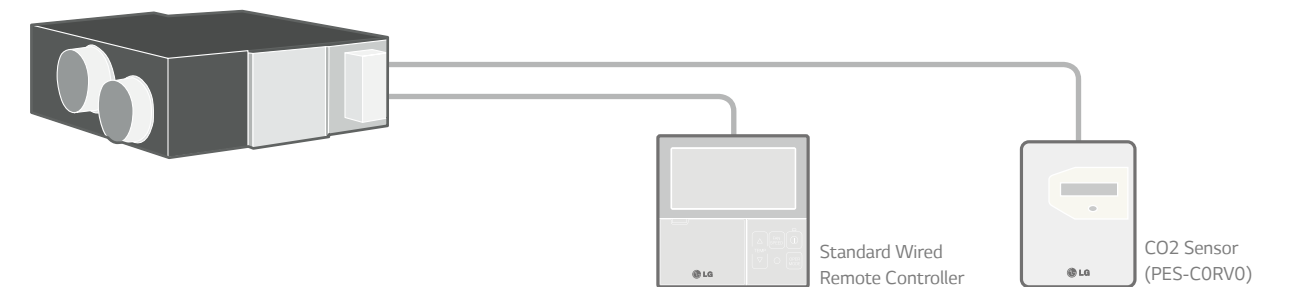


### Fast Ventilation Mode



## CO2 Concentration Control

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





LZ-H025GBA2 / LZ-H035GBA2



LZ-H050GBA2

| Model             |                                 |                 |          | LZ-H025GBA2                     | LZ-H035GBA2                     | LZ-H050GBA2                     |
|-------------------|---------------------------------|-----------------|----------|---------------------------------|---------------------------------|---------------------------------|
| Nominal Capacity  |                                 | CMH(CFM)        |          | 250(147)                        | 350(206)                        | 500(294)                        |
| Power Supply      |                                 | øV/Hz           |          | 1, 220-240, 50-60               |                                 |                                 |
| ECO V Mode        | Step                            | SH/H/L          | -        | SUPER-HIGH / HIGH / LOW         |                                 |                                 |
|                   | Current                         | SH/H/L          | Amps     | 1.04/0.97/0.7                   | 1.73/1.58/0.77                  | 1.92/1.58/0.79                  |
|                   | Power input                     | SH/H/L          | W        | 110/105/75                      | 200/180/80                      | 230/220/85                      |
|                   | Air Flow                        | SH/H/L          | CMH(CFM) | 250/250/150<br>(147/147/88)     | 350/350/210<br>(206/206/124)    | 500/500/320<br>(294/294/124)    |
|                   | External Static Pressure        | SH/H/L          | Pa(lnwg) | 150/130/110<br>(0.60/0.52/0.44) | 170/150/100<br>(0.68/0.60/0.40) | 150/100/50<br>(0.60/0.40/0.2)   |
|                   | Temperature Exchange Efficiency | SH/H/L          | %        | 80/80/85                        | 83/83/87                        | 75/75/79                        |
|                   | Enthalpy Exchange Efficiency    | Heating(SH/H/L) | %        | 70/70/78                        | 80/80/85                        | 72/72/77                        |
|                   |                                 | Cooling(SH/H/L) | %        | 64/64/68                        | 78/78/83                        | 70/70/75                        |
|                   | Noise Level (Sound Level, 1.5m) | SH/H/L          | dBA      | 32/28/21                        | 33/28/23                        | 34/35/25                        |
| Bypass Mode       | Step                            |                 |          | - / - / -                       |                                 | SUPER-HIGH / HIGH / LOW         |
|                   | Current                         |                 |          | - / - / -                       |                                 | 1.92/1.58/0.79                  |
|                   | Power input                     |                 |          | - / - / -                       |                                 | 230/220/85                      |
|                   | Air Flow                        |                 |          | - / - / -                       |                                 | 500/500/320<br>(294/294/124)    |
|                   | External Static Pressure        |                 |          | - / - / -                       |                                 | 150/100/50<br>(0.60/0.40/0.20)  |
|                   | Noise Level (Sound Level, 1.5m) |                 |          | - / - / -                       |                                 | 34/35/25                        |
| Heat Exchanger    | Type                            | dBA             |          | Crossflow                       |                                 |                                 |
| Net Weight        |                                 | kg(lb)          |          | 320(70.5)                       |                                 | 44(97)                          |
| Dimension         | WxHxD                           | mm (Inch)       |          | 750x250x680(29.52x9.84x26.77)   |                                 | 988x273x1,014(38.9x10.75x39.92) |
| Duct Work         | Qty                             | EA              |          | 4                               |                                 |                                 |
|                   | Size(ø)                         | mm (Inch)       |          | ø150(ø5.91)                     |                                 | ø200(ø7.87)                     |
| Supply Air Fan    | Qty                             | EA              |          | 1                               |                                 |                                 |
|                   | Type                            | -               |          | Direct-Drive                    |                                 |                                 |
| Exhaust Air Fan   | Qty                             | EA              |          | 1                               |                                 |                                 |
|                   | Type                            | -               |          | Direct-Drive                    |                                 |                                 |
| Filters           | Qty                             | EA              |          | 2                               |                                 |                                 |
|                   | Type                            | -               |          | Cleanable                       |                                 |                                 |
|                   | Size(WxHxD)                     | mm (Inch)       |          | 600x10x150(23.62x0.39x5.91)     |                                 | 855x10x166(33.66x0.39x6.54)     |
| Remote Controller | W                               |                 |          | PQRCVSL0 / PQRCVSL0QW           |                                 |                                 |
| Dry Contact       |                                 |                 |          | PQDSB / PQDSB1                  |                                 |                                 |

Notes:  
1. eco V Mode - Enthalpy Heat Recovery Ventilation mode  
2. 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 absorpton coefficient) of particular room in which the equipment is installed.

| Wired Remote Controller |
|-------------------------|
| Standard Type           |



PQRCVSL0QW

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LZ-H080GBA2 / LZ-H100GBA2



LZ-H150GBA2 / LZ-H200GBA2

| Model             |                                 |                 |                                 | LZ-H080GBA2                    | LZ-H100GBA2                      | LZ-H150GBA2                        | LZ-H200GBA2                            |
|-------------------|---------------------------------|-----------------|---------------------------------|--------------------------------|----------------------------------|------------------------------------|----------------------------------------|
| Nominal Capacity  |                                 |                 | CMH(CFM)                        | 800(471)                       | 1,000(589)                       | 1,500(883)                         | 2,000(1,177)                           |
| Power Supply      |                                 |                 | øV/Hz                           | 1, 220-240, 50-60              |                                  |                                    |                                        |
| ECO V Mode        | Step                            | SH/H/L          | -                               | SUPER-HIGH / HIGH / LOW        |                                  |                                    |                                        |
|                   | Current                         | SH/H/L          | Amps                            | 2.77/2.16/1.44                 | 3.41/2.91/1.76                   | 5.6/5.4/2.9                        | 6.8/5.9/3.6                            |
|                   | Power input                     | SH/H/L          | W                               | 360/370/165                    | 470/385/210                      | 720/540/340                        | 930/770/420                            |
|                   | Air Flow                        | SH/H/L          | CMH(CFM)                        | 800/800/660<br>(471/471/388)   | 1,000/1,000/800<br>(589/589/471) | 1,500/1,500/1,200<br>(883/883/706) | 2,000/2,000/1,600<br>(1,177/1,177/942) |
|                   | External Static Pressure        | SH/H/L          | Pa(nwg)                         | 200/110/60<br>(0.80/0.44/0.24) | 160/90/50<br>(0.64/0.36/0.20)    | 200/110/60<br>(0.80/0.44/0.24)     | 160/90/50<br>(0.64/0.36/0.20)          |
|                   | Temperature Exchange Efficiency | SH/H/L          | %                               | 79/79/82                       | 75/75/78                         | 79/79/82                           | 75/75/78                               |
|                   | Enthalpy Exchange Efficiency    | Heating(SH/H/L) | %                               | 70/70/75                       | 66/66/71                         | 70/70/75                           | 66/66/71                               |
|                   |                                 | Cooling(SH/H/L) | %                               | 65/65/70                       | 61/61/66                         | 65/65/70                           | 61/61/66                               |
|                   | Noise Level (Sound Level, 1.5m) | SH/H/L          | dBA                             | 36/34/30                       | 37/35/31                         | 39/37/33                           | 39/37/33                               |
| Bypass Mode       | Step                            |                 |                                 | SUPER-HIGH / HIGH / LOW        |                                  |                                    |                                        |
|                   | Current                         |                 |                                 | 2.77/2.16/1.44                 | 3.41/2.91/1.76                   | 5.6/5.4/2.9                        | 6.8/5.9/3.6                            |
|                   | Power input                     |                 |                                 | 360/370/165                    | 470/385/210                      | 720/540/340                        | 930/770/420                            |
|                   | Air Flow                        |                 |                                 | 800/800/660<br>(471/471/388)   | 1,000/1,000/800<br>(589/589/471) | 1,500/1,500/1,200<br>(883/883/706) | 2,000/2,000/1,600<br>(1,177/1,177/942) |
|                   | External Static Pressure        |                 |                                 | 200/110/60<br>(0.80/0.44/0.24) | 160/90/50<br>(0.64/0.36/0.20)    | 200/110/60<br>(0.80/0.44/0.24)     | 160/90/50<br>(0.64/0.36/0.20)          |
|                   | Noise Level (Sound Level, 1.5m) |                 |                                 | 36/34/30                       | 37/35/31                         |                                    |                                        |
| Heat Exchanger    | Type                            | dBA             | Crossflow                       |                                |                                  |                                    |                                        |
| Net Weight        |                                 | kg(lb)          | 60(132)                         |                                |                                  | 140(308)                           |                                        |
| Dimension         | WxHxD                           | mm (Inch)       | 1,062x365x1,140(41.9x14.4x44.9) |                                |                                  | 1,313x737x1,140(51.7x29.0x44.9)    |                                        |
| Duct Work         | Qty                             | EA              | 4                               |                                |                                  | 4+2                                |                                        |
|                   | Size(ø)                         | mm (Inch)       | ø250(ø9.84)                     |                                |                                  | ø250(ø9.84)+ø350(ø13.77)           |                                        |
| Supply Air Fan    | Qty                             | EA              | 1                               |                                |                                  | 2                                  |                                        |
|                   | Type                            | -               | Direct-Drive                    |                                |                                  |                                    |                                        |
| Exhaust Air Fan   | Qty                             | EA              | 1                               |                                |                                  | 2                                  |                                        |
|                   | Type                            | -               | Direct-Drive                    |                                |                                  |                                    |                                        |
| Filters           | Qty                             | EA              | 2                               |                                |                                  | 4                                  |                                        |
|                   | Type                            | -               | Cleanable                       |                                |                                  |                                    |                                        |
|                   | Size(WxHxD)                     | mm (Inch)       | 600x10x150(23.62x0.39x5.91)     |                                |                                  | 1,056x10x212.5(41.57x0.39x8.37)    |                                        |
| Remote Controller |                                 | W               | PQRCVSL0 / PQRCVSL0QW           |                                |                                  |                                    |                                        |
| Dry Contact       |                                 |                 | PQDSB / PQDSB1                  |                                |                                  |                                    |                                        |

Notes:  
1. eco V Mode - Enthalpy Heat Recovery Ventilation mode  
2. 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 absorpton coefficient) of particular room in which the equipment is installed.

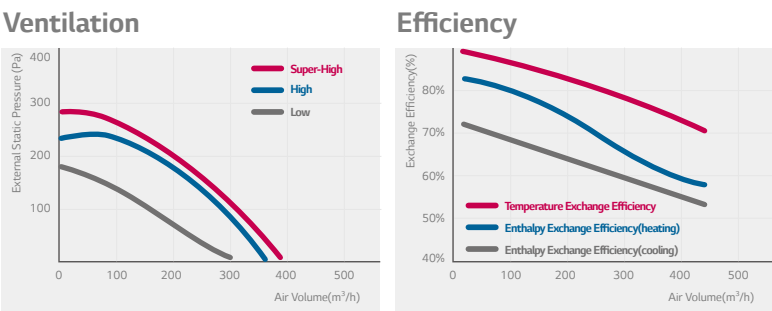
| Wired Remote Controller |
|-------------------------|
| Standard Type           |



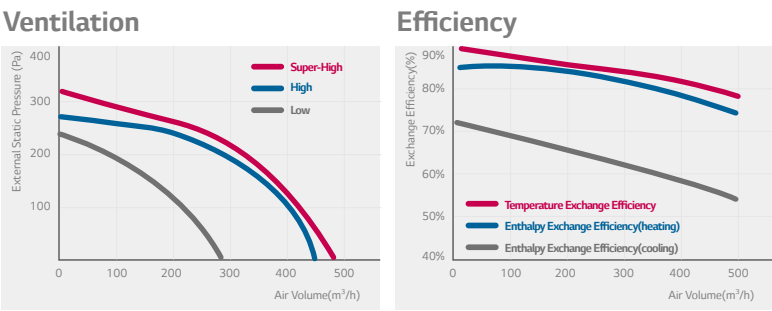
PQRCVSL0QW

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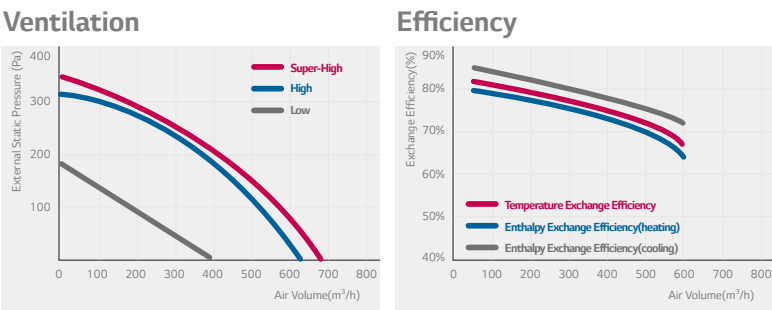
LZ-H025GBA2



