

# 2023 LG Smart Inverter SINGLE COMMERCIAL AIR CONDITIONER F



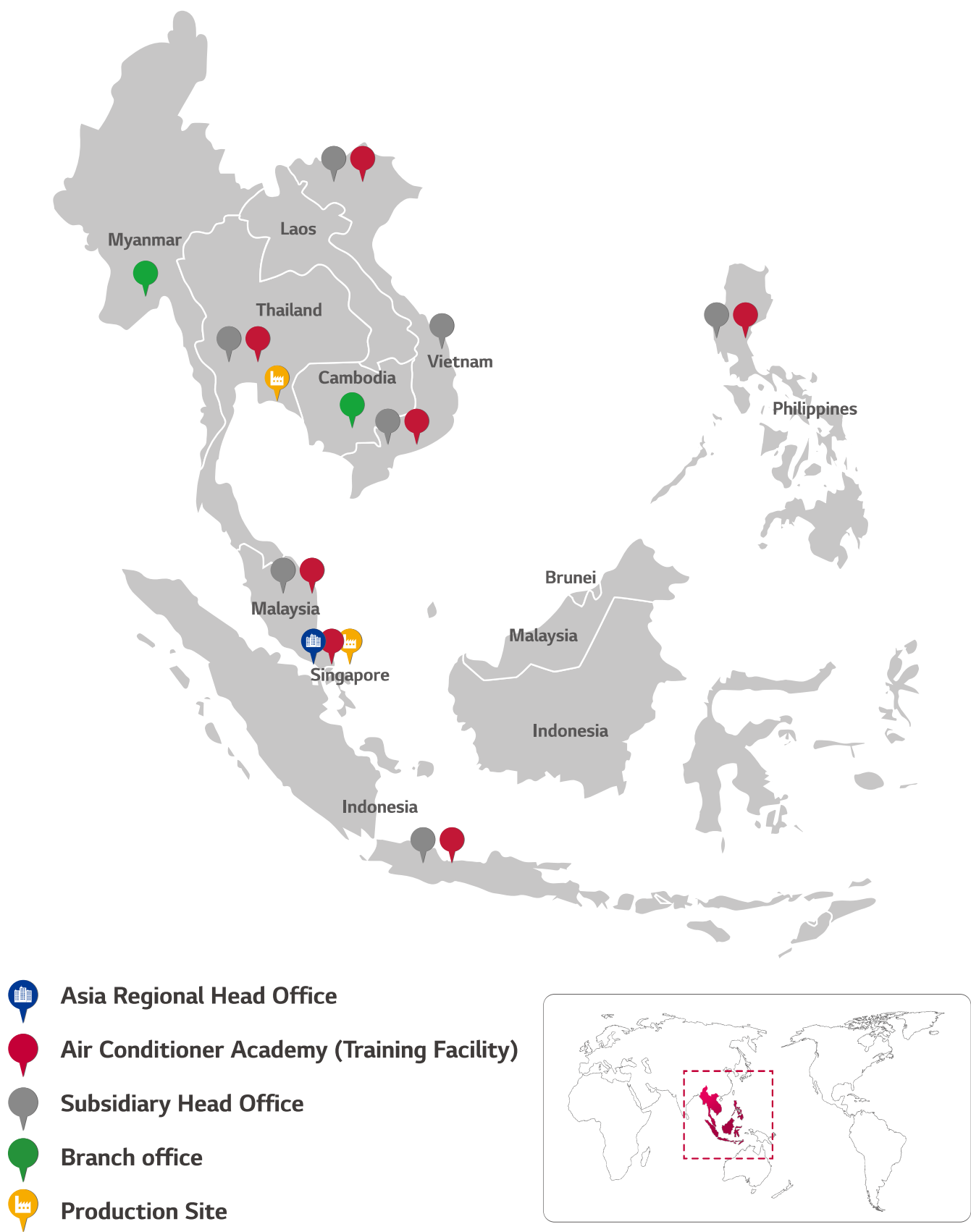
**LG Electronics**  
<http://www.lg.com>  
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**FREE COMBINATION**

# ASIA COMMERCIAL AIRCONDITIONER INFRASTRUCTURE



# GLOBAL PRODUCTION SITE



## TOTAL HVAC SOLUTION PROVIDER

Since manufacturing Korea's first air conditioner exclusively designed for residential use in 1968, LG has been a pioneer of air conditioning innovation. Encouraged by LG's technological leadership in the residential air conditioning sector since the late 1990s, LG moved into the commercial air conditioning sector.

LG has established itself as an exemplary HVAC and energy solutions provider, investing in new technologies, with the addition of chiller, VRF systems and building management systems (BMS) to its comprehensive product portfolio. Alongside its wide range of innovative solutions, the LG promise is to deliver unparalleled customer service.

LG produces expert air conditioning professionals at its academic centers, of which there are nearly 80 worldwide. These academic centers provide workshops and training programs that offer excellent hands-on experience. Additionally, LG provides advanced and highly sophisticated tools for HVAC system engineers and installers, including its time saving LG Air Conditioner Technical Solution (LATS) software. LATS allows LG to support clients with draft energy estimation and energy modeling, model selection and design, lifecycle cost analysis and more to ensure a seamless process from planning to execution. LG also operates several state-of-the-art R&D facilities all across the planet.

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STANDARD INVERTER

| STANDARD INVERTER |             |                                                                                                    |                                                                                              |                                                                                                |                                                                                                    |                                                                                              |                                                                                                      |                                                                                                |                                                                                                      |
|-------------------|-------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| kBTu/h            | Refrigerant | Ceiling Cassette                                                                                   |                                                                                              |                                                                                                | Floor Standing                                                                                     | Ceiling Concealed Duct                                                                       |                                                                                                      | ODU                                                                                            |                                                                                                      |
|                   |             | 4 Way                                                                                              | 1 Way                                                                                        | Round                                                                                          |                                                                                                    | Low Static                                                                                   | Mid Static                                                                                           | 1 Phase                                                                                        | 3 Phase                                                                                              |
| 9                 | R32         |                                                                                                    |                                                                                              |                                                                                                |                                                                                                    | <br>1 Phase |                                                                                                      | <br>ZUAA1   |                                                                                                      |
| 12                | R32         |                                                                                                    | <br>1 Phase |                                                                                                |                                                                                                    | <br>1 Phase |                                                                                                      | <br>ZUAA1   |                                                                                                      |
| 18                | R32         | <br>1 Phase       | <br>1 Phase |                                                                                                |                                                                                                    | <br>1 Phase | <br>1 Phase       | <br>ZUAB1   |                                                                                                      |
| 24                | R32         | <br>1 Phase       | <br>1 Phase |                                                                                                | <br>1 Phase       | <br>1 Phase | <br>1 Phase       | <br>ZUAC1   |                                                                                                      |
| 36                | R32         | <br>1 & 3 Phase   |                                                                                              | <br>1 Phase   | <br>1 & 3 Phase  |                                                                                              | <br>1 & 3 Phase   | <br>ZUAD1   | <br>ZUAD3         |
| 47                | R32         | <br>1 & 3 Phase |                                                                                              | <br>1 Phase | <br>1 & 3 Phase |                                                                                              | <br>1 & 3 Phase | <br>ZUAD1 | <br>ZUAD3       |
| 60                | R32         | <br>3 Phase     |                                                                                              |                                                                                                |                                                                                                    |                                                                                              |                                                                                                      |                                                                                                | <br>ZTUQ60LMLA0 |
| 98                | R410A       |                                                                                                    |                                                                                              |                                                                                                | <br>3 Phase     |                                                                                              |                                                                                                      |                                                                                                | <br>APUQ100LFA0 |
| 160               | R410A       |                                                                                                    |                                                                                              |                                                                                                | <br>3 Phase     |                                                                                              |                                                                                                      |                                                                                                | <br>APUQ150LNA0 |
| 200               | R410A       |                                                                                                    |                                                                                              |                                                                                                | <br>3 Phase     |                                                                                              |                                                                                                      |                                                                                                | <br>APUQ200LNA0 |

※ Please refer to the specification pages for detail Indoor-Outdoor combination information.

ENTRY INVERTER (R32)

| ENTRY INVERTER (R32) |                                                                                                      |                                                                                                  |                                                                                               |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| kBTu/h               | Ceiling Cassette                                                                                     | Floor Standing                                                                                   | ODU                                                                                           |                                                                                                      |
|                      | 4 Way                                                                                                |                                                                                                  | 1 Phase                                                                                       |                                                                                                      |
| 18                   | <br>1 Phase       |                                                                                                  | <br>ZUAA1  |                                                                                                      |
| 24                   | <br>1 Phase       |                                                                                                  | <br>ZUAB1  |                                                                                                      |
| 30                   | <br>1 Phase       | <br>1 Phase   | <br>ZUAC1  |                                                                                                      |
| 36                   | <br>1 Phase       | <br>1 Phase   | <br>ZUAC1  |                                                                                                      |
| INVERTER (R32)       |                                                                                                      |                                                                                                  |                                                                                               |                                                                                                      |
| kBTu/h               | Ceiling Suspended                                                                                    | Ceiling Suspended                                                                                | ODU                                                                                           |                                                                                                      |
|                      | STANDARD INVERTER                                                                                    | ENTRY INVERTER                                                                                   | 1 Phase                                                                                       | 3 Phase                                                                                              |
| 18                   |                                                                                                      | <br>1 Phase | <br>U12A |                                                                                                      |
| 24                   | <br>1 Phase     |                                                                                                  | <br>U24A |                                                                                                      |
| 30 / 36              |                                                                                                      | <br>1 Phase | <br>U24A |                                                                                                      |
| 36                   | <br>1 & 3 Phase |                                                                                                  | <br>U36A | <br>U36A        |
| 47                   | <br>1 & 3 Phase |                                                                                                  | <br>U36A | <br>U36A        |
| 60                   | <br>3 Phase     |                                                                                                  |                                                                                               | <br>ZTUQ60LMLA0 |

※ Please refer to the specification pages for detail Indoor-Outdoor combination information.

● Available   ○ Refer to description   × Not available

| TYPE                          |                                       | STANDARD   |                    |                    |                                  |                     |
|-------------------------------|---------------------------------------|------------|--------------------|--------------------|----------------------------------|---------------------|
| Outdoor Unit                  |                                       | ZUAA1 (1Ø) | ZUAB1 (1Ø)<br>U12A | ZUAC1 (1Ø)<br>U18A | ZUAD1 (1Ø)<br>ZUAD3 (3Ø)<br>U24A | ZTUQ60LMLA0<br>(3Ø) |
| Energy Efficiency             | BLDC Comp & Fan Motor                 | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Power Saving Start up                 | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Peak Current Control                  | X          | X                  | ●                  | ●                                | ●                   |
|                               | Mode Lock                             | X          | X                  | ●                  | ●                                | ●                   |
| Comfort Enviroment            | Comfort Cooling with Humidity sensor* | ○          | ○                  | ○                  | ○                                | ○                   |
|                               | Night Silent Operation                | X          | X                  | ●                  | ●                                | ●                   |
|                               | Continuous Cooling Operation          | ●          | ●                  | ●                  | ●                                | ●                   |
| High Performance & Reliablity | Twin Rotary Compressor                | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Gold Fin Heat Exchanger               | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Long Pipe installation                | ●          | ●                  | ●                  | ●                                | ●                   |
| Convenient Control System     | ThinQ**                               | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Easy Control (PI-485 Connection)      | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Moblie LG MV                          | ●          | ●                  | ●                  | ●                                | ●                   |
|                               | Weekly Program***                     | ○          | ○                  | ○                  | ○                                | ○                   |

\* Need wired remote controller PREMTB100 / PREMTBB10 (Not available for Floor standing indoor unit)  
\*\* Available with LG Wi-Fi modem and it should be connected to the indoor unit. (Contact sales office for detail)  
\*\*\* Weekly program is available with wired remote controller.

● Available   ○ Refer to description   × Not available

| TYPE                          |                                       | ENTRY      |                   |                   |
|-------------------------------|---------------------------------------|------------|-------------------|-------------------|
| Outdoor Unit                  |                                       | ZUAA1 (1Ø) | ZUAB1 (1Ø) / U18A | ZUAC1 (1Ø) / U24A |
| Energy Efficiency             | BLDC Comp & Fan Motor                 | ●          | ●                 | ●                 |
|                               | Power Saving Start up                 | ●          | ●                 | ●                 |
|                               | Peak Current Control                  | X          | X                 | ●                 |
|                               | Mode Lock                             | X          | X                 | ●                 |
| Comfort Enviroment            | Comfort Cooling with Humidity sensor* | ○          | ○                 | ○                 |
|                               | Night Silent Operation                | X          | X                 | ●                 |
|                               | Continuous Cooling Operation          | ●          | ●                 | ●                 |
| High Performance & Reliablity | Twin Rotary Compressor                | ●          | ●                 | ●                 |
|                               | Gold Fin Heat Exchanger               | ●          | ●                 | ●                 |
|                               | Long Pipe installation                | ●          | ●                 | ●                 |
| Convenient Control System     | ThinQ**                               | ●          | ●                 | ●                 |
|                               | Easy Control (PI-485 Connection)      | ●          | ●                 | ●                 |
|                               | Moblie LG MV                          | ●          | ●                 | ●                 |
|                               | Weekly Program***                     | ○          | ○                 | ○                 |

\* Need wired remote controller PREMTB100 / PREMTBB10  
\*\* Available with LG Wi-Fi modem and it should be connected to the indoor unit. (Contact sales office for detail)  
\*\*\* Weekly program is available with wired remote controller.

Green Refrigerant

R32 is environment friendly and classified as a highly efficient ‘Go Green’ refrigerant.



Reducing Global Warming & Ozone Layer Depletion

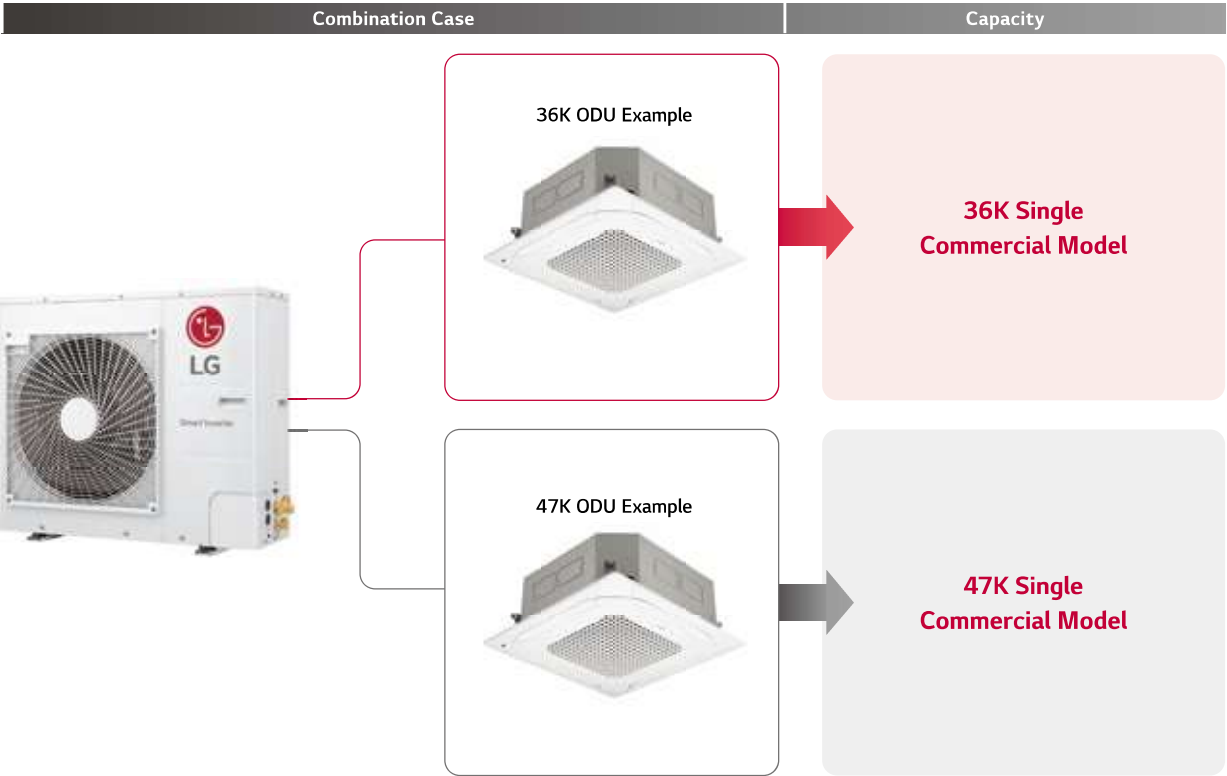
The quantity of R32 refrigerant used is appreciably low as compared to the R410A refrigerant. Consequently, this results in decreasing the potential of Global warming and minimal depletion of the ozone layer. Comparative case studies of the different refrigerants are indicated in the table as below.

|                                   | R410A                       | R32                 |
|-----------------------------------|-----------------------------|---------------------|
| Composition                       | Blend of R32 50% + R125 50% | Pure R32 (No blend) |
| GWP<br>(Global Warming Potential) | 2087.5                      | 675                 |

Free Combination Concept & Benefits

Customer Benefit

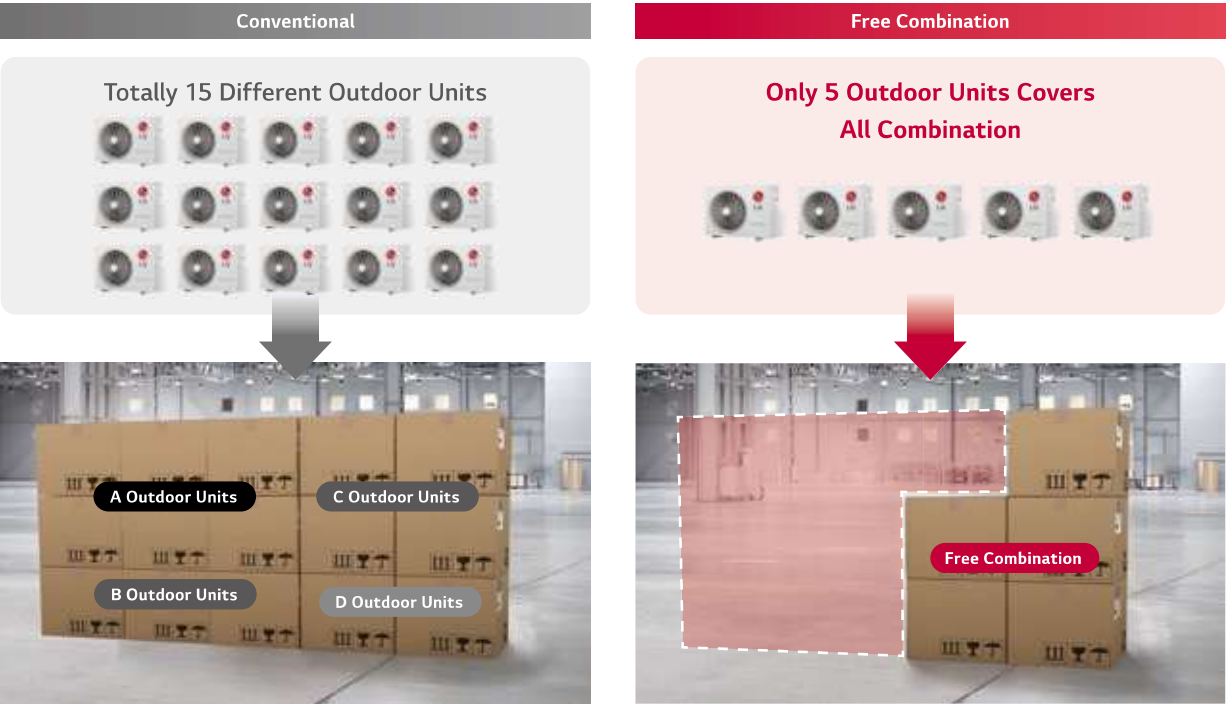
Customers can choose the combination based on their purchase purpose.



※ Please refer to the specification pages for available combination products & capacities.

Dealer Benefit

Simplified Outdoor line-up will make stock & warehouse operation easier.



※ Based on 9-47kBtu Single Commercial A/C line up

## Improved BLDC Dual Inverter Compressor

Product safety and Durability are assisted by advanced BLDC Dual Inverter compressor.



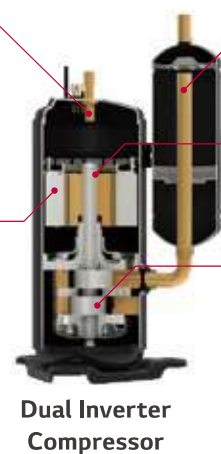
### Parts of Dual Inverter Compressor Have Been Improved to Assure a Longer Lifespan.

#### Flow Optimization

Reduced oil inflow by increasing the length of oil discharge pipe, which keeps enough oil inside the compressor to prevent compressor abrasion.

#### Concentrated Winding Motor

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



Dual Inverter Compressor

#### Suction Optimization

Reduced suction loss and improving oil collection through the optimization of suction path.

#### Surface Coating

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

#### Twin Rotary Rotor

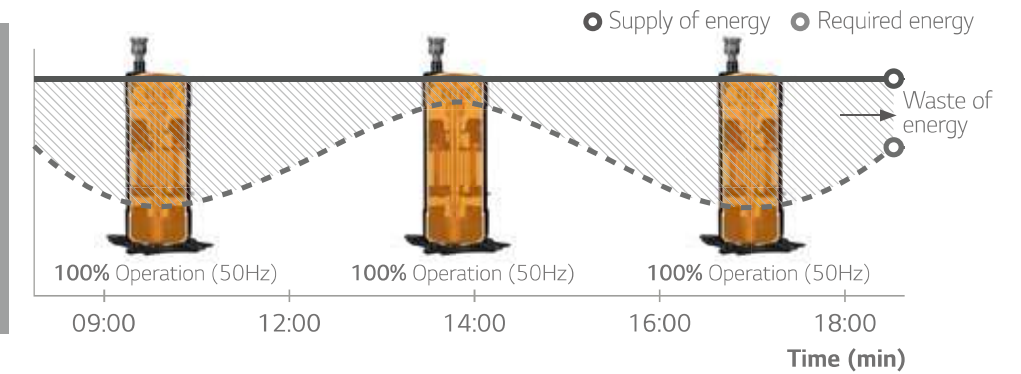
Upper and lower part rotor offset imbalance in shaft rotor rotation. Vibration and noise are reduced. Max torque load decreased by 45% compared to single rotor.



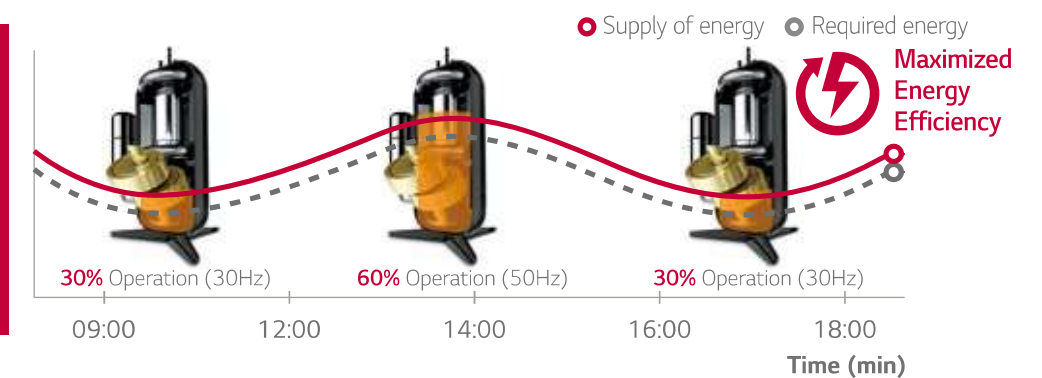
## Constant-speed Compressor vs. Inverter Compressor

The compressor cleverly adjusts output according to its surroundings, bringing a number of benefits including world-class energy efficiency, improved comfort and sustained reliability.

### Constant Speed Compressor

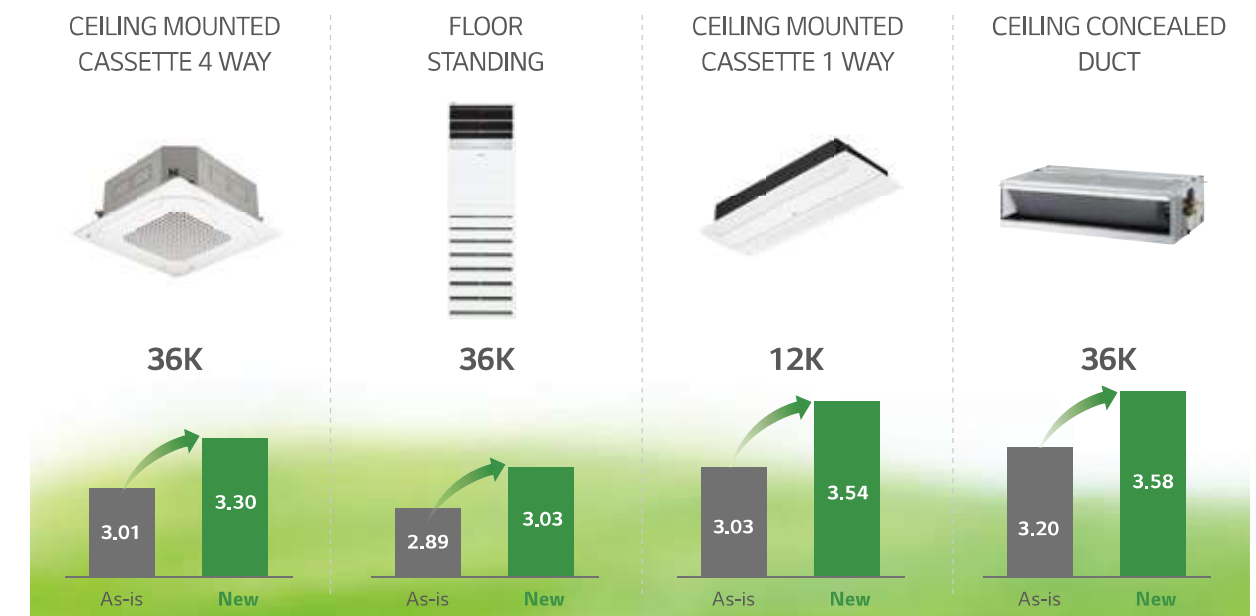


### Inverter Compressor



## Smart Inverter

With LG's own cutting-edge inverter technology, high level EER can be achieved.

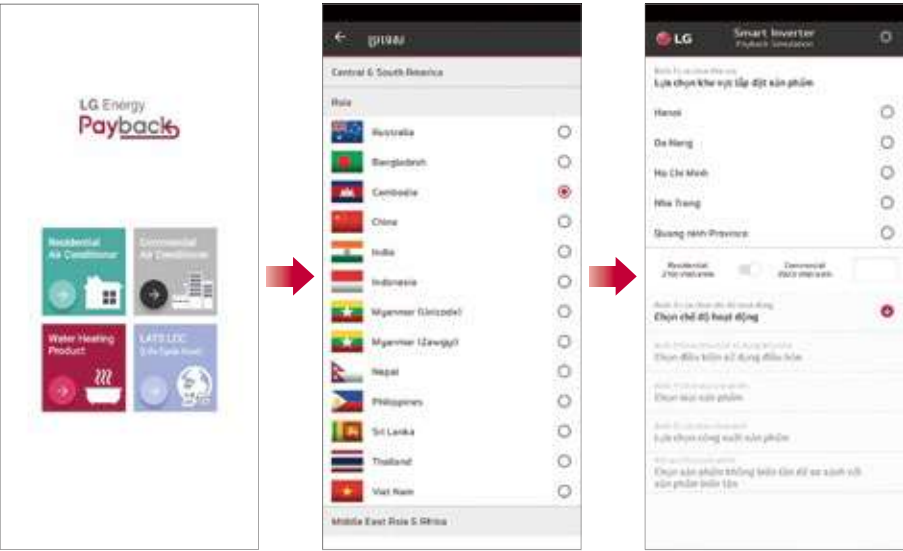


※ The EER level varies depending on the capacity (kW) of each product

※ EER (Cooling) calculation = Rated Cooling capacity (w) / Rated input power (w)

# Payback

You can easily simulate on mobile via payback app. (Install “LG Energy Payback”)

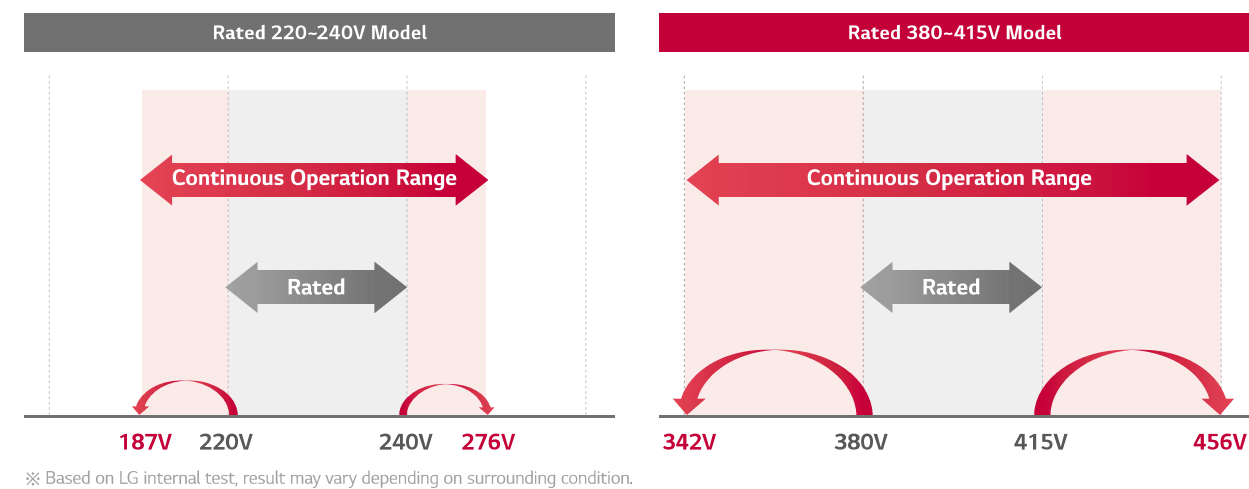


\* Search “LG Energy Payback” on Google Play store or App store.



## Power Cooling at the Wide Voltage Range

LG Smart inverter is able to operate at a wider voltage range than constant speed model.



## Voltage Protection

LG circuit design can minimize the damage from surge, high & low voltage risk.



## Wide Operation Range (Outdoor temperature)

Product can be operated as low as -15°C to as high as 50°C outdoor temperature.



※ Operation range is varies by product type and capacity, please check specification for detail information.

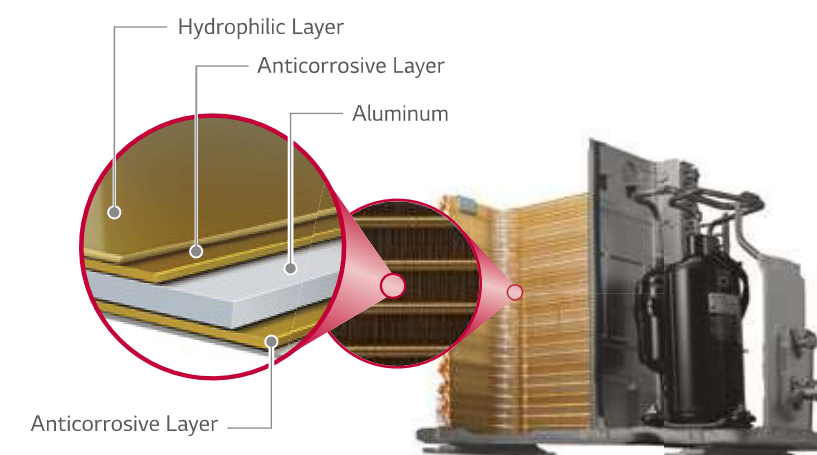
## Gold Fin™

The Gold Fin™ coating protects the surface of the heat exchanger from corrosion and helps to extend lifespan of product.

### How It Works

#### Corrosion-resistant Protective Layer

The gold-colored special coating on the fin of the heat exchanger prevents corrosion, extending the life of the unit.



### Test Result

Conventional Fin



Gold Fin™



\* Test result 360 hrs. after being exposed to sodium chloride.

