



2018 / 2019  
RESIDENTIAL  
AIR CONDITIONERS

# UNIQUE FEATURES



Embedded Wi-Fi



Smart Diagnosis



Plasmaster Ionizador PLUS



3M Micro Dust Filter



10-Year Inverter Compressor Warranty



Low Heating



Mode Lock



Low Noise





# SMART Embedded Wi-Fi

Control your air conditioners via using the smart internet devices as Android or iOS based smartphones. This advanced technology provides you the best convenience.



## LG Smart ThinQ



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



LG Smart ThinQ

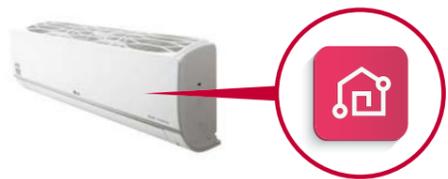
## How it Works

### Embedded Wi-Fi modem

Check "LG Smart ThinQ" on your air conditioner.

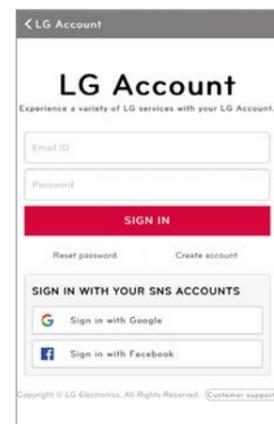


By embedded Wi-Fi modem, get ready for innovation without boundaries.



### Easy Registration and Log-in

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



### Wi-Fi Connectivity

Let's every member of your family choose their own preferred air conditioning temperature and fan speed, then save the settings in their app to run later. You can save the setting for each air conditioner as well.

## Multiple Devices



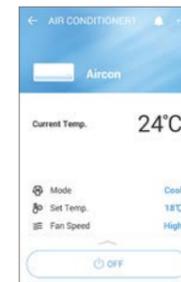
## Multi-Control



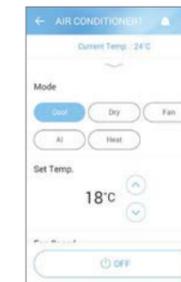
## Benefit

### Simple operation for various functions

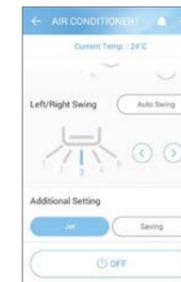
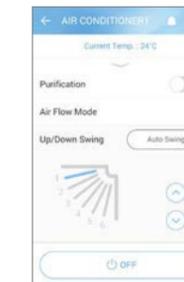
On/Off, Current Temp



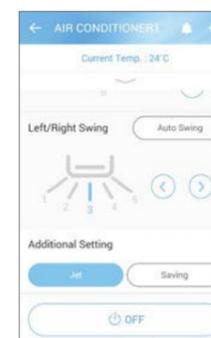
Mode, Set Temp



Vane Control



### Straight forward Management



Reservation



Energy Monitoring



Smart Diagnosis



Filter Management



### Integrated Home Appliances Control

Control / Monitor all your LG appliances from one place.



Access your air conditioner anytime and from anywhere with a Wi-Fi equipped device and LG's exclusive control app, Smart ThinQ.



SMART  
**Smart Diagnosis**

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.



\* Specifications may vary for each model.  
\* When connected to Multi ODU, Smart Diagnosis function may not be supported.