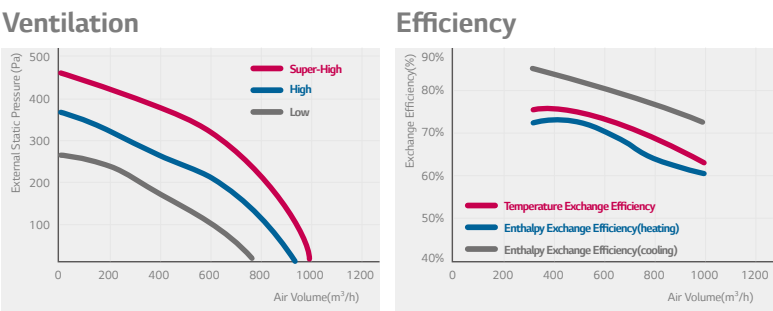
LZ-H035GBA2



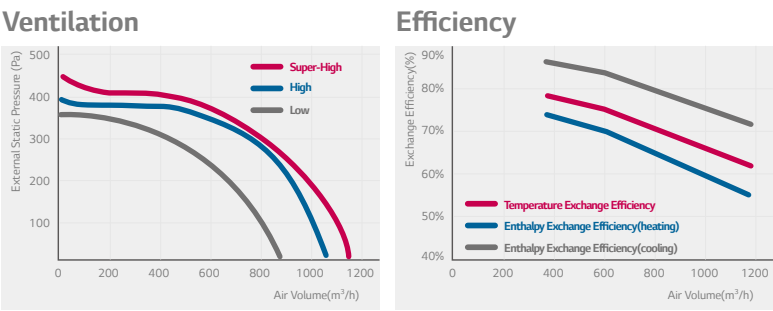
LZ-H050GBA2



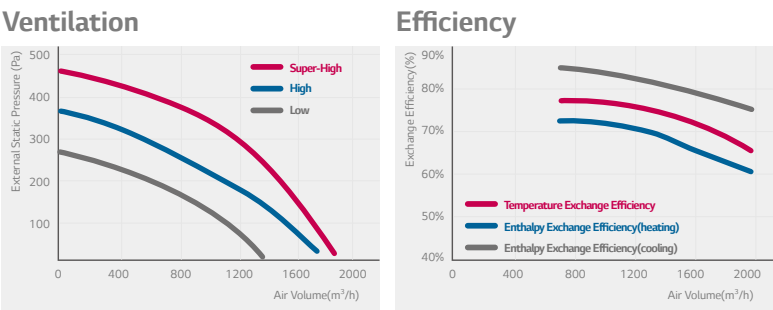
LZ-H080GBA2



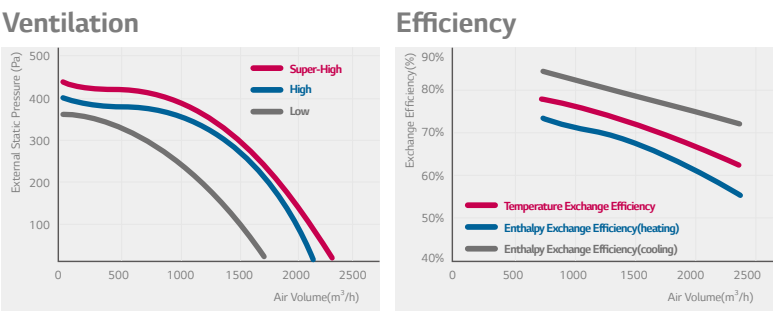
LZ-H100GBA2



LZ-H150GBA2



LZ-H200GBA2







# ACCESSORIES

MULTI V series Offers outstanding energy savings, easy installation and connection to many different types of indoor units, making it easy to design and install.

- 086 **Air Conditioner Control System**
- 124 **Mechanical Accessories**
- 131 **Piping Accessories**



# ACCESSORIES

## Air Conditioner Control System LINE UP

| Remote Controller                                                                               |                                                                                                          |                                                                                                                                                                                                                                                        |                                                                                                | Central Controller                                                                |                                                                                     | Central Controller                                                                  |                                                                                     | Gateway                                                                             |                                                                                     | Electronic Accessories                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wired Remote Controller                                                                         |                                                                                                          |                                                                                                                                                                                                                                                        |                                                                                                | Wireless Remote Controller                                                        | Simple Central Controller                                                           | AC Smart Premium                                                                    | ACP & AC Manager Plus                                                               | Building Network Unit                                                               | PI 485 & DO Kit                                                                     | <ul style="list-style-type: none"><li>• PDI</li><li>• PDI Premium</li><li>• Dry Contact</li><li>• Variable Water Flow Control Kit</li><li>• Independent Power Module</li><li>• Remote Temperature Sensor</li><li>• Cool/Heat Selector</li><li>• Group Control Wire</li></ul> |
| Standard                                                                                        | Deluxe                                                                                                   | Simple                                                                                                                                                                                                                                                 | Premium                                                                                        |  |  |  |  |  |  |                                                                                                                                                                                                                                                                              |
| <br>PQRCVSL0QW | <br>PQRCUDS0<br>(White) | <br>PQRCVCL0QW<br>(White/Simple)<br><br><br>PQRCHCA0QW<br>(White/Simple for Hotel) | <br>PREMTA000 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                              |

# REMOTE CONTROLLER

Standard Wired Remote Controller



> Page 89

Deluxe Wired Remote Controller



> Page 90

Simple Wired Remote Controller



> Page 91

Wireless Remote Controller



> Page 92

Premium Wired Remote Controller



> Page 93

## Remote Controller Line Up

| Categories                     |  |  |  |  |  |  |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                | PQRCVSLOQW                                                                          | PQRCUDS0                                                                            | PQRCVCLOQW                                                                          | PQRCHCA0QW                                                                          | PQWRHQ0FDB (H/P)                                                                      | PREMTA000                                                                             |
| On / Off                       | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                     | O                                                                                     |
| Fan speed                      | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                     | O                                                                                     |
| Temperature setting            | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                     | O                                                                                     |
| Mode change                    | O                                                                                   | O                                                                                   | O                                                                                   | -                                                                                   | O                                                                                     | O                                                                                     |
| Auto swing                     | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                     | O                                                                                     |
| Vane control(Louver direction) | O                                                                                   | O                                                                                   | O                                                                                   | -                                                                                   | O                                                                                     | O                                                                                     |
| E.S.P function                 | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | -                                                                                     | O                                                                                     |
| Reservation                    | O                                                                                   | O                                                                                   | -                                                                                   | -                                                                                   | O                                                                                     | O                                                                                     |
| Timer Function                 | O                                                                                   | O                                                                                   | -                                                                                   | -                                                                                   | O                                                                                     | O                                                                                     |
| Electric failure compensation  | O                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                     | 50 hours                                                                              |
| Child lock                     | O                                                                                   | O                                                                                   | O                                                                                   | O                                                                                   | -                                                                                     | O                                                                                     |

## STANDARD WIRED REMOTE CONTROLLER

Providing easy control of one or a group of indoor units to various applications

PQRCVSLOQW



PQRCVSLOQW  
(White)

### Features

| Categories                                               | PQRCVSLOQW                                   |
|----------------------------------------------------------|----------------------------------------------|
| Operating mode                                           | On/Off / Fan speed / Mode / Temp.            |
| Max. no. of indoor units                                 | 16 indoor units                              |
| On / Off LED                                             | O                                            |
| Room temp.                                               | O                                            |
| Fan / Plasma / Swirl / Heater                            | O                                            |
| Vane control(Louver direction) / Auto swing / Fan auto   | O                                            |
| E.S.P function                                           | O                                            |
| Reservation                                              | On/Off / Weekly / Simple / Sleep / Holiday   |
| Timer function                                           | O                                            |
| Child lock                                               | O                                            |
| Electric failure compensation                            | Max 3 hours                                  |
| Wireless remocon receiver                                | O                                            |
| Main/Sub setting of indoor units (For override function) | Applicable for MULT V II, III and IV series. |
| 2 Controllers to 1 indoor unit                           | Applicable for MULT V II, III and IV series. |
| Group and central control at the same time               | Applicable for MULT V II, III and IV series. |
| Ventilation mode setting                                 | Applicable for ECO V II series.              |
| Rapid ventilation                                        | Applicable for ECO V II series.              |
| Power saving ventilation                                 | Applicable for ECO V II series.              |
| Size(mm)                                                 | 120 x 121 x 16                               |
| Backlight Unit                                           | O                                            |

\* Terminal Block included. (Applied to models produced since '10 Nov.)  
\* Refer to each model PDB for applicable models.

# DELUXE WIRED REMOTE CONTROLLER

Touch screen with a premium design for high end interior designs

PQRCUDS0



PQRCUDS0  
(White)

Features

| PQRCUDS0                                    |                                   |
|---------------------------------------------|-----------------------------------|
| Categories                                  | PQRCUDS0                          |
| Operating mode                              | On/Off / Fan speed / Mode / Temp. |
| Touch screen / LCD back_light               | ○                                 |
| Room temp                                   | ○                                 |
| Fan / Plasma / Swirl / Heater               | ○                                 |
| Vane control(Louver direction) / Auto swing | ○                                 |
| E.S.P function                              | ○                                 |
| Reservation                                 | Weekly / Simple                   |
| Timer function                              | ○                                 |
| Child lock                                  | ○                                 |

\* Refer to each model PDB for applicable models.

# SIMPLE WIRED REMOTE CONTROLLER

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

Simple  
PQRCVCLOQW (White)

Simple for Hotel  
PQRCHCA0QW (White)



PQRCVCLOQW  
PQRCHCA0QW

Features

| PQRCVCLOQW     |                                             |                                       |
|----------------|---------------------------------------------|---------------------------------------|
| Categories     | PQRCVCLOQW                                  | PQRCHCA0QW                            |
| Operating mode | On/Off / Fan speed / Mode / Temp.           | On/Off / Fan speed / Mode / Temp.     |
| Room temp      | ○                                           | ○                                     |
| Child lock     | ○                                           | ○                                     |
| Mode Change    | Cooling / Heating / Fan / Dehumidify / Auto | Only changeable by central controller |
| Backlight      | ○                                           | ○                                     |

\* Refer to each model PDB for applicable models.

# WIRELESS REMOTE CONTROLLER

Wireless control to operate air conditioners more conveniently

PQWRHQ0FDB (H/P)



## Features

| Model name                                                 | PQWRHQ0FDB (H/P)                              |
|------------------------------------------------------------|-----------------------------------------------|
| Operating mode                                             | On/Off / Fan speed / Mode / Temperature       |
| Room temperature checking                                  | ○                                             |
| Chaos swing / Jet cool                                     | ○                                             |
| On/Off timer                                               | ○                                             |
| Sleep mode auto                                            | ○                                             |
| Main / Sub setting of indoor units (For override function) | Applicable for MULTI V II, III and IV series. |

\* Refer to each model block for applicable models.

## Applicable Models

| Model name                            | PQWRHQ0FDB (H/P) |
|---------------------------------------|------------------|
| CST, SRAC, CVT, Duct*, Floor Standing | ○                |

\* Combination with other remote controllers for various indoor units.

\* All Duct products can be controlled through wireless remote controller when wired remote controller is installed.

# PREMIUM WIRED REMOTE CONTROLLER

5inch full touch screen with a premium design

PREMTA000



\* Available from July

## Features

- 1) Self administration function for Energy saving
  - Air-conditioning saving mode / Continuous operation time limit / Electricity consumption monitoring.
  - Weekly / Monthly / Yearly Trend / Target setting alarm.
  - Temperature scope locking (cooling / heating)
- 2) User friendly design
  - Full touch type / Intuitive UI&GUI design / Display Configuration.
- 3) Enhanced schedule function
  - Yearly schedule function / Schedule pattern
- 4) Various localized function mode
  - 2 Set point / Setback / Override / 8 Zone Control / Summer Time.

| Model name                                               | PREMTA000                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------|
| Operating mode                                           | On/Off / Fan speed / Mode / Temperature                            |
| Maximum number of indoor units                           | 16                                                                 |
| On/Off LED                                               | ○                                                                  |
| Room temperature                                         | ○                                                                  |
| Fan / Plasma / Swirl / Heater                            | ○                                                                  |
| Vane control (Louver direction) / Auto swing / Fan auto  | ○                                                                  |
| E.S.P (External Static Pressure) function                | ○                                                                  |
| Reservation                                              | Timer (simple/sleep) / Daily(On/Off) / Weekdays / Yearly / Holiday |
| Time function                                            | ○                                                                  |
| Child lock                                               | ○ All / Individual (On/Off, Mode, Temperature)                     |
| Electric failure compensation                            | 50 hours                                                           |
| Wireless remocon receiver                                | ○ (Only for ceiling duct type indoor unit)                         |
| Main/Sub setting of indoor units (For override function) | Applicable for MULTI V II, III and IV series.                      |
| 2 Controllers to 1 indoor unit                           | * Applicable for after MULTI V IV Series indoor unit.              |
| Group and central control at the same time               | Applicable for MULTI V II, III and IV series.                      |
| Ventilation mode setting                                 | Applicable for ERV II series.                                      |
| Rapid ventilation                                        | Applicable for ERV II series.                                      |
| Power saving ventilation                                 | Applicable for ERV II series.                                      |
| Dimensions (W X H X D, mm)                               | 137 x 121 x 16.5                                                   |
| Display                                                  | 5" TFT color LCD (480 x 272)                                       |
| Touch type                                               | RESISTIVE Touch panel                                              |

\* Must check compatibility between indoor unit and remote controller before installation with 2 controllers to 1 indoor unit function (see user&installer manual for this product).