# Wi-Fi Remote Control

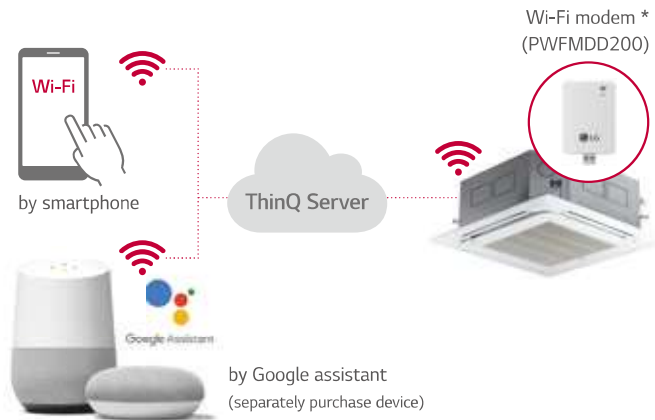
Control your air conditioners using the smart devices as Android or iOS based smartphones and voice commands via Google assistant.



※ Search "ThinQ" on Google market or App store then download the app.  
\* Wi-Fi modem (PWFMD200) is required by option.

## Access your air conditioner anytime and from anywhere

Operation under the revised weather conditions before changing conditions impact indoor comfort.



## Simple operation for various functions

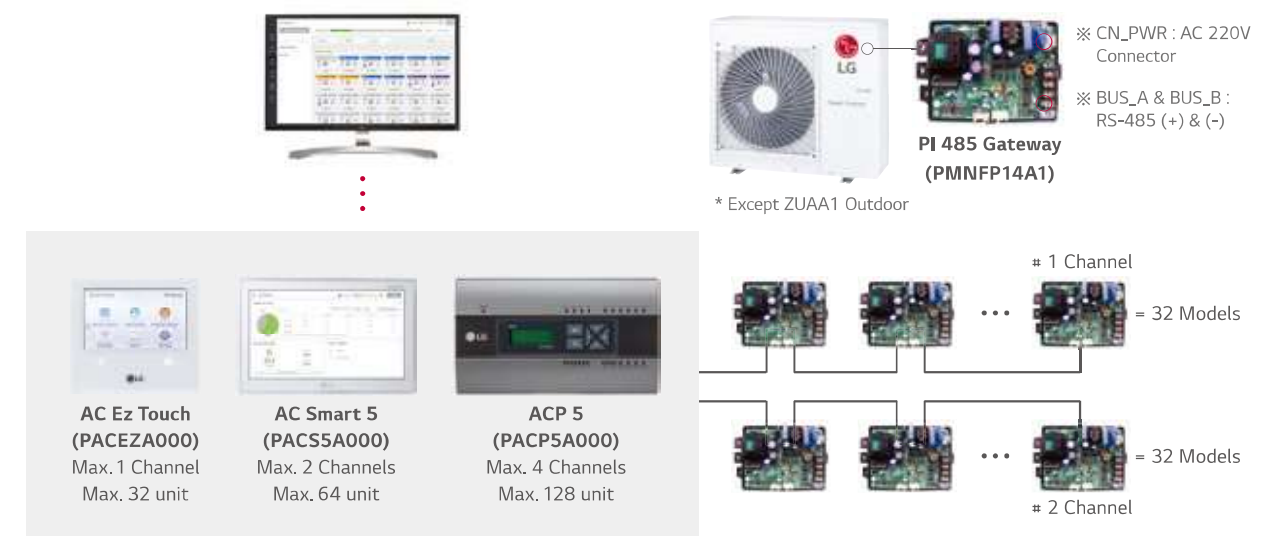
- On / Off \*\*
- Mode Selection \*\*
- Current temperature \*\*
- Set temperature \*\*
- Set fan speed \*\*
- Vane Control
- Reservation
- Filter Management
- Smart Diagnosis

\*\* This functions are used by Google assistant & Amazon Alexa  
※ In some countries, the use of the Google assistant & Amazon Alexa system may be restricted.

※ For our policy of continuous ThinQ App improvement, specification, design and features are subject to change without prior notice.

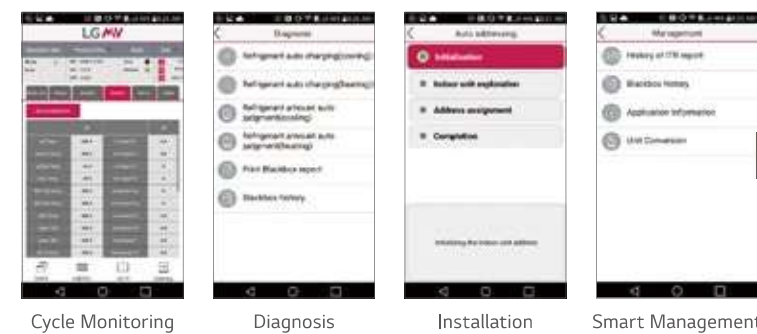
# Easy Control (Central Controller)

PI-485 is a gateway device that provides communication between LG Outdoor Units and LG central controllers such as ACP, AC Smart.



# Mobile LGMV

LGMV(Monitoring View) helps engineers to inspect and monitor air conditioning unit easily.



## Error Indicator

|    | Contents                                                    |
|----|-------------------------------------------------------------|
| 01 | Air temperature sensor of indoor unit                       |
| 02 | Inlet pipe temperature sensor of indoor unit                |
| 03 | Communication error : Wired Remote Controller ↔ Indoor Unit |
| ⋮  |                                                             |

A technician not only can check the cycle information with diagrams & graph, but also check easily the error status (Troubleshooting guide) and take action immediately.

※ Search "Mobile LGMV" on Google or Apple store then download the app.  
※ Wi-Fi modem (PWFMD200) is required by option.

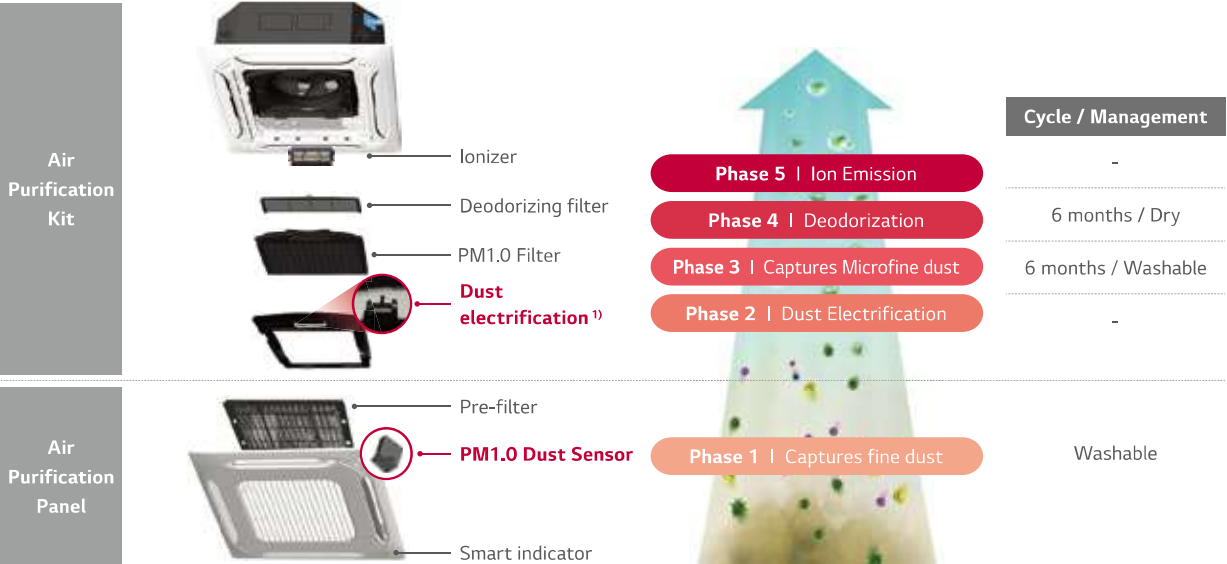
# CEILING MOUNTED CASSETTE 4 WAY



CEILING MOUNTED CASSETTE 4 WAY FEATURES

## Convenient and Powerful Air Purification

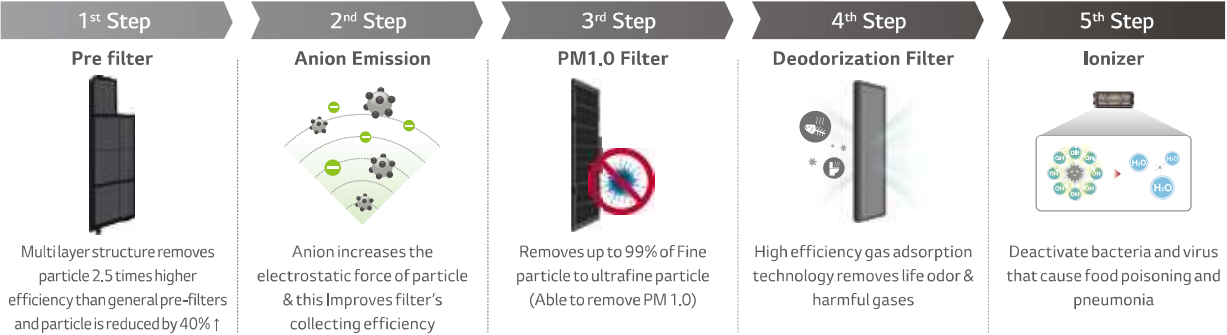
Easy to manage air purifying system with one-touch air cleaning filter.



1) Electrical diffusion makes dust electrification.  
\* Need optional Air Purification panel (PT-MPGW0) & Air Purification kit (PTAHMP0) & Wired remote (PREMTB100)

## Air Purification Technology

5-Steps air cleaning process removes invisible, ultra fine dust, odor and germs to ensure a clean and healthy living environment.



### CAC Certification?

The Korea Air Cleaning Association strictly tests the air cleaning function of air conditioner products and provide certification to the product that give credibility to consumers.

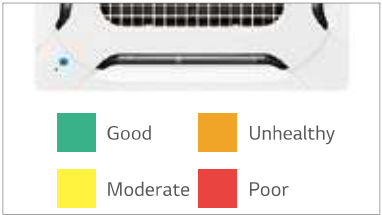


## Various Display of Air Purification

Installed Wi-Fi leads unlimited boundary to control IDU and display Air Purification status.

### Smart Indicator

Shows quality of Indoor air in real time



### Remote Controller

Display Air status and Fine Dust Concentration



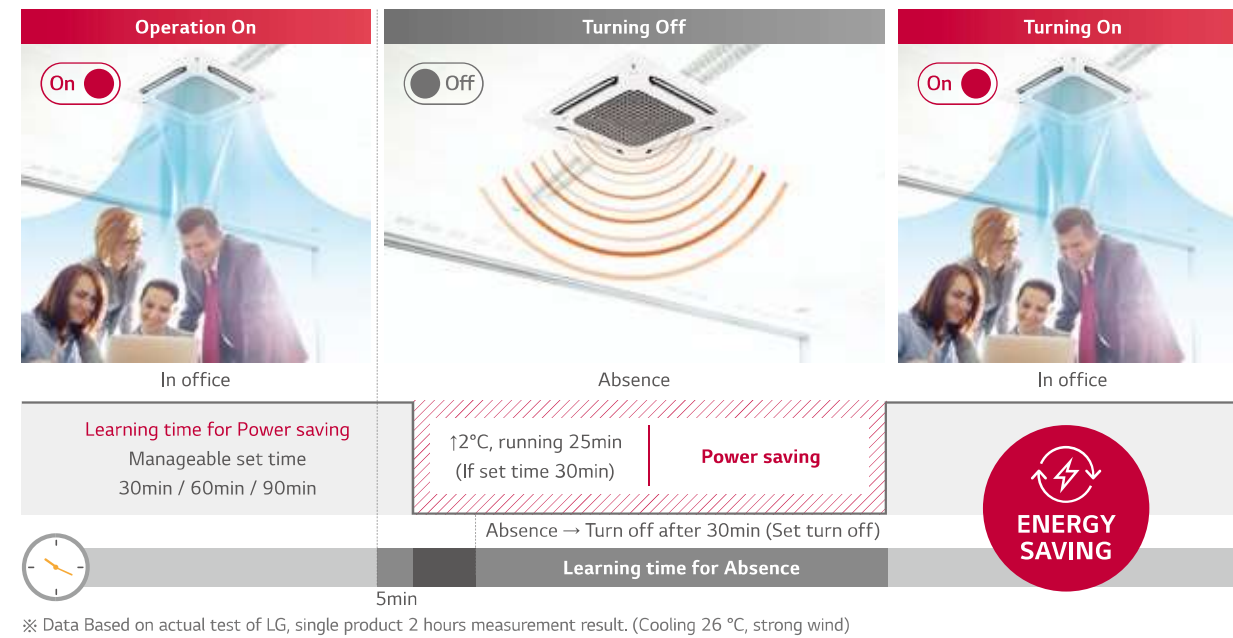
### Mobile

Whenever & Wherever Check and Control Air status



## Human Detecting On / Off Learning Operation System

Sensor detects people to switch On / Off for maximize energy saving.



## Human Detection Sensor & Humidity Sensor



## Independent Control of Air Flow

The independent vane operation feature uses separate 4 motors, making it possible to control all four vanes independently. The independent control provides optimal comfort for each user. It is capable of handling inclination angles between 20 ° ~ 70 °.

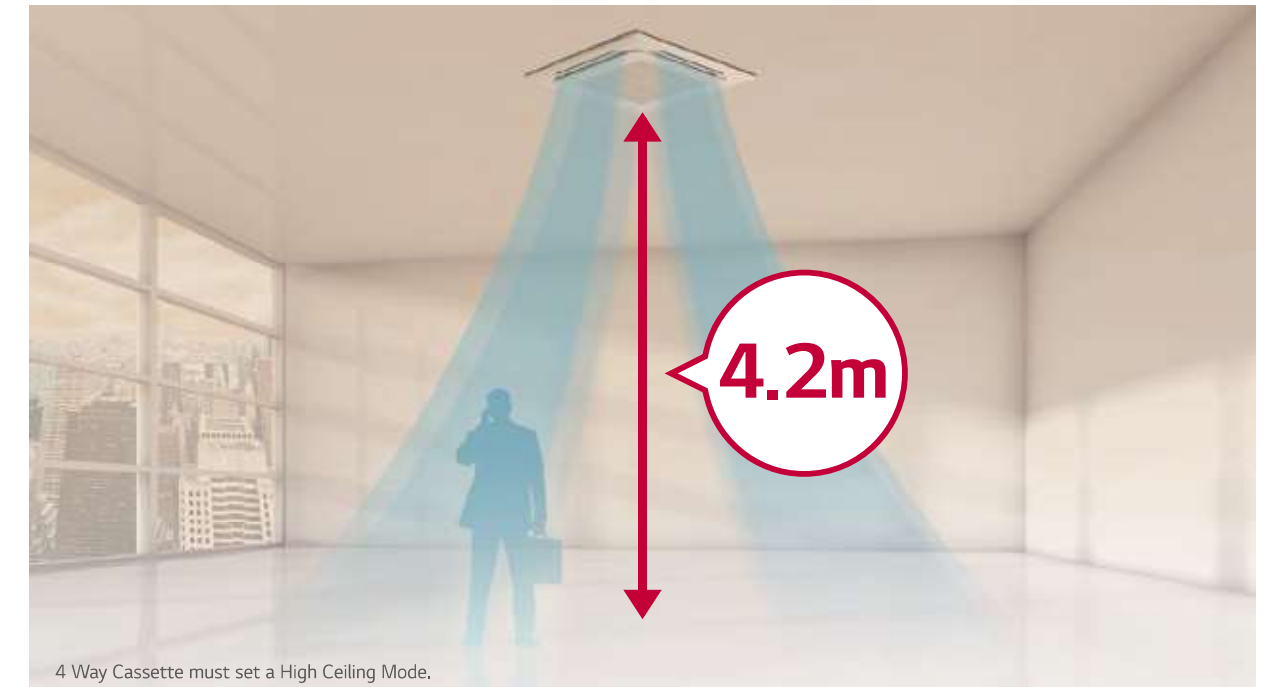
Indirect air flow

Direct air flow



## High Ceiling Mode

Wind can reach up to 4.2m with plenty air volume. (@ 0.5ms)



## Convenient Panel Installation

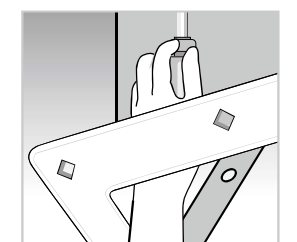
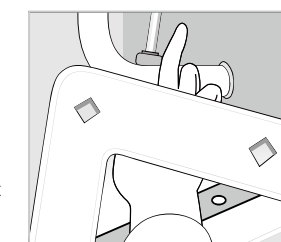
The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe. And it is easy to install the panel to the body, using the button type panel design.

Detachable Corner Design

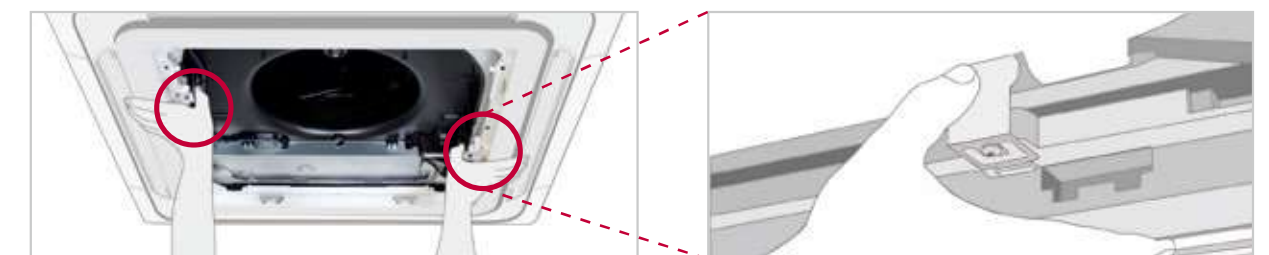


Drain Leakage Check

Hanger Adjust



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



Standard series



| SET CONDITION    |       |                   | 18K                     | 24K                     | 36K                      |
|------------------|-------|-------------------|-------------------------|-------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 20,500 / 18,000 / 5,400 | 26,200 / 24,000 / 7,200 | 40,000 / 36,000 / 10,800 |
|                  | kW    | Max / Rated / Min | 6.01 / 5.27 / 1.58      | 7.68 / 7.03 / 2.11      | 11.71 / 10.54 / 3.15     |
| Power Input      | Rated | kW                | 1.43                    | 2.11                    | 3.20                     |
| Running Current  | Rated | A                 | 6.5                     | 9.6                     | 14.6                     |
| EER              |       | w/w               | 3.69                    | 3.33                    | 3.30                     |

| INDOOR UNIT                   |              |                |           | ZTNQ18GPLA0               | ZTNQ24GPLA0               | ZTNQ36GNLA0               |
|-------------------------------|--------------|----------------|-----------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |              | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body         | W x H x D      | mm        | 840 x 204 x 840           | 840 x 204 x 840           | 840 x 246 x 840           |
|                               | Shipping     | W x H x D      | mm        | 922 x 276 x 917           | 922 x 276 x 917           | 922 x 318 x 917           |
| Weight                        | Body         |                | kg        | 19.5                      | 19.5                      | 25                        |
|                               | Shipping     |                | kg        | 23.5                      | 23.5                      | 27.2                      |
| Fan Type                      |              |                |           | Turbo Fan                 | Turbo Fan                 | Turbo Fan                 |
| Air Flow Rate                 |              | SH / H / M / L | m³/min    | - / 17.0 / 15.0 / 13.0    | - / 17.0 / 15.0 / 13.0    | - / 25.0 / 22.0 / 19.0    |
| Fan Motor                     | Type         |                |           | BLDC                      | BLDC                      | BLDC                      |
|                               | Output       |                | W x No.   | 50.3 x 1                  | 50.3 x 1                  | 124 x 1                   |
| Sound Pressure Level          | Cooling      | SH / H / M / L | dB(A)     | - / 40 / 36 / 33          | - / 40 / 36 / 33          | - / 45 / 41 / 37          |
|                               | Liquid Side  |                | mm(inch)  | Ø6.35 (1/4)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side     |                | mm(inch)  | Ø12.7 (1/2)               | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
| Piping Connections            | Drain Pipe   | (O.D. / I.D.)  | mm        | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
|                               | Model Name   |                |           | PT-MCGW0                  | PT-MCGW0                  | PT-MCGW0                  |
| Decoration Panel*             | Casing Color |                |           | Morning Fog               | Morning Fog               | Morning Fog               |
|                               | Dimensions   | W x H x D      | mm        | 950 x 35 x 950            | 950 x 35 x 950            | 950 x 35 x 950            |
|                               | Net Weight   |                | kg (lbs)  | 6.3                       | 6.3                       | 6.3                       |
| Power and Communication Cable |              |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 |

\* To use Air Purification function, Need Air Purification panel (PT-MPGW0) & Air Purficiation kit (PTAHMP0) & Wired remote (PREMTB100) / All optional

| OUTDOOR UNIT          |                            |             |              | ZUAB1             | ZUAC1<br>ZTUQ24GPLA0 | ZUAD1<br>ZTUQ36GNLA0 |
|-----------------------|----------------------------|-------------|--------------|-------------------|----------------------|----------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 220-240, 1, 50/60 | 220-240, 1, 50/60    | 220-240, 1, 50/60    |
| Dimensions            |                            | W x H x D   | mm           | 770 x 545 x 288   | 870 x 650 x 330      | 950 x 834 x 330      |
| Net Weight            |                            |             | kg           | 30.9              | 41.5                 | 59.5                 |
| Compressor            | Type                       |             | -            | Twin Rotary       | Twin Rotary          | Twin Rotary          |
|                       | Motor Type                 |             | -            | BLDC              | BLDC                 | BLDC                 |
|                       | Motor Output               |             | W x No.      | 1,500 x 1         | 1,500 x 1            | 4,000 x 1            |
| Refrigerant           | Type                       |             | -            | R32               | R32                  | R32                  |
|                       | Chargeless-Pipe Length     |             | m            | 15                | 15                   | 15                   |
|                       | Additional Charging Volume |             | g/m          | 15                | 30                   | 30                   |
| Fan                   | Type                       |             | -            | Axial Fan         | Axial Fan            | Axial Fan            |
|                       | Air Flow Rate              |             | m³/min x No. | 50 x 1            | 50 x 1               | 60 x 1               |
| Fan Motor             | Type                       |             |              | BLDC              | BLDC                 | BLDC                 |
|                       | Output                     |             | W x No.      | 43.0 x 1          | 85.0 x 1             | 124.0 x 1            |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 47                | 53                   | 55                   |
|                       | Liquid                     | Outer Dia.  | mm(inch)     | Ø6.35 (1/4)       | Ø9.52 (3/8)          | Ø9.52 (3/8)          |
| Piping Connections    | Gas                        | Outer Dia.  | mm(inch)     | Ø12.7 (1/2)       | Ø15.88 (5/8)         | Ø15.88 (5/8)         |
|                       | Piping Length              | Min. / Max. | m            | 5 / 30            | 5 / 50               | 5 / 50               |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 20                | 30                   | 30                   |
| Wiring Connections    |                            |             | mm² x No.    | 2.5 x 3C          | 2.5 x 3C             | 4.0 x 3C             |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

Standard series



| SET CONDITION    |       |                   | 36K                      | 47K                      | 47K                      | 60K                      |
|------------------|-------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 380-415, 3, 50/60        | 220-240, 1, 50/60        | 380-415, 3, 50/60        | 380-415, 3, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 40,000 / 36,000 / 10,800 | 48,950 / 46,500 / 13,800 | 48,950 / 46,500 / 13,800 | 57,000 / 54,000 / 13,800 |
|                  | kW    | Max / Rated / Min | 11.71 / 10.54 / 3.15     | 14.33 / 13.61 / 4.05     | 14.33 / 13.61 / 4.05     | 16.7 / 15.81 / 4.05      |
| Power Input      | Rated | kW                | 3.20                     | 4.63                     | 4.63                     | 5.42                     |
| Running Current  | Rated | A                 | 4.5                      | 21.1                     | 6.5                      | 7.6                      |
| EER              |       | w/w               | 3.30                     | 2.94                     | 2.94                     | 2.92                     |

| INDOOR UNIT                   |              |                |           | ZTNQ36GNLA0               | ZTNQ48GMLA0               | ZTNQ48GMLA0               | ZTNQ60GMLA0               |
|-------------------------------|--------------|----------------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |              | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body         | W x H x D      | mm        | 840 x 246 x 840           | 840 x 288 x 840           | 840 x 288 x 840           | 840 x 288 x 840           |
|                               | Shipping     | W x H x D      | mm        | 922 x 318 x 917           | 922 x 360 x 917           | 922 x 360 x 917           | 922 x 360 x 917           |
| Weight                        | Body         |                | kg        | 25                        | 26                        | 26                        | 26                        |
|                               | Shipping     |                | kg        | 27.2                      | 31                        | 31                        | 31                        |
| Fan Type                      |              |                |           | Turbo Fan                 | Turbo Fan                 | Turbo Fan                 | Turbo Fan                 |
| Air Flow Rate                 |              | SH / H / M / L | m³/min    | - / 25.0 / 22.0 / 19.0    | - / 32.0 / 30.0 / 28.0    | - / 32.0 / 30.0 / 28.0    | - / 32.0 / 30.0 / 28.0    |
| Fan Motor                     | Type         |                |           | BLDC                      | BLDC                      | BLDC                      | BLDC                      |
|                               | Output       |                | W x No.   | 124 x 1                   | 124 x 1                   | 124 x 1                   | 124 x 1                   |
| Sound Pressure Level          | Cooling      | SH / H / M / L | dB(A)     | - / 45 / 41 / 37          | - / 44 / 42 / 40          | - / 44 / 42 / 40          | - / 44 / 42 / 40          |
|                               | Liquid Side  |                | mm(inch)  | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side     |                | mm(inch)  | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
| Piping Connections            | Drain Pipe   | (O.D. / I.D.)  | mm        | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
|                               | Model Name   |                |           | PT-MCGW0                  | PT-MCGW0                  | PT-MCGW0                  | PT-MCGW0                  |
| Decoration Panel*             | Casing Color |                |           | Morning Fog               | Morning Fog               | Morning Fog               | Morning Fog               |
|                               | Dimensions   | W x H x D      | mm        | 950 x 35 x 950            | 950 x 35 x 950            | 950 x 35 x 950            | 950 x 35 x 950            |
|                               | Net Weight   |                | kg (lbs)  | 6.3                       | 6.3                       | 6.3                       | 6.3                       |
| Power and Communication Cable |              |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 |

\* To use Air Purification function, Need Air Purification panel (PT-MPGW0) & Air Purficiation kit (PTAHMP0) & Wired remote (PREMTB100) / All optional

| OUTDOOR UNIT          |                            |             |              | ZUAD3<br>ZTUQ36LNLA0 | ZUAD1<br>ZTUQ48GMLA0 | ZUAD3<br>ZTUQ48LMLA0 | ZTUQ60LMLA0       |
|-----------------------|----------------------------|-------------|--------------|----------------------|----------------------|----------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 380-415, 3, 50/60    | 220-240, 1, 50/60    | 380-415, 3, 50/60    | 380-415, 3, 50/60 |
| Dimensions            |                            | W x H x D   | mm           | 950 x 834 x 330      | 950 x 834 x 330      | 950 x 834 x 330      | 950 x 834 x 330   |
| Net Weight            |                            |             | kg           | 60.8                 | 59.5                 | 60.8                 | 65.1              |
| Compressor            | Type                       |             | -            | Twin Rotary          | Twin Rotary          | Twin Rotary          | Twin Rotary       |
|                       | Motor Type                 |             | -            | BLDC                 | BLDC                 | BLDC                 | BLDC              |
|                       | Motor Output               |             | W x No.      | 4,000 x 1            | 4,000 x 1            | 4,000 x 1            | 4,000 x 1         |
| Refrigerant           | Type                       |             | -            | R32                  | R32                  | R32                  | R32               |
|                       | Chargeless-Pipe Length     |             | m            | 15                   | 15                   | 15                   | 15                |
|                       | Additional Charging Volume |             | g/m          | 30                   | 30                   | 30                   | 40                |
| Fan                   | Type                       |             | -            | Axial Fan            | Axial Fan            | Axial Fan            | Axial Fan         |
|                       | Air Flow Rate              |             | m³/min x No. | 60 x 1               | 60 X 1               | 60 x 1               | 60 x 1            |
| Fan Motor             | Type                       |             |              | BLDC                 | BLDC                 | BLDC                 | BLDC              |
|                       | Output                     |             | W x No.      | 124.0 x 1            | 124.0 X 1            | 124.0 x 1            | 124.0 x 1         |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 55                   | 55                   | 55                   | 61                |
|                       | Liquid                     | Outer Dia.  | mm(inch)     | Ø9.52 (3/8)          | Ø9.52 (3/8)          | Ø9.52 (3/8)          | Ø9.52 (3/8)       |
| Piping Connections    | Gas                        | Outer Dia.  | mm(inch)     | Ø15.88 (5/8)         | Ø15.88 (5/8)         | Ø15.88 (5/8)         | Ø15.88 (5/8)      |
|                       | Piping Length              | Min. / Max. | m            | 5 / 50               | 5 / 50               | 5 / 50               | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 30                   | 30                   | 30                   | 30                |
| Wiring Connections    |                            |             | mm² x No.    | 2.5 x 5C             | 4.0 x 3C             | 2.5 x 5C             | 2.5 x 5C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

Entry series



| SET CONDITION    |       |                   | 18K                     | 24K                     | 30K                      | 36K                      |
|------------------|-------|-------------------|-------------------------|-------------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60        | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 18,500 / 17,500 / 5,400 | 24,200 / 23,000 / 7,200 | 33,700 / 32,000 / 15,000 | 37,900 / 36,000 / 10,800 |
|                  | kW    | Max / Rated / Min | 5.42 / 5.13 / 1.58      | 7.09 / 6.74 / 2.11      | 9.87 / 9.37 / 4.4        | 11.1 / 10.54 / 3.15      |
| Power Input      | Rated | kW                | 1.75                    | 2.24                    | 3.05                     | 3.72                     |
| Running Current  | Rated | A                 | 8.0                     | 10.2                    | 13.9                     | 16.9                     |
| EER              | w/w   |                   | 2.93                    | 3.01                    | 3.07                     | 2.84                     |

| INDOOR UNIT                   |              |                |           | ZTNQ18GPLE0               | ZTNQ24GNLE0               | ZTNQ30GNLE0               | ZTNQ36GNLE0               |
|-------------------------------|--------------|----------------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |              | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body         | W x H x D      | mm        | 840 x 204 x 840           | 840 x 246 x 840           | 840 x 246 x 840           | 840 x 246 x 840           |
|                               | Shipping     | W x H x D      | mm        | 922 x 276 x 917           | 922 x 318 x 917           | 922 x 318 x 917           | 922 x 318 x 917           |
| Weight                        | Body         |                | kg        | 19.5                      | 25                        | 25                        | 25                        |
|                               | Shipping     |                | kg        | 23.5                      | 27.2                      | 27.2                      | 27.2                      |
| Fan Type                      |              |                |           | Turbo Fan                 | Turbo Fan                 | Turbo Fan                 | Turbo Fan                 |
| Air Flow Rate                 |              | SH / H / M / L | m³/min    | - / 17.0 / 15.0 / 13.0    | - / 21.0 / 18.5 / 15.0    | - / 25.0 / 22.0 / 19.0    | - / 25.0 / 22.0 / 19.0    |
| Fan Motor                     | Type         |                |           | BLDC                      | BLDC                      | BLDC                      | BLDC                      |
|                               | Output       | W x No.        |           | 50.3 x 1                  | 124 x 1                   | 124 x 1                   | 124 x 1                   |
| Sound Pressure Level          | Cooling      | SH / H / M / L | dB(A)     | - / 40 / 36 / 33          | - / 40 / 35 / 29          | - / 45 / 41 / 37          | - / 45 / 41 / 37          |
| Piping ** Connections         | Liquid Side  |                | mm(inch)  | Ø6.35 (1/4)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side     |                | mm(inch)  | Ø12.7 (1/2)               | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe   | (O.D. / I.D.)  | mm        | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
| Decoration Panel*             | Model Name   |                |           | PT-MCGW0                  | PT-MCGW0                  | PT-MCGW0                  | PT-MCGW0                  |
|                               | Casing Color |                |           | Morning Fog               | Morning Fog               | Morning Fog               | Morning Fog               |
|                               | Dimensions   | W x H x D      | mm        | 950 x 35 x 950            | 950 x 35 x 950            | 950 x 35 x 950            | 950 x 35 x 950            |
|                               | Net Weight   |                | kg (lbs)  | 6.3                       | 6.3                       | 6.3                       | 6.3                       |
| Power and Communication Cable |              |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 |

\* To use Air Purification function, Need Air Purification panel (PT-MPGW0) & Air Purficiation kit (PTAHMP0) & Wired remote (PREMTB100) / All optional

\*\* Connecting socket will be provided with indoor unit in same box.

