2013

# Split System Air Conditioner

Stylish Series

ECONO Series

Efficient AC Technologies


LG
Life's Good

# Stylish Series

With the latest technology & sleek design, LG
Stylish offers an attractive air conditioning solution.

# ECONO Series

## Efficient Air Conditioning Technology

With LG's air conditioning technologies you can actively manage & reduce energy consumption & operating costs.

## Advanced Air Filtration

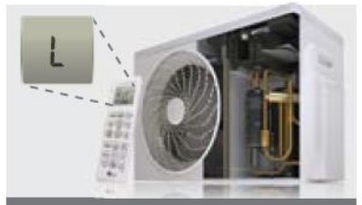
Numerous filters, together with the Plasmaster Ioniser, help to rid the air of allergens & odours.

## Quiet & Comfortable

With our skew fan and BLDC motor technology, LG air conditioners operate at a low indoor sound level.



## 1 Efficient Air Conditioning Technology



Active energy control

Wi-Fi Smart Control#


Low Standby Power

# Wi-Fi Smart Control applies to Stylish Series

## 2 Advanced Air Filtration

Plasmaster Ioniser

3M Micro Protection Filter

## 3 Quiet & Comfortable

BLDC Motor

Skew Fan

## Advanced Features

# Advanced Features

## Efficient air conditioning technologies

With LG's air conditioning technologies you can actively manage & reduce energy consumption & operating costs.

**1** **Active Energy Control :** Active Energy Control features two control levels that improve efficiency by limiting the speed of the compressor reducing power consumption.

**2** **Wi-Fi Smart Control :** Wi-Fi Smart Control helps to keep running costs down, providing energy usage information in real time and alerting the user when electricity consumption is about to exceed pre-established limits

**3** **Low Standby Power :** Low Standby Power prevents energy wastage while the air conditioner is in standby mode

**4** **D.R.E.D (Demand Response Enabled Device) / Peak Smart Technology**
DRED provides a method that enables the energy consumption of the air conditioner to be capped when the electricity network reaches peak demand – this is done remotely, usually by the electricity supplier. In some areas, you may be eligible to receive a reward or rebate from the electricity supplier – you should contact the electricity supplier to see if you qualify.

## Advanced Air Filtration

A filter featuring 3M technology, combined with the Plasmaster Ioniser help to reduce common allergens such as dust, pollen & bacteria.

**5** Plasmaster Ioniser : The Plasmaster Ioniser generates over 2 million special plasma ions, which filtrate the air in the indoor environment, and inside the air conditioning unit itself.

**6** Plasmaster Auto Cleaning : The auto cleaning function helps to minimise the formation of mould & bacteria on the heat exchanger.

**7** **3M Micro Protection Filter :** The 3M Micro Protection Filter uses electrostatic charges to capture microscopic particles including allergens such as pollen & dust.