# CENTRAL CONTROLLER

AC EZ



> pg.95

AC Smart Premium



> pg.96

ACP  
(Standard, Premium)



> pg.98

AC Manager Plus



> pg.100

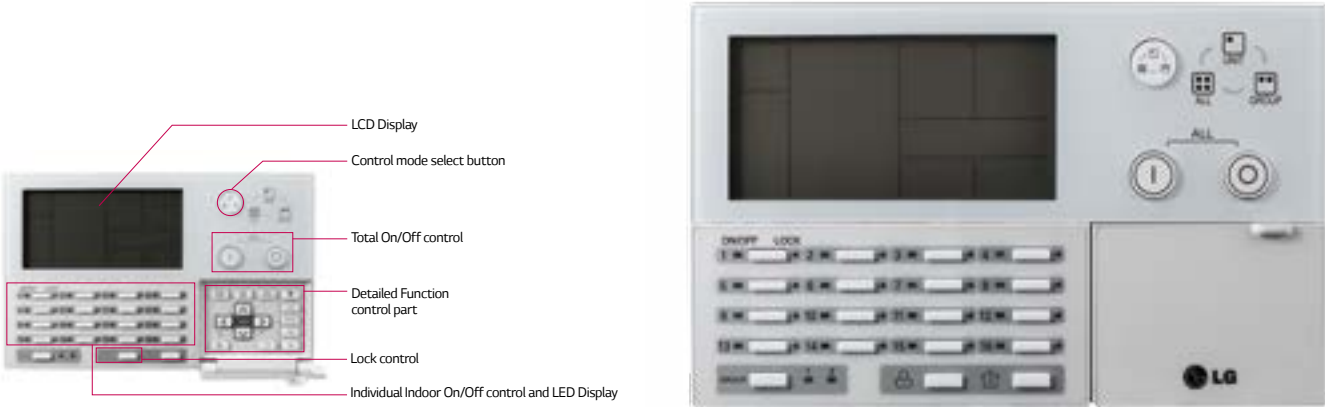
## Central Controller Line Up

| Categories                     | <br>PQCSZ250S0 | <br>PQCSW421E0A | <br>PQPC22N0<br>PQPC22A0 | <br>PQCSSA21E0 |
|--------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| On / Off                       | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Max. no. of indoor units       | 32(16/16)                                                                                         | 128                                                                                                | 256                                                                                                          | 8,192                                                                                               |
| Mode change                    | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Control of each room           | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Total lock                     | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Error check                    | LED/LCD display                                                                                   | Self- diagnosis                                                                                    | Self- diagnosis                                                                                              | Self- diagnosis                                                                                     |
| Fan speed /Temperature control | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Schedule                       | Weekly                                                                                            | Weekly / Yearly                                                                                    | Weekly / Yearly                                                                                              | Weekly / Yearly                                                                                     |
| Ventilation control            | O                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| PDI Monitoring                 | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Web access                     | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Set temp. range restriction    | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Auto Changeover                | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Temperature limit control      | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| History                        | -                                                                                                 | O                                                                                                  | O                                                                                                            | O                                                                                                   |
| Interlocking function          | -                                                                                                 | O                                                                                                  | -                                                                                                            | O                                                                                                   |
| Multi languages                | -                                                                                                 | O                                                                                                  | -                                                                                                            | O                                                                                                   |
| Visual Navigation              | -                                                                                                 | O                                                                                                  | -                                                                                                            | O                                                                                                   |

## AC EZ

In addition to On/Off control, more functions such as operation mode, fan speed, and scheduling can be run and monitored

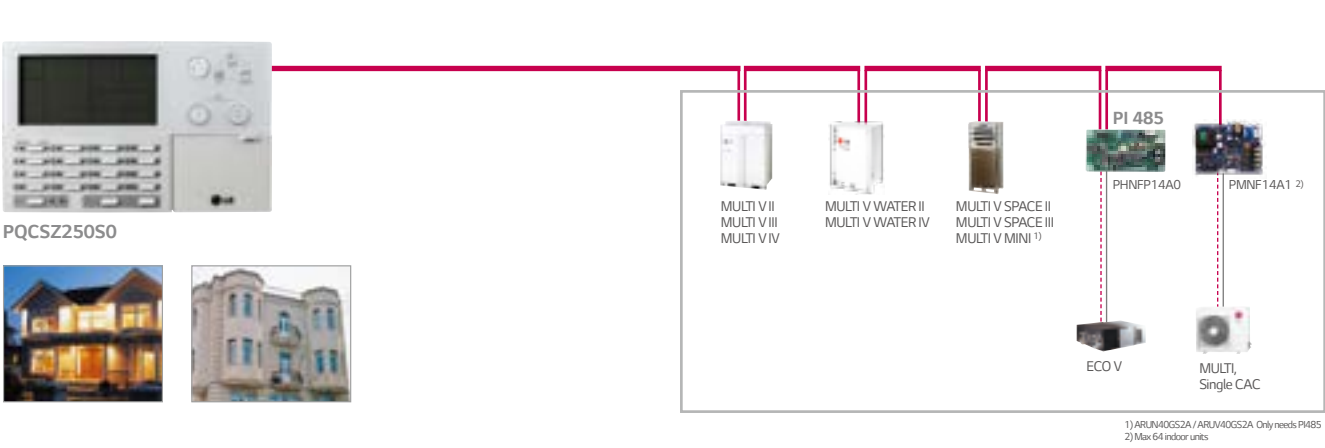
## PQCSZ250S0



## Features

| Categories                            | PQCSZ50S0                                         |
|---------------------------------------|---------------------------------------------------|
| Max. Indoor unit to control           | 32 Indoor Units                                   |
| Individual Control                    | On/Off / Operation Mode / Fan Speed / Temp        |
| Lock function                         | Central                                           |
| Mode change                           | Cooling / Heating / Fan / Dehumidification / Auto |
| Schedule                              | 8 event schedule/day                              |
| Ventilation control                   | On/Off / Ventilation Mode / Rapid Ventilation     |
| Display(All Indoor status indication) | Operation, Set temp, Room Temp, Schedule          |
| Size(mm)                              | 190x120x17                                        |
| Power                                 | DC 12V                                            |

## Combination





# AC SMART PREMIUM

New AC Smart Premium provides a user-friendly GUI with 10.2 inch screen

## PQCSW421E0A



Home Screen

- Visual Navigation
- User friendly GUI
- Screen size up(10.2inch) and Resolution(1024\*600)
- 2 D/I and 2 D/O ports for interlocking function
- Energy bill calculation function
- 2 Point Setback
- 2 Point Auto Changeover
- E-mail of Statistics



### Control / Monitoring

Controls and monitors the operation status of the air conditioner / ventilator devices.



### Schedule

Operates the air conditioners, ventilators, AHU, AWHP, Hydro Kit and DO Kit connected to AC Smart Premium according to the schedule.



### Automation control

- Peakpower : Sets a peak operation rate so that the air conditioner doesn't exceed the set value.
- Demand : Sets the demand power control function that monitors power consumption of the air conditioner indoor units in real time, so that the target power consumption amount is not exceeded.



### Statistics

Displays power consumption or usage of the air conditioners.



### Report

Displays the history of any errors that have occurred in the airconditioners.



### Device Setting

Registers, modifies or deletes air conditioners, ventilators, AHU, AWHP, Hydro Kit and DO Kit connected to AC Smart Premium.



### Configure

General contents, user accounts, network, E-mail account, set up TMS contents etc.

## Improved web functions / Intuitive GUI design

With its user-friendly Web GUI, AC Smart Premium shows current status of air-conditioners and summary of schedule.



## Energy report

AC Smart premium shows statistical data about indoor units (Operation hours / Power consumption).



## Visual Navigation

Floor plan (jpg format) can be edited according to the air-conditioner's location and shows the status.



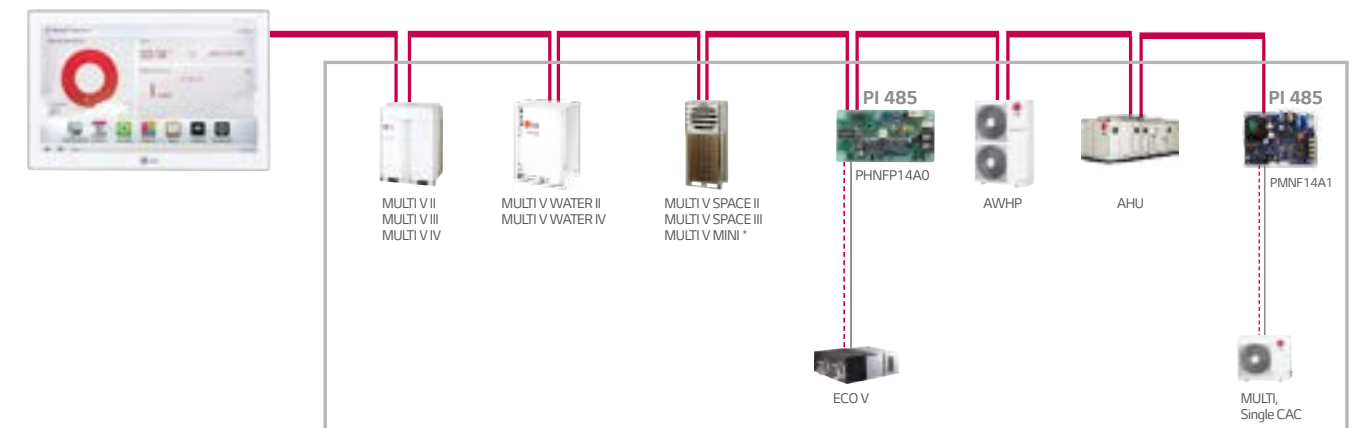
## AHU Control

AC Smart Premium provides various control functions to users.



## Combination

It is possible to control the unit (IDU, Ventilator, on/off, AWHP, Hydro Kit, ECO V DX, AHU) and register the units.



\* ARJUV40GS2A/ARJUV40GS2A Only needs PI485

# ACP (STANDARD / PREMIUM)

With its Linux based web server, users can control up to 256 indoor units or 128 ECO V units for functions such as temperature setting, schedule, peak, power control, etc

Standard  
PQCPC22N0

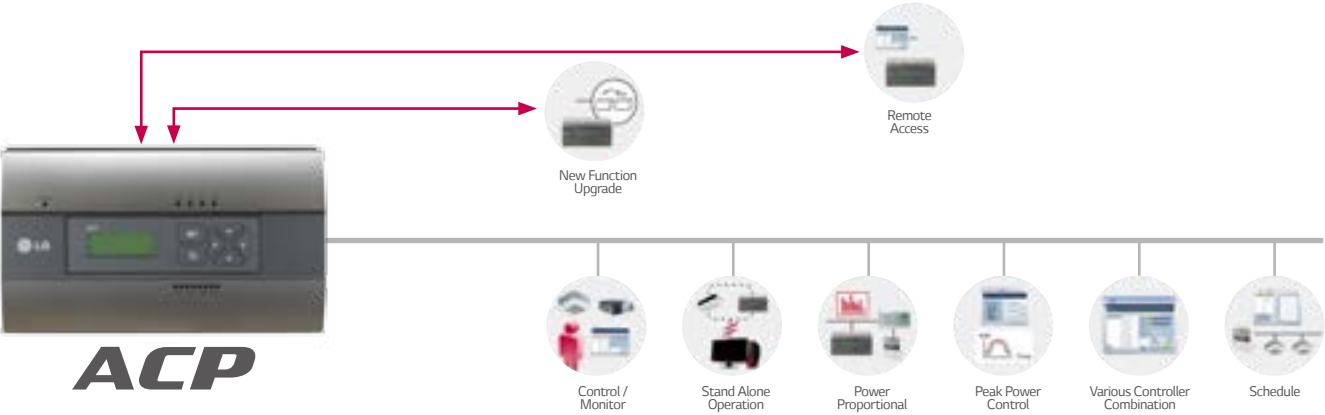
Premium  
PQCPC22A0

| Product Name           | ACP Standard                                             | ACP Premium                                                   |
|------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| External I/O Port No.  | D/I 2, D/O 2                                             | D/I 10, D/O 4                                                 |
| Interfaceable Products | Air conditioner/<br>ECO V/ ECO V DX/<br>AHWP / Hydro kit | Air conditioner/<br>ECO V/ ECO V DX/<br>AHWP/ Hydro Kit / AHU |

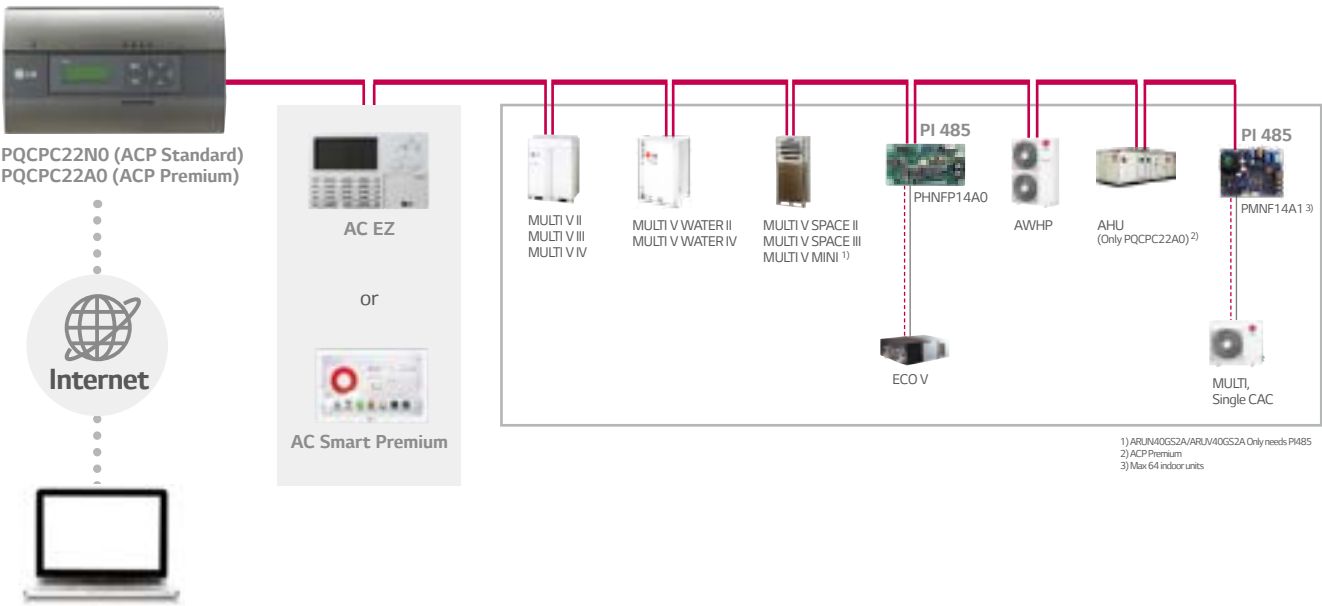


## Features

| Categories                    | PQCPC22N0 / PQCPC22A0         |
|-------------------------------|-------------------------------|
| Max.no. of indoor units       | 256 indoor units              |
| Control / Monitoring          | ○                             |
| Schedule management           | ○                             |
| Lock function                 | Mode, Temperature, Fan        |
| Temperature range restriction | 18°C ~ 30°C                   |
| Temperature limit function    | ○                             |
| Auto Changeover function      | ○                             |
| History function              | Error history                 |
| Peak control                  | ○                             |
| PDI monitoring                | Need of PDI                   |
| Auto Address Setting Function | ○ (With AC Manager Plus only) |
| Statistics function           | ○ (With AC Manager Plus only) |
| Peak Priority funtion         | ○                             |
| ECO V, ECO V DX Control       | ○                             |



## Combination



1) ARLN40GS2A/ARLN40GS2A Only needs PM485  
2) ACP Premium  
3) Max 64 indoor units