| OUTDOOR UNIT          |                            |              |           | ZUAA1 ZTUQ18GPLE0 | ZUAB1             | ZUAC1 ZTUQ30GNLE0 | ZUAC1 ZTUQ36GNLE0 |
|-----------------------|----------------------------|--------------|-----------|-------------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz     |           | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            |                            | W x H x D    | mm        | 717 x 483 x 230   | 770 x 545 x 288   | 870 x 650 x 330   | 870 x 650 x 330   |
| Net Weight            |                            |              | kg        | 24.2              | 30.9              | 41.5              | 41.5              |
| Compressor            | Type                       | -            |           | Twin Rotary       | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 | -            |           | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               | W x No.      |           | 900 x 1           | 1,500 x 1         | 1,500 x 1         | 1,500 x 1         |
| Refrigerant           | Type                       | -            |           | R32               | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     | m            |           | 15                | 15                | 15                | 15                |
|                       | Additional Charging Volume | g/m          |           | 15                | 30                | 30                | 30                |
| Fan                   | Type                       | -            |           | Axial Fan         | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No. |           | 28 x 1            | 50 x 1            | 50 x 1            | 50 x 1            |
| Fan Motor             | Type                       |              |           | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Output                     | W x No.      |           | 43.0 x 1          | 43.0 x 1          | 85.0 x 1          | 85.0 x 1          |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)     | 47                | 47                | 53                | 53                |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch)  | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.   | mm(inch)  | Ø9.52 (3/8)       | Ø12.7 (1/2)       | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         | Min. / Max.                |              | m         | 5 / 30            | 5 / 30            | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m         | 15                | 20                | 30                | 30                |
| Wiring Connections    |                            |              | mm² x No. | 2.5 x 3C          | 2.5 x 3C          | 2.5 x 3C          | 2.5 x 3C          |

[All data are based on the following conditions]

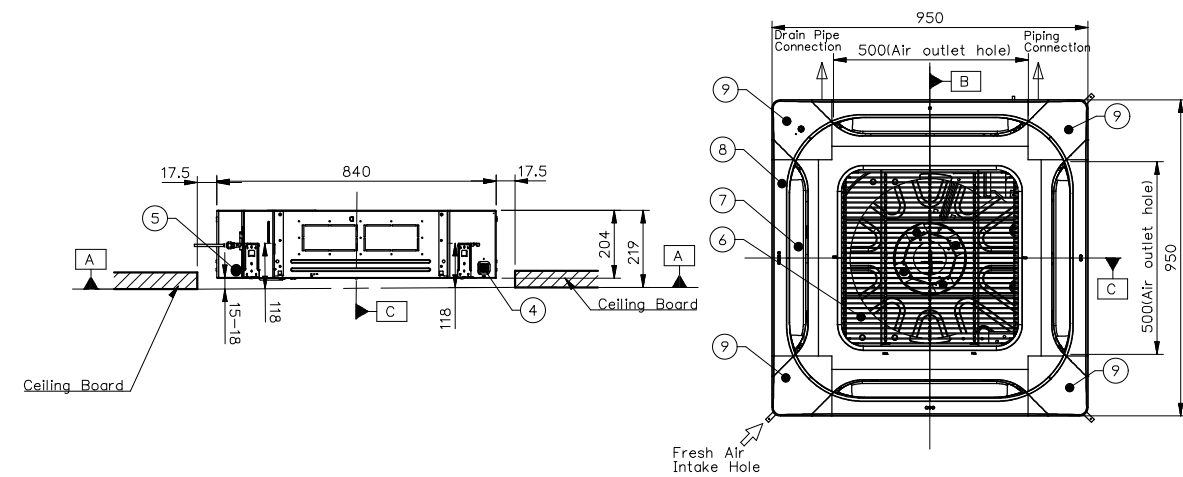
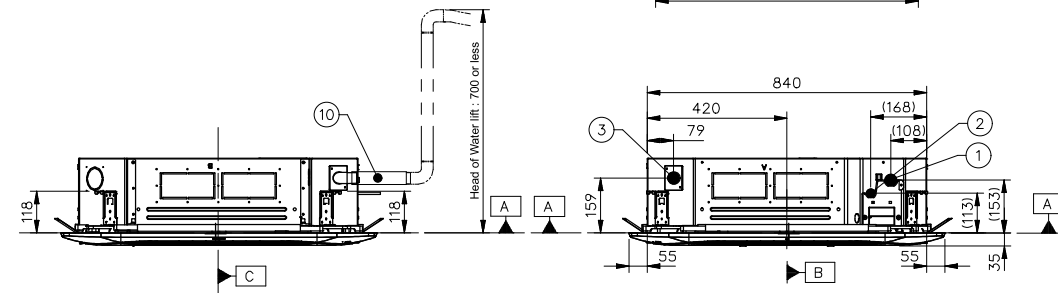
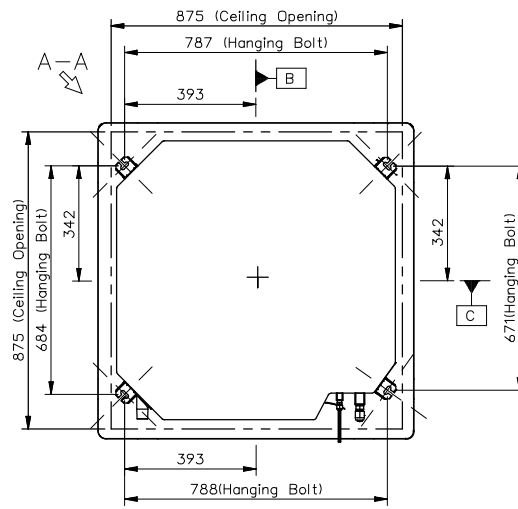
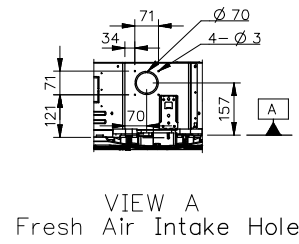
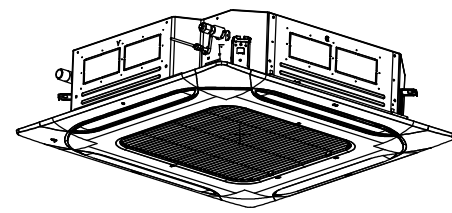
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

※ Wiring cable size must comply with the applicable local and national codes.

[STANDARD] ZTNQ18GPLA0 / ZTNQ24GPLA0  
[ENTRY] ZTNQ18GPLE0

(Unit : mm)

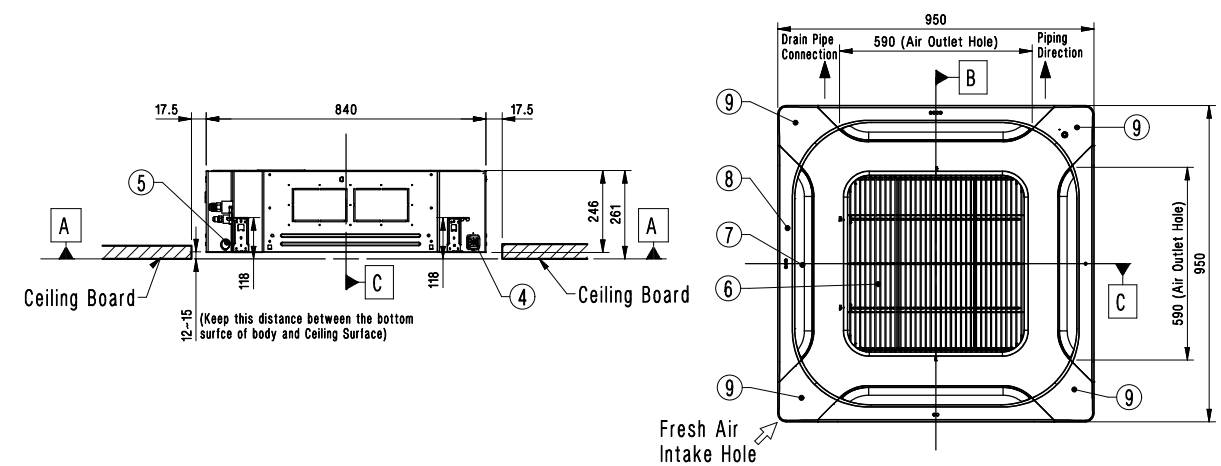
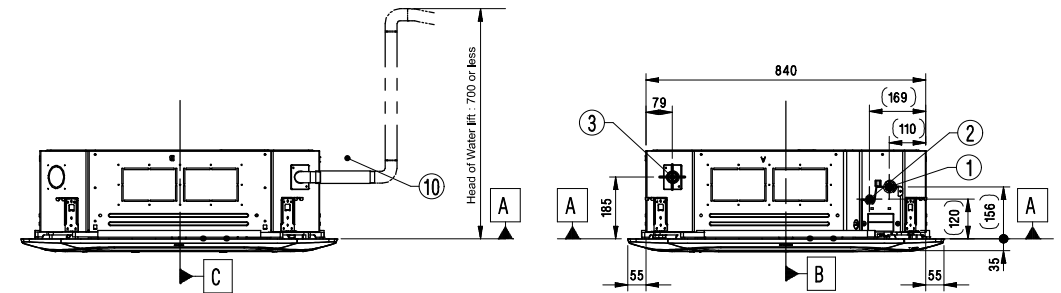
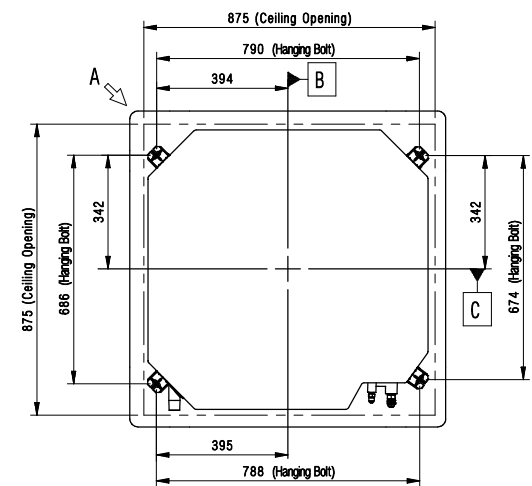
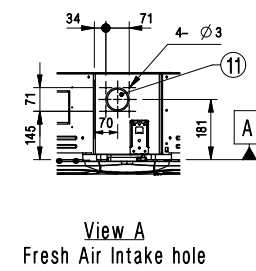
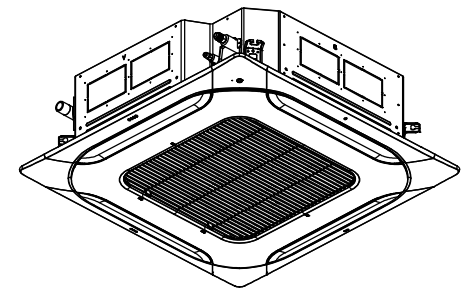
|    | PART NAME                                       |
|----|-------------------------------------------------|
| 1  | Gas Pipe Connection                             |
| 2  | Liquid Pipe Connection                          |
| 3  | Drain Pipe Connection                           |
| 4  | Power and Communication Cable Wire Routing Hole |
| 5  | Wired Remote Controller Wire Routing Hole       |
| 6  | Air Inlet                                       |
| 7  | Air Outlet                                      |
| 8  | Decoration Panel (Accessory)                    |
| 9  | Decoration Corner Cover                         |
| 10 | Flexible Drain Hose                             |
| 11 | Fresh air Intake Hole                           |



[STANDARD] ZTNQ36GNLA0 / ZTNQ36LNLA0  
[ENTRY] ZTNQ24GNLE0 / ZTNQ30GNLE0 / ZTNQ36GNLE0

(Unit : mm)

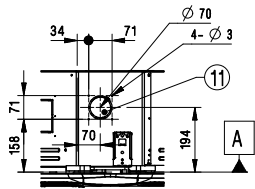
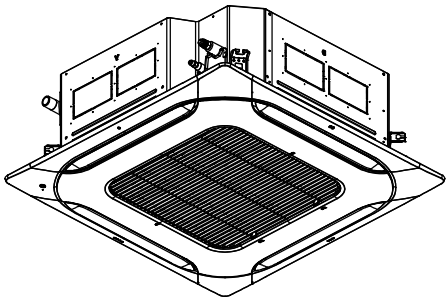
|    | PART NAME                                       |
|----|-------------------------------------------------|
| 1  | Gas Pipe Connection                             |
| 2  | Liquid Pipe Connection                          |
| 3  | Drain Pipe Connection                           |
| 4  | Power and Communication Cable Wire Routing Hole |
| 5  | Wired Remote Controller Wire Routing Hole       |
| 6  | Air Inlet                                       |
| 7  | Air Outlet                                      |
| 8  | Decoration Panel (Accessory)                    |
| 9  | Decoration Corner Cover                         |
| 10 | Flexible Drain Hose                             |
| 11 | Fresh air Intake Hole                           |



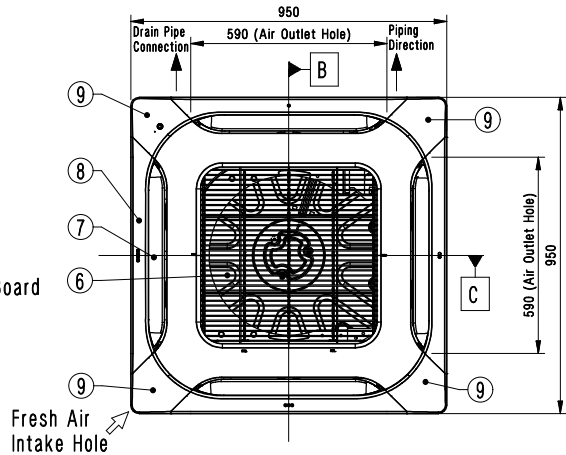
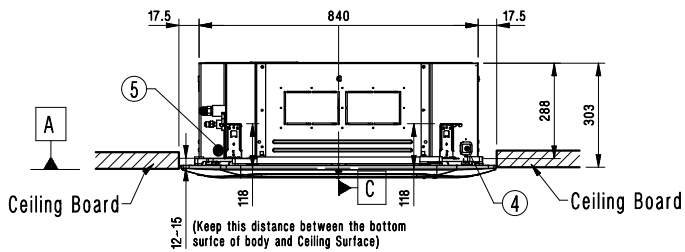
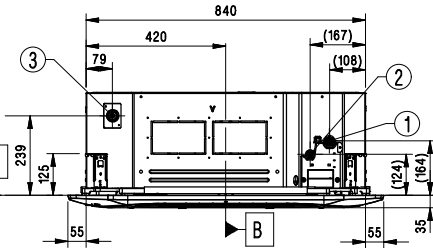
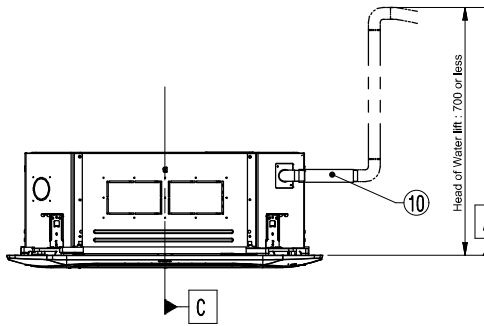
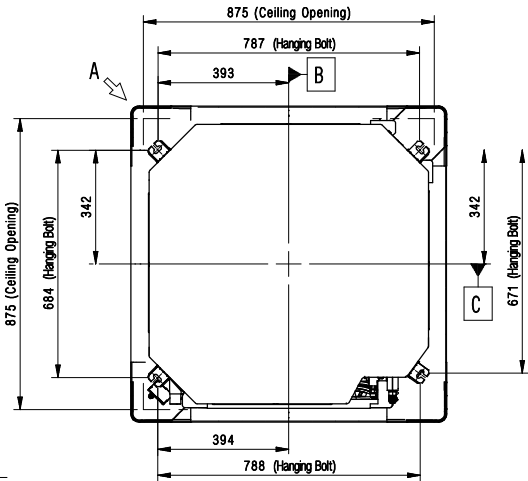
[STANDARD] ZTNQ48GMLA0 / ZTNQ48LMLA0 / ZTNQ60GMLA0

(Unit : mm)

|    | PART NAME                                       |
|----|-------------------------------------------------|
| 1  | Gas Pipe Connection                             |
| 2  | Liquid Pipe Connection                          |
| 3  | Drain Pipe Connection                           |
| 4  | Power and Communication Cable Wire Routing Hole |
| 5  | Wired Remote Controller Wire Routing Hole       |
| 6  | Air Inlet                                       |
| 7  | Air Outlet                                      |
| 8  | Decoration Panel (Accessory)                    |
| 9  | Decoration Corner Cover                         |
| 10 | Flexible Drain Hose                             |
| 11 | Fresh air Intake Hole                           |



View A  
Fresh Air Intake hole



# CEILING MOUNTED CASSETTE 1 WAY



## Reddot Award Winning Design

Compact and Round shaped Panel brings excellent fit to ceiling.

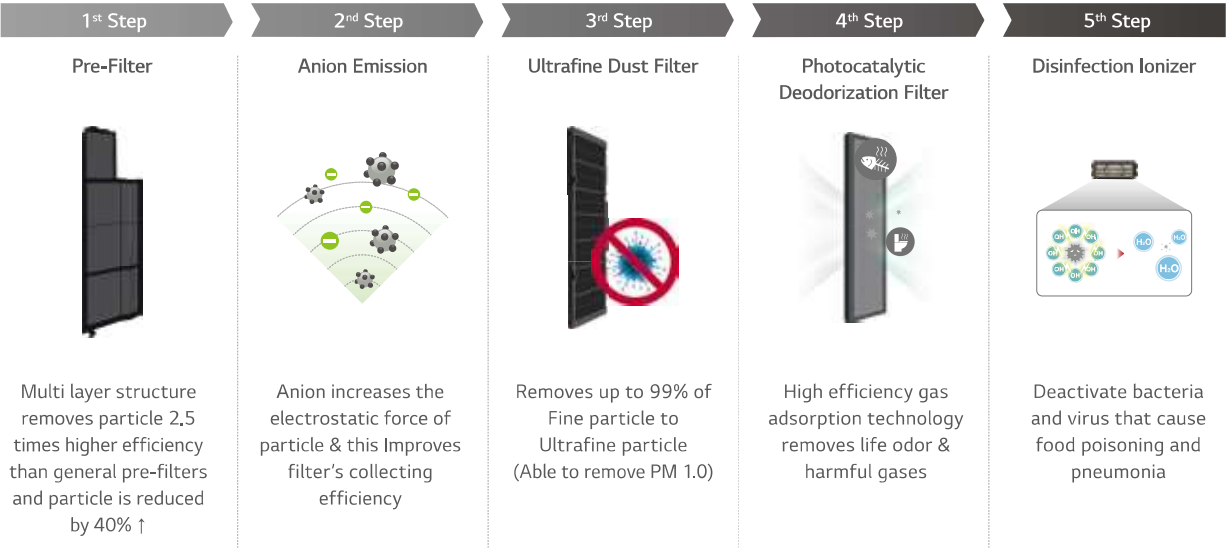


reddot award winner



## Air Conditioner and Air Purifier in One

5-Steps air cleaning process removes invisible, Ultrafine dust, odor and germs to ensure a clean and healthy living environment.



\* To use Air purification function, must use applicable Panel (PT-UPHG0 or PT-TPHG0) with Air purification kit (PTAHTP0)

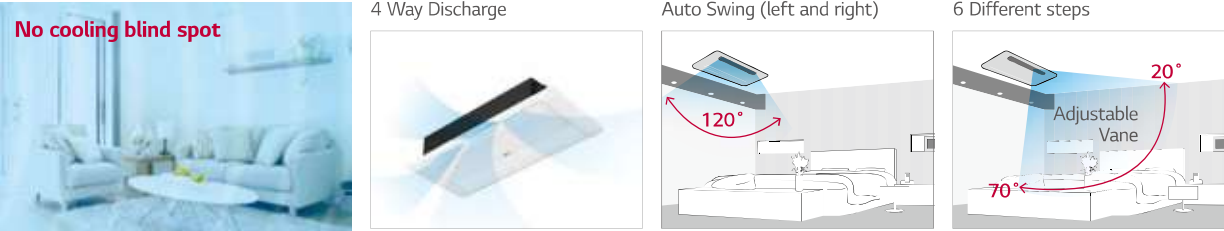
CEILING MOUNTED CASSETTE 1 WAY

Comfort Air

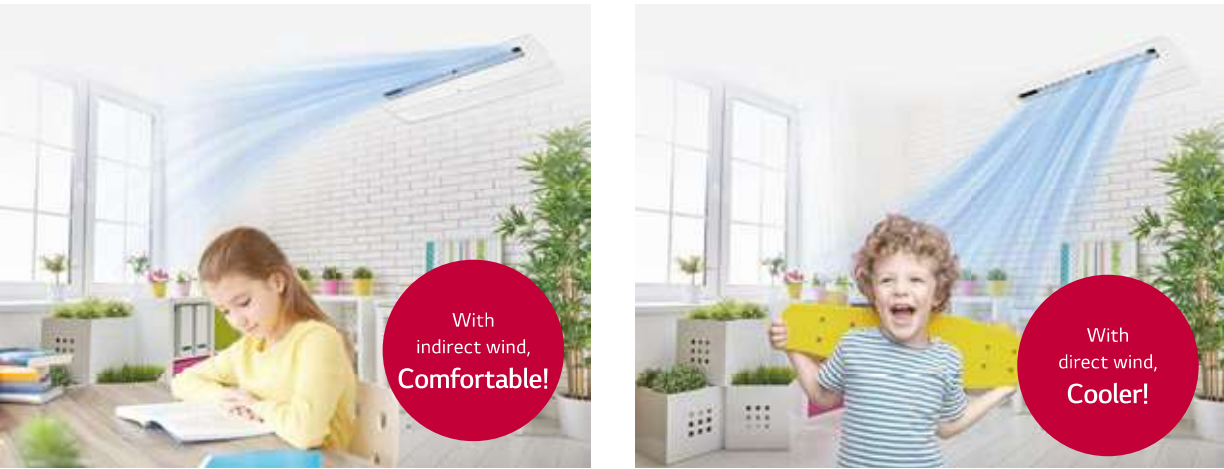
Two vane angles can be controlled in 6 steps from 20° to 70°, depending on the indoor environment and personal preference.

Automatic 4 Way Wind Direction

The wind is discharged evenly up, down, left, and right automatically, so there is no cooling blind spot.



Direct & Indirect Wind



Comfort indirect wind

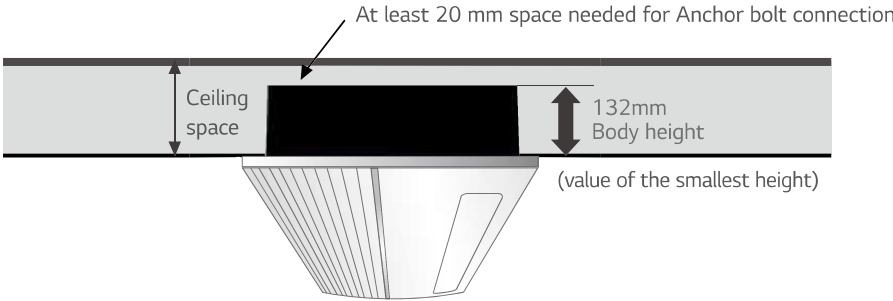
Without blowing directly at people in the room, the space is comfortable!

Cool direct wind

Cooler on a hot day.

Slim & Compact Indoor Unit

Slim indoor provides flexibility of installation in the narrow ceiling space.



Standard series



| SET CONDITION    |          |                   | 12K                     | 18K                     | 24K                     |
|------------------|----------|-------------------|-------------------------|-------------------------|-------------------------|
| Power Supply     | V, Ø, Hz |                   | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60       |
| Cooling Capacity | Btu/h    | Max / Rated / Min | 12,290 / 10,500 / 4,680 | 19,460 / 18,000 / 7,000 | 25,940 / 22,000 / 6,760 |
|                  | kW       | Max / Rated / Min | 3.60 / 3.08 / 1.37      | 5.70 / 5.27 / 2.05      | 7.6 / 6.45 / 1.98       |
| Power Input      | Rated    | kW                | 0.87                    | 1.64                    | 2.19                    |
| Running Current  | Rated    | A                 | 3.95                    | 7.5                     | 10                      |
| EER              | w/w      |                   | 3.54                    | 3.22                    | 2.94                    |

| INDOOR UNIT                   |              |                |           | ZTNQ12GULA0         | ZTNQ18GTLA0            | ZTNQ24GTLA0            |
|-------------------------------|--------------|----------------|-----------|---------------------|------------------------|------------------------|
| Power Supply                  |              | V, Ø, Hz       |           | 220-240, 1, 50/60   | 220-240, 1, 50/60      | 220-240, 1, 50/60      |
| Dimensions                    | Body         | W x H x D      | mm        | 860 x 132 x 450     | 1,180 x 132 x 450      | 1,180 x 132 x 450      |
|                               | Shipping     | W x H x D      | mm        | 1,125 x 252 x 538   | 1,445 x 252 x 538      | 1,445 x 252 x 538      |
| Weight                        | Body         |                | kg        | 11.7                | 14.5                   | 14.5                   |
|                               | Shipping     |                | kg        | 14.4                | 17.9                   | 17.9                   |
| Fan Type                      |              |                |           | Cross Flow Fan      | Cross Flow Fan         | Cross Flow Fan         |
| Air Flow Rate                 |              | SH / H / M / L | m³/min    | - / 9.0 / 8.0 / 7.0 | - / 16.0 / 14.0 / 12.0 | - / 16.0 / 14.0 / 12.0 |
| Fan Motor                     | Type         |                |           | BLDC                | BLDC                   | BLDC                   |
|                               | Output       | W x No.        |           | 30 x 1              | 30 x 1                 | 30 x 1                 |
| Sound Pressure Level          | Cooling      | SH / H / M / L | dB(A)     | - / 37 / 36 / 33    | - / 46 / 43 / 39       | - / 46 / 43 / 39       |
| Piping Connections            | Liquid Side  |                | mm(inch)  | Ø6.35 (1/4)         | Ø6.35 (1/4)            | Ø9.52 (3/8)            |
|                               | Gas Side     |                | mm(inch)  | Ø9.52 (3/8)         | Ø12.7 (1/2)            | Ø15.88 (5/8)           |
|                               | Drain Pipe   | (O.D. / I.D.)  | mm        | Ø32.0 / Ø25.0       | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          |
| Decoration Panel*             | Model Name   |                |           | PT-UAHG0            | PT-TAHG0               | PT-TAHG0               |
|                               | Casing Color |                |           | White               | White                  | White                  |
|                               | Dimensions   | W x H x D      | mm        | 1,160 x 34 x 500    | 1,480 x 34 x 500       | 1,480 x 34 x 500       |
|                               | Net Weight   |                | kg (lbs)  | 3.9                 | 4.8                    | 4.8                    |
| Power and Communication Cable |              |                | mm² x No. | 0.75 x 4C           | 0.75 x 4C              | 0.75 x 4C              |

\* To use Air Purification function, Need Air Purification panel (PT-UPHG0, PT-TPHG0) & Air Purficiation kit (PTAHTP0) & Wired remote (PREMTB100) / All optional

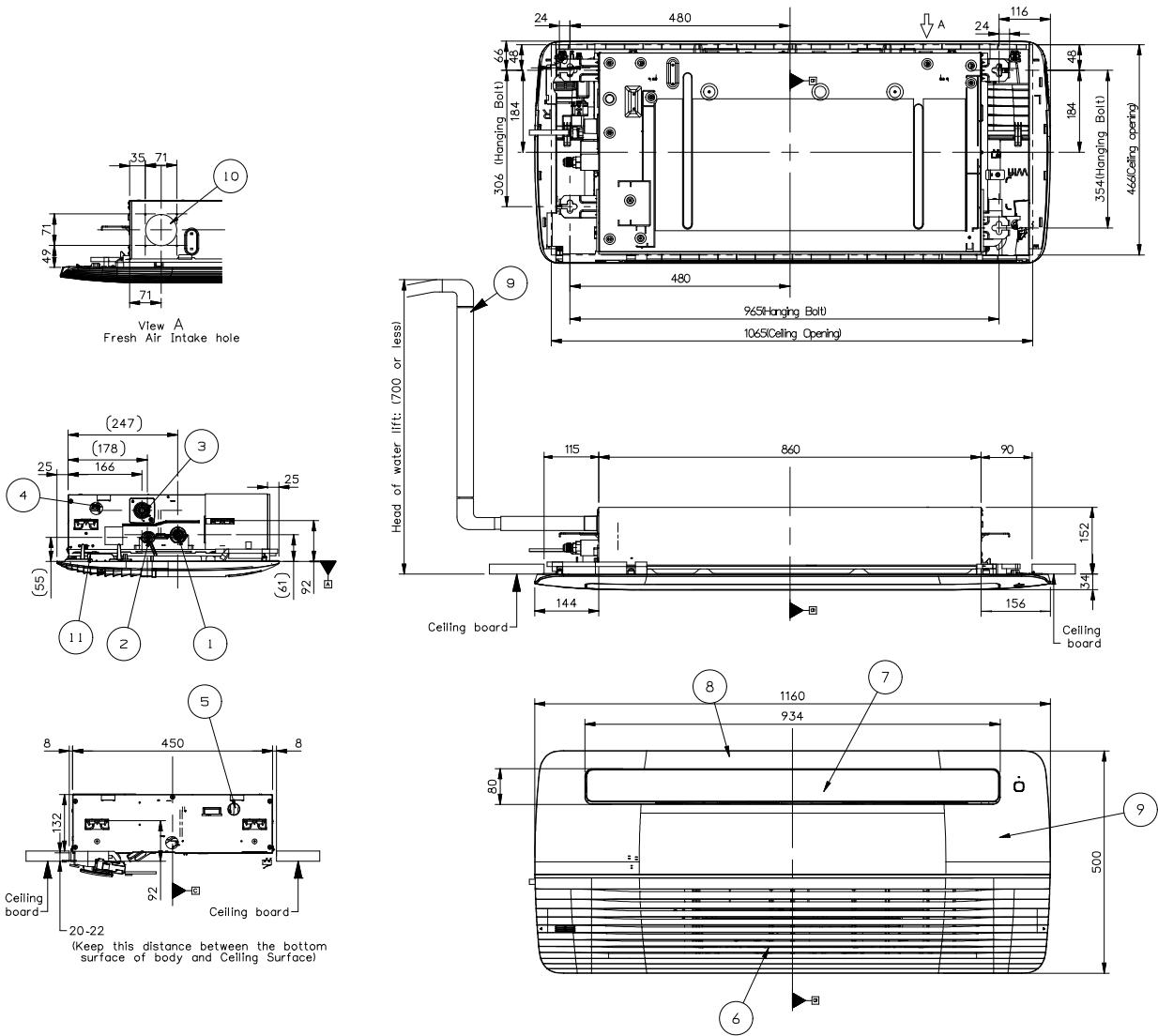
| OUTDOOR UNIT          |                            |              |          | ZUAA1 ZTUQ12GULA0 | ZUAB1 ZTUQ18GTLA0 | ZUAC1 ZTUQ24GTLA0 |
|-----------------------|----------------------------|--------------|----------|-------------------|-------------------|-------------------|
| Power Supply          | V, Ø, Hz                   |              |          | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            | W x H x D                  |              |          | 717 x 483 x 230   | 770 x 545 x 288   | 870 x 650 x 330   |
| Net Weight            | kg                         |              |          | 24.2              | 30.9              | 41.5              |
| Compressor            | Type                       | -            |          | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 | -            |          | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               | W x No.      |          | 900 x 1           | 1,500 x 1         | 1,500 x 1         |
| Refrigerant           | Type                       | -            |          | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     | m            |          | 15                | 15                | 15                |
|                       | Additional Charging Volume | g/m          |          | 15                | 15                | 30                |
| Fan                   | Type                       | -            |          | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No. |          | 28 x 1            | 50 x 1            | 50 x 1            |
| Fan Motor             | Type                       |              |          | BLDC              | BLDC              | BLDC              |
|                       | Output                     | W x No.      |          | 43.0 x 1          | 43.0 x 1          | 85.0 x 1          |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)    | 47                | 47                | 53                |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch) | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.   | mm(inch) | Ø9.52 (3/8)       | Ø12.7 (1/2)       | Ø15.88 (5/8)      |
| Piping Length         | Min. / Max.                |              | m        | 5 / 30            | 5 / 30            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m        | 15                | 20                | 30                |
| Wiring Connections    |                            |              |          | mm² x No.         | 2.5 x 3C          | 2.5 x 3C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

[STANDARD] ZTNQ12GULA0

(Unit : mm)