**What is the Smart Diagnosis?**

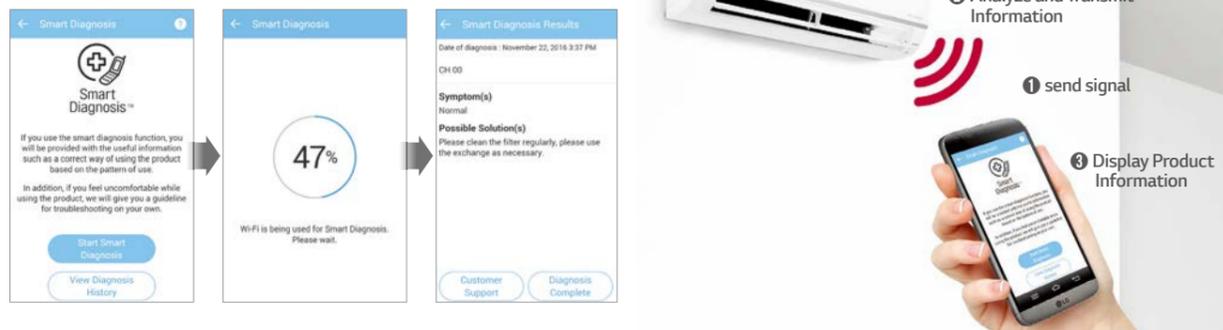
Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

\* Builds upon widespread smartphone use and offers greater USP diversification  
\* Perfect for consumers who are unable to view information about their air conditioner via a display or remote control.

**How it works**

Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

By using "LG Smart ThinQ" App and clicking "Start Smart Diagnosis," monitor and check diagnosis results conveniently via Wi-Fi.



\* When the model doesn't provide embedded Wi-Fi, diagnose by buzzer sound with the same app and remote controller.



PERFECT HEALTHCARE  
**Plasmaster™ Ionizer<sup>PLUS</sup>**

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

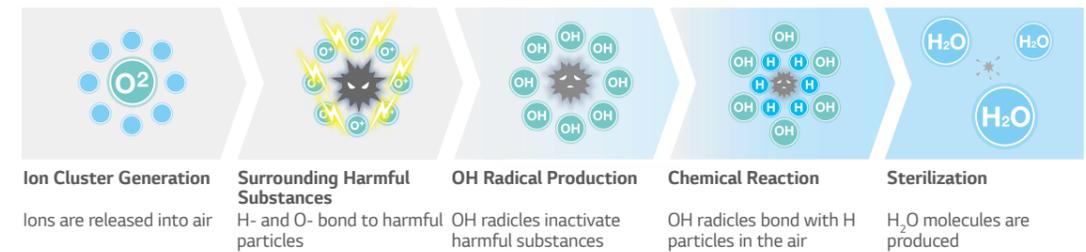


\* Specifications may vary for each model.  
\* Depending on the experimental conditions.

**How it works**

**Sterilization and Deodorization (Utilizes Over 3 Million Ions)**

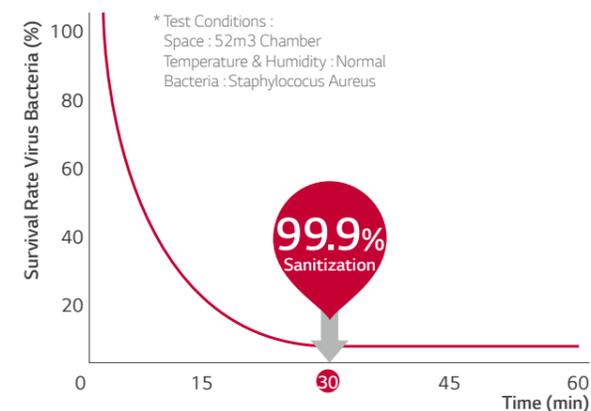
Plasmaster Ionizer+ reduces harmful microscopic particles by infusing the air passing through the air conditioner with over 3 millions ions.



**Test Result**

**Sterilization Performance Evaluations**

Sterilize Bacteria (E.coli colon bacillus) over 99.9% in 30 min.