# ACMANAGER PLUS

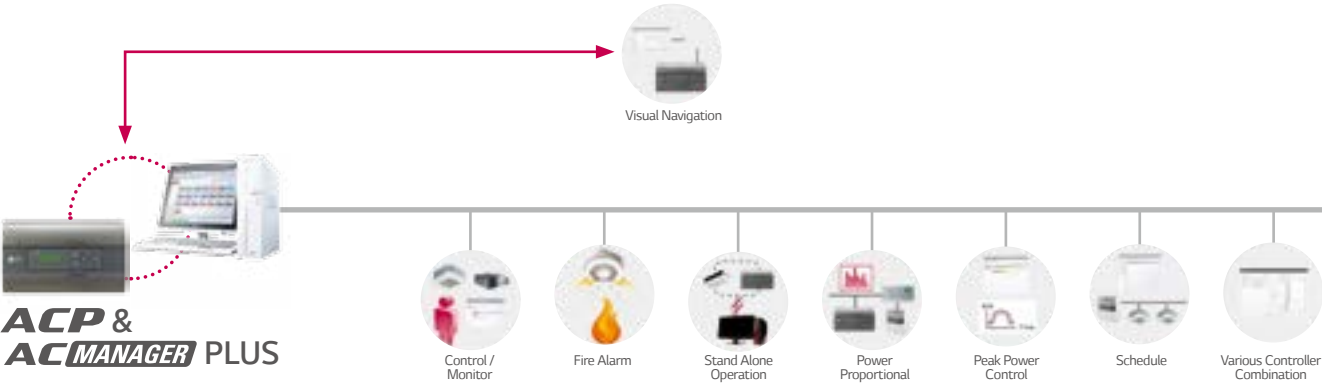
Provides efficient control and monitoring system for up to 8,192 indoor units by connecting 32 ACPs

## PQCSSA21E0

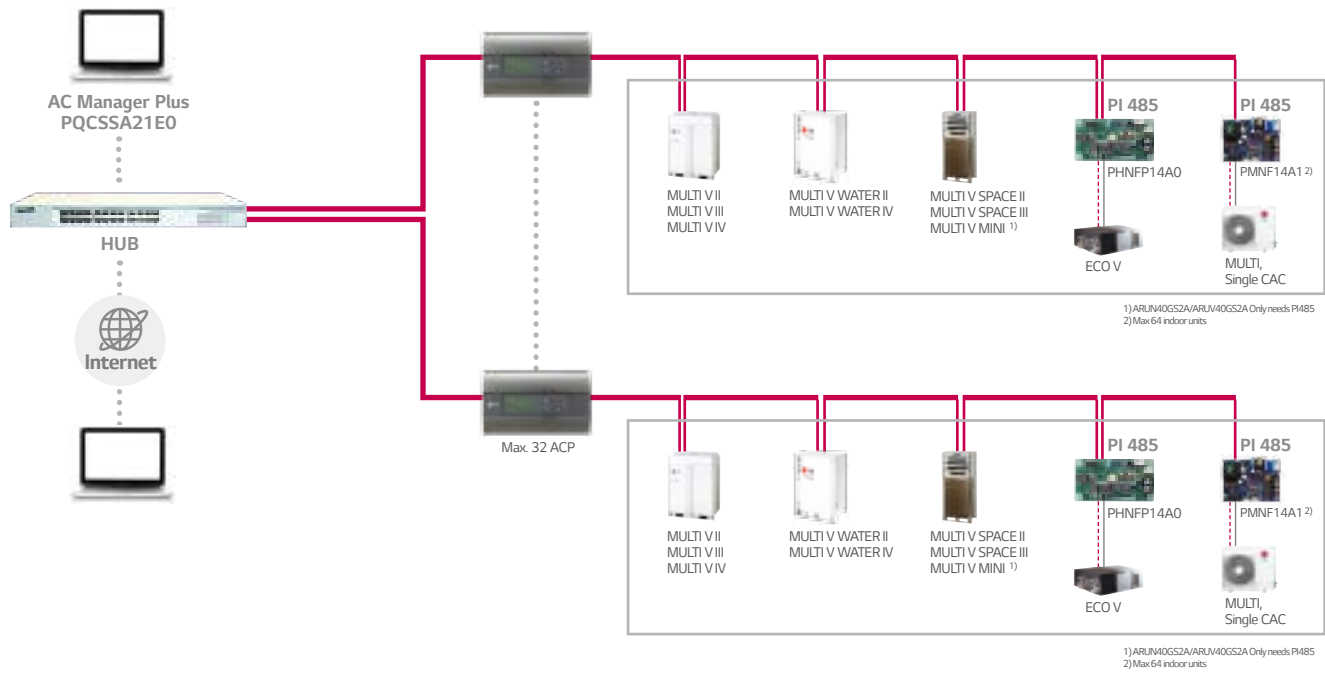


### Features

| Categories                    | PQCSSA21E0                  |
|-------------------------------|-----------------------------|
| Max.no. of indoor units       | 8,192 indoor units (32 ACP) |
| Control / Monitoring          | ○                           |
| Schedule management           | ○                           |
| Lock function                 | Mode/Temp/Fan speed/Total   |
| Temperature range restriction | ○                           |
| Temperature limit function    | ○                           |
| Auto Changeover function      | ○                           |
| History function              | Monitoring & Error history  |
| Peak control                  | ○                           |
| PDI monitoring                | Need of PDI                 |
| Printing function             | ○                           |
| Statistics function           | ○                           |
| Time limit function           | ○                           |
| ECO V, ECO V DX Control       | ○                           |
| Peak Priority function        | ○                           |
| Interlocking function         | ○                           |
| AHU Control Function          | ○                           |
| Hydro Kit, AWHP Control       | ○                           |



## Combination



## ACP & ACMANAGER Plus Application





# GATEWAY

|                                               |                                                                                   |                                                     |                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>BNU<br/>(LONWORKS®)</p> <p>&gt; pg.104</p> |  | <p>BNU<br/>(BACnet / Modbus)</p> <p>&gt; pg.105</p> |  |
| <p>PI 485</p> <p>&gt; pg.106</p>              |  | <p>DO Kit</p> <p>&gt; pg.107</p>                    |  |



# BNU-LW BMS Gateway

## LONWORKS®

Interface between BMS and LG Air-Conditioners

### PLNWKB000

Interface between BMS and LG Air-Conditioners  
- LonMark certified : Operation system based on LNS(LonWorks® Network Service)

Control various types of equipment from the customer's own PC.  
- With its Linux based web server, users can control functions such as temperature setting, schedule, peak, power control, etc.

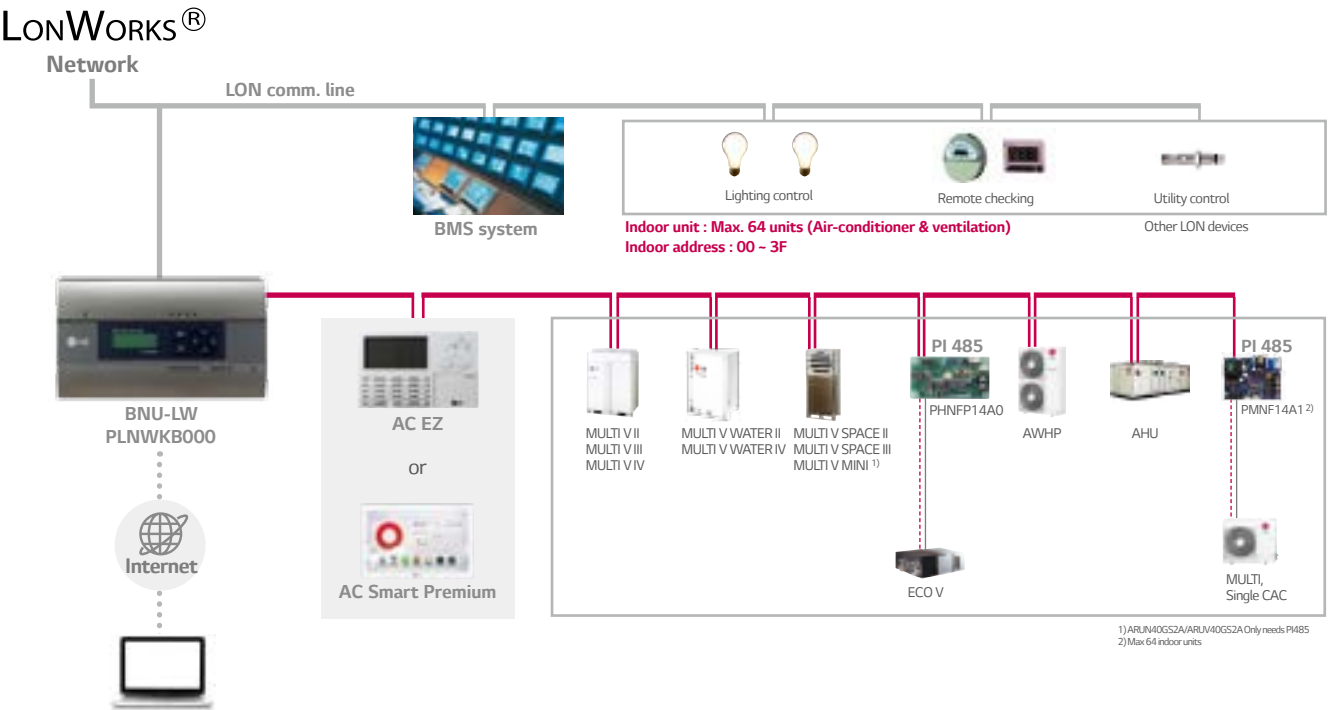


### Features

- Connect to use LONWORKS® protocol and LG Air-conditioner protocol
- Process ability
  - EHP Type : 64 unit (indoors, ventilators and AWHP)
  - AHU Type : 16 unit (AHU)
- Self installation verification function using internet (Web server included)
  - Setting gateway
  - Diagnosis of communication status on LG Air-conditioner network
- Connection to remote total management system (LG system)
- Offers ACP Function (Central Controller) which allows the customer to efficiently control various types of equipment from the customer's own PC.

For more information, see 131 page

### Combination



# BNU-BN BMS Gateway

## BACnet

Interface between BMS and LG Air-Conditioners

- BTL certified : Operation system based on BACnet Service.

### PQNFB17C0

Improved BMS connection  
- With its Linux based web server, users can control up to 256 indoor units or 128 ECO V units for functions such as temperature setting, schedule, peak, power control, etc.

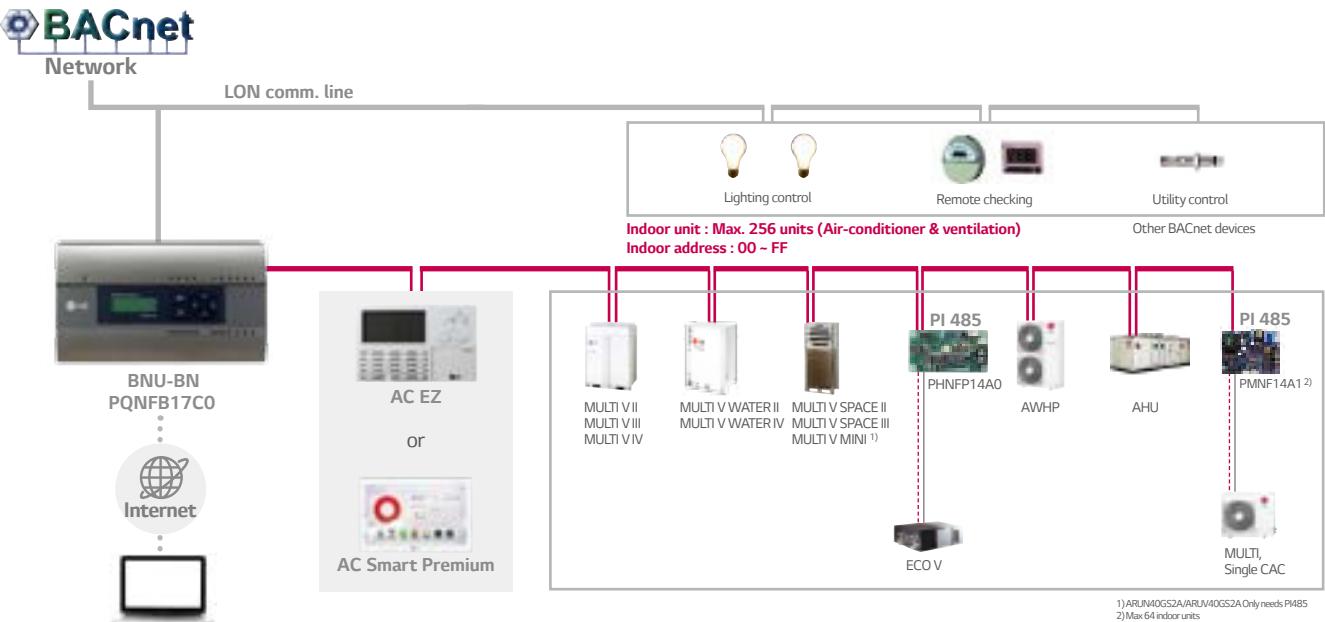


### Features

- Through embedded web control function in BAC net, one can access the air conditioner and external devices through BMS.
- ACP New platform & Smart base GUI driven
- 256 indoor unit, 256 Eco-v unit, 256AWHP unit, 16 AHU (Max 256)
- Compatible with AC Ez and AC Smart Premium
- External devices such as fire alarm, motion detector can be connected to gateway and their function can be interlinked with air conditioner operation using BACnet.
- Compatible with MULTI V, Multi, Single system & AWHP
- Supports a 1°F control
- BTL certification (B-ASC)
- Offers ACP Function (Central Controller) which allows the customer to efficiently control various types of equipment from the customer's own PC.

For more information, see 131 page

### Combination





# PI 485

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

PMNFP14A1  
PHNFP14A0  
PSNFP14A0



## Features



- **Model name : PMNFP14A1**
- **Power : Single phase AC 220V 50/60Hz**
- **1 for each outdoor unit (max 64 indoor units)**
  - MULTI V MINI (ARUN40GS2A/ARUV40GS2A Only needs PI485)
  - SCAC
  - MULTI
  - AWHP



- **Model name : PHNFP14A0**
- **Power : Connected with the indoor units**
- **1 for each unit**
  - Eco V



- **Model name : PSNFP14A0**
- **Power : Connected with the indoor units**
- **1 for each indoor unit**
  - Non-inverter products

\* Provided with a case to be installed on the exterior.

\* MULTI V II & III & IV series don't need any other PI 485 because MULTI V II & III & IV series have PI 485 in its outdoor unit PCB.

# DO KIT

Connected between AC Manager Plus (or ACP, AC Smart) and external devices, which can switch On/Off devices such as light, pump, motor, etc

PQNFP00T0



## Features

- **When the product input is less or equal to 25A**  
(The device is controlled by turning On/Off the power supply line of the product.)



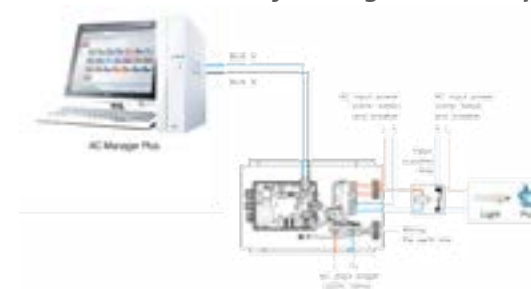
1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the device power line to the additional relay cable.
4. Finish the connected area with the insulating tape.

- **When the product input is greater or equal to 25A**  
(The device is controlled by turning On/Off the indoor/outdoor communication line.)