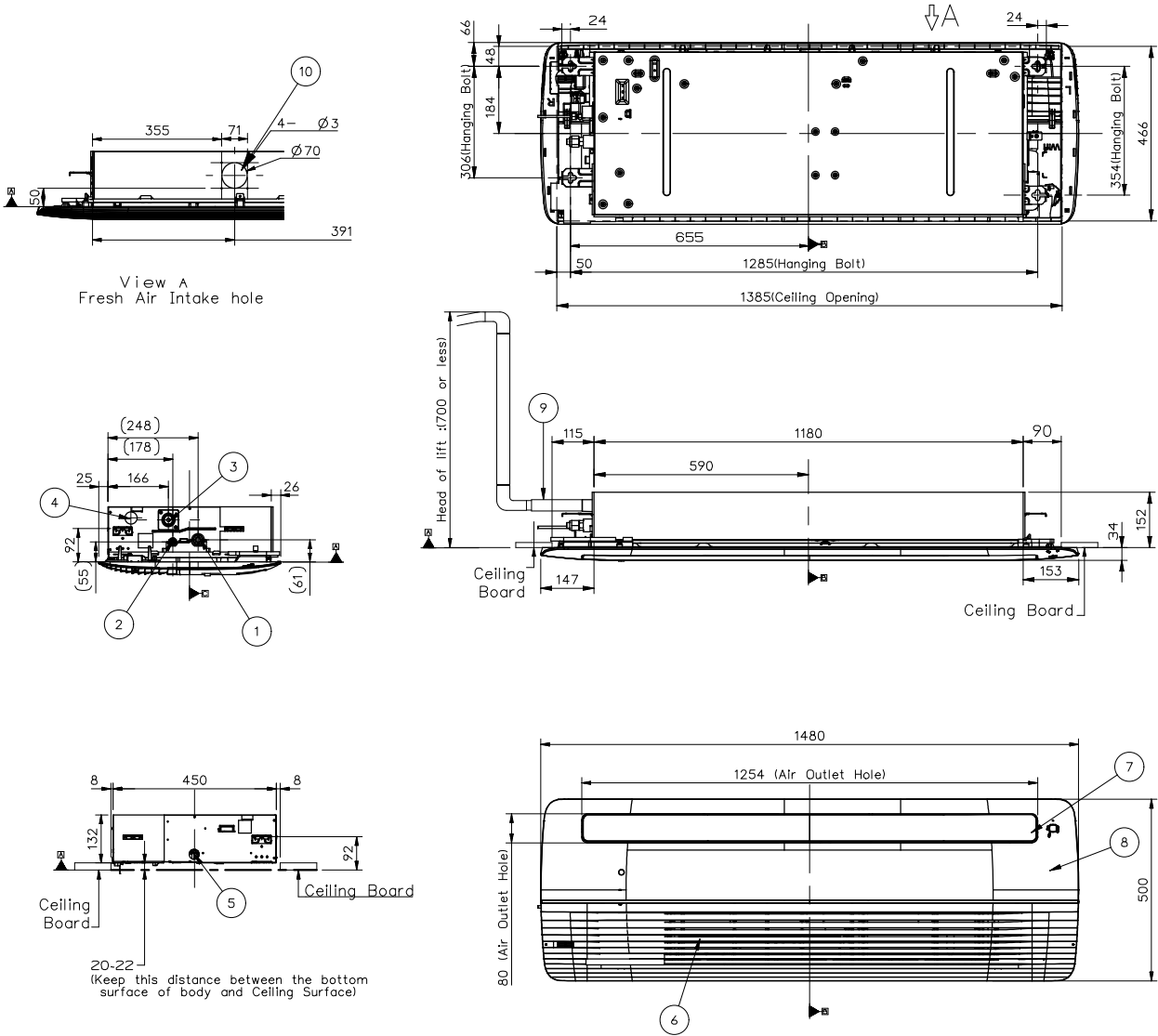
|    | PART NAME                                  |
|----|--------------------------------------------|
| 1  | Gas Pipe Connection                        |
| 2  | Liquid Pipe Connection                     |
| 3  | Drain Pipe Connection                      |
| 4  | Power and Communication Cable Routing Hole |
| 5  | Wired Remote Controller Wire Routing Hole  |
| 6  | Air Inlet                                  |
| 7  | Air Outlet                                 |
| 8  | Decoration Panel (Accessory)               |
| 9  | Flexible Drain Hose                        |
| 10 | Fresh air Intake Hole                      |
| 11 | Air Purifier Kit                           |



[STANDARD] ZTNQ18GTLA0 / ZTNQ24GTLA0

(Unit : mm)

|    | PART NAME                                       |
|----|-------------------------------------------------|
| 1  | Gas Pipe Connection                             |
| 2  | Liquid Pipe Connection                          |
| 3  | Drain Pipe Connection                           |
| 4  | Power and Communication Cable Wire Routing Hole |
| 5  | Wired Remote Controller Wire Routing Hole       |
| 6  | Air Inlet                                       |
| 7  | Air Outlet                                      |
| 8  | Decoration Panel (Accessory)                    |
| 9  | Flexible Drain Hose                             |
| 10 | Fresh air Intake Hole                           |

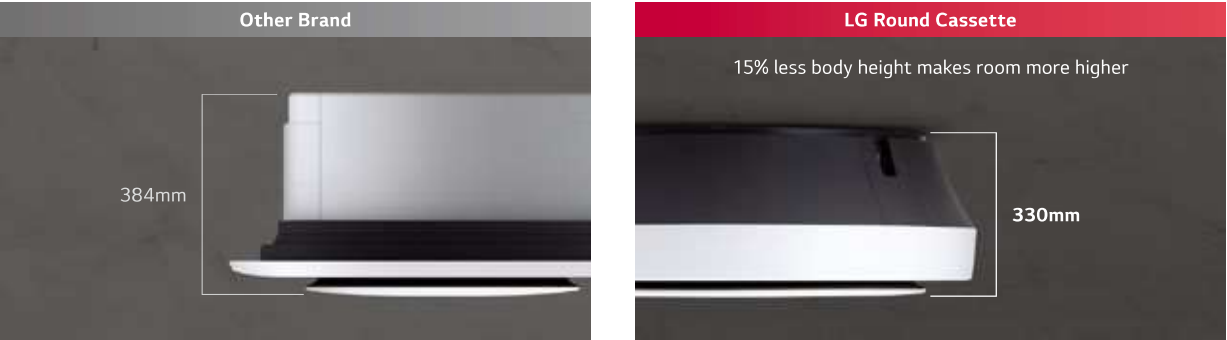


# ROUND CASSETTE



## Slim and Compact Design

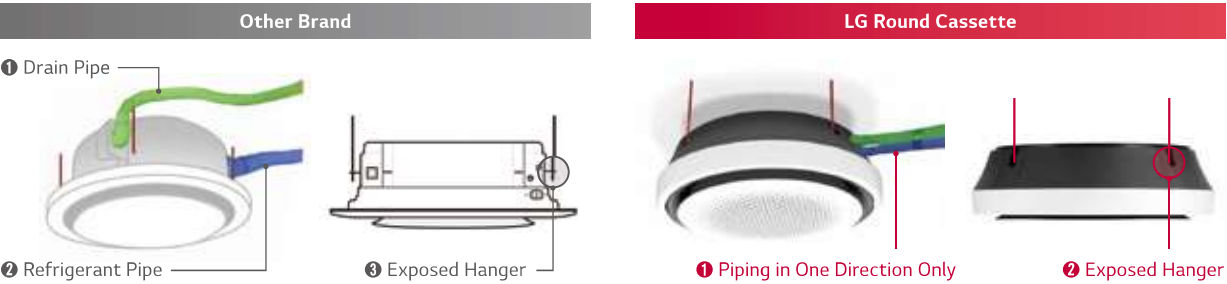
The LG Round Cassette's compact design makes the space look more spacious and secure.



※ Product : 36kBtu / 47kBtu

## Minimal Exposure Design

LG Round Cassette hides clunky parts into a smooth surface to provide harmony and aesthetic.



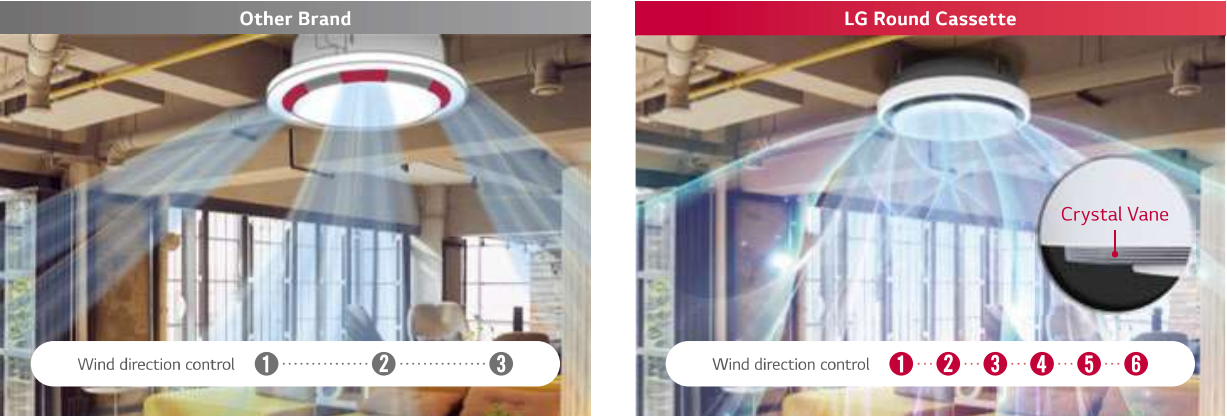


This air conditioning impresses with a sophisticated design and application concept that combines modern technology with a user-friendly operating comfort.

※ Red Dot Design Award : World's three major international design competitions, German Design Association (2019)  
PIN UP Design Award : Korea Industrial Designers Association (Ministry of Trade, Industry and Energy) (2018)

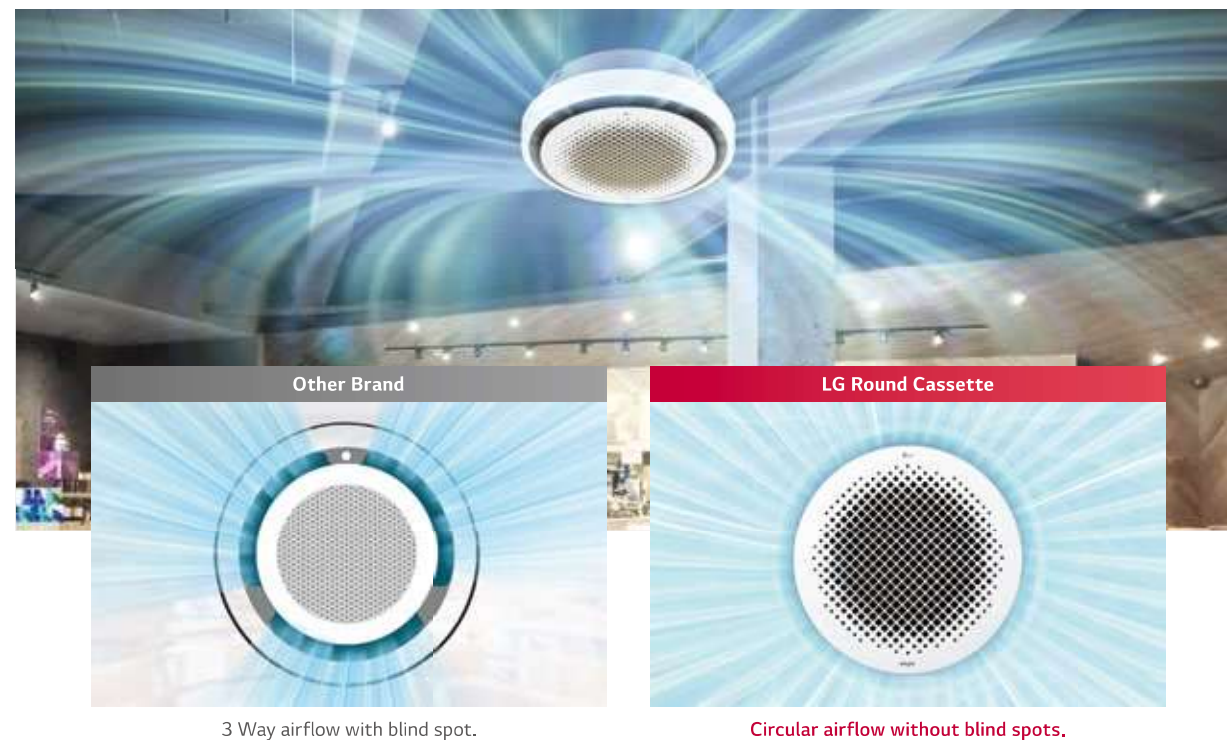
## 6-Step Vane Control

Crystal vane allows for 6-step precision control for cool and warm airflow in every direction.



## Round Airflow

Round airflow without blind spots and 4 vanes can be controlled individually.



## Quiet Operation

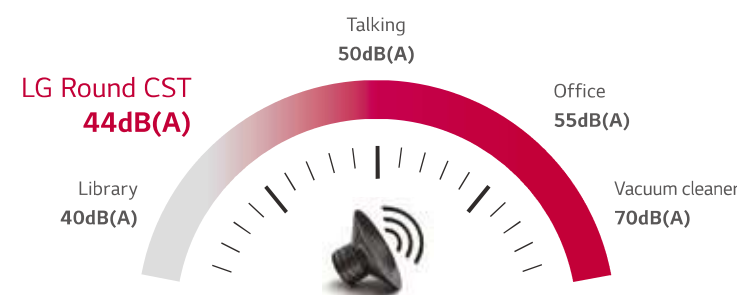
LG Round cassette makes the space quieter.

### Sound Pressure



Library  
Noise level 40dB(A)

Normal communication  
Noise level 50dB(A)



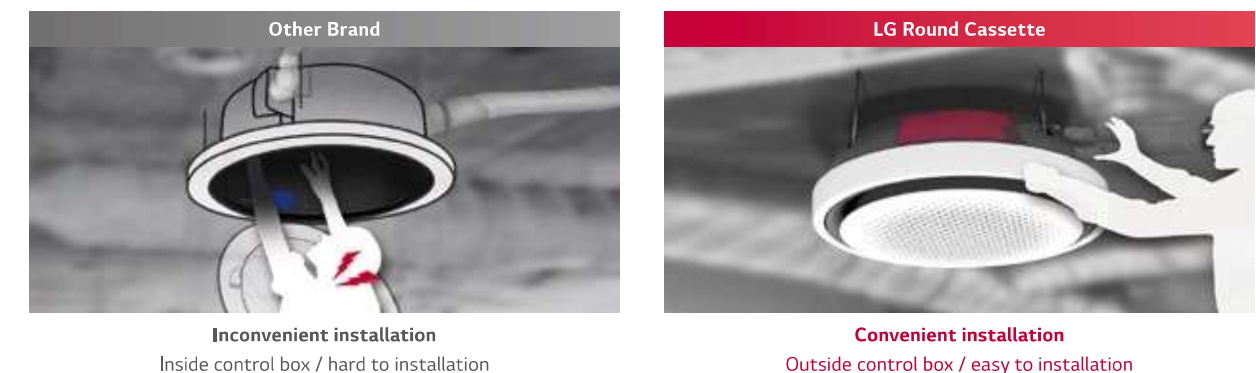
## Faster in Cooling

Larger airflow rate, cooling rate is 30% faster the competition.



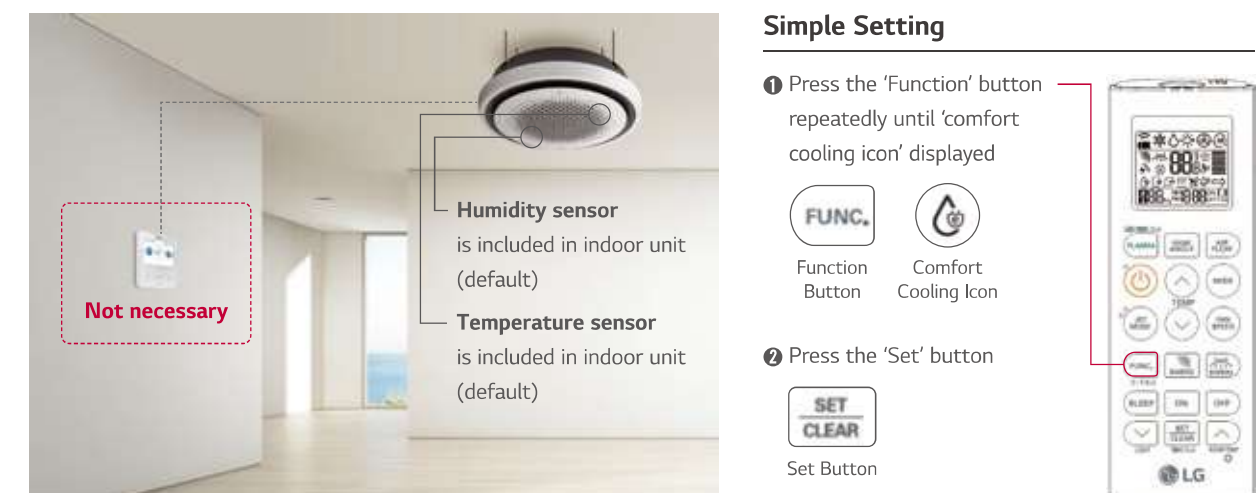
## Outside Control Box

The control box is located on the side for comfortable wiring and installation.



## Embedded Humidity Sensor

Humidity sensor is included as standard, so comfort cooling function is possible without separate wired remote controller.



### Simple Setting

- Press the 'Function' button repeatedly until 'comfort cooling icon' displayed



- Press the 'Set' button



Air Purification Kit & Panel

Air purification function purify indoor air by 3 phase filter. And each filter can be reused just by washing without replacement. Also, it is easy to check air quality status with several devices.

How It Works

Air Purification Kit

Air Purification Panel

Step 4 | Deodorization filter

Step 3 | PM1.0 filter

Step 2 | Dust Electrification

Step 1 | Pre-filter

High efficiency gas adsorption technology removes life odor & harmful gases

Removes up to 99% of fine particle to ultrafine particle (Able to remove PM 1.0)

Anion increases the electrostatic force of particle & this improves filter's collecting efficiency

Multi layer structure removes particle 2.5 times higher efficiency than general pre-filters and particle is reduced by 40% ↑

Air purifying kit does **no need replacement** and can be used **semi-permanently**.

※ Air purification kit is optional. Electrical diffusion makes dust electrification.

※ Normally HEPA filter type must be replaced regularly. It means that it costs expensive for maintenance.

Certified Air Purifying Performance



Indoor Air Cleaning  
Removed 99.9% of ultra-fine dusts  
(size 50nm, 100nm)

Smart Indicator

It is possible to monitor the indoor air quality via remote controller, IDU's LED or remotely using a Wi-Fi module through Smart phone.

01. IDU LED

02. Remote controller

03. Mobile

04. Central controller

Good

Moderate

Unhealthy

Poor

※ Air Quality Index Table (LG Standard)

| Classification | Good   | Moderate | Unhealthy | Poor  |
|----------------|--------|----------|-----------|-------|
| PM10 (µg/m³)   | 0 ~ 54 | 55 ~ 154 | 155 ~ 254 | 255 ~ |
| PM2.5 (µg/m³)  | 0 ~ 12 | 13 ~ 35  | 36 ~ 55   | 56 ~  |
| PM1.0 (µg/m³)  | 0 ~ 12 | 13 ~ 35  | 36 ~ 55   | 56 ~  |

Standard series



| SET CONDITION    |       |                   | 36K                      | 47K                      |
|------------------|-------|-------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60        | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 40,000 / 36,000 / 12,980 | 48,950 / 46,500 / 13,800 |
|                  | kW    | Max / Rated / Min | 11.71 / 10.54 / 3.8      | 14.33 / 13.61 / 4.05     |
| Power Input      | Rated | kW                | 3.09                     | 4.75                     |
| Running Current  | Rated | A                 | 14.1                     | 21.6                     |
| EER              |       | w/w               | 3.41                     | 2.87                     |

| INDOOR UNIT                   |             |                |          | ZTNQ36GYLA0               | ZTNQ48GYLA0               |
|-------------------------------|-------------|----------------|----------|---------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |          | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm       | 1,050 x 330 x 1,050       | 1,050 x 330 x 1,050       |
|                               | Shipping    | W x H x D      | mm       | 1,137 x 395 x 1,132       | 1,137 x 395 x 1,132       |
| Weight                        | Body        | kg             |          | 30.0                      | 30.0                      |
|                               | Shipping    | kg             |          | 38.6                      | 38.6                      |
| Fan Type                      |             |                |          | 3D Turbo Fan              | 3D Turbo Fan              |
| Air Flow Rate                 |             | SH / H / M / L | m³/min   | - / 25.0 / 21.0 / 19.0    | - / 29.0 / 25.0 / 21.0    |
| Fan Motor                     | Type        |                |          | BLDC                      | BLDC                      |
|                               | Output      | W x No.        |          | 136 x 1                   | 136 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)    | - / 44 / 40 / 38          | - / 47 / 44 / 40          |
|                               | Liquid Side |                | mm(inch) | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
| Piping Connections            | Gas Side    |                | mm(inch) | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm       | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
| Power and Communication Cable |             | mm² x No.      |          | 0.75 x 4C                 | 0.75 x 4C                 |

\* To use Air Purification function, Need Air Purification kit (PTAHYP0) & Wired remote (PREMTB100) / All optional

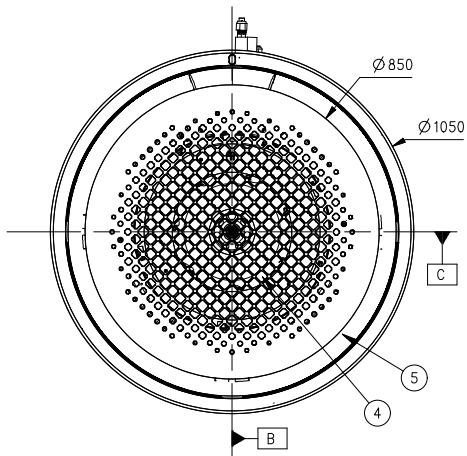
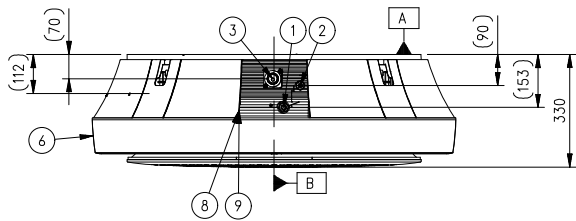
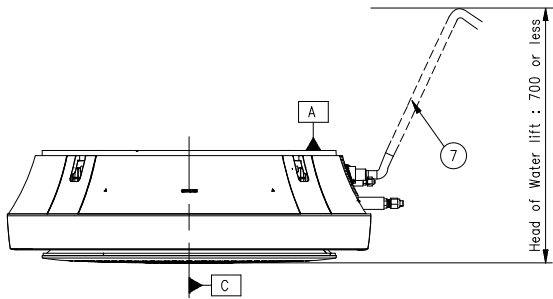
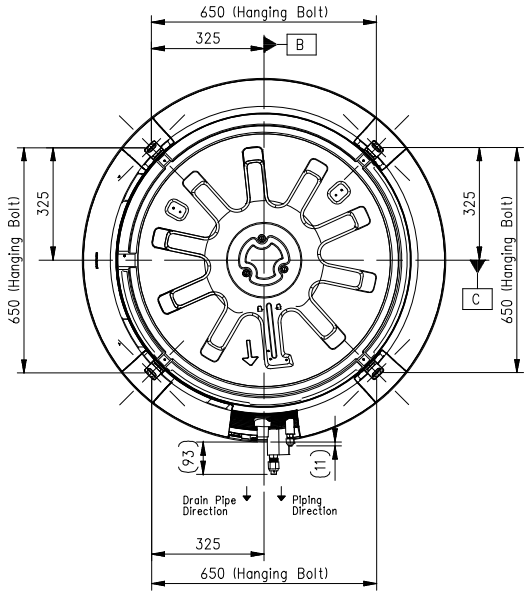
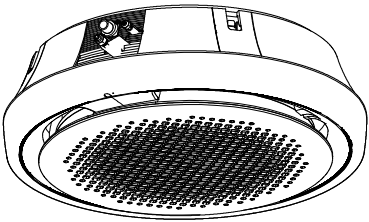
| OUTDOOR UNIT          |                            |              |          | ZUAD1 ZTUQ36GYLA0 | ZUAD1 ZTUQ48GYLA0 |
|-----------------------|----------------------------|--------------|----------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz     |          | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            |                            | W x H x D    | mm       | 950 x 834 x 330   | 950 x 834 x 330   |
| Net Weight            |                            | kg           |          | 59.5              | 59.5              |
| Compressor            | Type                       |              | -        | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |              | -        | BLDC              | BLDC              |
|                       | Motor Output               | W x No.      |          | 4,000 x 1         | 4,000 x 1         |
| Refrigerant           | Type                       |              | -        | R32               | R32               |
|                       | Chargeless-Pipe Length     | m            |          | 15                | 15                |
|                       | Additional Charging Volume | g/m          |          | 30                | 30                |
| Fan                   | Type                       |              | -        | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No. |          | 60 X 1            | 60 X 1            |
| Fan Motor             | Type                       |              |          | BLDC              | BLDC              |
|                       | Output                     | W x No.      |          | 124.0 X 1         | 124.0 X 1         |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)    | 55                | 55                |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch) | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.   | mm(inch) | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max.  | m        | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m        | 30                | 30                |
| Wiring Connections    |                            | mm² x No.    |          | 4.0 x 3C          | 4.0 x 3C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

[STANDARD] ZTNQ36GYLA0 / ZTNQ48GYLA0

(Unit : mm)

|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Gas Pipe Connection                        |
| 2 | Liquid Pipe Connection                     |
| 3 | Drain Pipe Connection                      |
| 4 | Air Inlet                                  |
| 5 | Air Outlet                                 |
| 6 | Decor Panel Assembly                       |
| 7 | Flexible Drain Hose                        |
| 8 | Power and Communication Cable Routing Hole |
| 9 | Wired Remote Controller Wire Routing Hole  |



# FLOOR STANDING



FLOOR STANDING FEATURES

## Stylish Design

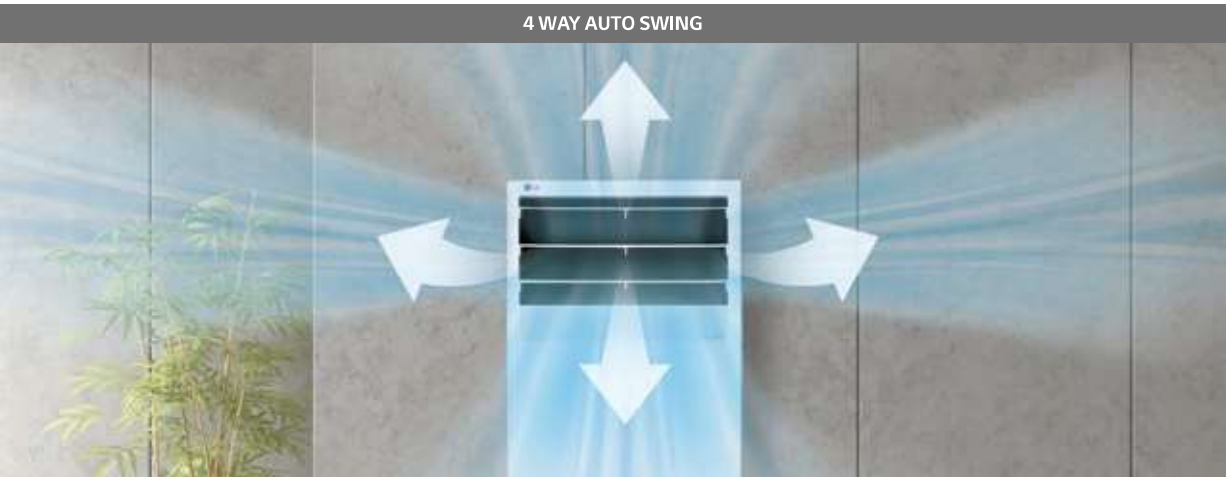
The new LG floor standing air conditioner is ideal for modern interiors in your office or restaurant.



# FLOOR STANDING

## Powerful Air flow

The new LG floor standing air conditioner is efficient for using in large areas due to its powerful cooling operation. The powerful air speed and volume means the air flow can reach up to 20 m away from the air conditioner.



Excellent Cooling Performance

Power cooling function provides the optimal air flow angle, guaranteeing a faster and higher cooling performance.

Easy Power Cooling Mode



Operates 18°C & Super High Fan Speed

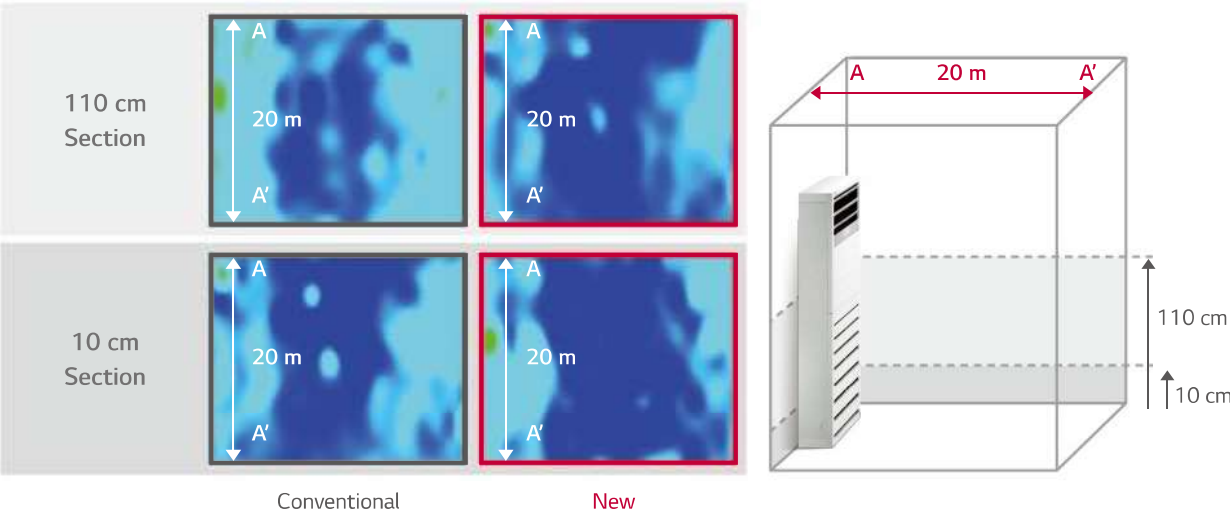
ONE CLICK!

**Power Cooling Mode for Floor Standing**

In power cooling mode, desired temperature is set to 18°C and the horizontal louver is fixed at the highest position.

※ Actual product appearance may differ from the above simulated scene.