**8** **Dual Protection Filter :** The Dual Protection Filter captures dust & bacteria.

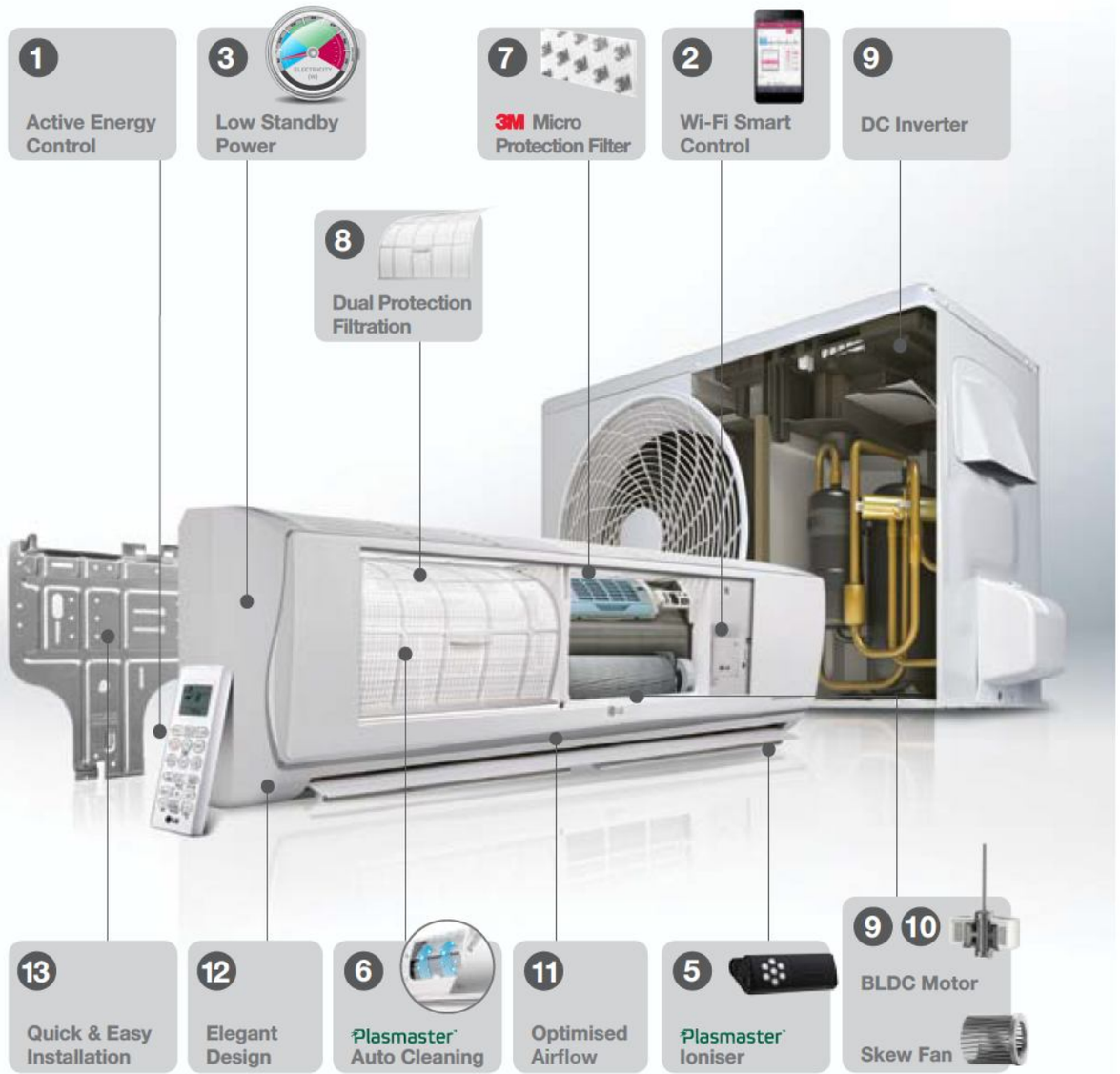
## Quiet & Comfortable

LG's new skew fan and low vibration compressor reduce noise.

**9** **Sleep Mode Sound Level :** With the 15° tilted skew fan and BLDC fan motor, in Sleep Mode, the sound level is a quiet 19db.
* Available on Models : R09AWN-13, R12AWN-13, E09AWN-13, E12AWN-13

**10** **Outdoor Quiet Mode :** Lowers outdoor unit sound level by 3dB.

**11** **Optimised 4-way Airflow :** LG air conditioner disperses air in quickly and efficiently in multiple directions using the 4 way swing function.




## Elegant Design

LG air conditioners not only have advanced features, but also feature well-thought out design.

**12** Moving panel / Clean opening / Sleek design

## Quick & Easy Installation

LG air conditioners are designed to be easily installed.

* Should be installed by a properly qualified installer in accordance with local State regulations

**13** Bigger tubing space / Installation plate improvement / Detachable cover / Elevated service valve / Installation support clip

# Model Line-Up

## Stylish Series

Indoor Unit : R09AWN-NB13
Outdoor Unit : R09AWN-UB13

Indoor Unit : R12AWN-NB13
Outdoor Unit : R12AWN-UB13

Indoor Unit : R18AWN-NC13
Outdoor Unit : R18AWN-UC13

Indoor Unit : R24AWN-NC13
Outdoor Unit : R24AWN-UC13

Indoor Unit : R28AWN-NC13
Outdoor Unit : R28AWN-UC13


## Econo Series


Indoor Unit : E09AWN-NB13
Outdoor Unit : R09AWN-UB13

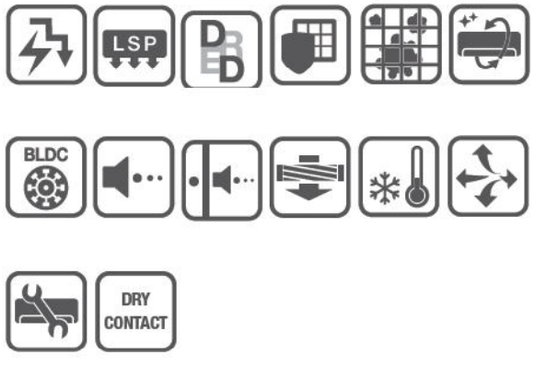
Indoor Unit : E12AWN-NB13
Outdoor Unit : R12AWN-UB13