**2.1 odor strength decrease in 60 minutes**

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

| Odor Strength                        | 1              | 2                 | 3              | 4                |
|--------------------------------------|----------------|-------------------|----------------|------------------|
| Offensive odor substance sensitivity | Mountain smell | Indoor life smell | Bathroom smell | Food waste smell |
| Odor strength level                  | Light          | Moderate          | Strong         | Very Strong      |



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



PERFECT HEALTHCARE

# MiCRO Dust Filter (PRESTIGE PLUS)

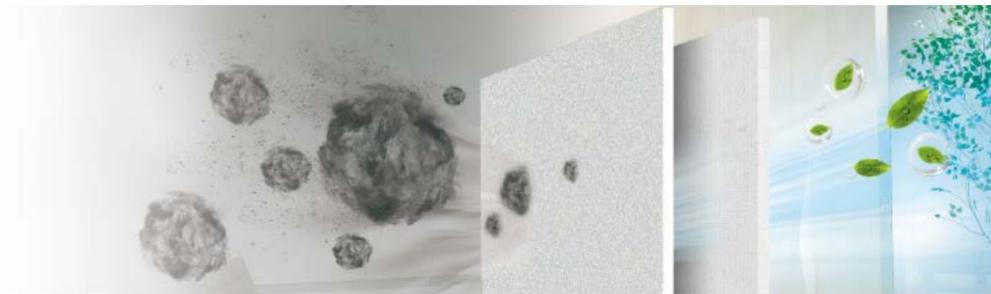
The Micro-Dust Filter, a high-airflow, low-noise filter, employs a strong electrostatic charge on its surface to attract and trap harmful microscopic substances including pollen and fine dust, which are known to cause respiratory diseases.



\* Specifications may vary for each model.

## What is the MiCRO Dust Filter?

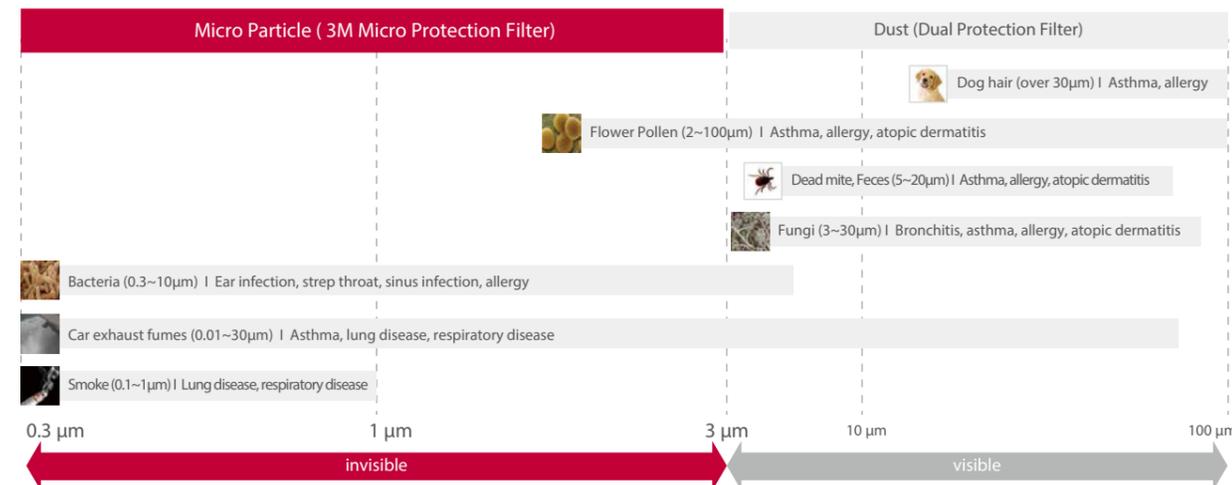
The Micro Dust Filter captures and eliminates harmful micro-particles, including bacteria and dust, in order to deliver fresh, clean air.



## Benefit

### Eliminates Allergens and Disease-Causing Particles

Cleans and makes air fresh by removing microscopic particles as small as 0.3µm in size.