Powerful & Even Air Distribution



※ Indoor : 33°C → 24°C / Outdoor : 46°C

Standard series



| SET CONDITION    |       |                   |  | 24K                     | 36K                      |
|------------------|-------|-------------------|--|-------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          |  | 220-240, 1, 50/60       | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min |  | 27,000 / 24,000 / 7,200 | 40,000 / 36,000 / 10,800 |
|                  | kW    | Max / Rated / Min |  | 7.91 / 7.03 / 2.11      | 11.71 / 10.54 / 3.15     |
| Power Input      | Rated | kW                |  | 2.22                    | 3.51                     |
| Running Current  | Rated | A                 |  | 10.1                    | 16.0                     |
| EER              |       | w/w               |  | 3.17                    | 3.01                     |

| INDOOR UNIT                   |             |                |        | ZPNQ24GS1A0            | ZPNQ36GR5A0               |
|-------------------------------|-------------|----------------|--------|------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |        | 220-240, 1, 50/60      | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm     | 530 x 1,800 x 295      | 590 x 1,840 x 300         |
|                               | Shipping    | W x H x D      | mm     | 596 x 1,853 x 383      | 680 x 1,925 x 395         |
| Weight                        | Body        | kg             |        | 25.3                   | 36                        |
|                               | Shipping    | kg             |        | 31.6                   | 43                        |
| Fan Type                      |             |                |        | Turbo Fan              | Turbo Fan                 |
| Air Flow Rate                 |             | SH / H / M / L | m³/min | 15.0 / 12.0 / - / 10.0 | 23.5 / 19.0 / 17.0 / 14.0 |
| Fan Motor                     | Type        |                |        | BLDC                   | BLDC                      |
|                               | Output      | W x No.        |        | 104 x 1                | 104 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)  | 45 / 43 / - / 41       | 52 / 47 / 44 / 41         |
|                               | Liquid Side | mm(inch)       |        | Ø9.52 (3/8)            | Ø9.52 (3/8)               |
| Piping Connections            | Gas Side    | mm(inch)       |        | Ø15.88 (5/8)           | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm     | Ø20, Ø17 / Ø12.2       | Ø20, Ø17 / Ø12.2          |
| Power and Communication Cable |             |                |        | 0.75 x 4C              | 0.75 x 4C                 |

| OUTDOOR UNIT          |                            |              |          | ZUAC1             | ZUAD1<br>ZPUQ36GR5A0 |
|-----------------------|----------------------------|--------------|----------|-------------------|----------------------|
| Power Supply          |                            | V, Ø, Hz     |          | 220-240, 1, 50/60 | 220-240, 1, 50/60    |
| Dimensions            |                            | W x H x D    | mm       | 870 x 650 x 330   | 950 x 834 x 330      |
| Net Weight            |                            | kg           |          | 41.5              | 59.5                 |
| Compressor            | Type                       | -            |          | Twin Rotary       | Twin Rotary          |
|                       | Motor Type                 | -            |          | BLDC              | BLDC                 |
|                       | Motor Output               | W x No.      |          | 1,500 x 1         | 4,000 x 1            |
| Refrigerant           | Type                       | -            |          | R32               | R32                  |
|                       | Chargeless-Pipe Length     | m            |          | 15                | 15                   |
|                       | Additional Charging Volume | g/m          |          | 30                | 30                   |
| Fan                   | Type                       | -            |          | Axial Fan         | Axial Fan            |
|                       | Air Flow Rate              | m³/min x No. |          | 50 x 1            | 60 X 1               |
| Fan Motor             | Type                       |              |          | BLDC              | BLDC                 |
|                       | Output                     | W x No.      |          | 85.0 x 1          | 124.0 X 1            |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)    | 53                | 55                   |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch) | Ø9.52 (3/8)       | Ø9.52 (3/8)          |
|                       | Gas                        | Outer Dia.   | mm(inch) | Ø15.88 (5/8)      | Ø15.88 (5/8)         |
| Piping Length         |                            | Min. / Max.  | m        | 5 / 50            | 5 / 50               |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m        | 30                | 30                   |
| Wiring Connections    |                            |              |          | 2.5 x 3C          | 4.0 x 3C             |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

Standard series



| SET CONDITION    |       |                   |  | 36K                      | 47K                      | 47K                      |
|------------------|-------|-------------------|--|--------------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          |  | 380-415, 3, 50/60        | 220-240, 1, 50/60        | 380-415, 3, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min |  | 40,000 / 36,000 / 10,800 | 48,950 / 46,500 / 13,800 | 48,950 / 46,500 / 13,800 |
|                  | kW    | Max / Rated / Min |  | 11.71 / 10.54 / 3.15     | 14.33 / 13.61 / 4.05     | 14.33 / 13.61 / 4.05     |
| Power Input      | Rated | kW                |  | 3.51                     | 4.81                     | 4.81                     |
| Running Current  | Rated | A                 |  | 4.9                      | 21.9                     | 6.7                      |
| EER              |       | w/w               |  | 3.01                     | 2.83                     | 2.83                     |

| INDOOR UNIT                   |             |                |          | ZPNQ36GR5A0               | ZPNQ48GT3A0               | ZPNQ48GT3A0               |
|-------------------------------|-------------|----------------|----------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |          | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm       | 590 x 1,840 x 300         | 590 x 1,840 x 440         | 590 x 1,840 x 440         |
|                               | Shipping    | W x H x D      | mm       | 680 x 1,925 x 395         | 681 x 1,927 x 521         | 681 x 1,927 x 521         |
| Weight                        | Body        |                | kg       | 36                        | 49                        | 49                        |
|                               | Shipping    |                | kg       | 43                        | 57                        | 57                        |
| Fan Type                      |             |                |          | Turbo Fan                 | Sirocco                   | Sirocco                   |
| Air Flow Rate                 |             | SH / H / M / L | m³/min   | 23.5 / 19.0 / 17.0 / 14.0 | 37.0 / 33.0 / 28.0 / 24.0 | 37.0 / 33.0 / 28.0 / 24.0 |
| Fan Motor                     | Type        |                |          | BLDC                      | BLDC                      | BLDC                      |
|                               | Output      |                | W x No.  | 104 x 1                   | 224 x 1                   | 224 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)    | 52 / 47 / 44 / 41         | - / 51 / 49 / 47          | - / 51 / 49 / 47          |
| Piping Connections            | Liquid Side |                | mm(inch) | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side    |                | mm(inch) | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm       | Ø20, Ø17 / Ø12.2          | Ø20, Ø17 / Ø12.2          | Ø20, Ø17 / Ø12.2          |
| Power and Communication Cable |             |                |          | mm² x No.                 | 0.75 x 4C                 | 0.75 x 4C                 |

| OUTDOOR UNIT          |                            |             |              | ZUAD3 ZPUQ36LR5A0 | ZUAD1 ZPUQ48GT3A0 | ZUAD3 ZPUQ48LT3A0 |
|-----------------------|----------------------------|-------------|--------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 380-415, 3, 50/60 | 220-240, 1, 50/60 | 380-415, 3, 50/60 |
| Dimensions            |                            | W x H x D   | mm           | 950 x 834 x 330   | 950 x 834 x 330   | 950 x 834 x 330   |
| Net Weight            |                            |             | kg           | 60.8              | 59.5              | 60.8              |
| Compressor            | Type                       |             | -            | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |             | -            | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               |             | W x No.      | 4,000 x 1         | 4,000 x 1         | 4,000 x 1         |
| Refrigerant           | Type                       |             | -            | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     |             | m            | 15                | 15                | 15                |
|                       | Additional Charging Volume |             | g/m          | 30                | 30                | 30                |
| Fan                   | Type                       |             | -            | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              |             | m³/min x No. | 60 x 1            | 60 X 1            | 60 x 1            |
| Fan Motor             | Type                       |             |              | BLDC              | BLDC              | BLDC              |
|                       | Output                     |             | W x No.      | 124.0 x 1         | 124.0 X 1         | 124.0 x 1         |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 55                | 55                | 55                |
| Piping Connections    | Liquid                     | Outer Dia.  | mm(inch)     | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.  | mm(inch)     | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max. | m            | 5 / 50            | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 30                | 30                | 30                |
| Wiring Connections    |                            |             |              | mm² x No.         | 2.5 x 5C          | 2.5 x 5C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

Standard series



98K

R410A

160K, 200K

R410A

| SET CONDITION    |       |                   |  | 98K                 | 160K                 | 200K                 |
|------------------|-------|-------------------|--|---------------------|----------------------|----------------------|
| Power Supply     |       | V, Ø, Hz          |  | 380-415, 3, 50/60   | 380-415, 3, 50/60    | 380-415, 3, 50/60    |
| Cooling Capacity | Btu/h | Max / Rated / Min |  | - / 98,000 / 49,000 | - / 160,000 / 64,200 | - / 200,000 / 79,900 |
|                  | kW    | Max / Rated / Min |  | - / 28.7 / 14.3     | - / 46.9 / 18.8      | - / 58.6 / 23.4      |
| Power Input      | Rated | kW                |  | 11.5                | 16.1                 | 21                   |
| Running Current  | Rated | A                 |  | 19.5                | 22                   | 28.2                 |
| EER              |       | w/w               |  | 2.50                | 2.91                 | 2.79                 |

| INDOOR UNIT                   |             |                |          | APNQ100LFA0         | APNQ150LNA0         | APNQ200LNA0         |
|-------------------------------|-------------|----------------|----------|---------------------|---------------------|---------------------|
| Power Supply                  |             | V, Ø, Hz       |          | 220-240, 1, 50/60   | 220-240, 1, 50/60   | 220-240, 1, 50/60   |
| Dimensions                    | Body        | W x H x D      | mm       | 1,050 × 1,880 × 495 | 1,558 × 1,920 × 700 | 1,558 × 1,920 × 700 |
|                               | Shipping    | W x H x D      | mm       | -                   | -                   | -                   |
| Weight                        | Body        |                | kg       | 103                 | 237                 | 237                 |
|                               | Shipping    |                | kg       | -                   | -                   | -                   |
| Fan Type                      |             |                |          | Sirocco             | Sirocco             | Sirocco             |
| Air Flow Rate                 |             | SH / H / M / L | m³/min   | 68 / 61 / - / 50    | - / 120 / - / 95    | - / 130 / - / 95    |
| Fan Motor                     | Type        |                |          | BLDC                | BLDC                | BLDC                |
|                               | Output      |                | W x No.  | 900 × 1             | 750 × 2             | 750 × 2             |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)    | 58 / 55 / - / 51    | - / 64 / - / 57     | - / 65 / - / 57     |
| Piping Connections            | Liquid Side |                | mm(inch) | Ø9.52 (3/8)         | Ø15.88 (5/8)        | Ø15.88 (5/8)        |
|                               | Gas Side    |                | mm(inch) | Ø22.2 (7/8)         | Ø28.58 (1-1/8)      | Ø28.58 (1-1/8)      |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm       | Ø32 / Ø25           | Ø21.0 / Ø17.0       | Ø21.0 / Ø17.0       |
| Power and Communication Cable |             |                |          | mm² x No.           | 1.5 x 4C            | 2.5 x 3C / 1.5 x 2C |

| OUTDOOR UNIT          |                            |             |              | APUQ100LFA0         | APUQ150LNA0         | APUQ200LNA0         |
|-----------------------|----------------------------|-------------|--------------|---------------------|---------------------|---------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 380-415, 3, 50/60   | 380-415, 3, 50/60   | 380-415, 3, 50/60   |
| Dimensions            |                            | W x H x D   | mm           | 1,090 × 1,625 × 380 | 1,240 × 1,680 × 760 | 1,240 × 1,680 × 760 |
| Net Weight            |                            |             | kg           | 143                 | 270                 | 270                 |
| Compressor            | Type                       |             | -            | Scroll              | Hermetic Motor      | Hermetic Motor      |
|                       | Motor Type                 |             | -            | BLDC                | BLDC                | BLDC                |
|                       | Motor Output               |             | W x No.      | 4,241 x 1           | 4,200 x 2           | 4,200 x 2           |
| Refrigerant           | Type                       |             | -            | R410A               | R410A               | R410A               |
|                       | Chargeless-Pipe Length     |             | m            | 5                   | 5                   | 5                   |
|                       | Additional Charging Volume |             | g/m          | 61                  | 150                 | 150                 |
| Fan                   | Type                       |             | -            | Propeller           | Propeller           | Propeller           |
|                       | Air Flow Rate              |             | m³/min x No. | 190 x 2             | 290                 | 290                 |
| Fan Motor             | Type                       |             |              | BLDC                | BLDC                | BLDC                |
|                       | Output                     |             | W x No.      | 250 x 2             | 900 x 2             | 900 x 2             |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 60                  | 64                  | 65                  |
| Piping Connections    | Liquid                     | Outer Dia.  | mm(inch)     | Ø9.52 (3/8)         | Ø15.88 (5/8)        | Ø15.88 (5/8)        |
|                       | Gas                        | Outer Dia.  | mm(inch)     | Ø22.2 (7/8)         | Ø28.58 (1-1/8)      | Ø28.58 (1-1/8)      |
| Piping Length         |                            | Min. / Max. | m            | 5 / 50              | - / 50              | - / 50              |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 30                  | 30                  | 30                  |
| Wiring Connections    |                            |             |              | mm² x No.           | 6.0 x 5C            | 6.0 x 5C            |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

## Entry series



| SET CONDITION    |       |                   | 30K                     | 36K                      |
|------------------|-------|-------------------|-------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 31,600 / 30,000 / 8,400 | 37,900 / 36,000 / 10,800 |
|                  | kW    | Max / Rated / Min | 9.26 / 8.79 / 2.46      | 11.1 / 10.54 / 3.15      |
| Power Input      | Rated | kW                | 2.95                    | 3.7                      |
| Running Current  | Rated | A                 | 13.4                    | 16.8                     |
| EER              |       | w/w               | 2.98                    | 2.85                     |

| INDOOR UNIT                   |             |                |           | ZPNQ30GR5E0               | ZPNQ36GT3E0               |
|-------------------------------|-------------|----------------|-----------|---------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm        | 590 x 1,840 x 300         | 590 x 1,840 x 440         |
|                               | Shipping    | W x H x D      | mm        | 680 x 1,925 x 395         | 681 x 1,927 x 521         |
| Weight                        | Body        | kg             |           | 36                        | 49                        |
|                               | Shipping    | kg             |           | 43                        | 57                        |
| Fan Type                      |             |                |           | Turbo Fan                 | Sirocco                   |
| Air Flow Rate                 |             | SH / H / M / L | m³/min    | 23.5 / 19.0 / 17.0 / 14.0 | 33.0 / 30.0 / 26.0 / 22.0 |
| Fan Motor                     | Type        |                |           | BLDC                      | BLDC                      |
|                               | Output      | W x No.        |           | 104 x 1                   | 224 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)     | 52 / 47 / 44 / 41         | - / 49 / 45 / 41          |
| Piping Connections            | Liquid Side | mm(inch)       |           | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side    | mm(inch)       |           | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  |           | Ø20, Ø17 / Ø12.2          | Ø20, Ø17 / Ø12.2          |
| Power and Communication Cable |             |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 |

| OUTDOOR UNIT          |                            |              |                   | ZUAC1           |  | ZUAC1             |                 |
|-----------------------|----------------------------|--------------|-------------------|-----------------|--|-------------------|-----------------|
| Power Supply          |                            | V, Ø, Hz     | 220-240, 1, 50/60 |                 |  | 220-240, 1, 50/60 |                 |
| Dimensions            |                            | W x H x D    | mm                | 870 x 650 x 330 |  |                   | 870 x 650 x 330 |
| Net Weight            |                            | kg           | 41.5              |                 |  | 41.5              |                 |
| Compressor            | Type                       | -            | Twin Rotary       |                 |  | Twin Rotary       |                 |
|                       | Motor Type                 | -            | BLDC              |                 |  | BLDC              |                 |
|                       | Motor Output               | W x No.      | 1,500 x 1         |                 |  | 1,500 x 1         |                 |
| Refrigerant           | Type                       | -            | R32               |                 |  | R32               |                 |
|                       | Chargeless-Pipe Length     | m            | 15                |                 |  | 15                |                 |
|                       | Additional Charging Volume | g/m          | 30                |                 |  | 30                |                 |
| Fan                   | Type                       | -            | Axial Fan         |                 |  | Axial Fan         |                 |
|                       | Air Flow Rate              | m³/min x No. | 50 x 1            |                 |  | 50 x 1            |                 |
| Fan Motor             | Type                       |              | BLDC              |                 |  | BLDC              |                 |
|                       | Output                     | W x No.      | 85.0 x 1          |                 |  | 85.0 x 1          |                 |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)             | 53              |  |                   | 53              |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch)          | Ø9.52 (3/8)     |  |                   | Ø9.52 (3/8)     |
|                       | Gas                        | Outer Dia.   | mm(inch)          | Ø15.88 (5/8)    |  |                   | Ø15.88 (5/8)    |
| Piping Length         |                            | Min. / Max.  | m                 | 5 / 50          |  |                   | 5 / 50          |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m                 | 30              |  |                   | 30              |
| Wiring Connections    |                            |              | mm² x No.         | 2.5 x 3C        |  |                   | 2.5 x 3C        |

[All data are based on the following conditions]

※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

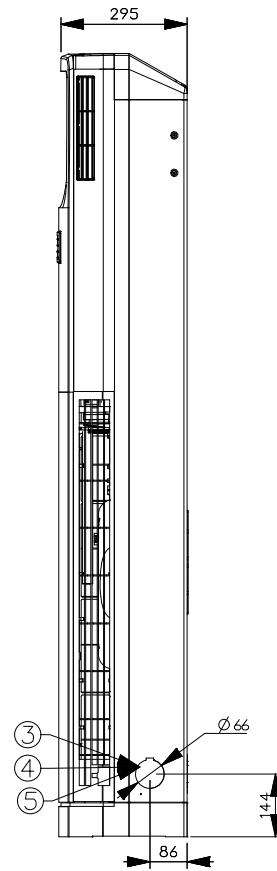
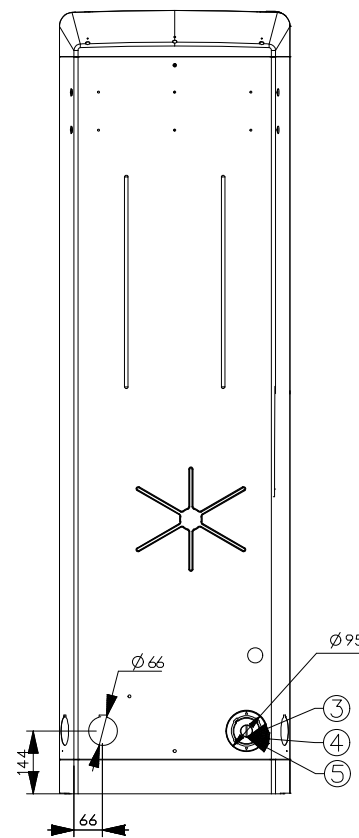
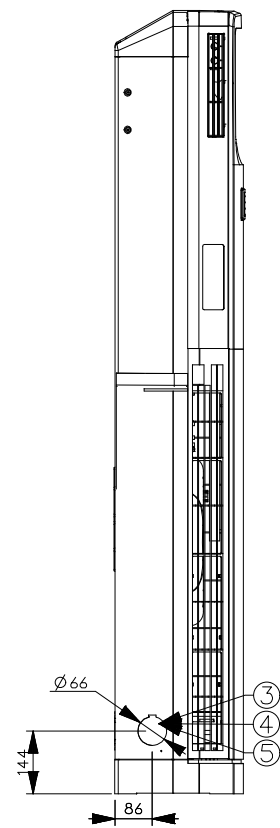
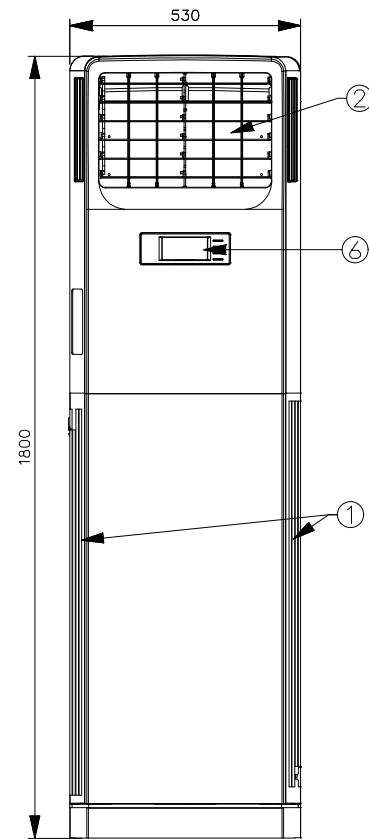
※ Wiring cable size must comply with the applicable local and national codes.

[illegible]

[STANDARD] ZPNQ24GS1A0

(Unit : mm)

|   | PART NAME                  |
|---|----------------------------|
| 1 | Inlet Grill                |
| 2 | Air Outlet                 |
| 3 | Piping Hole                |
| 4 | Wire Hole                  |
| 5 | Drain Routing Hole         |
| 6 | Remote Controller Reciever |

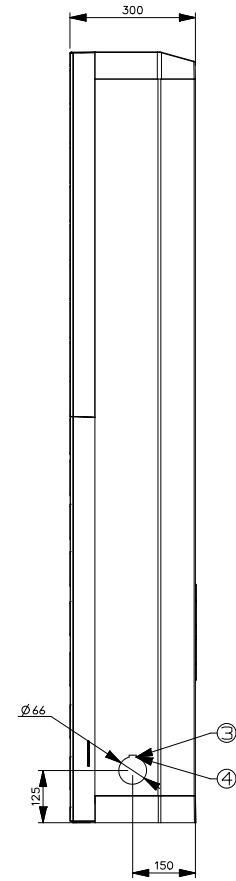
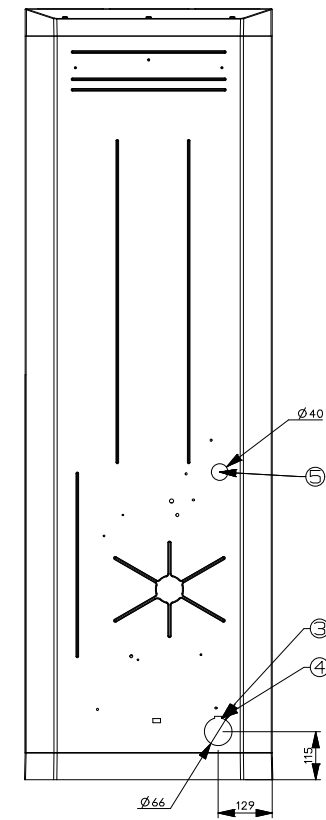
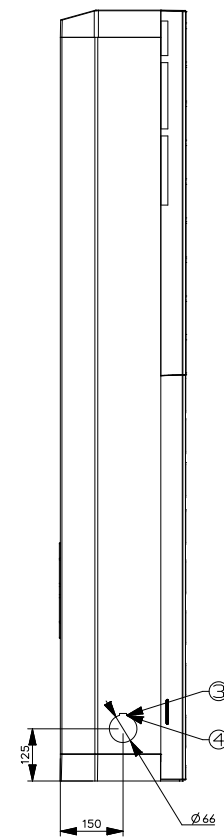
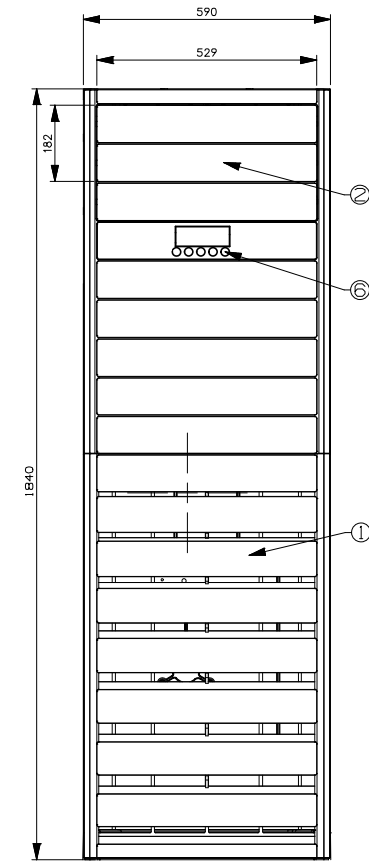


[STANDARD] ZPNQ36GR5A0 / ZPNQ36LR5A0

[ENTRY] ZPNQ30GR5E0

(Unit : mm)

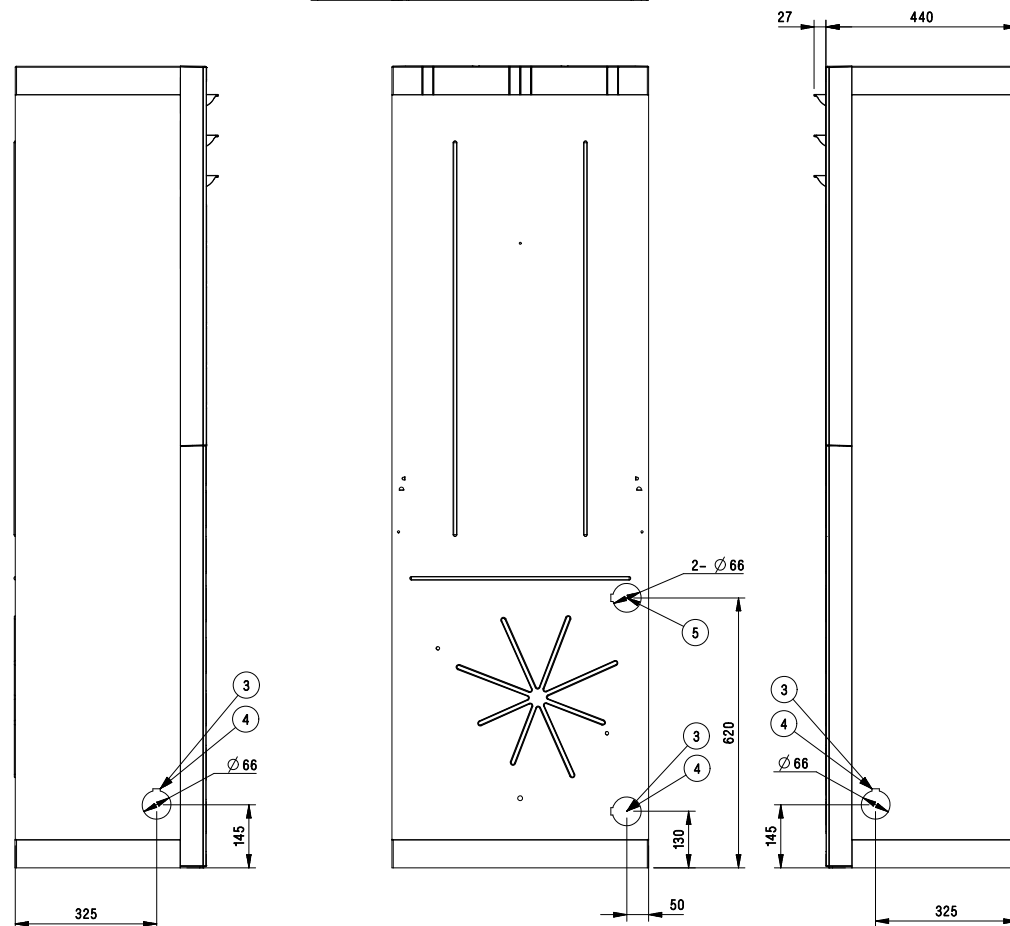
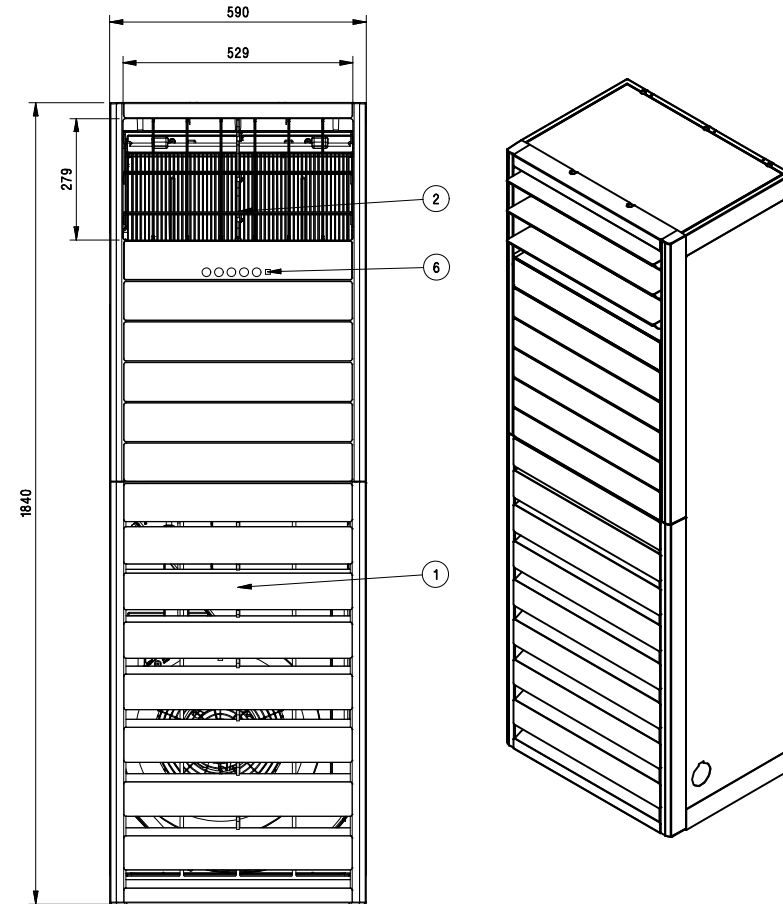
|   | PART NAME                  |
|---|----------------------------|
| 1 | Inlet Grill                |
| 2 | Air Outlet                 |
| 3 | Piping Hole                |
| 4 | Wiring Hole                |
| 5 | Drain Routing Hole         |
| 6 | Remote Controller Reciever |



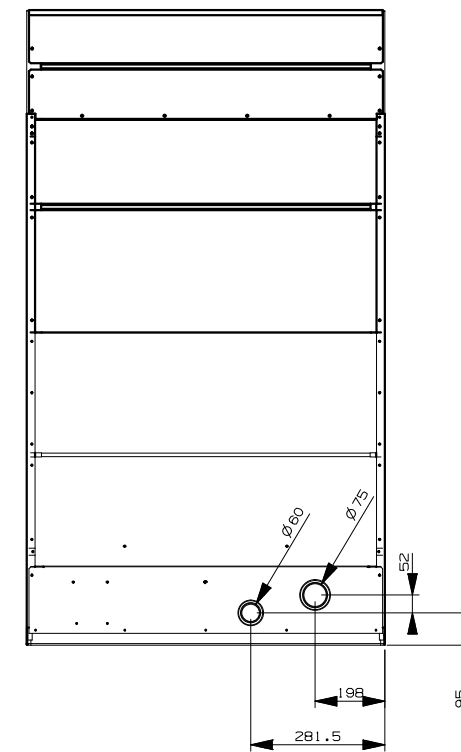
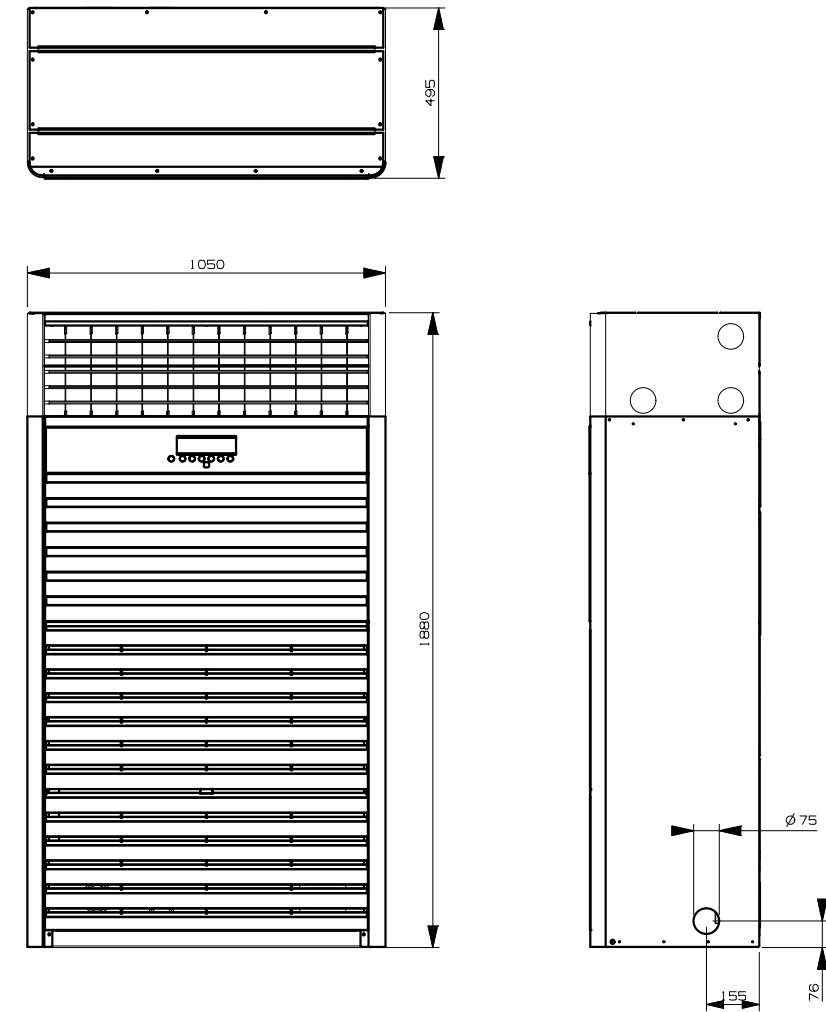
[STANDARD] ZPNQ48GT3A0 / ZPNQ48LT3A0  
[ENTRY] ZPNQ36GT3E0

(Unit : mm)

|   | PART NAME                  |
|---|----------------------------|
| 1 | Inlet Grill                |
| 2 | Air Outlet                 |
| 3 | Piping Hole                |
| 4 | Wiring Hole                |
| 5 | Drain Routing Hole         |
| 6 | Remote Controller Reciever |