1. Pull out the power or shut down the breaker.
2. Cut the communication line
3. Connect the cut communication line to the additional relay cable.
4. Finish the connected area with the insulating tape.

- **When the product input is greater than or equal to 25A**  
(The device is controlled by turning On/Off the power supply line of the product thru a field-supplied relay)



1. Pull out the power or shut down the breaker.
2. Connect the power line from the breaker to the additional relay cable.
3. Connect the field-supply relay power line to the additional relay cable.
4. Connect the device power line to the field-supply relay.
5. Finish the connected area with the insulating tape.



# ACS ELECTRONIC ACC.

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PDI

> pg.110



PDI Premium

> pg.112



Dry Contact

> pg.114



Remote Temperature  
Sensor

> pg.120



Cool / Heat  
Selector

> pg.121



Group Control Wire

> pg.122



# PDI (POWER DISTRIBUTION INDICATOR)

For multi indoor units connected to an outdoor unit, the individual unit's total system power consumption can be displayed on the device. This system can also be connected to a remote metering system

PQNUD1S00



## Features

- Accumulated total power consumption indicated
- Accumulated/Current power consumption of each indoor unit indicated.
- Accumulated power consumption by month indicated
- Max. connectable no. of indoor units : 64 indoor units
- 1 PDI per 1 outdoor unit
- Power failure-proof function : Data back up on EEPROM even if power turns off
- Connectable to PC based central controllers
- Simple connection with the remote metering system (RS485 approach)
- Power distribution indication formula

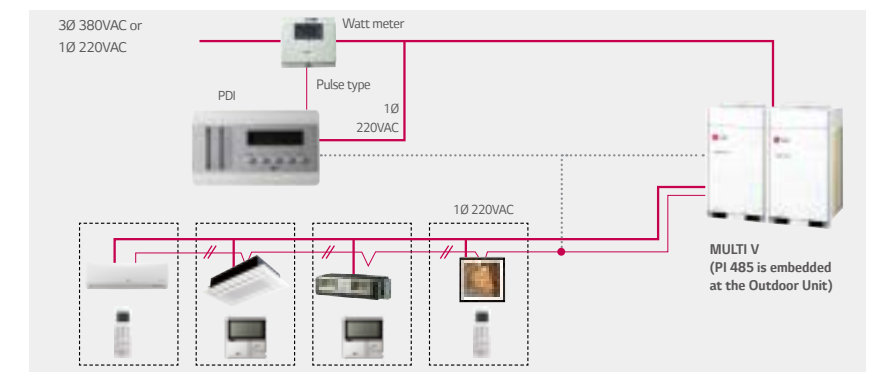
$$\text{Power used per room} = \text{Total power consumed for an external unit} \times \text{Weight by room total weight}$$

\* Weight by room: Weight calculated based on the temperature set by room, mode and operating time.

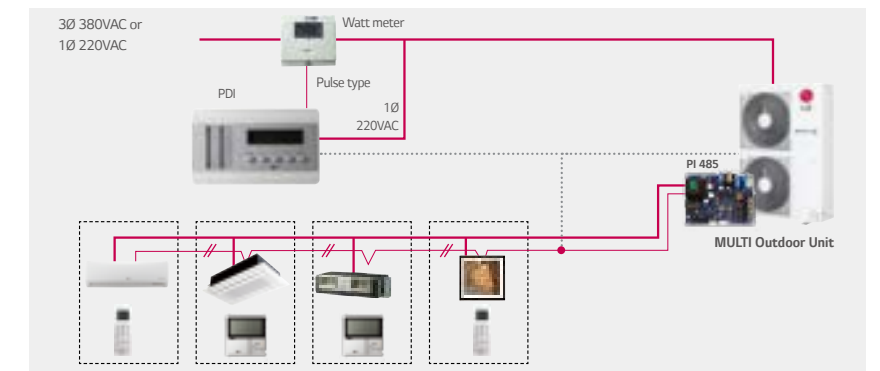
## Combination

### Independent operation of PDI

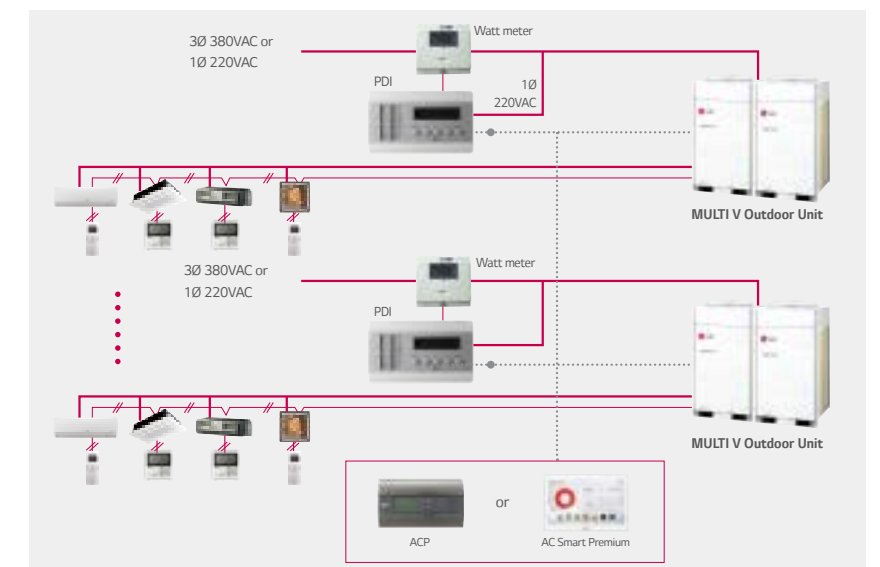
- MULTI V III / MULTI V IV / MULTI V WATER II / MULTI V WATER IV / MULTI V SPACE / MULTI V SPACE II / MULTI V SPACE III / MULTI V MINI MULTI V PLUS II / MULTI V SYNC II



- MULTI



- Operation with other central controllers





# PDI PREMIUM

For multi indoor units connected to an outdoor unit, the individual unit's total system power consumption can be displayed on this device. This system can also be connected to a remote metering system.

## PQNUD1S40



### Features

- Connection to max 8 outdoor.
- Accumulated total power consumption of outdoor and indoor unit.
- Accumulated / Current Power Consumption of each indoor unit.
- Max 128 indoor units.
- RS-485 type wattmeter can be interlocked.
- Data Back up.

#### Instantaneous power screen

Shows the estimated value based on one minute power consumption.

|           |      |                  |   |
|-----------|------|------------------|---|
|           |      | Wattmeter number |   |
| INSTANT   | P(1) | 0                | W |
| ID - 01 : |      | 0                | W |
| ID - 02 : |      | 0                | W |
| ID - 03 : |      | 0                | W |

Each indoor unit number

#### Total accumulated power consumption display

Shows accumulated power consumption of the system.

|            |  |                  |  |
|------------|--|------------------|--|
|            |  | Wattmeter number |  |
| ACCUM (P1) |  | 0 . 0kWh         |  |
| ID - 01 :  |  | 0 . 0kWh         |  |
| ID - 02 :  |  | 0 . 0kWh         |  |
| ID - 03 :  |  | 0 . 0kWh         |  |

Each indoor unit number

#### Error display

Shows accumulated power consumption of the system.

ERROR - 01  
NO COMMUNICATION  
WITH AIRCONDITIONER  
IDU ADDRESS [00 - 07]

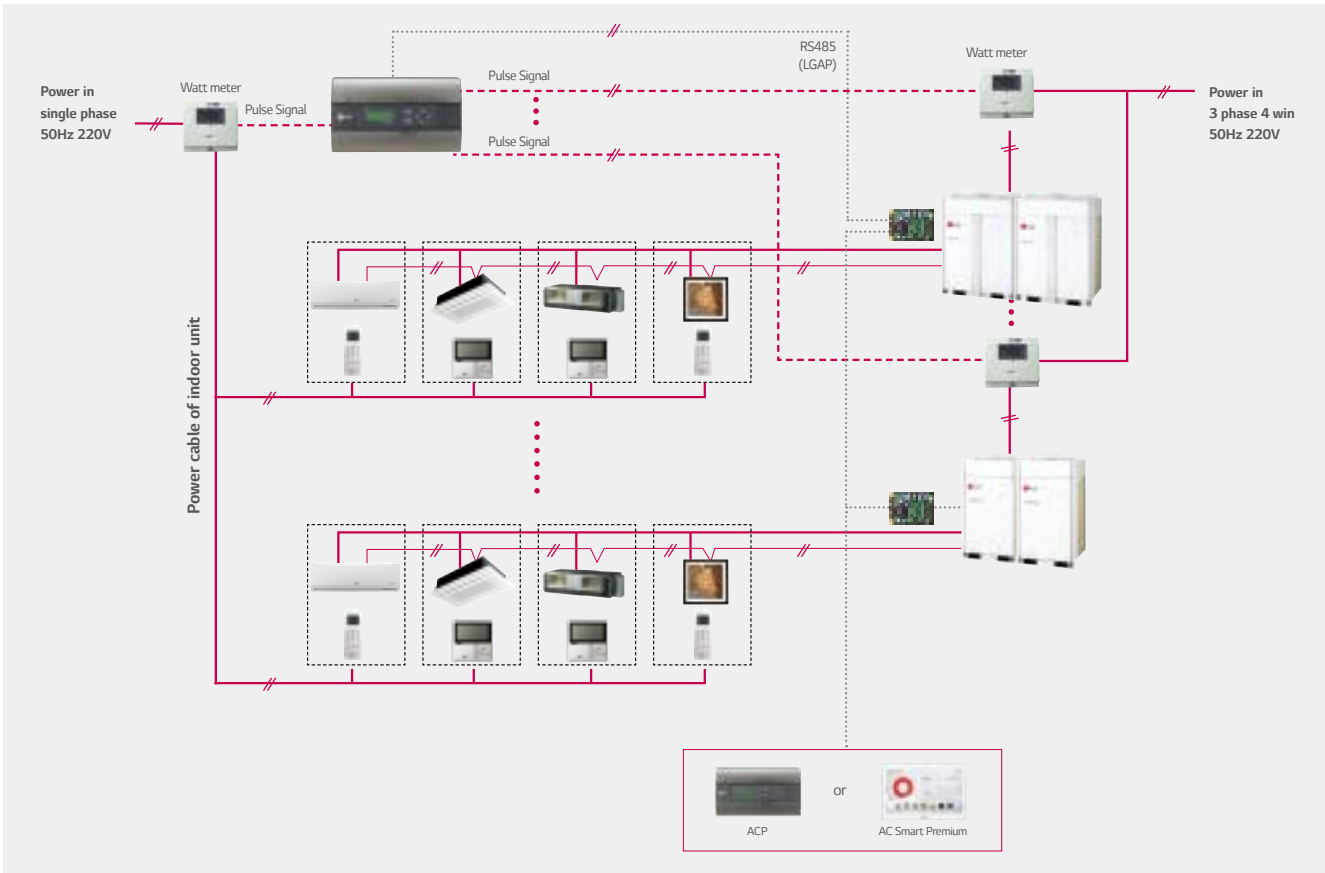
If communication with the product is not smooth

ERROR - 02  
NO SIGNAL FROM WHM1

If no power detection signal is available

### Combination

- Using Pulse Type Wattmeter : Independent operation of power indicator





# DRY CONTACT

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

PQDSA(1)  
PQDSB(1)  
PQDSBC

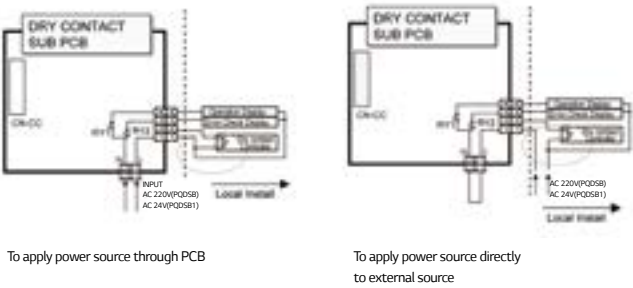


## Features

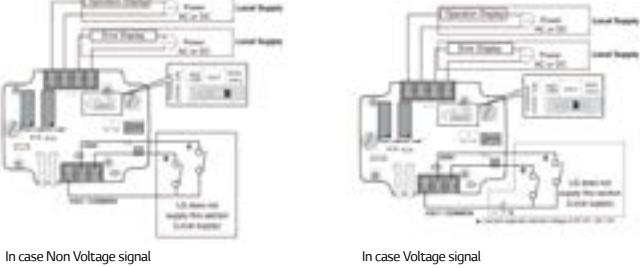
| Categories                  | PQDSA/ PQDSB                      | PQDSA1/ PQDSB1                   | PQDSBC                         |
|-----------------------------|-----------------------------------|----------------------------------|--------------------------------|
| Contact point               | 1 Control point                   | 1 Control point                  | 2 Control points               |
| Power input                 | AC 220V from outside power source | AC 24V from outside power source | DC 5V&12V from indoor unit PCB |
| Voltage / Non voltage input | -                                 | -                                | ○                              |
| On/Off control              | ○                                 | ○                                | ○                              |
| Lock / Unlock               | -                                 | -                                | ○                              |
| Fan speed setting           | -                                 | -                                | ○                              |
| Thermo off                  | -                                 | -                                | ○                              |
| Energy saving               | -                                 | -                                | ○                              |
| Temperature setting         | -                                 | -                                | ○                              |
| Error monitoring            | ○                                 | ○                                | ○                              |
| Operation monitoring        | ○                                 | ○                                | ○                              |

\* Refer to each model PDB for applicable models.  
\* With case model : PQDSB(1), PQDSBC / Without case model : PQDSA(1)

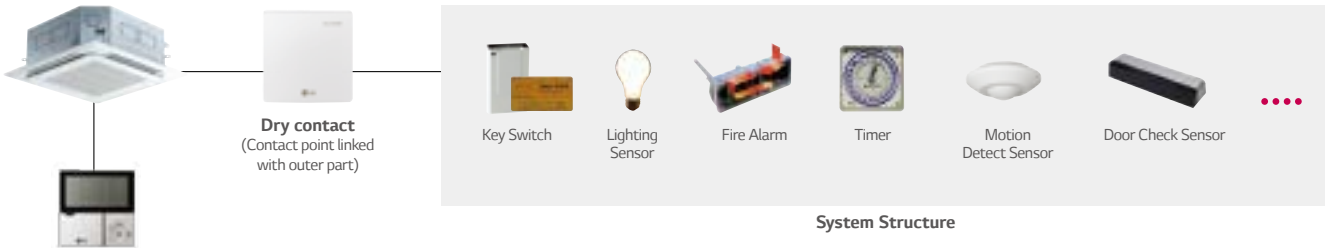
### PQDSA(1), PQDSB(1)