EXTREME DURABILITY

# 10-Year Inverter Compressor Warranty

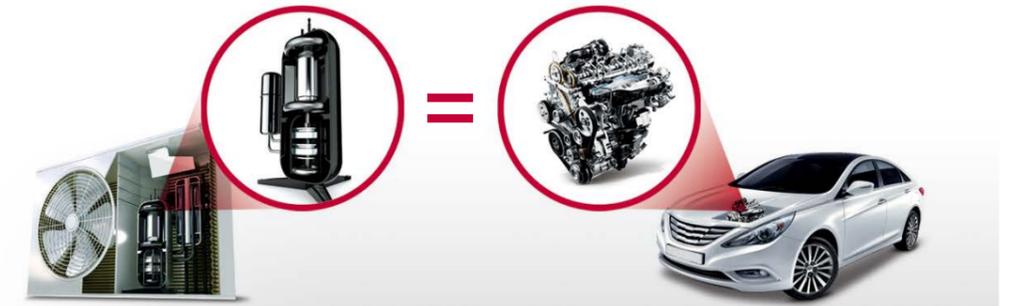
LG, with confidence in product quality, preserves is better lives for customers by providing 10 years warranty for Inverter Compressor of Air conditioners.



\* Specifications may vary for each model.

## What is the 10 Year Warranty?

The compressors is for the Air Conditioner what the engine is to the vehicle. With the 10year warranty on the compressor, users can enjoy the benefits of LG air conditioner for a longer period on time.



## Benefit & Verification

### Reliable Air Conditioner

Product safety is emphasized by offering a 10-year warranty on the compressor to reassure customers about product durability.



### Cerification

TUV Rheinland, Long Term Accelerated-reliability Test & High Marginal Test

- \* Long Term Accelerated-Reliability test  
LG's unique testing method with reinforced operating condition for a product life assurance to test and determine the product life cycle in a short period of time by accelerating the life cycle.
- \* High Marginal Test  
Test method to secure durability in various adverse conditions that may occur in the field by performing comp reliability test against higher pressure and temperature than the designed range of pressure and temperature which the comp operates in.
- \* Verification obtained from TUV Rheinland for 10-year product life cycle



COMFORT  
**Low Heating**

Low Heating will keep your place warm (9°C) and preventing from damages due to freezing facilities, with low energy



**How it works**

The Micro Dust Filter captures and eliminates harmful micro-particles, including bacteria and dust, in order to deliver fresh, clean air.



**Benefit**



COMFORT  
**Mode Lock**

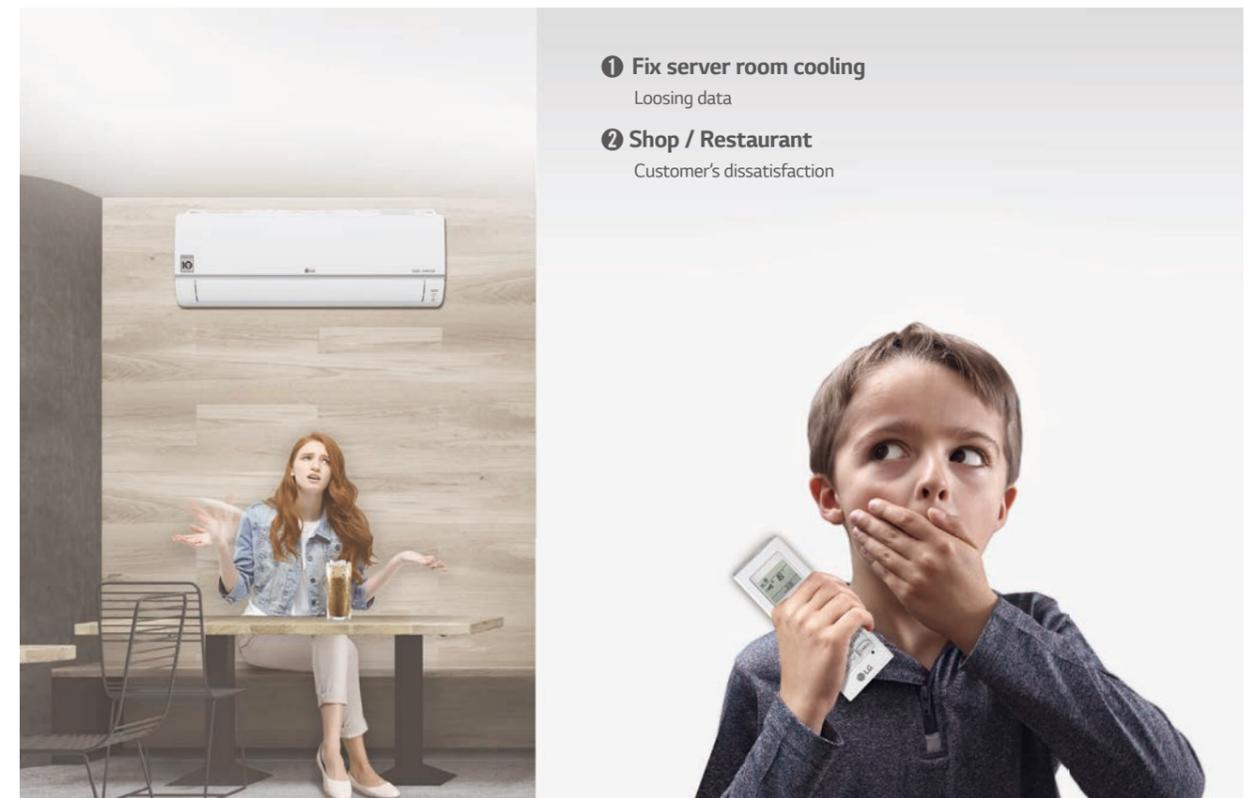
LG air conditioners protect your place and buseinss from inappropriate control of unauthorized users