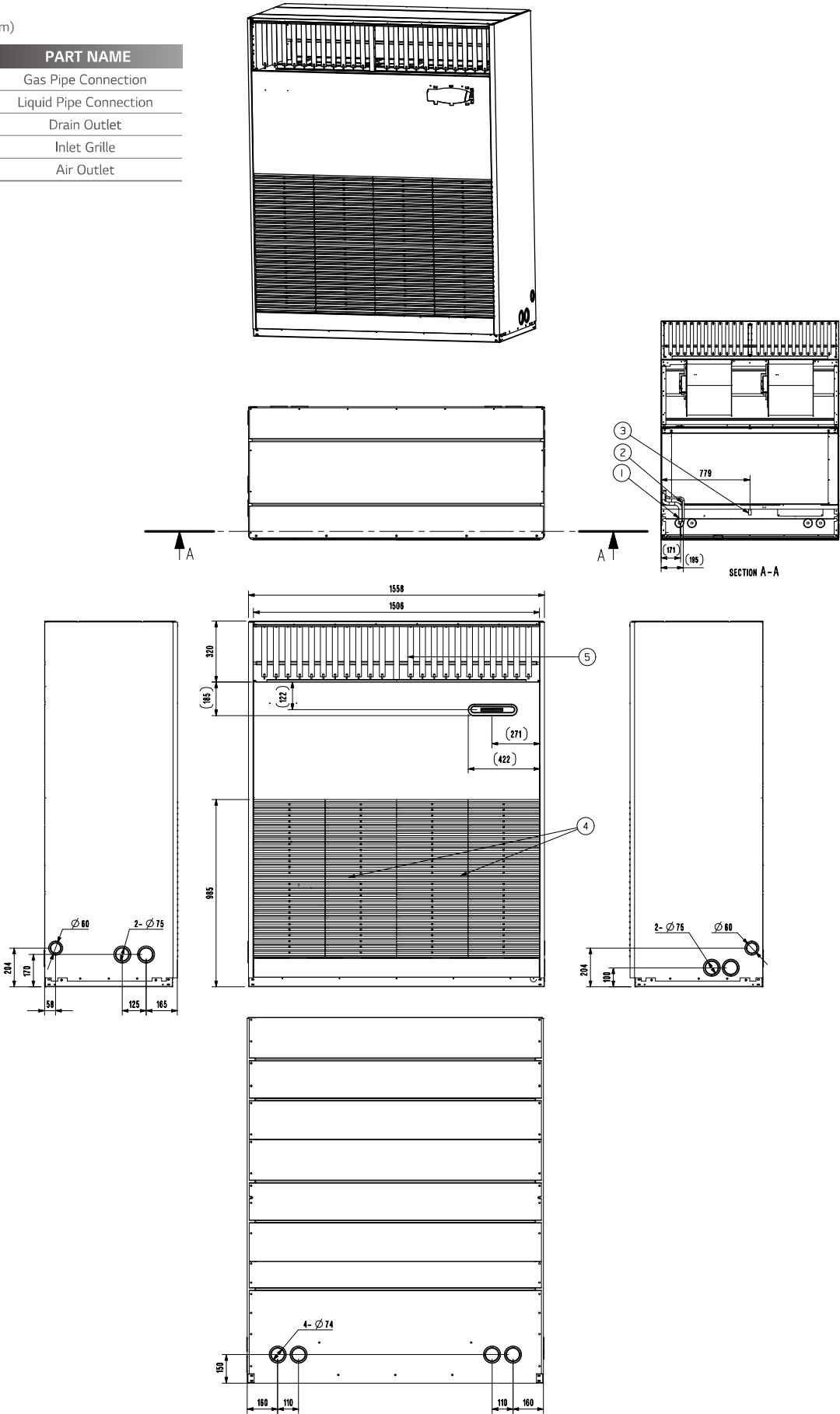


[STANDARD] APNQ100LFA0



(Unit : mm)

|   | PART NAME              |
|---|------------------------|
| 1 | Gas Pipe Connection    |
| 2 | Liquid Pipe Connection |
| 3 | Drain Outlet           |
| 4 | Inlet Grille           |
| 5 | Air Outlet             |

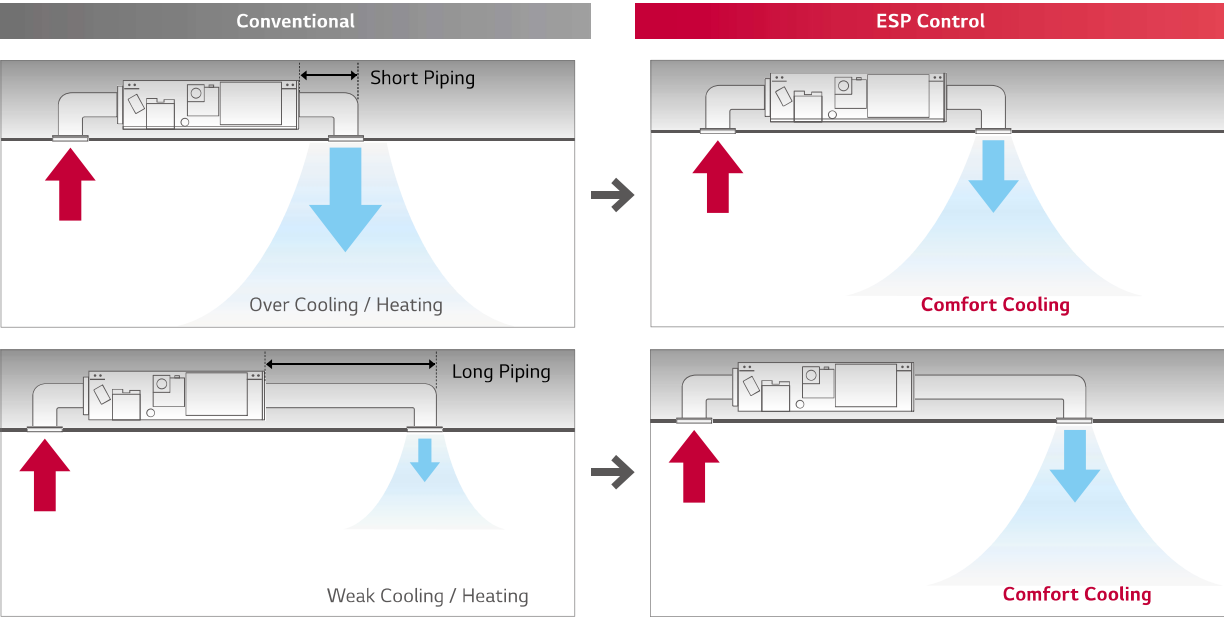


# CEILING CONCEALED DUCT



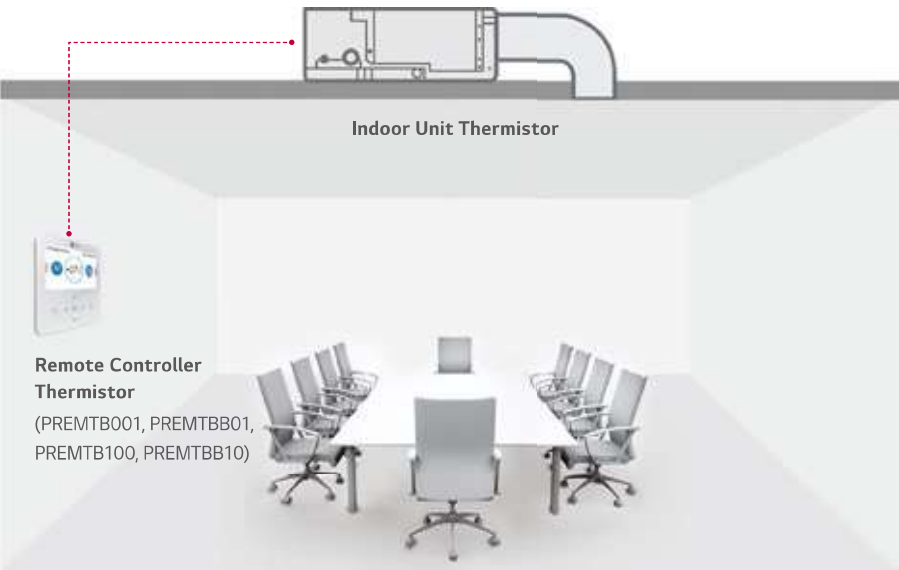
## External Static Pressure (ESP) Control

User has easy access to air volume selection via remote controller using the ESP control function. The BLDC motor can control fan speed and air volume. No additional accessories are necessary to control air flow.



## Two Thermistors Control

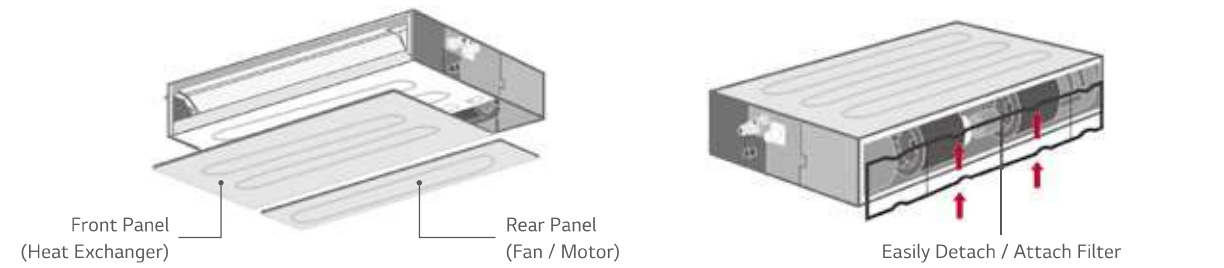
The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. There may be a significant difference between ceiling and floor air temperature. Two thermistors can optimize indoor air temperature for a more comfortable environment.



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

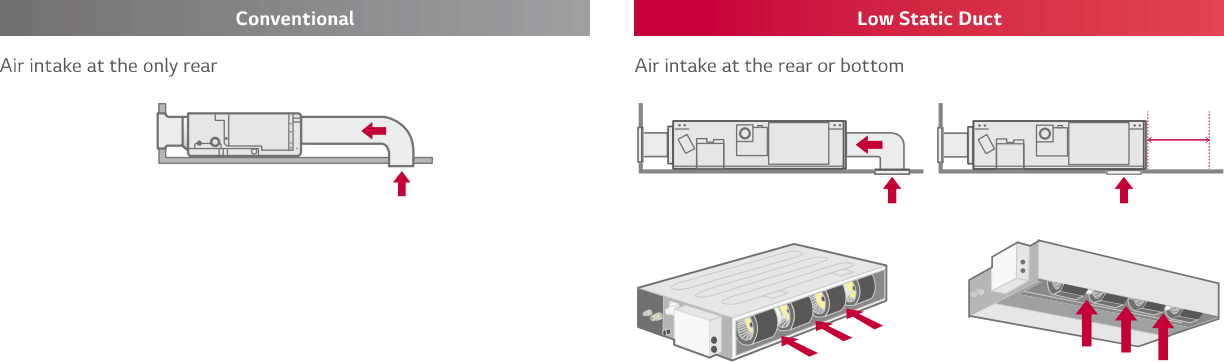
Easy Service & Maintenance

Users are not required to disassemble the whole panel for maintenance; since panel is divided into 2 components; one for heat exchanger and the other for fan / motor. The user can easily detach and re-attach the filter in the available limited space.

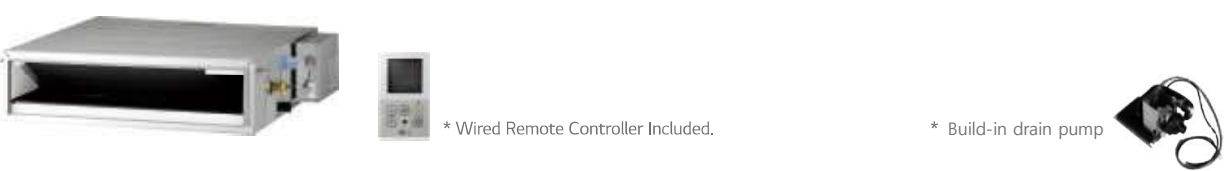


Flexible Installation (Low Static Pressure Model)

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



[Low Static]



| SET CONDITION    |       |                   | 9K                     | 12K                     | 18K                     | 24K                     |
|------------------|-------|-------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60      | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60       |
| Cooling Capacity | Btu/h | Max / Rated / Min | 10,900 / 9,000 / 4,260 | 13,200 / 12,000 / 4,960 | 20,500 / 18,000 / 4,800 | 27,000 / 24,000 / 6,480 |
|                  | kW    | Max / Rated / Min | 3.19 / 2.64 / 1.25     | 3.87 / 3.51 / 1.45      | 6.01 / 5.27 / 1.4       | 7.91 / 7.03 / 1.9       |
| Power Input      | Rated | kW                | 0.75                   | 1.03                    | 1.64                    | 2.07                    |
| Running Current  | Rated | A                 | 3.41                   | 4.68                    | 7.5                     | 9.4                     |
| EER              |       | w/w               | 3.52                   | 3.41                    | 3.22                    | 3.40                    |

| INDOOR UNIT                   |             |                |          | ZBNQ09GL1A0         | ZBNQ12GL2A0          | ZBNQ18GL2A0            | ZBNQ24GL3A0            |
|-------------------------------|-------------|----------------|----------|---------------------|----------------------|------------------------|------------------------|
| Power Supply                  |             | V, Ø, Hz       |          | 220-240, 1, 50/60   | 220-240, 1, 50/60    | 220-240, 1, 50/60      | 220-240, 1, 50/60      |
| Dimensions                    | Body        | W x H x D      | mm       | 700 x 190 x 700     | 900 x 190 x 700      | 900 x 190 x 700        | 1,100 x 190 x 700      |
|                               | Shipping    | W x H x D      | mm       | 862 x 255 x 781     | 1,062 x 255 x 781    | 1,062 x 255 x 781      | 1,262 x 255 x 781      |
| Weight                        | Body        |                | kg       | 17.5                | 23.0                 | 23.0                   | 27.0                   |
|                               | Shipping    |                | kg       | 20.5                | 28.0                 | 28.0                   | 31.0                   |
| Fan Type                      |             |                |          | Sirocco Fan         | Sirocco Fan          | Sirocco Fan            | Sirocco Fan            |
| Air Flow Rate                 |             | SH / H / M / L | m³/min   | - / 9.0 / 7.0 / 5.5 | - / 10.0 / 8.5 / 7.0 | - / 15.0 / 12.5 / 10.0 | - / 20.0 / 16.0 / 12.0 |
| External Static Pressure      |             |                | Pa       | 20                  | 20                   | 40                     | 40                     |
| Fan Motor                     | Type        |                |          | BLDC                | BLDC                 | BLDC                   | BLDC                   |
|                               | Output      | W x No.        |          | 19 x 1              | 19 + 5 x 1 + 1       | 19 + 5 x 1 + 1         | 19 x 2                 |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)    | - / 30 / 26 / 23    | - / 31 / 28 / 27     | - / 36 / 34 / 31       | - / 39 / 35 / 32       |
|                               | Liquid Side |                | mm(inch) | Ø6.35 (1/4)         | Ø6.35 (1/4)          | Ø6.35 (1/4)            | Ø9.52 (3/8)            |
| Piping Connections            | Gas Side    |                | mm(inch) | Ø9.52 (3/8)         | Ø9.52 (3/8)          | Ø12.7 (1/2)            | Ø15.88 (5/8)           |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm       | Ø32.0 / Ø25.0       | Ø32.0 / Ø25.0        | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          |
| Power and Communication Cable |             | mm² x No.      |          | 0.75 x 4C           | 0.75 x 4C            | 0.75 x 4C              | 0.75 x 4C              |

| OUTDOOR UNIT          |                            |              |          | ZUAA1             | ZUAA1 ZBUQ12GL2A0 | ZUAB1 ZBUQ18GL2A0 | ZUAC1 ZBUQ24GL3A0 |
|-----------------------|----------------------------|--------------|----------|-------------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz     |          | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            |                            | W x H x D    | mm       | 717 x 483 x 230   | 717 x 483 x 230   | 770 x 545 x 288   | 870 x 650 x 330   |
| Net Weight            |                            |              | kg       | 24.2              | 24.2              | 30.9              | 41.5              |
| Compressor            | Type                       |              | -        | Twin Rotary       | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |              | -        | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               | W x No.      |          | 900 x 1           | 900 x 1           | 1,500 x 1         | 1,500 x 1         |
| Refrigerant           | Type                       |              | -        | R32               | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     | m            |          | 15                | 15                | 15                | 15                |
|                       | Additional Charging Volume | g/m          |          | 15                | 15                | 15                | 30                |
| Fan                   | Type                       |              | -        | Axial Fan         | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No. |          | 28 x 1            | 28 x 1            | 50 x 1            | 50 x 1            |
| Fan Motor             | Type                       |              |          | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Output                     | W x No.      |          | 43.0 x 1          | 43.0 x 1          | 43.0 x 1          | 85.0 x 1          |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)    | 47                | 47                | 47                | 53                |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch) | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø6.35 (1/4)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.   | mm(inch) | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø12.7 (1/2)       | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max.  | m        | 5 / 30            | 5 / 30            | 5 / 30            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m        | 15                | 15                | 20                | 30                |
| Wiring Connections    |                            | mm² x No.    |          | 2.5 x 3C          | 2.5 x 3C          | 2.5 x 3C          | 2.5 x 3C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

[Mid/High Static]



\* Wired Remote Controller Included.

\* Optional drain pump (ABDPG)

| SET CONDITION    |       |                   | 18K                     | 24K                     | 36K                      |
|------------------|-------|-------------------|-------------------------|-------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 20,500 / 18,000 / 5,400 | 27,000 / 24,000 / 7,200 | 40,000 / 36,000 / 10,800 |
|                  | kW    | Max / Rated / Min | 6.01 / 5.27 / 1.58      | 7.91 / 7.03 / 2.11      | 11.71 / 10.54 / 3.15     |
| Power Input      | Rated | kW                | 1.62                    | 1.97                    | 2.95                     |
| Running Current  | Rated | A                 | 7.4                     | 9                       | 13.4                     |
| EER              |       | w/w               | 3.26                    | 3.57                    | 3.58                     |

| INDOOR UNIT                   |                       |                |           | ZBNQ18GM1A0            | ZBNQ24GM1A0            | ZBNQ36GM3A0            |
|-------------------------------|-----------------------|----------------|-----------|------------------------|------------------------|------------------------|
| Power Supply                  |                       | V, Ø, Hz       |           | 220-240, 1, 50/60      | 220-240, 1, 50/60      | 220-240, 1, 50/60      |
| Dimensions                    | Body                  | W x H x D      | mm        | 900 x 270 x 700        | 900 x 270 x 700        | 1,250 x 360 x 700      |
|                               | Shipping              | W x H x D      | mm        | 1,100 x 338 x 773      | 1,100 x 338 x 773      | 1,450 x 428 x 773      |
| Weight                        | Body                  |                | kg        | 23.8                   | 25.3                   | 36                     |
|                               | Shipping              |                | kg        | 28.9                   | 30.3                   | 42.5                   |
| Fan Type                      |                       |                |           | Sirocco Fan            | Sirocco Fan            | Sirocco Fan            |
| Air Flow Rate                 |                       | SH / H / M / L | m³/min    | - / 16.5 / 14.5 / 13.0 | - / 18.0 / 16.5 / 14.0 | - / 30.0 / 25.0 / 20.0 |
| External Static Pressure      |                       |                | Pa        | 59                     | 59                     | 59                     |
| Fan Motor                     | Type                  |                |           | BLDC                   | BLDC                   | BLDC                   |
|                               | Output                |                | W x No.   | 136.5 x 1              | 136.5 x 1              | 154 x 1                |
| Sound Pressure Level          | Cooling               | SH / H / M / L | dB(A)     | - / 34.0 / 32.0 / 30.0 | - / 37 / 35 / 32       | - / 36 / 33 / 31       |
| Piping Connections            | Liquid Side           |                | mm(inch)  | Ø6.35 (1/4)            | Ø9.52 (3/8)            | Ø9.52 (3/8)            |
|                               | Gas Side              |                | mm(inch)  | Ø12.7 (1/2)            | Ø15.88 (5/8)           | Ø15.88 (5/8)           |
|                               | Drain Pipe using pump | (O.D. / I.D.)  | mm        | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          |
| Power and Communication Cable |                       |                | mm² x No. | 0.75 x 4C              | 0.75 x 4C              | 0.75 x 4C              |

| OUTDOOR UNIT          |                            |             |              | ZUAB1             | ZUAC1             | ZUAD1 ZBUQ36GM3A0 |
|-----------------------|----------------------------|-------------|--------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            |                            | W x H x D   | mm           | 770 x 545 x 288   | 870 x 650 x 330   | 950 x 834 x 330   |
| Net Weight            |                            |             | kg           | 30.9              | 41.5              | 59.5              |
| Compressor            | Type                       |             | -            | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |             | -            | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               |             | W x No.      | 1,500 x 1         | 1,500 x 1         | 4,000 x 1         |
| Refrigerant           | Type                       |             | -            | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     |             | m            | 15                | 15                | 15                |
|                       | Additional Charging Volume |             | g/m          | 15                | 30                | 30                |
| Fan                   | Type                       |             | -            | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              |             | m³/min x No. | 50 x 1            | 50 x 1            | 60 X 1            |
| Fan Motor             | Type                       |             |              | BLDC              | BLDC              | BLDC              |
|                       | Output                     |             | W x No.      | 43.0 x 1          | 85.0 x 1          | 124.0 X 1         |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 47                | 53                | 55                |
| Piping Connections    | Liquid                     | Outer Dia.  | mm(inch)     | Ø6.35 (1/4)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.  | mm(inch)     | Ø12.7 (1/2)       | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max. | m            | 5 / 30            | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 20                | 30                | 30                |
| Wiring Connections    |                            |             | mm² x No.    | 2.5 x 3C          | 2.5 x 3C          | 4.0 x 3C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

[Mid/High Static]



\* Wired Remote Controller Included.

\* Optional drain pump (ABDPG)

| SET CONDITION    |       |                   | 36K                      | 47K                      | 47K                      |
|------------------|-------|-------------------|--------------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 380-415, 3, 50/60        | 220-240, 1, 50/60        | 380-415, 3, 50/60        |
| Cooling Capacity | Btu/h | Max / Rated / Min | 40,000 / 36,000 / 10,800 | 48,950 / 46,500 / 13,800 | 48,950 / 46,500 / 13,800 |
|                  | kW    | Max / Rated / Min | 11.71 / 10.54 / 3.15     | 14.33 / 13.61 / 4.05     | 14.33 / 13.61 / 4.05     |
| Power Input      | Rated | kW                | 2.95                     | 4.3                      | 4.3                      |
| Running Current  | Rated | A                 | 4.1                      | 19.6                     | 6                        |
| EER              |       | w/w               | 3.58                     | 3.17                     | 3.17                     |

| INDOOR UNIT                   |                       |                |           | ZBNQ36GM3A0            | ZBNQ48GM3A0            | ZBNQ48GM3A0            |
|-------------------------------|-----------------------|----------------|-----------|------------------------|------------------------|------------------------|
| Power Supply                  |                       | V, Ø, Hz       |           | 220-240, 1, 50/60      | 220-240, 1, 50/60      | 220-240, 1, 50/60      |
| Dimensions                    | Body                  | W x H x D      | mm        | 1,250 x 360 x 700      | 1,250 x 360 x 700      | 1,250 x 360 x 700      |
|                               | Shipping              | W x H x D      | mm        | 1,450 x 428 x 773      | 1,450 x 428 x 773      | 1,450 x 428 x 773      |
| Weight                        | Body                  |                | kg        | 36                     | 41                     | 41                     |
|                               | Shipping              |                | kg        | 42.5                   | 47                     | 47                     |
| Fan Type                      |                       |                |           | Sirocco Fan            | Sirocco Fan            | Sirocco Fan            |
| Air Flow Rate                 |                       | SH / H / M / L | m³/min    | - / 30.0 / 25.0 / 20.0 | - / 40.0 / 34.0 / 28.0 | - / 40.0 / 34.0 / 28.0 |
| External Static Pressure      |                       |                | Pa        | 59                     | 59                     | 59                     |
| Fan Motor                     | Type                  |                |           | BLDC                   | BLDC                   | BLDC                   |
|                               | Output                |                | W x No.   | 154 x 1                | 400 x 1                | 400 x 1                |
| Sound Pressure Level          | Cooling               | SH / H / M / L | dB(A)     | - / 36 / 33 / 31       | - / 38 / 36 / 34       | - / 38 / 36 / 34       |
| Piping Connections            | Liquid Side           |                | mm(inch)  | Ø9.52 (3/8)            | Ø9.52 (3/8)            | Ø9.52 (3/8)            |
|                               | Gas Side              |                | mm(inch)  | Ø15.88 (5/8)           | Ø15.88 (5/8)           | Ø15.88 (5/8)           |
|                               | Drain Pipe using pump | (O.D. / I.D.)  | mm        | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          | Ø32.0 / Ø25.0          |
| Power and Communication Cable |                       |                | mm² x No. | 0.75 x 4C              | 0.75 x 4C              | 0.75 x 4C              |

| OUTDOOR UNIT          |                            |             |              | ZUAD3 ZBUQ36LM3A0 | ZUAD1 ZBUQ48GM3A0 | ZUAD3 ZBUQ48LM3A0 |
|-----------------------|----------------------------|-------------|--------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz    |              | 380-415, 3, 50/60 | 220-240, 1, 50/60 | 380-415, 3, 50/60 |
| Dimensions            |                            | W x H x D   | mm           | 950 x 834 x 330   | 950 x 834 x 330   | 950 x 834 x 330   |
| Net Weight            |                            |             | kg           | 60.8              | 59.5              | 60.8              |
| Compressor            | Type                       |             | -            | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |             | -            | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               |             | W x No.      | 4,000 x 1         | 4,000 x 1         | 4,000 x 1         |
| Refrigerant           | Type                       |             | -            | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     |             | m            | 15                | 15                | 15                |
|                       | Additional Charging Volume |             | g/m          | 30                | 30                | 30                |
| Fan                   | Type                       |             | -            | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              |             | m³/min x No. | 60 x 1            | 60 X 1            | 60 x 1            |
| Fan Motor             | Type                       |             |              | BLDC              | BLDC              | BLDC              |
|                       | Output                     |             | W x No.      | 124.0 x 1         | 124.0 X 1         | 124.0 x 1         |
| Sound Pressure Level  | Cooling                    | Rated       | dB(A)        | 55                | 55                | 55                |
| Piping Connections    | Liquid                     | Outer Dia.  | mm(inch)     | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.  | mm(inch)     | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max. | m            | 5 / 50            | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.        | m            | 30                | 30                | 30                |
| Wiring Connections    |                            |             | mm² x No.    | 2.5 x 5C          | 4.0 x 3C          | 2.5 x 5C          |

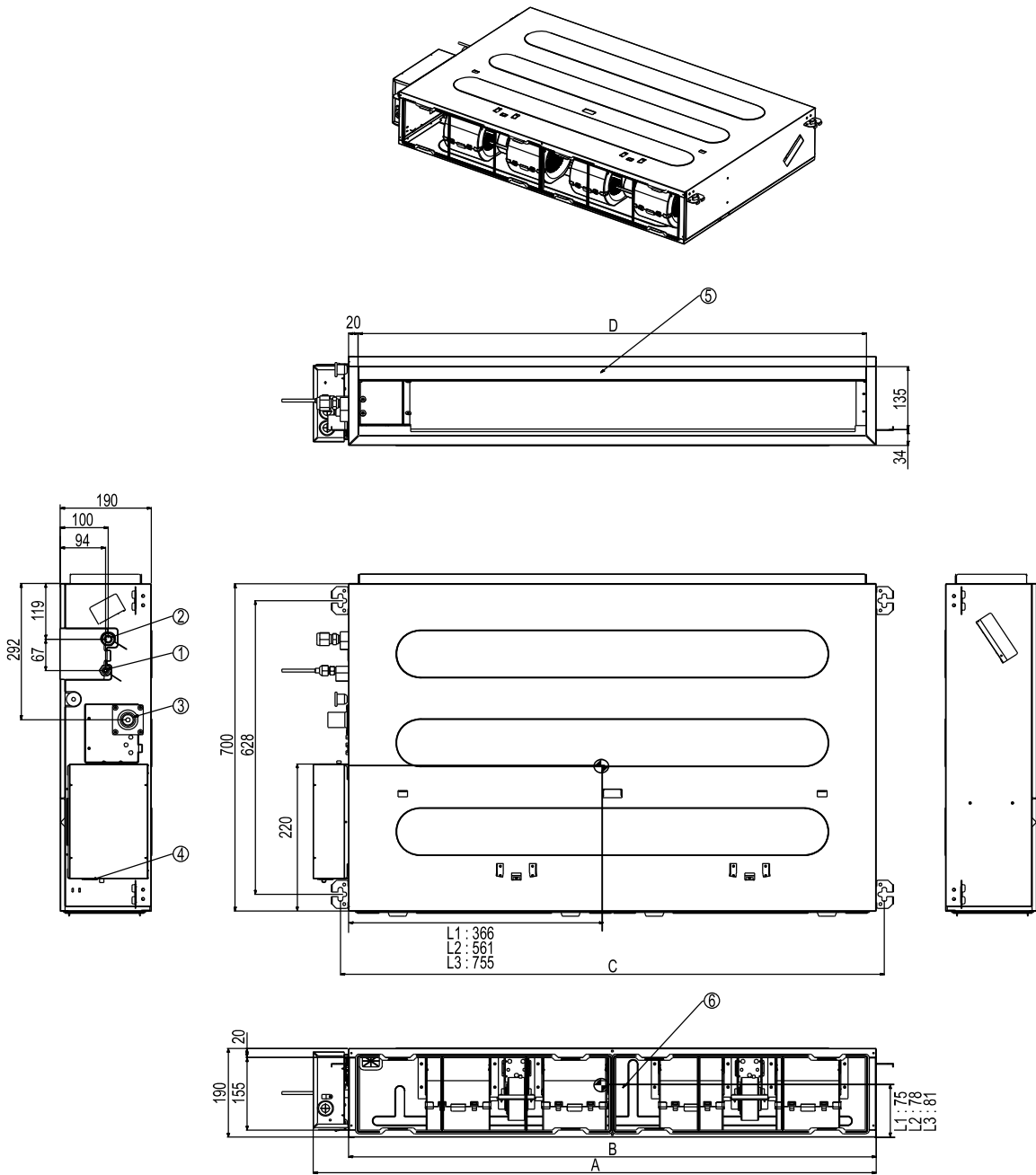
[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

[STANDARD] ZBNQ09GL1A0

(Unit : mm)

|   | PART NAME               |
|---|-------------------------|
| 1 | Liquid Pipe Connection  |
| 2 | Gas pipe Connection     |
| 3 | Drain pipe Connection   |
| 4 | Power Supply Connection |
| 5 | Air Discharge           |
| 6 | Air Suction             |

| Chassis | A     | B     | C     | D     |
|---------|-------|-------|-------|-------|
| L1      | 774   | 700   | 733   | 660   |
| L2      | 974   | 900   | 933   | 860   |
| L3      | 1,174 | 1,100 | 1,133 | 1,060 |

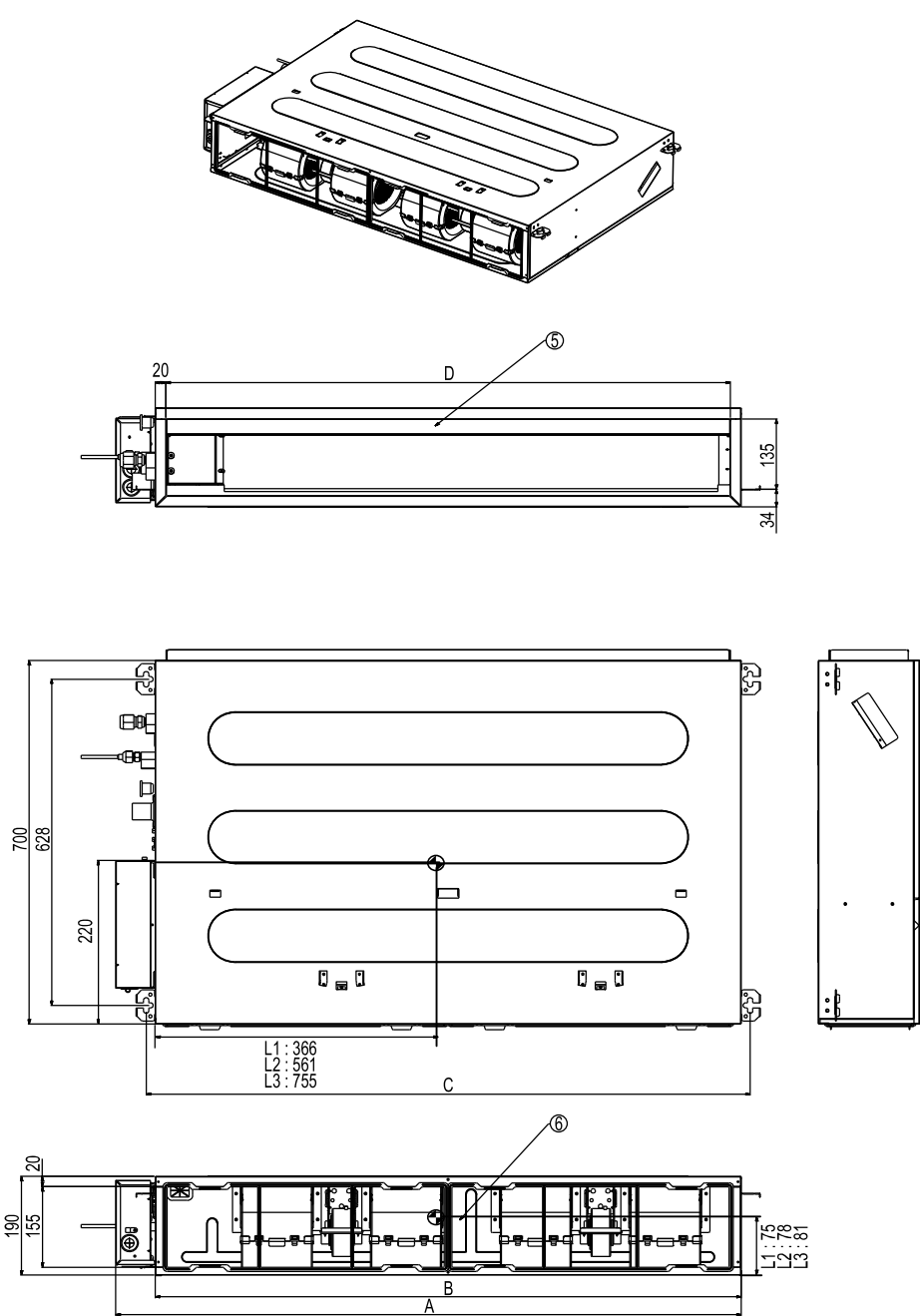


[STANDARD] ZBNQ12GL2A0 / ZBNQ18GL2A0

(Unit : mm)

|   | PART NAME               |
|---|-------------------------|
| 1 | Liquid Pipe Connection  |
| 2 | Gas pipe Connection     |
| 3 | Drain pipe Connection   |
| 4 | Power Supply Connection |
| 5 | Air Discharge           |
| 6 | Air Suction             |