### PQDSBC



## Combination



# DRY CONTACT

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

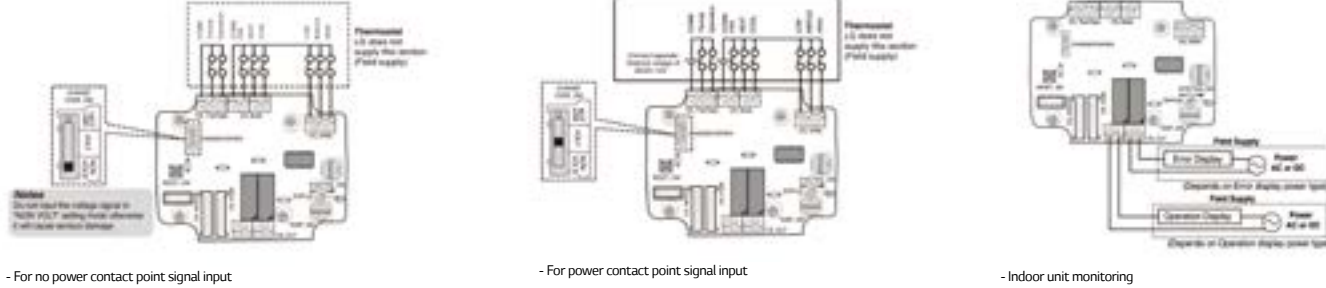
PQDSBNGCM1



## Features

| Categories                  | PQDSBNGCM1                   |
|-----------------------------|------------------------------|
| Dimensions                  | 105 x 78 x 35 mm             |
| Contact Point               | 8 contact point              |
| Voltage / Non voltage input | ○                            |
| On/Off control              | ○                            |
| Mode control                | ○ (Cool, Heat, Fan)          |
| Fan Speed Setting           | ○ (Low, Middle, High)        |
| Thermo off                  | ○                            |
| Error Monitoring            | ○                            |
| Operation monitoring        | ○                            |
| Contact (output)            | 2 contact (operating, error) |
| Rotary switch 1             | Operating set temp selection |
| Rotary switch 2             | Operating logic selection    |

### PQDSBNGCM1



## Combination



# DRY CONTACT

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

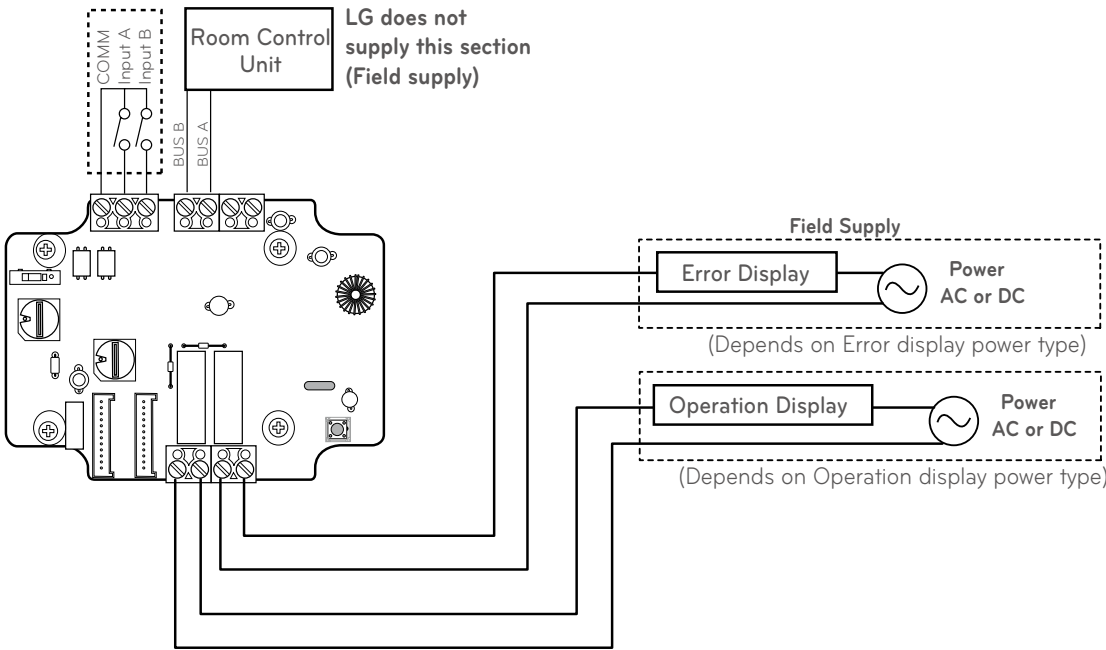
## PQDSBCGCD0



### Features

- 1) Model name : PQDSBCGCD0
- 2) Specification
  - Dimensions(mm) : 105x78x35
  - Applied Model : MULTI V II, MULTI V III, MULTI V IV
  - Function
    - Contact Point : 2 contact point (operation depends on the Control Mode\_SW setting)
    - PL 485 Communication Mode Input : LGAP 485 Communication
    - Voltage/Non Voltage Input
    - Error Monitoring Output
    - Operation Monitoring Output
- 3) Description

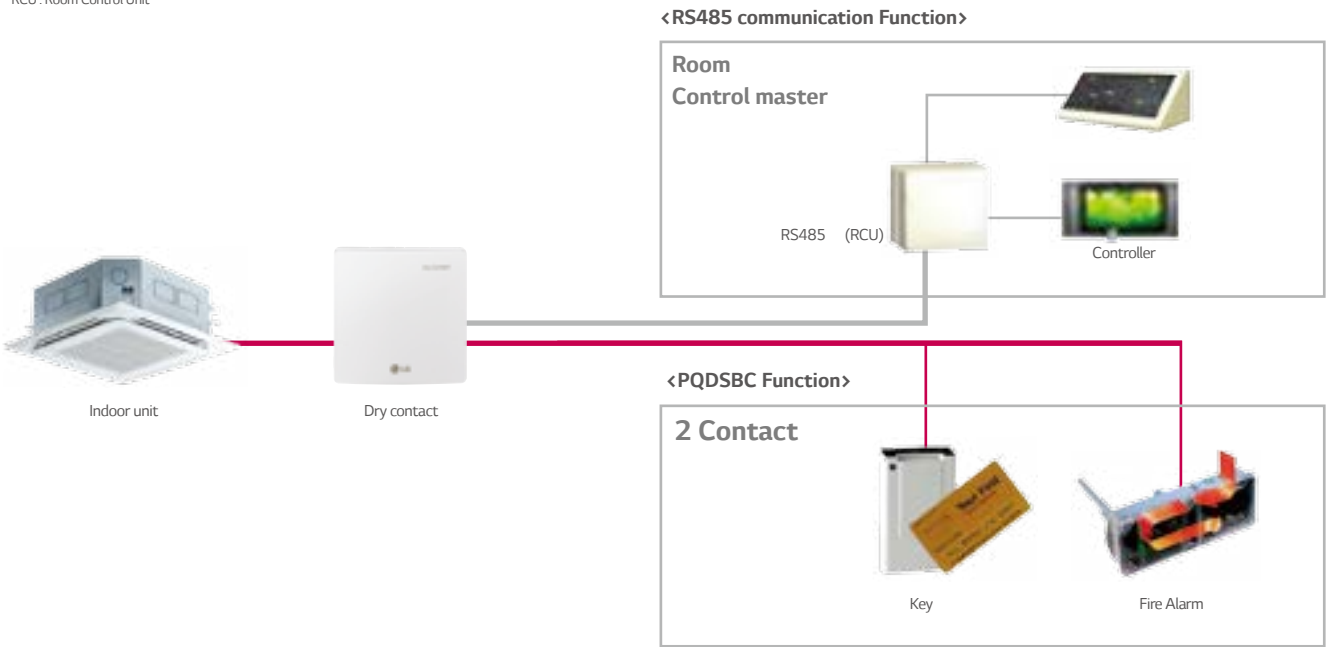
The product is especially designed for interface with other controllers using dry contact communication or RS485 communication



### Combination

#### RS485 Communication Function

\* RCU : Room Control Unit



# I/O MODULE (INPUT / OUTPUT MODULE)

UART to external device interface module for system air conditioner

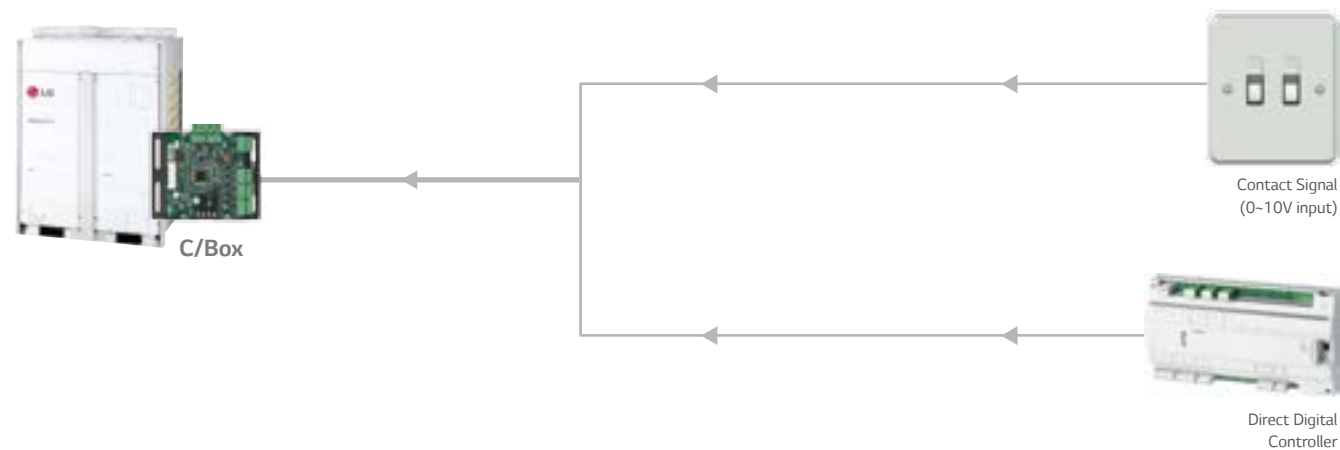
PVDSMN000



## Features

- 1) Model name : PVDSMN000
- 2) Specification
  - Applied Model : Only MULTI V IV
  - Function
    - Demand control
    - Low speed control (Night low noise operation)
    - Operation, error output
    - Comp off, system off
- 3) Description  
I/O (Input / Output Module) Module is communication interface module for connection between Multi V IV and external I/O (Input / Output Module) devices.

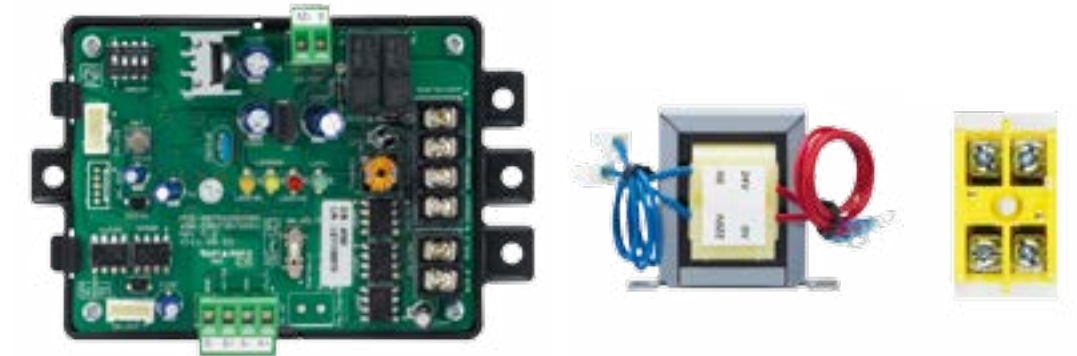
## Combination



# VARIABLE WATER FLOW CONTROL KIT

Accessory developed for controlling the water flow

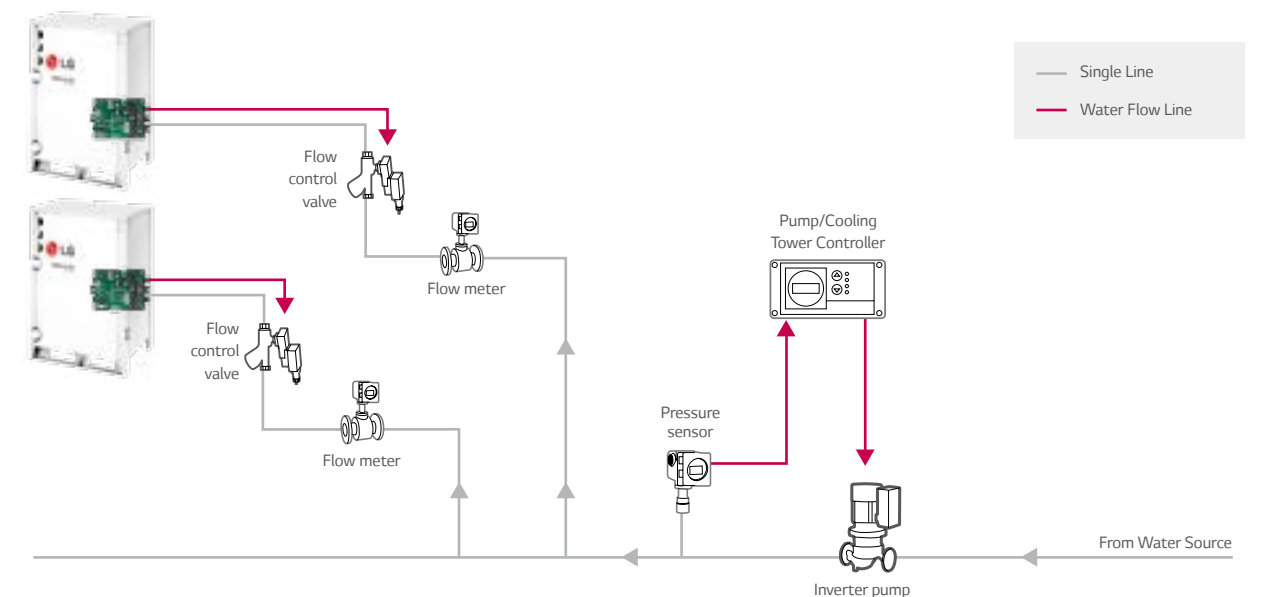
PRVCO



## Features

- 1) Model name : PRVCO
- 2) Specification
  - Applied Model : MULTI V WATER
  - Function
    - Water pump valve control (0~10V)
    - Minimum voltage setting available
    - Operation, error output (display)
  - Advantage
    - Water flow consumption reduction
    - Pump electricity consumption reduction
- 3) Description  
The product is specially designed to control the water pump valve in MULTI V Water system.