- ❶ Fix server room cooling  
Loosing data
- ❷ Fix Shop / Restaurant cooling

**Pain point**

People in special or commercial place can mistakenly and accidentally change the operation mode. It may cause very serious problem in Server room and Shop/ Restaurant



- ❶ Fix server room cooling  
Loosing data
- ❷ Shop / Restaurant  
Customer's dissatisfaction

**COMFORT**  
**Low Noise**

LG Air Conditioners operate at 19dB low noise level, moreover provide healthy soft air by just 1 touch.



\* Specifications may vary for each model.

**How It Works**

**LG's Unique Skew Fan**

By minimizing the surface pressure of the fan blade when in contact with the air peak noise are reduced to a level that is among the lowest in the world.



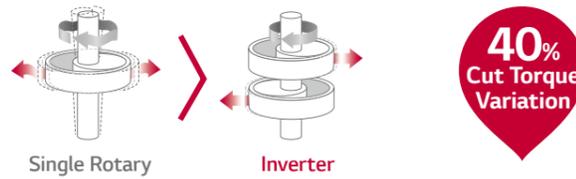
**BLDC Fan Motor**

With strong torque and powerful ND magnetism as well as precise speed control of 13 different steps for smooth operation, the BLDC motor provides substantial air volume and high static pressure, while keeping electrical and mechanical noise lower, and making high-speed operation available.

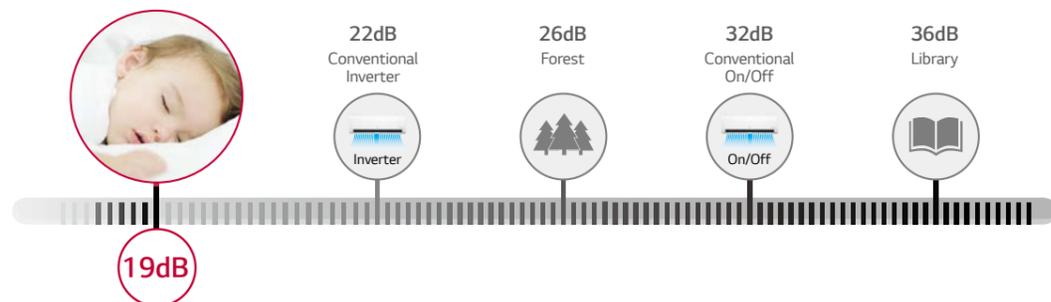


**ALVC (Active Low Vibration Control)**

A speed-error component estimates the load to compensate for imbalances, which are the primary causes of vibration and noise, enabling the rotation of the motor without vibration at low Hz levels.