Indoor Unit : E18AWN-NC13
Outdoor Unit : R18AWN-UC13

Indoor Unit : E24AWN-NC13
Outdoor Unit : R24AWN-UC13

Indoor Unit : E28AWN-NC13
Outdoor Unit : R28AWN-UC13

Indoor Unit : E32AWN-NV13
Outdoor Unit : E32AWN-UV13




## Key Features

| | | Stylish Series | Econo Series |
|---|---|---|---|
| Efficient Air Conditioning Technologies | Active Energy Control | ● | ● |
| | Wi-Fi Smart Control | Option | |
| | Low Standby Power | ● Except R09 / R12 | ● Except E09 / E12 |
| | DRED | ● | ● |
| Advanced Air Purification | Plasmaster Ioniser | ● | |
| | 3M Micro Protection Filter | ● | ● Except E32 |
| | Dual Protection Filter | ● | ● |
| | Plasmaster Auto Cleaning | ● | |
| | Auto Cleaning | | ● |
| Quite & Comfortable | BLDC Motor | ● | ● |
| | Sleep Mode Sound Level | ● Available on R09 / R12 | ● Available on E09 / E12 |
| | Outdoor Quiet Mode | ● | ● |
| | Skew Fan | ● | ● |
| | Jet Cool | ● | ● |
| | Optimised 4-Way Airflow | ● | ● |
| Quick & Easy Installation | Quick & Easy Installation | ● | ● |
| Control | Dry Contact | ● | ● |

# Efficient air conditioning technologies

Experience LG's efficient inverter air conditioning technologies

## Active energy control

Active Energy Control allows the user to adjust the energy levels to improve cooling efficiency and reduce power consumption.

**3 Steps**

**Normal Mode**

**Energy Control Level 1**

**Energy Control Level 2**

## 1 How it works

Press the Energy Control (ENERGY CONTR) button to limit the maximum speed of the compressor which in turn limits electricity consumption.

### Normal Mode

Normal Inverter controlled operation.

### Energy Control Level 1

Push 'ENERGY CONTR' button once to select Level 1 reducing power consumption by 36%.


### Energy Control Level 2

Push 'ENERGY CONTR' button twice to select Level 2, reducing power consumption by 64%.


## 2 How to Use

With Active Energy Control function, you can control energy consumption manually.

**Normal Inverter controlled operation**

High level of people & activity

**Energy Control Level 1**

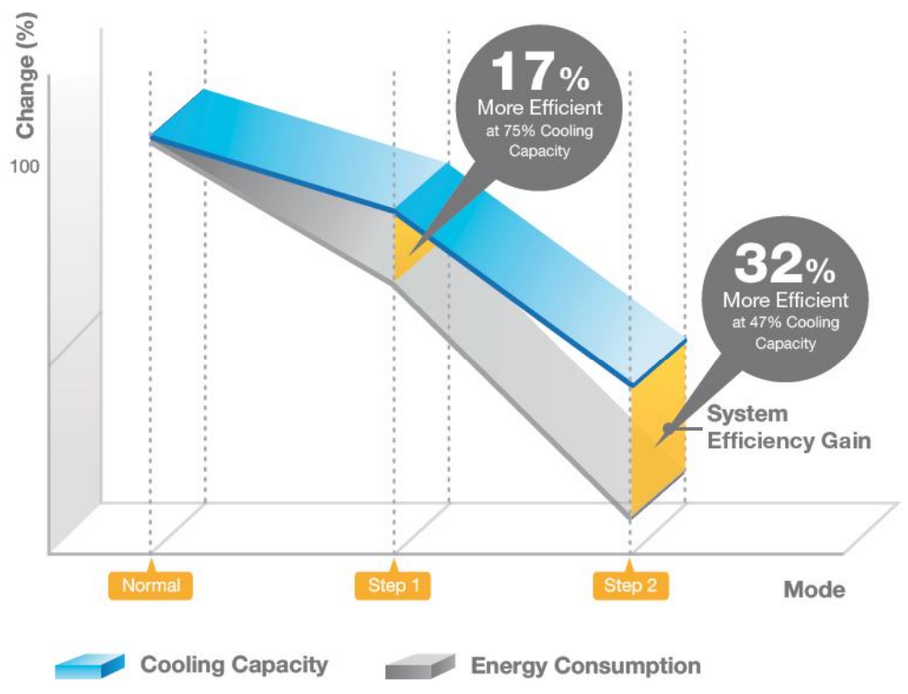
Medium level of people & activity

**Energy Control Level 2**

Low level of people & activity

## 3 Function of Active energy control

Active Energy Control governs the electricity consumption in the cooling mode, providing improved efficiency at a reducing cooling output.