## Combination



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

# REMOTE TEMPERATURE SENSOR

Sensor for detecting room temperature

PQRSTAO



## Features

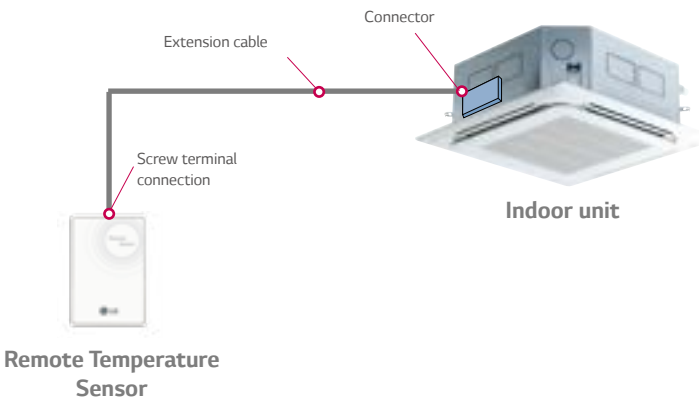
- Helps to detect the exact room temperature.
- Applied to ceiling cassette, ceiling concealed duct, AWHP and Hydro Kit.

## Parts Included

- Remote temperature sensor
- Extension cable (15m)
- Manual

## Wiring Diagram

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



# COOL / HEAT SELECTOR

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

PRDSBM



## Features

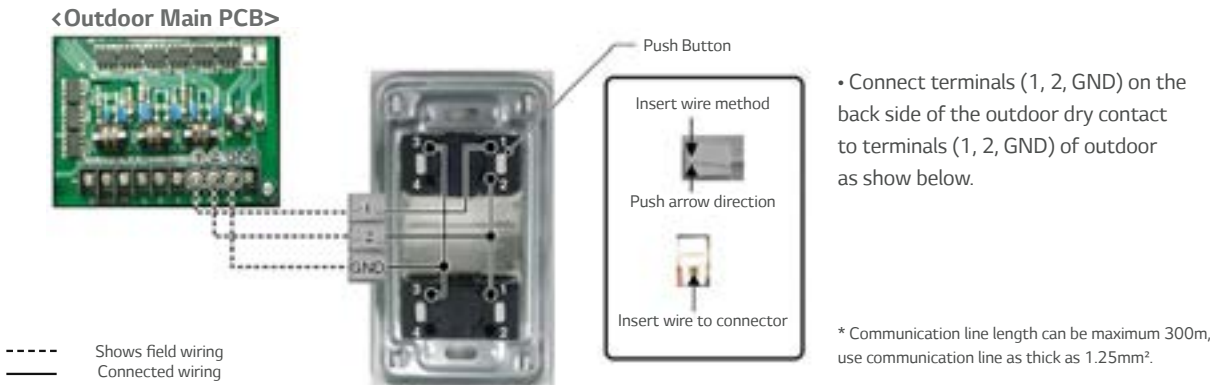
- Indoor unit control without central controller
- Select operation mode : Cooling, Heating, Fan mode
- Mode lock for cooling & heating mixing error-proof during the change of season.



## Models Applied

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

## Wiring Diagram







# GROUP CONTROL WIRE

Cables used to connect a wired remote controller to as many as 16 indoor units

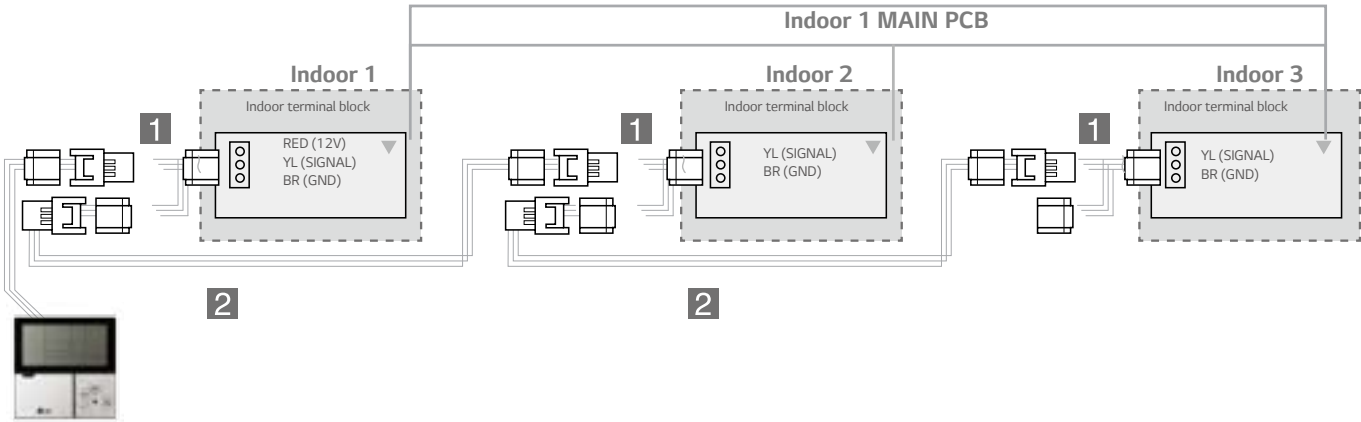
## PZCWRCG3



### Features

|              |             |
|--------------|-------------|
| Categories   | PZCWRCG3    |
| Y-type cable | 25cm length |
| Long Cable   | 9.6m length |

### Wiring Diagram



Note

- 1 Cable assembly for indoor units.
- 2 Cable assembly for connecting indoor to indoor.
  - Please connect cable assembly 1 with already connected indoor unit.

# MECHANICAL ACCESSORIES

Drain Pump Kit



> pg.126

Auto Elevation Grille



> pg.128

Ventilation Kit (Fresh kit) for New Cassette



> pg.129

Cassette Cover



> pg.130

## Mechanical Accessories Line up and Application

| Categories            | SCAC Type | MULTI Type | MULTI V Type | Remark                        |
|-----------------------|-----------|------------|--------------|-------------------------------|
| ARTCOOL Panel         | O         | O          | O            | ARTCOOL indoor unit           |
| Electric Heater       | O         | -          | -            | Single package / Ducted split |
| Drain Pump Kit        | O         | O          | -            | Ceiling concealed duct        |
| Auto Elevation Grille | O         | -          | O            | 4 Way Cassette                |
| Cassette Cover        | O         | O          | O            | 4 Way Cassette                |



# DRAIN PUMP KIT

Drains away condensed water

ABDPE  
ABDPG  
ABDPT



## Features

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

## Models Applied

- Ceiling concealed duct (refer PDB for applicable models)

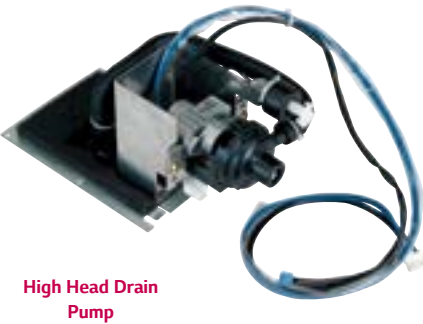
## Accessory Model Name

- Ceiling concealed duct (refer PDB for applicable models)

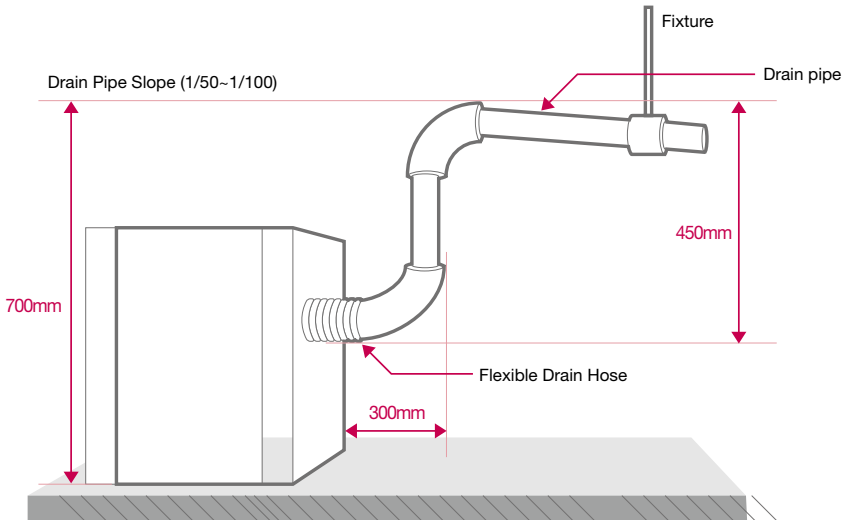
| Category     | E Chassis | G/H/R Chassis | T Chassis |
|--------------|-----------|---------------|-----------|
|              | ABDPE     | ABDPG         | ABDPT     |
| MULTI V Type | Default   | Default       | Default   |
| MULTI Type   | O         | O             | O         |
| SCAC Type    | O         | O             | -         |

## Application

High head drain pump automatically drains water up to 700mm of drain-head height.



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



## Parts Included

### For E Chassis Models :

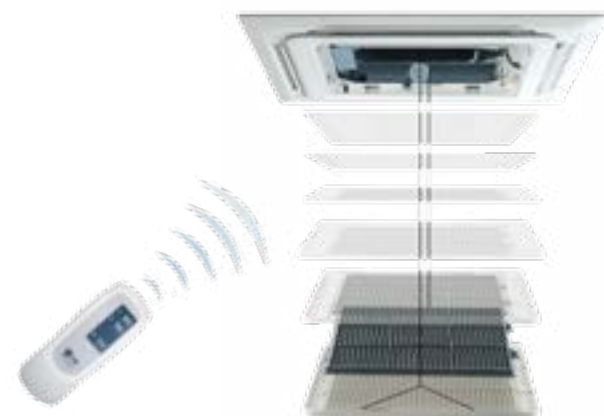
- Drain pump assembly (1EA)  
(AC 220~240V,50/60Hz,400CMM)
- Elbow (Ø32)(1EA)
- Hose (1EA)
- Tie wrap (2EA)
- Screw (10EA)
- Rubber (1EA)
- Installationmanual (1EA)

### For G/H/R/T Chassis Models :

- Drain pump assembly (1EA)  
(AC 220~240V,50/60Hz,400CMM)
- Screw (4EA)
- Cap (1EA)
- Installation manual (1EA)

# AUTO ELEVATION GRILLE

Easy filter cleaning with elevation grille

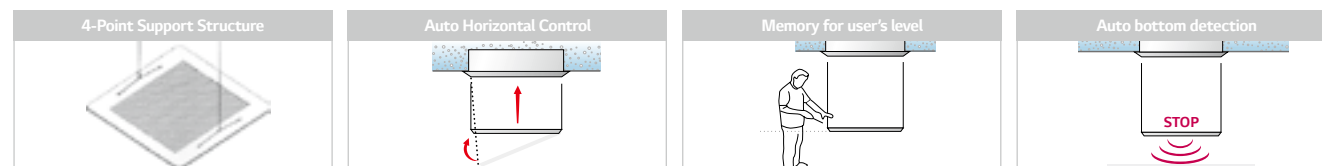


PTEGMO

## Features

### Easy filter cleaning with elevation grille

- Installation inside main body
- Auto horizontal control
- 4 points support structure
- Height Memory
- Max 4.5m length
- Model : PTEGMO(TM, TN, TP)



\* Operating with wired remote controller PQRCVSL0(QW) and wireless remote controller included in PTEGMO.

## Models Applied

- 4-way cassette : Single CAC, MULTI, MULTI V (refer PDB for applicable models)

## Parts Supplied

- Inlet Grille (1EA)
- Auto elevation grille kit (1EA)
- Wireless Remote Controller (1EA)
- Screws (4EA)
- Installation manual (1EA)

## Application



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

# VENTILATION KIT

Fresh air can be supplied from outside through this ventilation kit

PTVK410

PTVK420

PTVK430



PTVK410



PTVK420



PTVK430

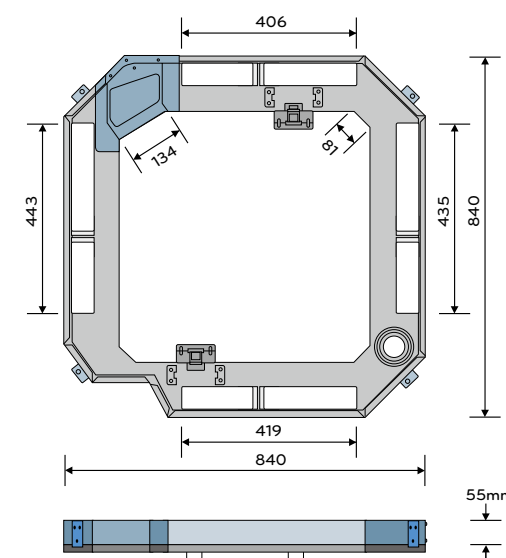
## Features

- PTVK410 : 1 Ventilation Kit, 8 Bolts, 1 Insulation
- PTVK420 : 1 Flange, 7 Screws
- PTVK420 : 1 Flange, 4 Screws, 1 Insulation

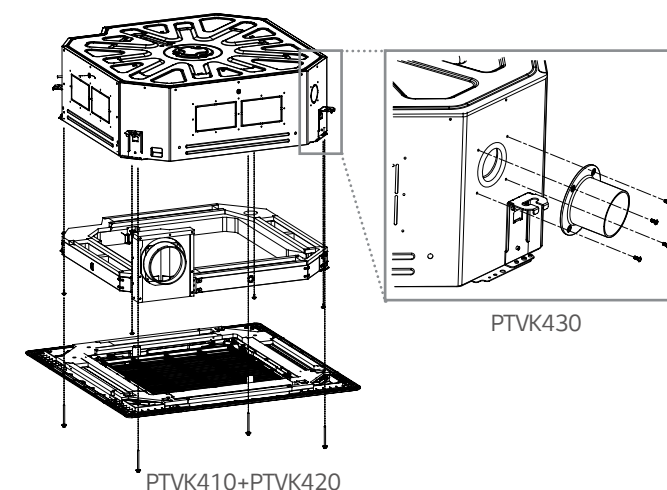
## Models Applied

- There are 2 solutions for fresh air
- PTVK410+PTVK420 (for chassis TP, TN, TM)
- PTVK430 (for chassis TR, TQ, TP, TN, TM)
- \* Users can purchase and use PTVK430 in addition to PTVK410+PTVK420 in need to phase in larger outdoor air volume.

## Dimensions



## Assembly Diagram



PTVK410+PTVK420

PTVK430



# CASSETTE COVER

Air purifying filter to prevent dust and allergens

PTDCM  
PTDCQ



## Features

- Specially designed for indoor unit.
- Covers the side area of cassette.
- Light weight.
- Suitable when false ceiling is unavailable.