**Benefit**



**SPECIFICATION**

**PRESTIGE PLUS**



F09KM / F12KM

| Model                     | Unit   | F09KM   | F12KM  |                             |
|---------------------------|--|---|--|-----------------------------|
| Capacity                  | Cooling  | Min - Reted - Max<br>kW<br>1,024 / 8,536 / 13,649<br>kcal/h<br>- / 2,151 / -  | 0.30 / 2.50 / 4.00<br>1,024 / 11,940 / 14,502<br>- / 3,010 / - |                             |
|                           | Heating  | Min - Reted - Max<br>kW<br>1,024 / 10,926 / 23,544<br>kcal/h<br>- / 2,753 / - | 0.30 / 3.20 / 6.90<br>1,024 / 13,650 / 24,977<br>- / 3,440 / - |                             |
|                           | Heating - 7°C  | Max<br>kW<br>4.30   | 4.70   |                             |
| Power Input               | Cooling  | Min - Reted - Max<br>W<br>110 / 593 / 1,700                                   | 60 / 490 / 1,400<br>60 / 833 / 1,400                           |                             |
|                           | Heating  | Min - Reted - Max<br>W<br>110 / 593 / 1,700                                   | 110 / 785 / 1,700  |                             |
| Running Current           | Cooling  | Min - Reted - Max<br>A<br>0.70 / 2.50 / 6.00                                  | 0.70 / 3.90 / 6.00   |                             |
|                           | Heating  | Min - Reted - Max<br>A<br>1.05 / 2.90 / 7.40                                  | 1.05 / 3.70 / 7.40   |                             |
| EER                       | W/W<br>(Btu/h)/W   | 5.10<br>17.42   | 4.20<br>14.33  |                             |
| SEER                      | -  | 9.40  | 9.10   |                             |
| P design C                | kW   | 2.5   | 3.5  |                             |
| COP                       | W/W  | 5.40  | 5.10   |                             |
| SCOP                      | -  | 5.20  | 5.10   |                             |
| P design H                | kW   | 3.2   | 3.3  |                             |
| Energy Label Grade        | Cooling  | -   | A+++   |                             |
|                           | Heating  | -   | A+++   |                             |
| Annual Energy Consumption | Cooling  | kWh/year<br>94  | 135  |                             |
|                           | Heating  | kWh/year<br>862   | 1,045  |                             |
| Power Supply              | Ø, V, Hz   | 1, 220-240, 50  | 1, 220-240, 50   |                             |
| Available Voltage Range   | V  | 187 - 276   | 187 - 276  |                             |
| Power Factor              | Cooling  | %<br>96.0   | 96.0   |                             |
|                           | Heating  | %<br>96.0   | 96.0   |                             |
| Moisture Removal          | l/h  | 1.70  | 1.70   |                             |
| Indoor                    | Air Flow Rate  | Cooling, Max / H / M / L  | m³/min<br>12.4 / 11.1 / 8.7 / 6.6                              | 12.4 / 11.1 / 8.7 / 6.6     |
|                           |  | Heating, Max / H / M / L  | m³/min<br>14.3 / 11.1 / 8.7 / 6.6                              | 14.3 / 11.1 / 8.7 / 6.6     |
|                           | Fan Motor Speed  | Cooling, Max / H / M / L / SL   | rpm<br>1300/1020/960/900/840/780                               | 1300/1020/960/900/840/780   |
|                           |  | Heating, Max / H / M / L / SL   | rpm<br>1400/1200/1120/1020/900/780                             | 1400/1200/1120/1020/900/780 |
|                           | Sound Pressure Level                                     | Cooling, Max / H / M / L / SL   | dB(A)<br>- / 42 / 37 / 29 / 19                                 | - / 42 / 37 / 29 / 19       |
|                           | Sound Power Level  | Heating, Max / H / M / L  | dB(A)<br>- / 42 / 37 / 29                                      | - / 42 / 37 / 29            |
| Dimension (W x H x D)     | Net  | mm<br>875 x 295 x 235   | 875 x 295 x 235  |                             |
| Weight                    | Net  | kg<br>11.5  | 11.5   |                             |
| Disconnect Switch         | A  | 20A   | 20A  |                             |
| Outdoor                   | Air Flow Rate  | Max   | m³/min<br>49.0   | 49.0                        |