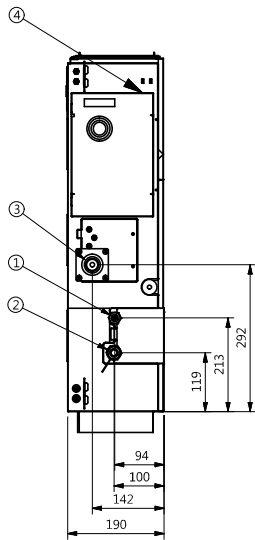
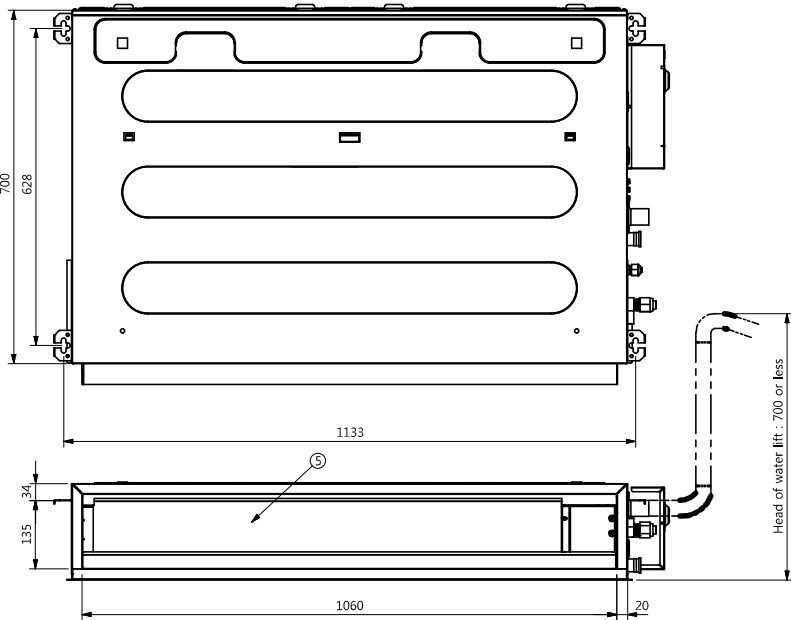
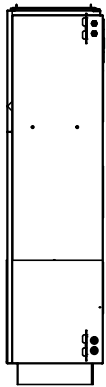
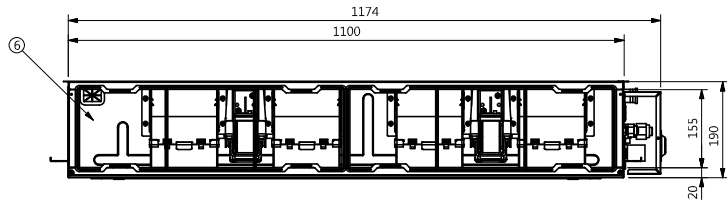
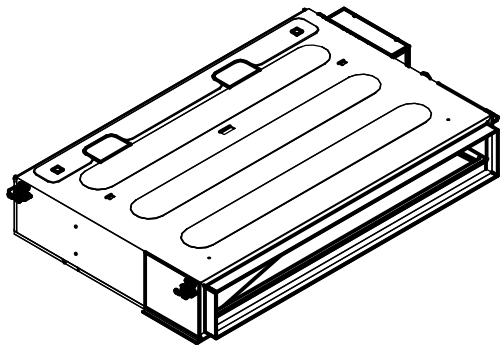
| Chassis | A     | B     | C     | D     |
|---------|-------|-------|-------|-------|
| L1      | 774   | 700   | 733   | 660   |
| L2      | 974   | 900   | 933   | 860   |
| L3      | 1,174 | 1,100 | 1,133 | 1,060 |



[STANDARD] ZBNQ24GL3A0

(Unit : mm)

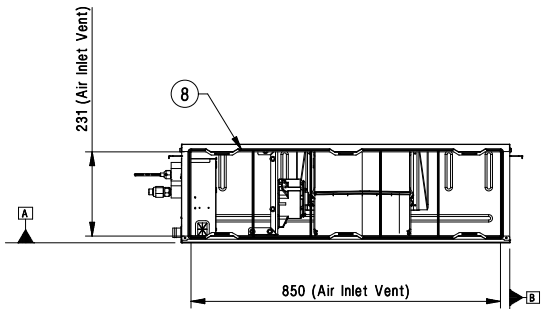
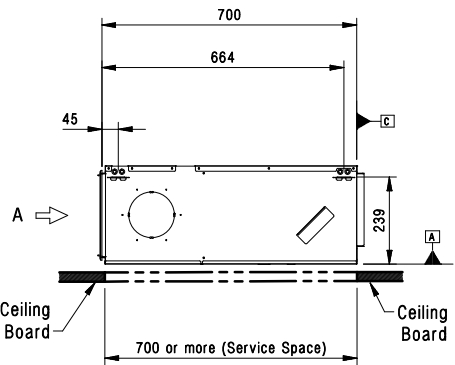
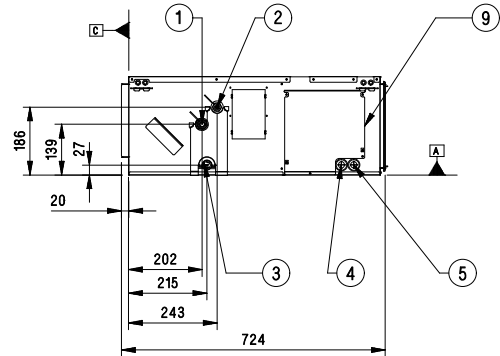
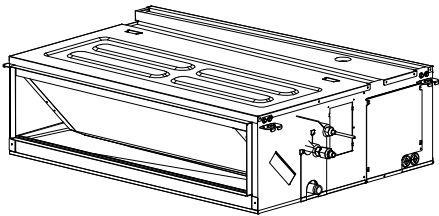
|   | PART NAME               |
|---|-------------------------|
| 1 | Liquid Pipe Connection  |
| 2 | Gas pipe Connection     |
| 3 | Drain pipe Connection   |
| 4 | Power Supply Connection |
| 5 | Air Discharge           |
| 6 | Air Suction             |



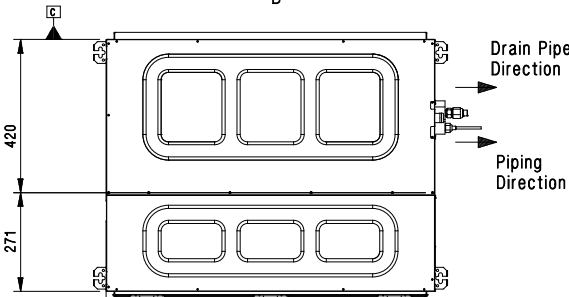
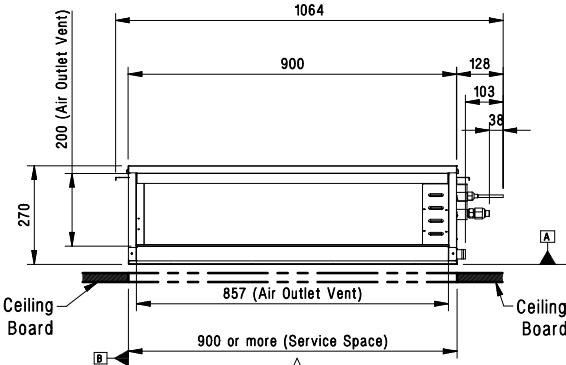
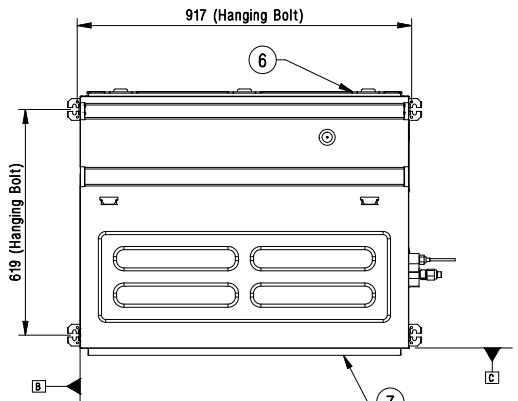
[STANDARD] ZBNQ18GM1A0 / ZBNQ24GM1A0

(Unit : mm)

|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Gas Pipe Connection                        |
| 2 | Liquid Pipe Connection                     |
| 3 | Drain Pipe Connection                      |
| 4 | Power and Communication Cable Routing Hole |
| 5 | Wired Remote Controller Wire Routing Hole  |
| 6 | Air Inlet Vent                             |
| 7 | Air Outlet Vent                            |
| 8 | Air Fiter                                  |
| 9 | Control Cover                              |



View "A"

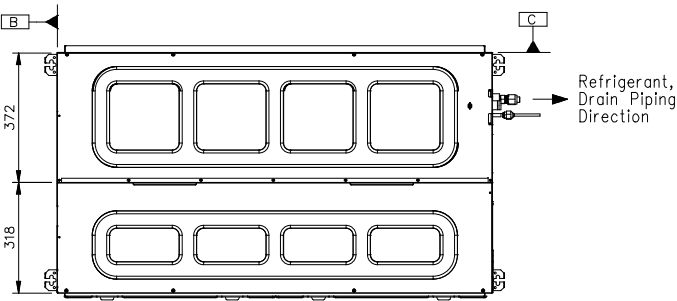
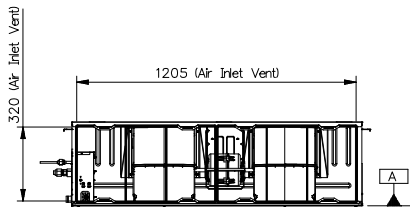
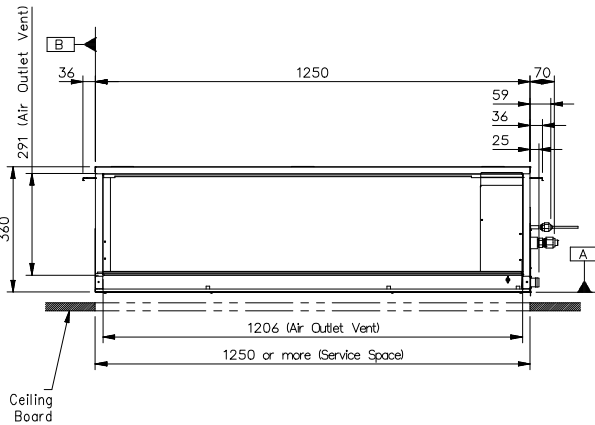
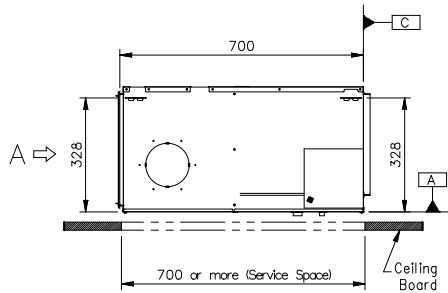
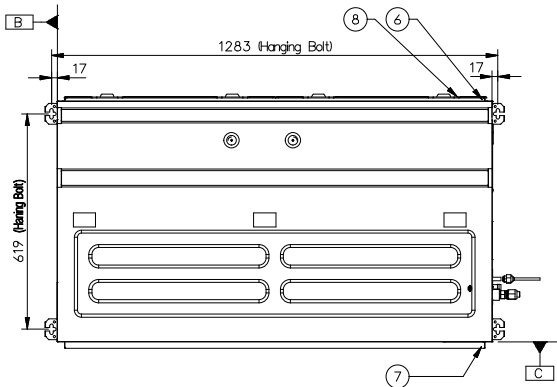
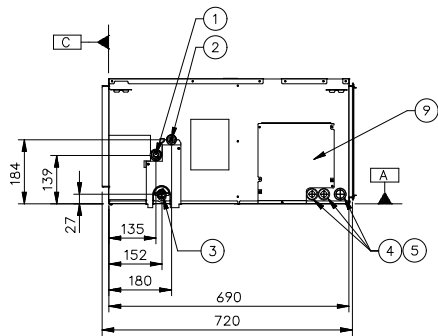
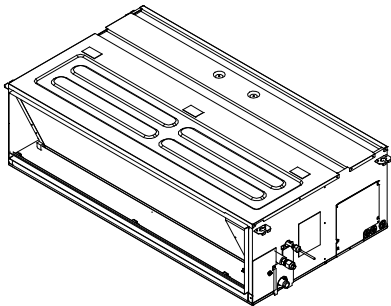


View "B"

[STANDARD] ZBNQ36GM3A0 / ZBNQ36LM3A0 / ZBNQ48GM3A0 / ZBNQ48LM3A0

(Unit : mm)

|   | PART NAME                          |
|---|------------------------------------|
| 1 | Gas Pipe Connection                |
| 2 | Liquid Pipe Connection             |
| 3 | Drain Pipe Connection              |
| 4 | Power and Communication Cable Hole |
| 5 | Remote Controller Cable Hole       |
| 6 | Air Inlet                          |
| 7 | Air Outlet                         |
| 8 | Air Fiter                          |
| 9 | Control Cover                      |



# CEILING SUSPENDED



## Differentiated Design

Modern elegant design with V-shape and black vane is appropriate for any commercial space. It received iF Design Award.



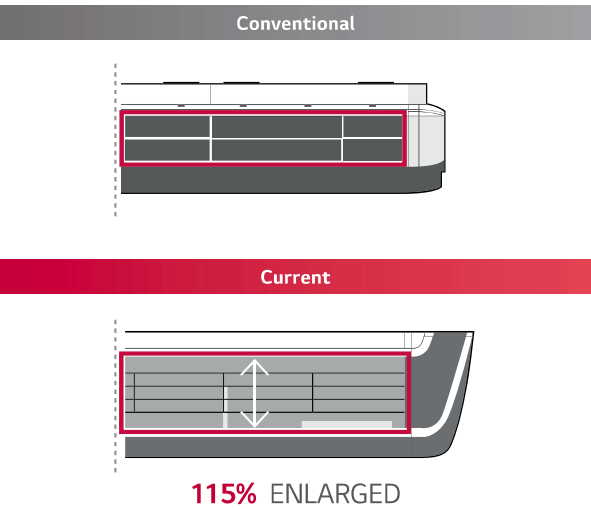
## Powerful Cooling & Heating

High ceiling mode provides powerful cooling and heating up to 4.2m in height from floor, 15m away from ceiling.

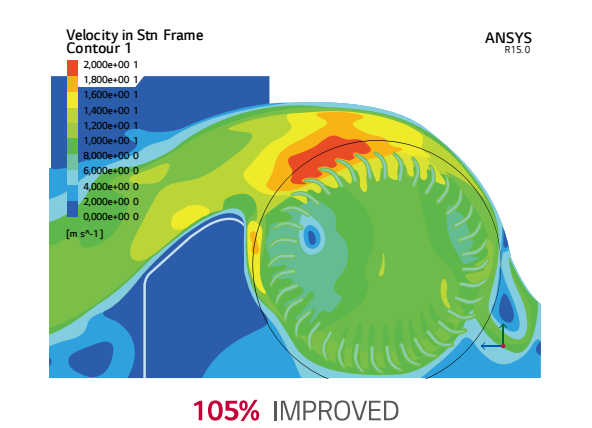


Airflow path and improved heat exchanger's performance.

### Outlet Space

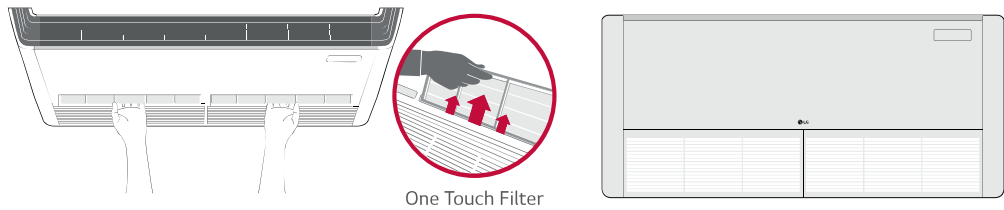


### Optimized the Airflow Path



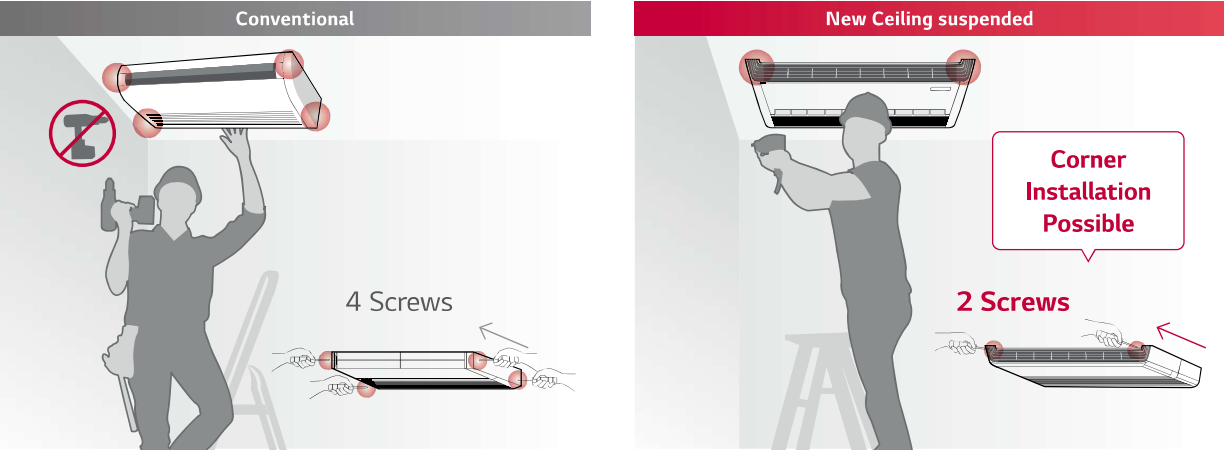
## One Touch & 2 Piece Filter

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



## Installation

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



## Standard series



| SET CONDITION    |       |                   | 24K                     | 36K                      | 47K                      | 60K                      |
|------------------|-------|-------------------|-------------------------|--------------------------|--------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 380-415, 3, 50/60        | 380-415, 3, 50/60        | 380-415, 3, 50/60        |
| Cooling Capacity | Btu/h | Min / Rated / Max | 7,200 / 24,000 / 26,900 | 10,800 / 36,000 / 40,000 | 13,800 / 46,500 / 48,950 | 13,800 / 53,500 / 57,000 |
|                  | kW    | Min / Rated / Max | 2.11 / 7.03 / 7.88      | 3.15 / 10.54 / 11.71     | 4.05 / 13.61 / 14.33     | 4.05 / 15.68 / 16.70     |
| Power Input      | Rated | kW                | 2.14                    | 2.91                     | 4.59                     | 5.52                     |
| Running Current  | Rated | A                 | 9.7                     | 4.1                      | 6.4                      | 7.7                      |
| EER              |       | w/w               | 3.29                    | 3.63                     | 2.97                     | 2.84                     |

| INDOOR UNIT                   |             |                |           | ZVnQ24GM1E0               | ZVnQ36GM2E0               | ZVnQ48GM2A0               | ZVnQ60GM2A0               |
|-------------------------------|-------------|----------------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm        | 1,200 x 235 x 690         | 1,600 x 235 x 690         | 1,600 x 235 x 690         | 1,600 x 235 x 690         |
|                               | Shipping    | W x H x D      | mm        | 1,315 x 320 x 772         | 1,715 x 320 x 772         | 1,715 x 320 x 772         | 1,715 x 320 x 772         |
| Weight                        | Body        |                | kg        | 27.3                      | 36.7                      | 36.7                      | 36.7                      |
|                               | Shipping    |                | kg        | 34                        | 42.8                      | 42.8                      | 42.8                      |
| Fan Type                      |             |                |           | Cross Flow Fan            | Cross Flow Fan            | Cross Flow Fan            | Cross Flow Fan            |
| Air Flow Rate                 |             | SH / H / M / L | m³/min    | - / 20.0 / 18.0 / 16.0    | - / 27.0 / 24.0 / 20.0    | - / 29.0 / 24.0 / 20.0    | - / 29.0 / 24.0 / 20.0    |
| Fan Motor                     | Type        |                |           | BLDC                      | BLDC                      | BLDC                      | BLDC                      |
|                               | Output      | W x No.        |           | 85.9 x 1                  | 125 x 1                   | 125 x 1                   | 125 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)     | - / 48 / 46 / 44          | - / 48 / 46 / 44          | - / 50 / 47 / 44          | - / 50 / 47 / 44          |
|                               |             |                |           |                           |                           |                           |                           |
| Piping Connections            | Liquid Side |                | mm(inch)  | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side    |                | mm(inch)  | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm        | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
| Power and Communication Cable |             |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 |

| OUTDOOR UNIT          |                            |                  |           | ZVUQ24GM1E0       | ZVUQ36LM2A0       | ZVUQ48LM2A0       | ZVUQ60LM2A0       |
|-----------------------|----------------------------|------------------|-----------|-------------------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz         |           | 220-240, 1, 50/60 | 380-415, 3, 50/60 | 380-415, 3, 50/60 | 380-415, 3, 50/60 |
| Dimensions            |                            | W x H x D        | mm        | 870 x 650 x 330   | 950 x 834 x 330   | 950 x 834 x 330   | 950 x 834 x 330   |
| Net Weight            |                            |                  | kg        | 41.5              | 60.8              | 60.8              | 65.1              |
| Compressor            | Type                       |                  | -         | Twin Rotary       | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |                  | -         | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               | W x No.          |           | 1,500 x 1         | 4,000 x 1         | 4,000 x 1         | 4,000 x 1         |
| Refrigerant           | Type                       |                  | -         | R32               | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     | m                |           | 15                | 15                | 15                | 15                |
|                       | Additional Charging Volume | g/m              |           | 30                | 40                | 40                | 40                |
| Fan                   | Type                       |                  | -         | Axial Fan         | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No.     |           | 50 x 1            | 60 x 1            | 60 x 1            | 60 x 1            |
| Fan Motor             | Type                       |                  |           | BLDC              | BLDC              | BLDC              | BLDC              |
|                       | Output                     | W x No.          |           | 85.0 x 1          | 124.0 x 1         | 124.0 x 1         | 124.0 x 1         |
| Sound Pressure Level  | Cooling                    | Rated            | dB(A)     | 53                | 55                | 55                | 61                |
|                       |                            |                  |           |                   |                   |                   |                   |
| Piping Connections    | Liquid                     | Outer Dia.       | mm(inch)  | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.       | mm(inch)  | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max.      | m         | 5 / 50            | 5 / 50            | 5 / 50            | 5 / 50            |
| Max Height Difference |                            | Outdoor ~ Indoor | Max.      | 30                | 30                | 30                | 30                |
| Wiring Connections    |                            |                  | mm² x No. | 2.5 x 3C          | 2.5 x 5C          | 2.5 x 5C          | 2.5 x 5C          |

[All data are based on the following conditions]  
※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB  
※ Wiring cable size must comply with the applicable local and national codes.

## Entry series



| SET CONDITION    |       |                   | 18K                     | 30K                     | 36K                      |
|------------------|-------|-------------------|-------------------------|-------------------------|--------------------------|
| Power Supply     |       | V, Ø, Hz          | 220-240, 1, 50/60       | 220-240, 1, 50/60       | 220-240, 1, 50/60        |
| Cooling Capacity | Btu/h | Min / Rated / Max | 5,400 / 17,000 / 18,500 | 9,000 / 30,000 / 31,600 | 10,800 / 35,500 / 37,300 |
|                  | kW    | Min / Rated / Max | 1.58 / 4.98 / 5.42      | 2.64 / 8.79 / 9.26      | 3.15 / 10.37 / 10.93     |
| Power Input      | Rated | kW                | 1.71                    | 2.92                    | 3.50                     |
| Running Current  | Rated | A                 | 7.77                    | 13.3                    | 15.90                    |
| EER              |       | w/w               | 2.91                    | 3.01                    | 2.96                     |

| INDOOR UNIT                   |             |                |           | ZVNQ18GM1E0               | ZVNQ30GM1E0               | ZVNQ36GM2E0               |
|-------------------------------|-------------|----------------|-----------|---------------------------|---------------------------|---------------------------|
| Power Supply                  |             | V, Ø, Hz       |           | 220-240, 1, 50/60         | 220-240, 1, 50/60         | 220-240, 1, 50/60         |
| Dimensions                    | Body        | W x H x D      | mm        | 1,200 x 235 x 690         | 1,200 x 235 x 690         | 1,600 x 235 x 690         |
|                               | Shipping    | W x H x D      | mm        | 1,315 x 320 x 772         | 1,315 x 320 x 772         | 1,715 x 320 x 772         |
| Weight                        | Body        |                | kg        | 27.3                      | 28                        | 36.7                      |
|                               | Shipping    |                | kg        | 34                        | 34.5                      | 42.8                      |
| Fan Type                      |             |                |           | Cross Flow Fan            | Cross Flow Fan            | Cross Flow Fan            |
| Air Flow Rate                 |             | SH / H / M / L | m³/min    | - / 13.0 / 12.0 / 11.0    | - / 20.0 / 18.0 / 16.0    | - / 27.0 / 24.0 / 20.0    |
| Fan Motor                     | Type        |                |           | BLDC                      | BLDC                      | BLDC                      |
|                               | Output      |                | W x No.   | 85.9 x 1                  | 85.9 x 1                  | 125 x 1                   |
| Sound Pressure Level          | Cooling     | SH / H / M / L | dB(A)     | - / 42 / 40 / 39          | - / 48 / 46 / 44          | - / 48 / 46 / 44          |
| Piping ** Connections         | Liquid Side |                | mm(inch)  | Ø6.35 (1/4)               | Ø9.52 (3/8)               | Ø9.52 (3/8)               |
|                               | Gas Side    |                | mm(inch)  | Ø12.7 (1/2)               | Ø15.88 (5/8)              | Ø15.88 (5/8)              |
|                               | Drain Pipe  | (O.D. / I.D.)  | mm        | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) | Ø32 (1-1/4) / Ø25 (31/32) |
| Power and Communication Cable |             |                | mm² x No. | 0.75 x 4C                 | 0.75 x 4C                 | 0.75 x 4C                 |

\*\* Connecting socket will be provided with indoor unit in same box. 