## Models Applied

- 4-way cassette (TP, TN, TM, TQ, TR)

## Parts Supplied

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

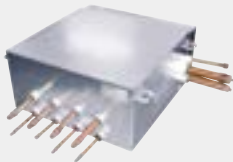
## Accessory Model Name

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

# PIPING ACCESSORIES

Heat Recovery Unit

> pg.132



Y Branch & Header  
Branch(MULTI V)

> pg.134



# Heat Recovery Unit

PRHR021  
PRHR031  
PRHR041



## Features

- Max. 32 indoor units can be connected. (Max 8 indoor units per branch)
- Due to the automatic search algorithm for piping detection, easy installation
- Subcooling cycle in HR unit provides high system efficiency

## Applicable Models

- MULTI V SYNC
  - MULTI V SYNC II
- MULTI V WATER II Heay Redovery
  - MUTI V III Heat Recovery

## Specification

| Model                                                       |              |               |          | PRHR021          | PRHR031          | PRHR041          |
|-------------------------------------------------------------|--------------|---------------|----------|------------------|------------------|------------------|
| Number of branch                                            |              | EA            |          | 2                | 3                | 4                |
| Max. connectable capacity of indoor units (Per branch/unit) |              | kW            |          | 10/32            | 10/48            | 10/58            |
| Max. number of connectable indoor units per branch          |              | EA            |          | 8                | 8                | 8                |
| Nomal Input                                                 | Cooling      | kW            |          | 0.020            | 0.040            | 0.040            |
|                                                             | Heatin       | kW            |          | 0.020            | 0.040            | 0.040            |
| Net. Weight                                                 |              | kg            |          | 18               | 20               | 22               |
| Dimensions(WxHxD)                                           |              | mm            |          | 801x218x617      | 801x218x617      | 801x218x617      |
| Piping connections                                          | Indoor Unit  | Liquid        | mm(inch) | 9.52(3/8)        | 9.52(3/8)        | 9.52(3/8)        |
|                                                             |              | Gas           | mm(inch) | 15.88(5/8)       | 15.88(5/8)       | 15.88(5/8)       |
|                                                             | Outdoor Unit | Liquid        | mm(inch) | 9.52(3/8)        | 15.88(5/8)       | 15.88(5/8)       |
|                                                             |              | Low pressure  | mm(inch) | 22.2(7/8)        | 28.58(1 1/8)     | 28.58(1 1/8)     |
|                                                             |              | High pressure | mm(inch) | 19.05(3/4)       | 22.2(7/8)        | 22.2(7/8)        |
|                                                             | Power Supply |               | ø/V/Hz   | 1 / 220~240 / 50 | 1 / 220~240 / 50 | 1 / 220~240 / 50 |

## Dimensions

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

## Reducers for Indoor Unit and HR Unit

|                     |                   | (Unit : mm) |                           |
|---------------------|-------------------|-------------|---------------------------|
| Model               |                   | Liquid pipe | High pressureLow pressure |
| Indoor unit reducer |                   |             |                           |
| HR unit reducer     | PRHR021           |             |                           |
|                     | PRHR031 / PRHR041 |             |                           |

## Convenient Zoning

MULTI V IV heat recovery provides flexible control over individual zones for the user's convenience.

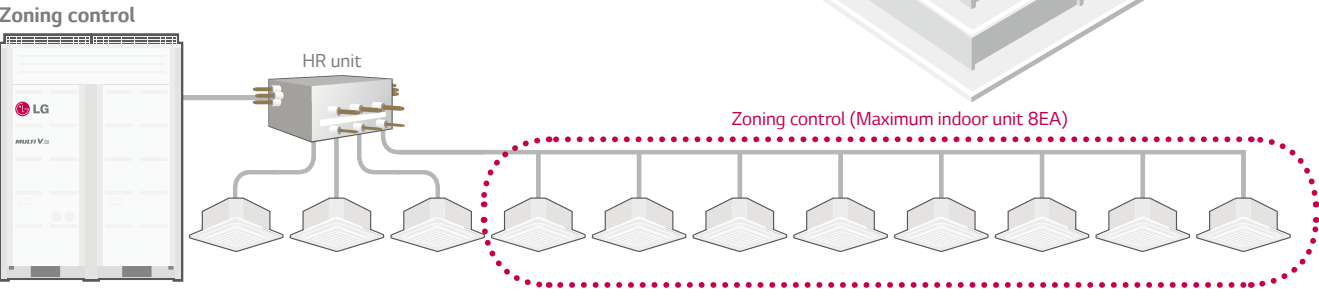
- Individual Control**

  - Replace with Individual control in spaces for which ventilation is needed
- Zone Control**

  - Maximum of 8 indoor units can be connected to one branch
  - Maximum of 32 indoor units can be connected to one HR unit
  - Same opoational model can be operated by indoor units with zone control function installed

- Combination of Individual and Zoning Installations**
- Flexible piping design

Saves on product and installation Costs



# Y BRANCH AND HEADER BRANCH (*MULTI V*<sup>TM</sup>)

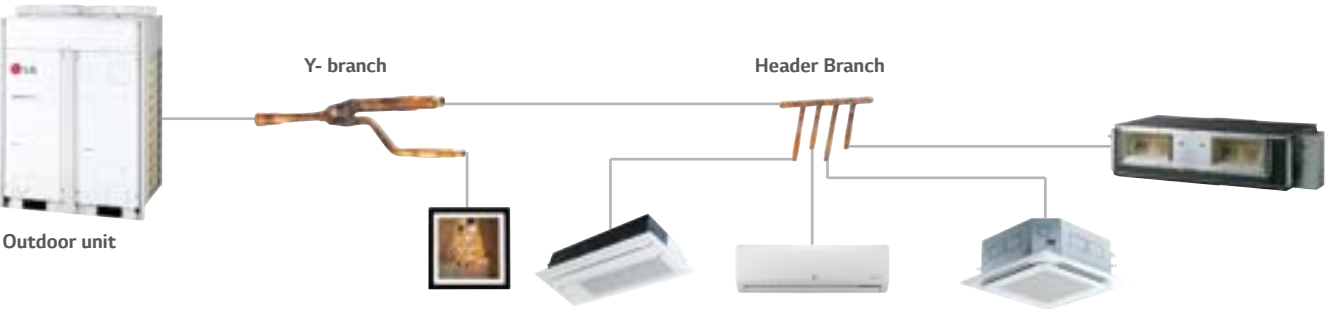
For refrigerant distribution of indoor units



## Features

- Various Y-branch pipes of different capacities make MULTI V installation more convenient.
- Y-branch and header branch for both gas and liquid are provided.
- Insulation material is provided for covering the branches.

## Piping Diagram



## Applicable Models

- MULTI V PLUS
  - MULTI V PLUS II
  - MULTI V III
  - MULTI V IV
- MULTI V MINI
  - MULTI V SPACE II
  - MULTI V SPACE III
- MULTI V WATER II
  - MULTI V WATER IV
  - MULTI V Heat Recovery

## Accessory Model Name

Header Branch

• R410A

(Unit : mm)

| Model                | Gas pipe | Liquid pipe |
|----------------------|----------|-------------|
| 4 branch / ARBL054   |          |             |
| 7 branch / ARBL057   |          |             |
| 4 branch / ARBL104   |          |             |
| 7 branch / ARBL107   |          |             |
| 10 branch / ARBL1010 |          |             |
| 10 branch / ARBL2010 |          |             |

# PIPING ACCESSORIES

• R410A / MULTI V PLUS, MULTI V PLUS II

| 2 Outdoor Units |                       |             |
|-----------------|-----------------------|-------------|
| Model           | Low Pressure Gas pipe | Liquid pipe |
| ARCNN20         |                       |             |
|                 |                       |             |

(Unit : mm)

| 3 Outdoor Units |                       |             |
|-----------------|-----------------------|-------------|
| Model           | Low Pressure Gas pipe | Liquid pipe |
| ARCNN20         |                       |             |
|                 |                       |             |

• R410A / MULTI V SYNC, MULTI V SPACE II

| 2 Outdoor Units |                       |             |                        |
|-----------------|-----------------------|-------------|------------------------|
| Model           | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
| ARCNB21         |                       |             |                        |
|                 |                       |             |                        |

(Unit : mm)

| 2 Outdoor Units |                       |             |                        |
|-----------------|-----------------------|-------------|------------------------|
| Model           | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
| ARCNB20         |                       |             |                        |
|                 |                       |             |                        |

• R410A / MULTI V III, MULTI V IV

| 2 Outdoor Units |                       |             |
|-----------------|-----------------------|-------------|
| Model           | Low Pressure Gas pipe | Liquid pipe |
| ARCNN21         |                       |             |
|                 |                       |             |

(Unit : mm)

| 3 Outdoor Units |                       |             |
|-----------------|-----------------------|-------------|
| Model           | Low Pressure Gas pipe | Liquid pipe |
| ARCNN31         |                       |             |
|                 |                       |             |

• R410A / MULTI V III Heat Recovery

| 2 Outdoor Units |                       |             |                        |
|-----------------|-----------------------|-------------|------------------------|
| Model           | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
| ARCNB21         |                       |             |                        |
|                 |                       |             |                        |

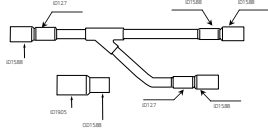
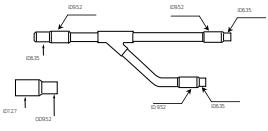
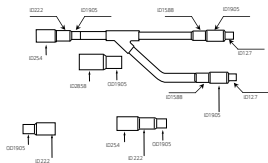
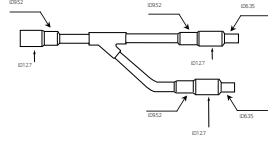
(Unit : mm)

| 3 Outdoor Units |                       |             |                        |
|-----------------|-----------------------|-------------|------------------------|
| Model           | Low Pressure Gas pipe | Liquid pipe | High Pressure Gas pipe |
| ARCNB31         |                       |             |                        |
|                 |                       |             |                        |

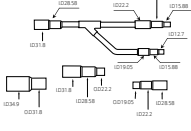
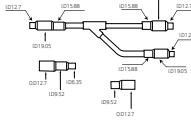
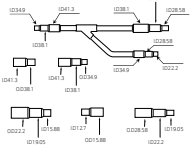
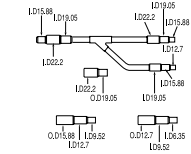


# PIPING ACCESSORIES

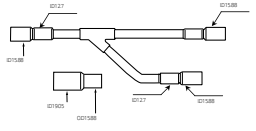
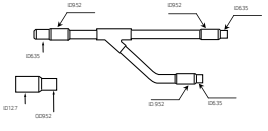
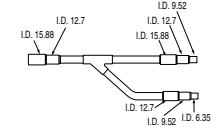
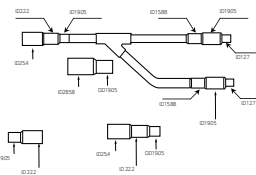
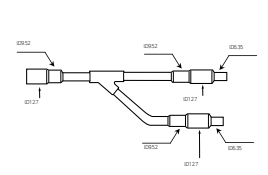
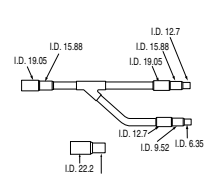
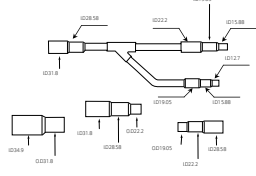
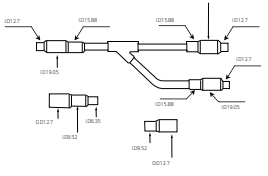
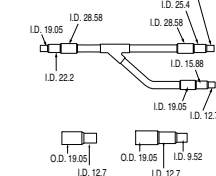
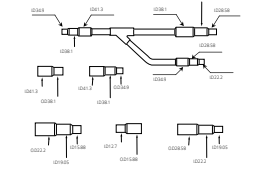
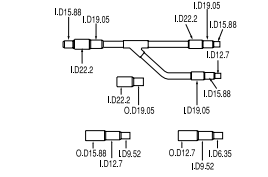
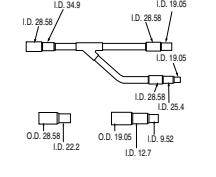
• **R410A /** MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V MINI, MULTI V SPACE II, MULTI V SPACE III, MULTI V WATER II, MULTI V WATER IV (Unit : mm)

| Model      | Gas pipe                                                                          | Liquid pipe                                                                        |
|------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ARBLN01621 |  |  |
| ARBLN03321 |  |  |

• **R410A /** MULTI V PLUS, MULTI V PLUS II, MULTI V III, MULTI V IV, MULTI V WATER II, MULTI V WATER IV (Unit : mm)

| Model      | Gas pipe                                                                            | Liquid pipe                                                                          |
|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ARBLN07121 |  |  |
| ARBLN14521 |  |  |

• **R410A /** MULTI V III, MULTI V IV, MULTI V WATER II, MULTI V WATER IV, MULTI V SYNC, MULTI V SYNC II (Unit : mm)

| Model      | Low Pressure Gas pipe                                                                 | Liquid pipe                                                                           | High Pressure Gas pipe                                                                |
|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ARBLB01621 |    |    |    |
| ARBLB03321 |    |    |    |
| ARBLB07121 |  |  |  |
| ARBLB14521 |  |  |  |

# The Total HVAC and Energy Solution Provider

Ever since manufacturing Korea's first homegrown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. For eight of the last 10 years, LG has been the world's top selling manufacturer of residential air conditioning solutions. And in 2008, LG became the first company to sell a cumulative total of more than 100 million air conditioners.

Building on its success and technological leadership in the residential air conditioning sector, LG has moved into system air conditioning as well. The company's range of high-performance system air

conditioning products provides effective temperature control to large-scale buildings and facilities. Over time, LG has evolved into the total HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) into its comprehensive product portfolio.

Along with a wide range of innovative solutions, LG delivers unrivalled customer service. The company produces world class air conditioning professionals at its AC academies, of which there are more than 100 worldwide. These centers of excellence provide detailed product

workshops and training programs that offer invaluable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its timesaving LG Air Conditioner Technical Solution (LATS) software.

Additionally, LG operates several state-of-the-art R&D facilities in various countries. One such facility is the Energy Lab, a purpose-built R&D and testing center in northern France. Helping to keep the company ahead of the competition, the scientists and engineers at the Energy Lab study the effects of different environmental

conditions on LG's products. This in-depth research and analysis enables LG to tailor its solutions to the specific environmental demands of each individual market.

With 10 manufacturing plants throughout the world, LG produces in excess of 17 million reliable compressors and 16 million first-class HVAC solutions per year. Combining the best technologies with the best ideas, LG's high quality products are now enjoyed by consumers in over 100 countries.