|                           |  | CFM   | 1730   | 1730                        |
|                           | Sound Pressure Level                                     | Cooling, Reted  | dB(A)<br>48  | 48                          |
|                           |  | Heating, Reted  | dB(A)<br>50  | 50                          |
|                           | Sound Power Level  | dB(A)<br>65   | 65   |                             |
|                           | Dimension (W x H x D)                                    | Net   | mm<br>870 x 650 x 330  | 870 x 650 x 330             |
| Weight                    | Net  | kg<br>43.0  | 43.0   |                             |
| Operation Range           | Cooling  | °C DB<br>-10 - 48   | -10 - 48   |                             |
|                           | Heating  | °C DB<br>-25 - 24   | -25 - 24   |                             |
| Piping                    | Liquid   | in.<br>6.35 (1/4)   | 6.35 (1/4)   |                             |
|                           | Gas  | in.<br>9.52 (3/8)   | 9.52 (3/8)   |                             |
| Between Indoor & Outdoor  | Piping Length  | m<br>3 / 7.5 / 20   | 3 / 7.5 / 20   |                             |
|                           | Max. Elevation Difference                                | m<br>10   | 10   |                             |
| Refrigerant               | Type   | -<br>R32  | R32  |                             |
|                           | Pre Charge   | g<br>1000   | 1000   |                             |
|                           | Additional Charge  | g/m<br>20   | 20   |                             |
| Functions                 | Temperature Control                                      | 0   | 0  |                             |
|                           | Prefilter (washable/anti-fungus)                         | 0   | 0  |                             |
|                           | Ionizer (Plasmaster Ionizer Plus or Plasmaster Ionizer)  | 0   | 0  |                             |
|                           | 3M Filter (Multi Protection Filter or Micro Dust Filter) | 0   | 0  |                             |
|                           | Auto Clean   | 0   | 0  |                             |
|                           | CHAOS Wind (Auto Wind)                                   | 0   | 0  |                             |
|                           | Steps, Fan/Cool/Heat                                     | 5/6/6   | 5/6/6  |                             |
|                           | Airflow Direction Control (up & Down)                    | 0   | 0  |                             |
|                           | Airflow Direction Control (left & right)                 | 0   | 0  |                             |
|                           | Remote Controller Type                                   | Better  | Better   |                             |
|                           | Setting Temperature Range (Cooling/Heating)              | 18-30 / 16-30   | 18-30 / 16-30  |                             |
|                           | Self Diagnosis   | 0   | 0  |                             |
|                           | Timer  | 0   | 0  |                             |
|                           | Sleep Operation  | 0   | 0  |                             |
|                           | Soft Dry Operation                                       | 0   | 0  |                             |
|                           | Restart Delay (minute)                                   | 3min  | 3min   |                             |
|                           | Deice Control (Defrost)                                  | 0   | 0  |                             |
| Hot Start                 | 0  | 0   |  |                             |
| Jet Cool                  | 0  | 0   |  |                             |
| Low Ambient Operation     | 0  | 0   |  |                             |
| LG Smart AC (Wi-Fi App.)  | Embedded   | Embedded  |  |                             |
| Dry Contact               | 0  | 0   |  |                             |
| Wired Remote Controller   | 0  | 0   |  |                             |
| Low Heating MODE          | 0  | 0   |  |                             |





[www.lgeaircon.com](http://www.lgeaircon.com)

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