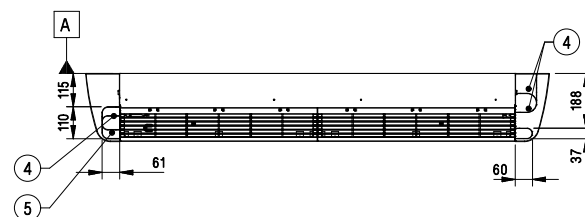
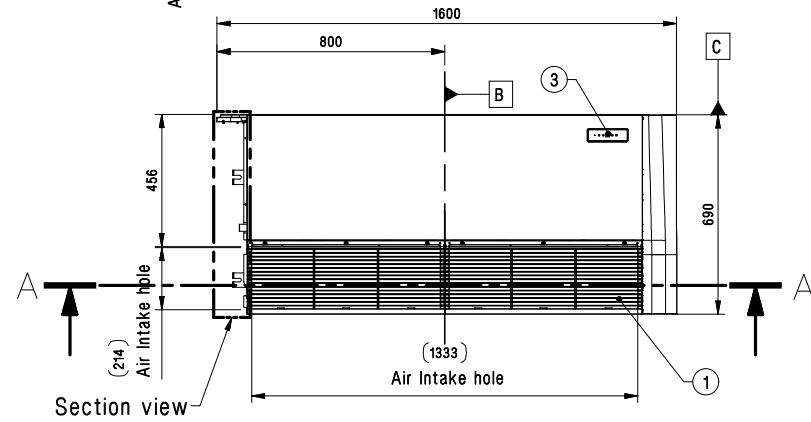
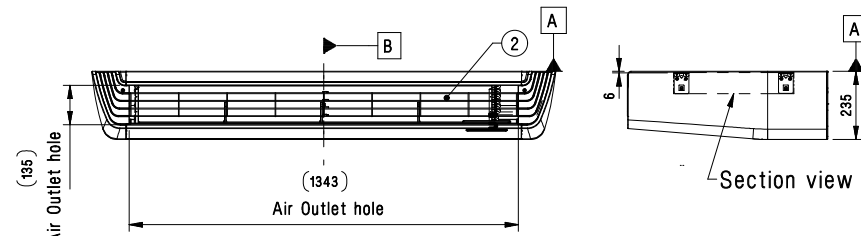
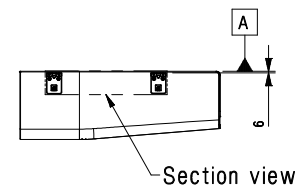
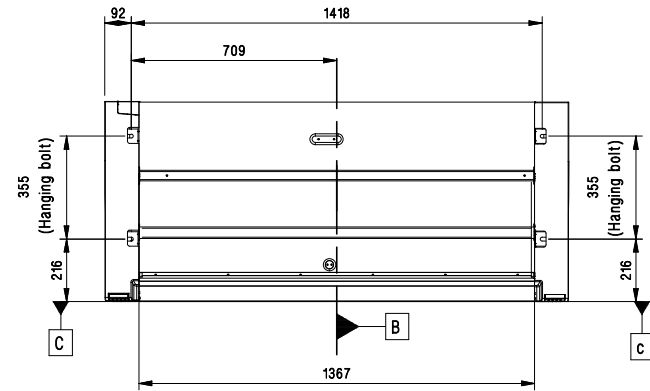
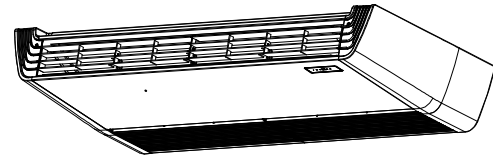
| OUTDOOR UNIT          |                            |              |           | ZVUQ18GM1E0       | ZVUQ30GM1E0       | ZVUQ36GM2E0       |
|-----------------------|----------------------------|--------------|-----------|-------------------|-------------------|-------------------|
| Power Supply          |                            | V, Ø, Hz     |           | 220-240, 1, 50/60 | 220-240, 1, 50/60 | 220-240, 1, 50/60 |
| Dimensions            |                            | W x H x D    | mm        | 717 x 483 x 230   | 870 x 650 x 330   | 870 x 650 x 330   |
| Net Weight            |                            |              | kg        | 24.2              | 41.5              | 41.5              |
| Compressor            | Type                       |              | -         | Twin Rotary       | Twin Rotary       | Twin Rotary       |
|                       | Motor Type                 |              | -         | BLDC              | BLDC              | BLDC              |
|                       | Motor Output               | W x No.      |           | 1,050 x 1         | 1,500 x 1         | 1,500 x 1         |
| Refrigerant           | Type                       |              | -         | R32               | R32               | R32               |
|                       | Chargeless-Pipe Length     | m            |           | 15                | 15                | 15                |
|                       | Additional Charging Volume | g/m          |           | 15                | 30                | 30                |
| Fan                   | Type                       |              | -         | Axial Fan         | Axial Fan         | Axial Fan         |
|                       | Air Flow Rate              | m³/min x No. |           | 28 x 1            | 50 x 1            | 50 x 1            |
| Fan Motor             | Type                       |              |           | BLDC              | BLDC              | BLDC              |
|                       | Output                     | W x No.      |           | 43.0 x 1          | 85.0 x 1          | 85.0 x 1          |
| Sound Pressure Level  | Cooling                    | Rated        | dB(A)     | 47                | 53                | 55                |
| Piping Connections    | Liquid                     | Outer Dia.   | mm(inch)  | Ø6.35 (1/4)       | Ø9.52 (3/8)       | Ø9.52 (3/8)       |
|                       | Gas                        | Outer Dia.   | mm(inch)  | Ø9.52 (3/8)       | Ø15.88 (5/8)      | Ø15.88 (5/8)      |
| Piping Length         |                            | Min. / Max.  | m         | 5 / 30            | 5 / 50            | 5 / 50            |
| Max Height Difference | Outdoor ~ Indoor           | Max.         | m         | 15                | 30                | 30                |
| Wiring Connections    |                            |              | mm² x No. | 2.5 x 3C          | 2.5 x 3C          | 2.5 x 3C          |

※ Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB, Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

[STANDARD] ZVNQ36GM2A0 / ZVNQ48GM2A0 / ZVNQ60GM2A0  
[ENTRY] ZVNQ36GM2E0

(Unit : mm)

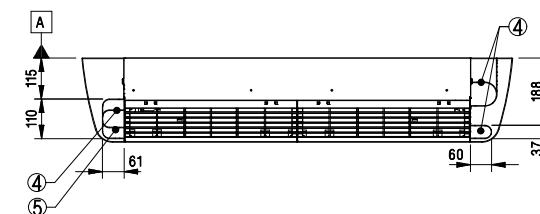
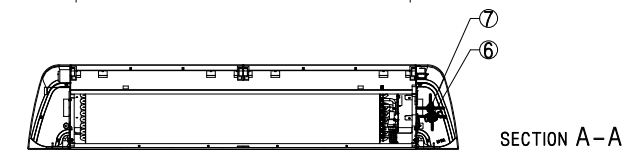
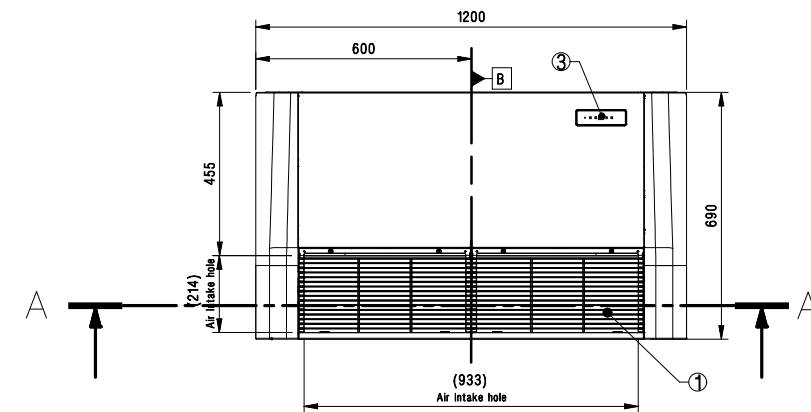
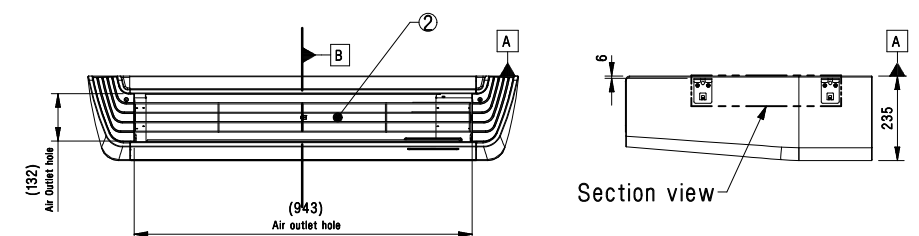
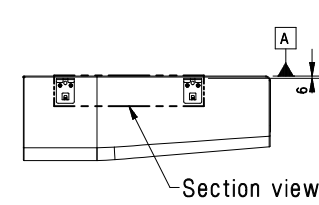
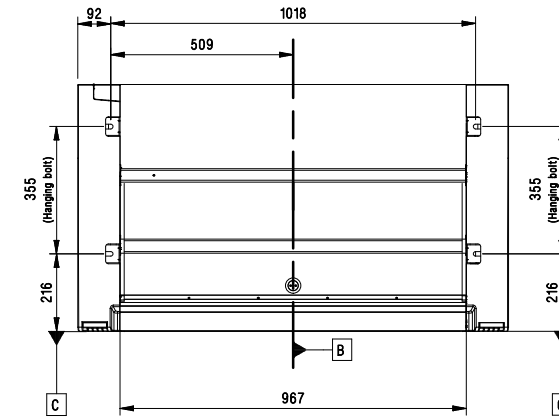
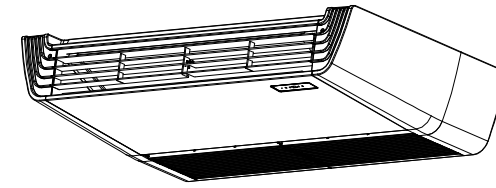
|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Air Intake                                 |
| 2 | Air Outlet                                 |
| 3 | Remote Controller<br>Signal Receiver       |
| 4 | Drain Hose Routing Hole                    |
| 5 | Refrigerant Pipe and<br>Cable Routing Hole |
| 6 | Gas Pipe Connection                        |
| 7 | Liquid Pipe Connection                     |



[ENTRY] ZVNQ30GM1E0

(Unit : mm)

|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Air Intake                                 |
| 2 | Air Outlet                                 |
| 3 | Remote Controller<br>Signal Receiver       |
| 4 | Drain Hose Routing Hole                    |
| 5 | Refrigerant Pipe and<br>Cable Routing Hole |
| 6 | Gas Pipe Connection                        |
| 7 | Liquid Pipe Connection                     |

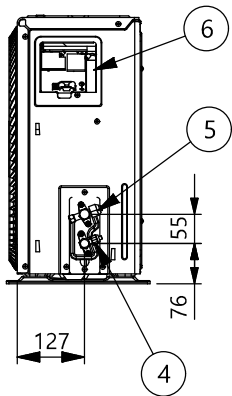
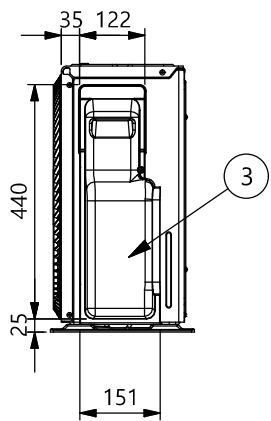
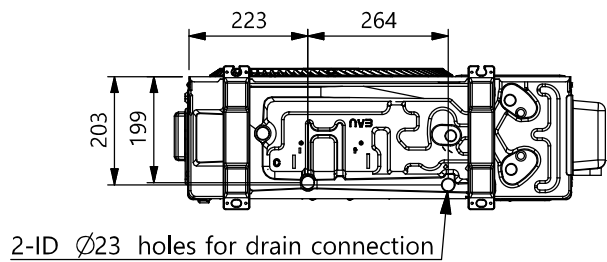
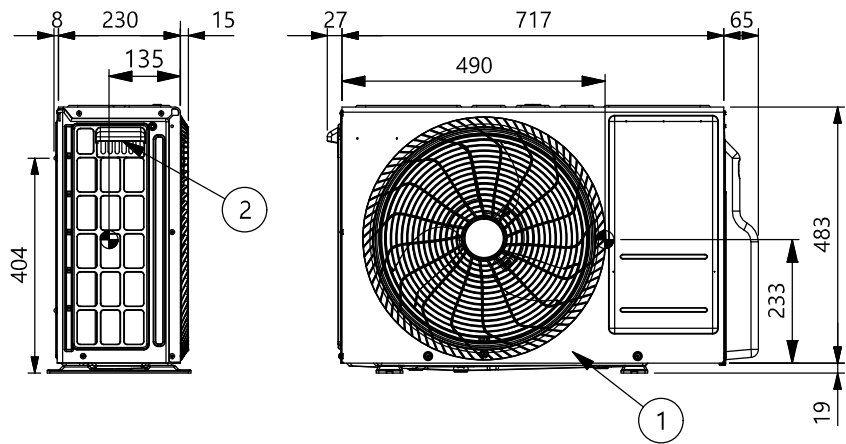
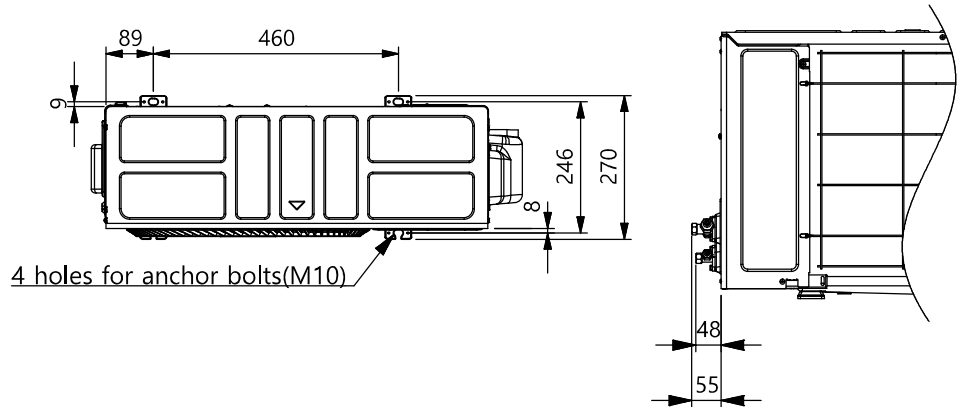
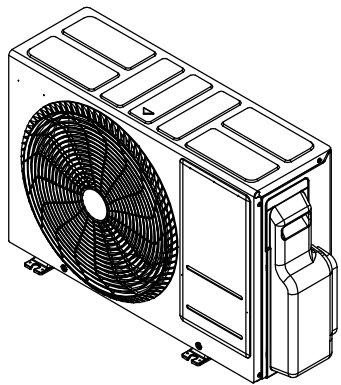


OUTDOOR UNIT

ZUAA1  
ZVUQ18GM1E0  
ZTUQ18GPLE0  
ZTUQ12GULA0  
ZBUQ12GL2A0

(Unit : mm)

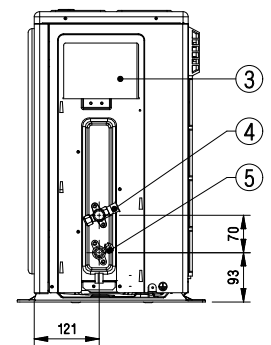
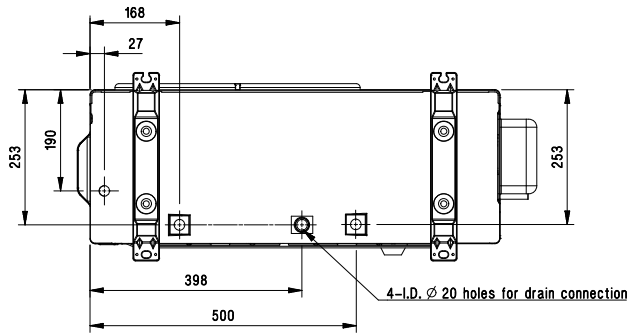
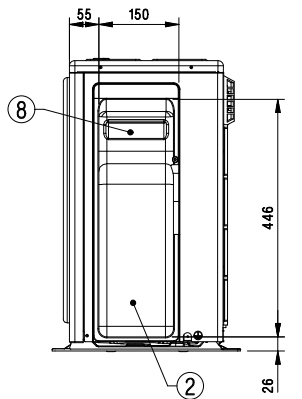
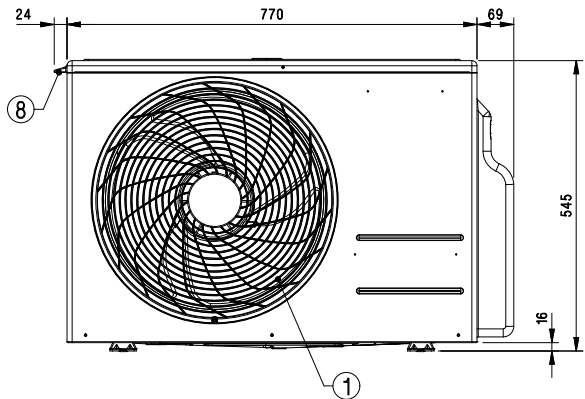
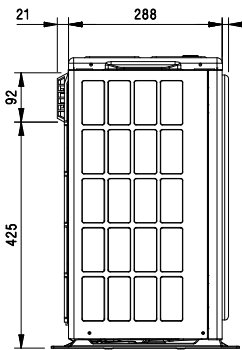
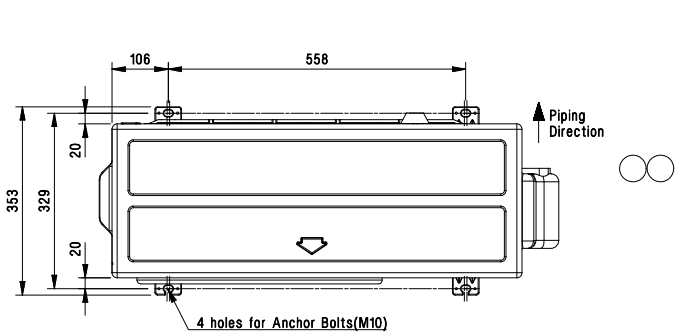
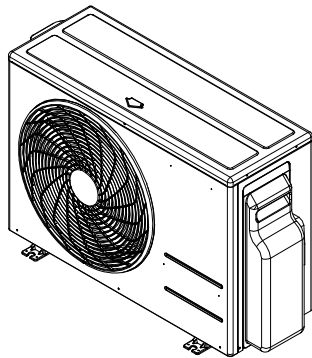
|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Air Outlet                                 |
| 2 | Handle                                     |
| 3 | SVC Valve and Control Cover                |
| 4 | Liquid Pipe Connection                     |
| 5 | Gas Pipe Connection                        |
| 6 | Power and Communication Cable Routing Hole |



ZUAB1  
ZTUQ18GTLA0  
ZBUQ18GL2A0

(Unit : mm)

|   | PART NAME                                  |
|---|--------------------------------------------|
| 1 | Air Outlet                                 |
| 2 | Control Cover & SVC Valve Cover            |
| 3 | Power and Communication Cable Connection   |
| 4 | Gas Pipe Connection                        |
| 5 | Liquid Pipe Connection                     |
| 6 | Power and Communication Cable Routing Hole |
| 7 | Refrigerant Pipe Routing Hole              |
| 8 | Handle                                     |
| 9 | Intake Air Temperature Sensor Cover        |



Side View  
(removed valve cover)

OUTDOOR UNIT

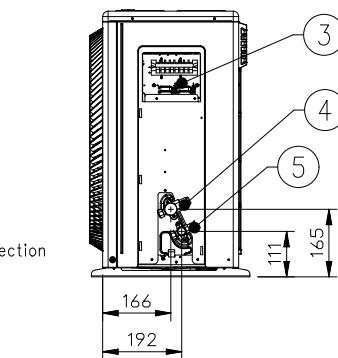
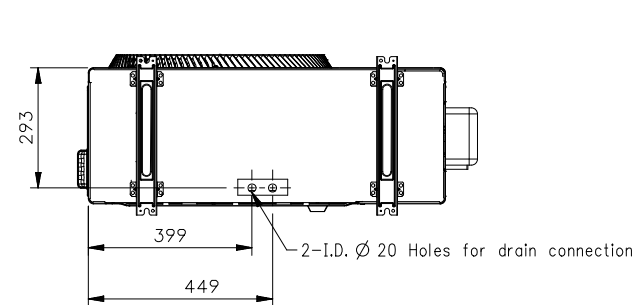
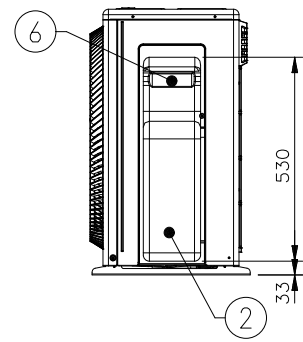
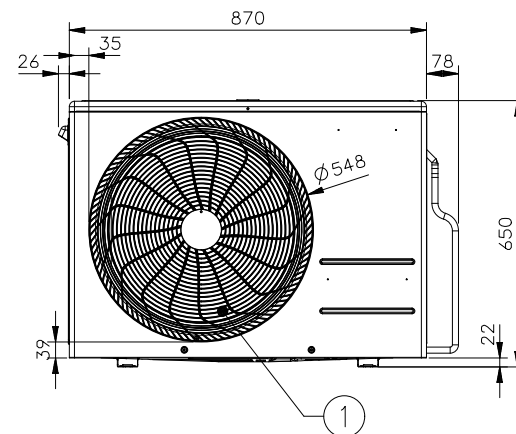
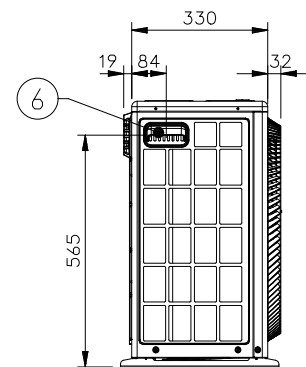
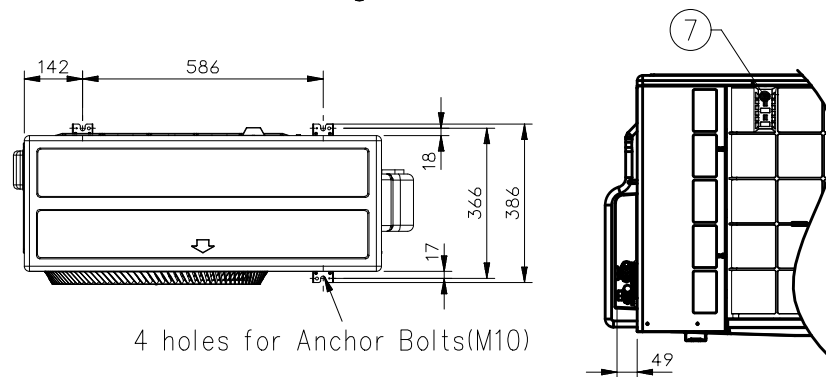
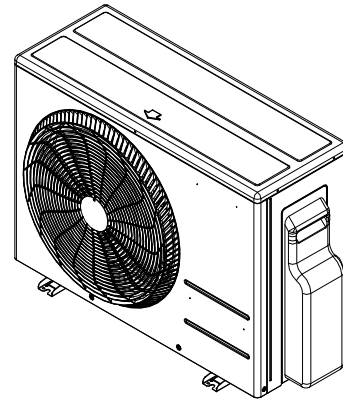
# OUTDOOR UNIT

ZUAC1  
ZVUQ24GM1E0  
ZVUQ30GM1E0  
ZVUQ36GM2E0  
ZBUQ24GL3A0

ZTUQ24GPLA0  
ZTUQ24GTLA0  
ZTUQ30GNLE0  
ZTUQ36GNLE0

(Unit : mm)

|   | PART NAME                                |
|---|------------------------------------------|
| 1 | Air Outlet                               |
| 2 | Control Cover & SVC Valve Cover          |
| 3 | Power and Communication Cable Connection |
| 4 | Gas Pipe Connection                      |
| 5 | Liquid Pipe Connection                   |
| 6 | Handle                                   |
| 7 | Intake Air Temperature Sensor Cover      |



Side View  
(removed valve cover)

ZUAD1 / ZUAD3  
ZTUQ36GNLA0  
ZTUQ36LNLA0  
ZTUQ36GYLA0  
ZPUQ36GR5A0

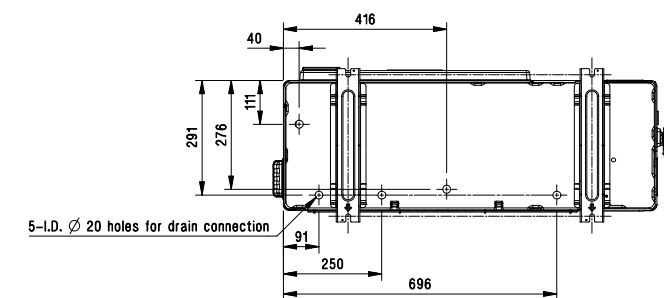
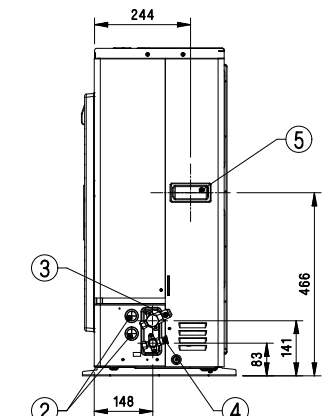
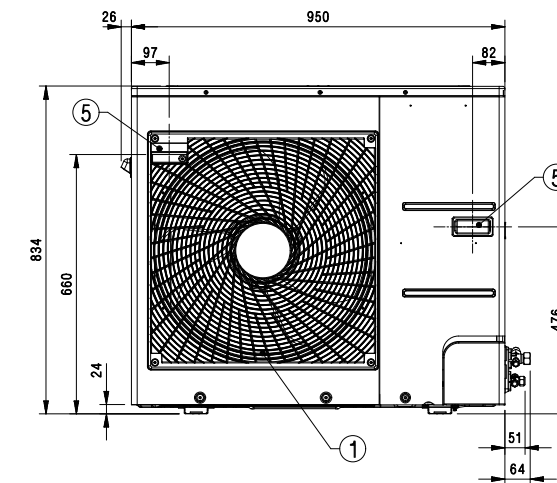
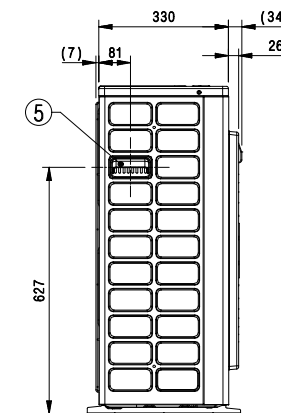
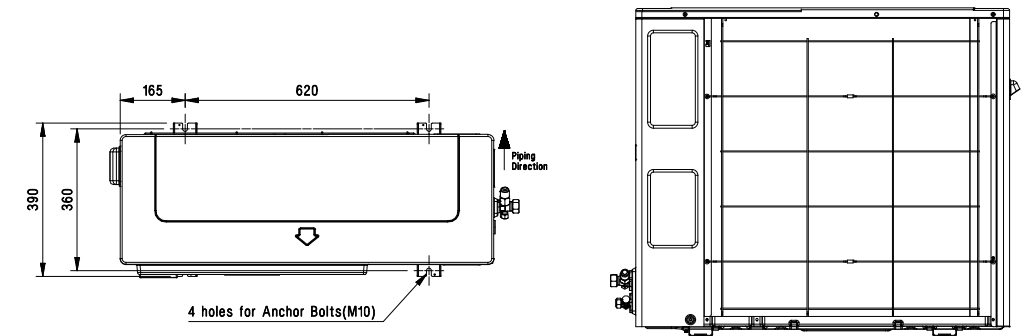
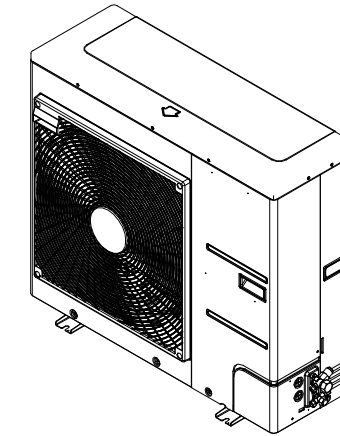
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ZBUQ48GM3A0  
ZBUQ48LM3A0  
ZVUQ48LM2A0  
ZTUQ60LMLA0  
ZVUQ60LM2A0

(Unit : mm)

|   | PART NAME                          |
|---|------------------------------------|
| 1 | Air Outlet                         |
| 2 | Power and Communication Cable Hole |
| 3 | Gas Pipe Connection                |
| 4 | Liquid Pipe Connection             |
| 5 | Handle                             |

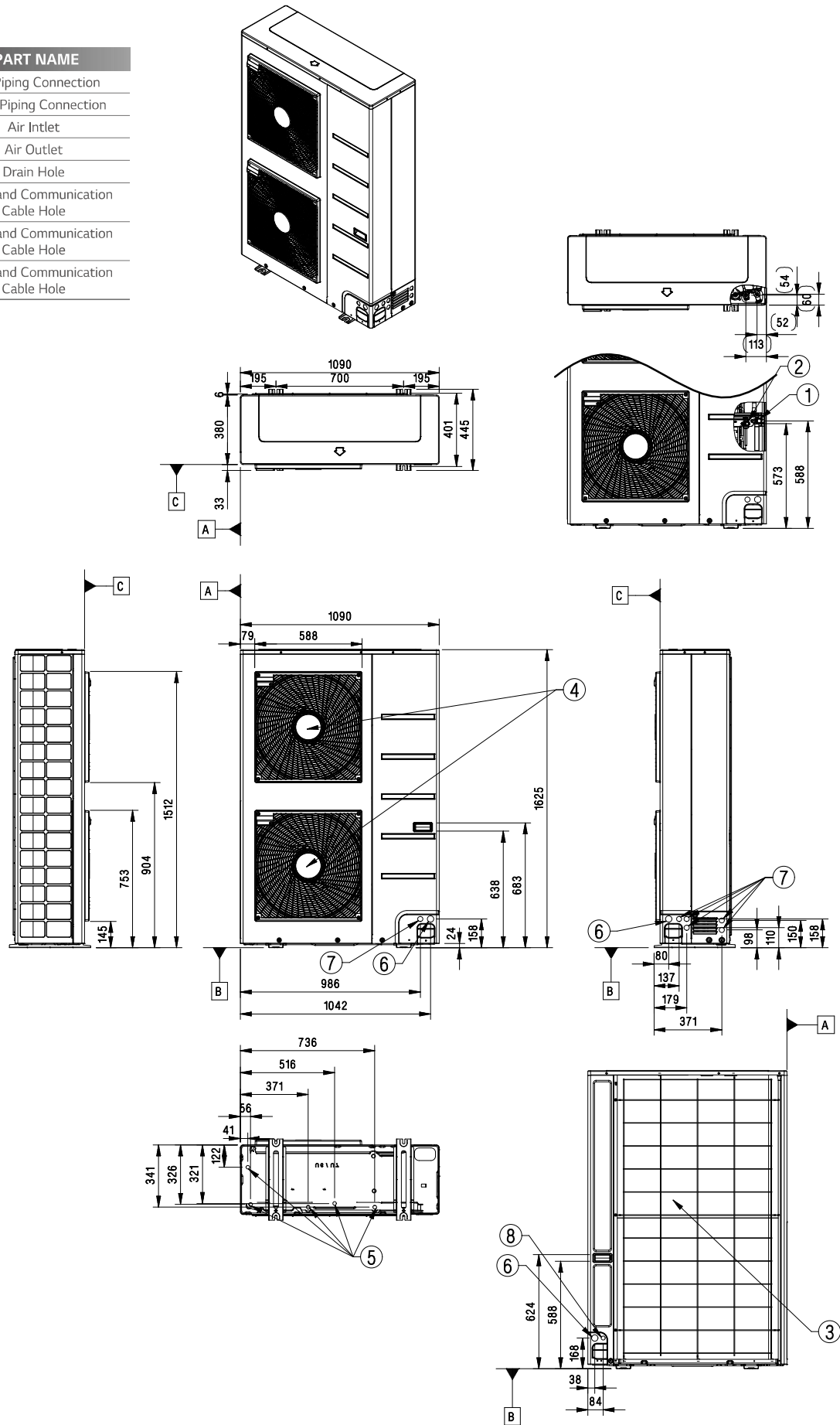


# OUTDOOR UNIT

APUQ100LFA0

(Unit : mm)

|   | PART NAME                          |
|---|------------------------------------|
| 1 | Gas Piping Connection              |
| 2 | Liquid Piping Connection           |
| 3 | Air Intlet                         |
| 4 | Air Outlet                         |
| 5 | Drain Hole                         |
| 6 | Power and Communication Cable Hole |
| 7 | Power and Communication Cable Hole |
| 8 | Power and Communication Cable Hole |

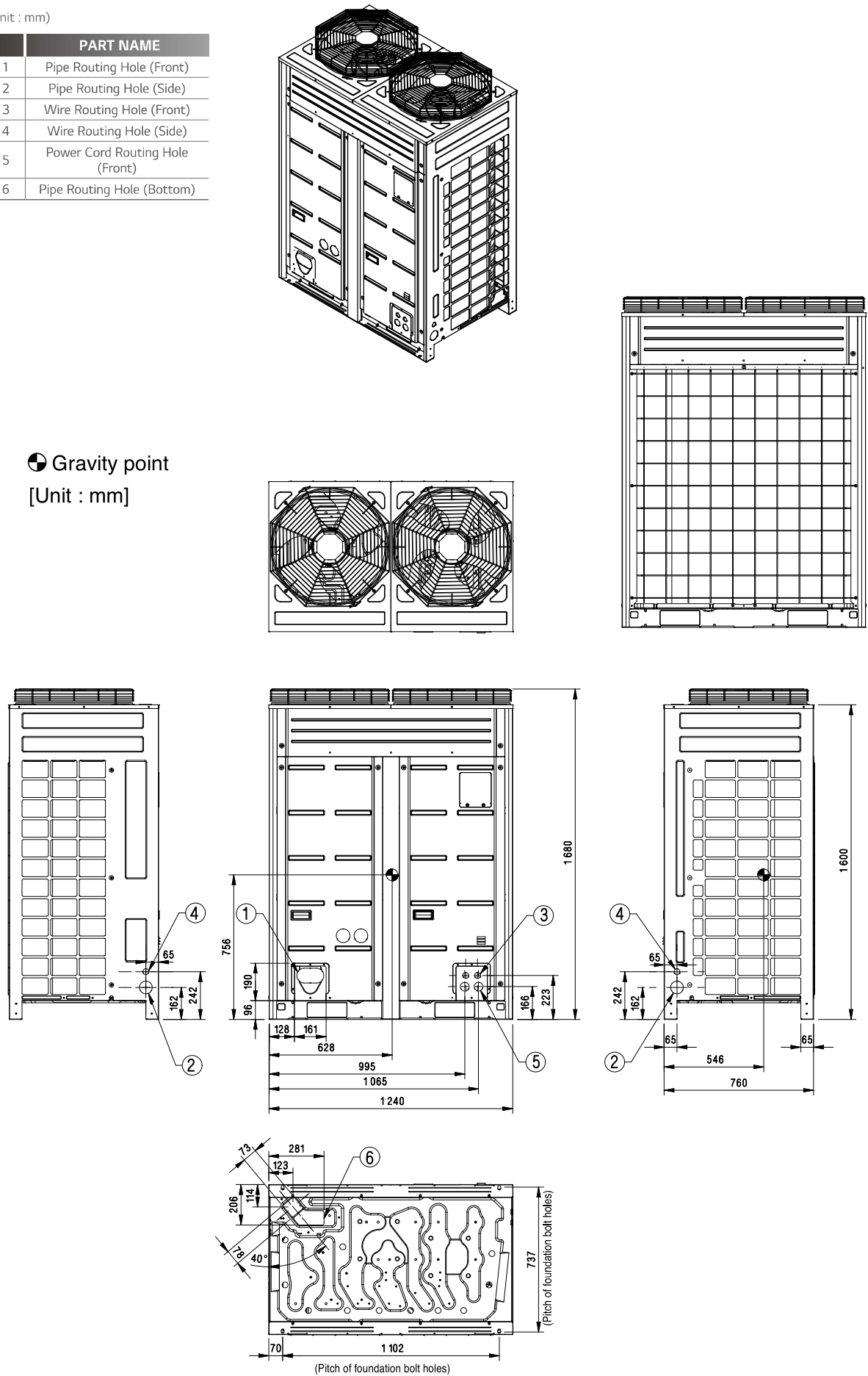


APUQ150LNA0 / APUQ200LNA0

(Unit : mm)

|   | PART NAME                       |
|---|---------------------------------|
| 1 | Pipe Routing Hole (Front)       |
| 2 | Pipe Routing Hole (Side)        |
| 3 | Wire Routing Hole (Front)       |
| 4 | Wire Routing Hole (Side)        |
| 5 | Power Cord Routing Hole (Front) |
| 6 | Pipe Routing Hole (Bottom)      |

Gravity point  
[Unit : mm]



## NOTE

[illegible]

86 | 87

## NOTE

[illegible]