Test Standard AS/NZS 3823.1.1
Normal Temperature
(Indoor Temperature : 27°C, Outdoor Temperature : 35°C)

# Efficient air conditioning technologies

Experience LG's efficient inverter air conditioning technologies


## Wi-Fi Smart Control#

Wi-Fi Smart Control can help you to keep your running costs down, providing you with energy usage information in real time and alerting you when your electricity consumption is about to reach your pre-set limits.

# WLAN Module required (sold separately). Feature can be accessed using LG Smart AC app on Android or iOS smartphone.

## 1 Control AC out of home

LG Smart AC app lets you access and control your air conditioner using your smartphone.


❶ On & Off
❷ Set operation mode (cool, heat, eco, fan)
❸ Set desired temperature
❹ Adjust Fan Speed
❺ Details


Purify : Allows you to turn on Air Purify Function.


Air Flow: Allows you to control the air flow direction: Up/Down Swing or Left/Right Swing.


Timer: Allows you to set the timer for Off/On/Sleep.


Filter Alert: The Filter Alert function will notify you on your smartphone when its time for the 3M Micro Filter to be changed.

## 2 Check my Energy Consumption and Alert

Provides current and accumulated electricity consumption data daily, weekly and monthly and it will alert you when electricity consumption hits your pre-programmed limit.



## 3 Setting up 'My Favourite Control'

Enables you to save and easily access your favourite settings.


❶ Set your preferred temperature, fan speed, air flow, operation mode (cool/ dry/heat) and save in a special icon.


❷ Just touch the icon to initiate your chosen settings.

### WLAN Module


WLAN Module required (sold separately.)

Model name - PCRCUDT2

# Efficient air conditioning technologies

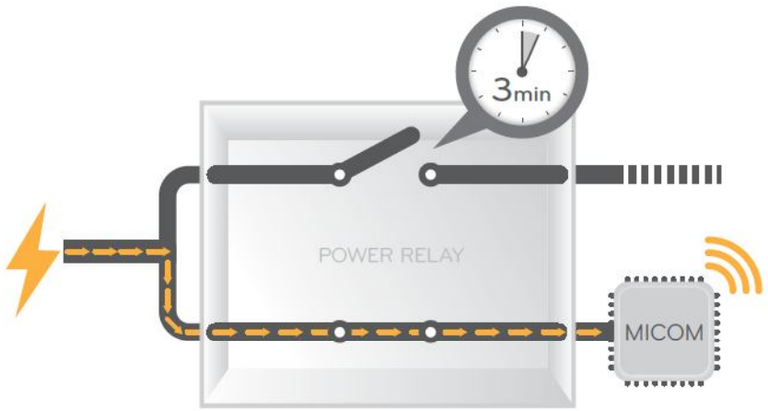
Experience LG's efficient inverter air conditioning technologies

## Low Standby Power

The Low Standby Power feature minimises standby electricity consumption when the air conditioner is not in use.

### How it works

The Low Standby Power mode operates three minutes after the air conditioner is turned off via the remote control. During this time, the system only supplies power to the circuitry required for communication between outdoor and indoor units.




## D.R.E.D

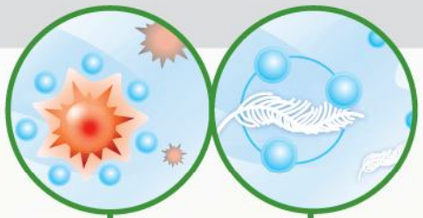
**(Demand Response Enabled Device) / Peak Smart Technology**

DRED provides a method that enables the energy consumption of the air conditioner to be capped when the electricity network reaches peak demand – this is done remotely, usually by the electricity supplier. In some areas, you may be eligible to receive a reward or rebate from the electricity supplier – you should contact the electricity supplier to see if you qualify.

# Advanced Air Filtration

## 3M Micro Protection Filter

The 3M Micro Protection Filter, a high air flow filter with low noise, uses electrostatic charges to capture microscopic particles including allergens such as pollen & dust.



## Dual Protection Filter

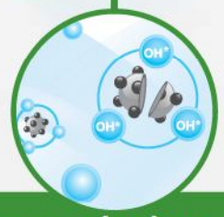
The Dual Protection Filter captures dust & bacteria.

## Plasmaster Auto Cleaning

The auto cleaning function helps minimise the formation of bacteria and mould on the heat exchanger.

## Plasmaster Ioniser

The Plasmaster Ioniser generates over 2 million plasma ions which filtrate the air in the home and inside the air conditioning unit itself.



# Advanced air filtration

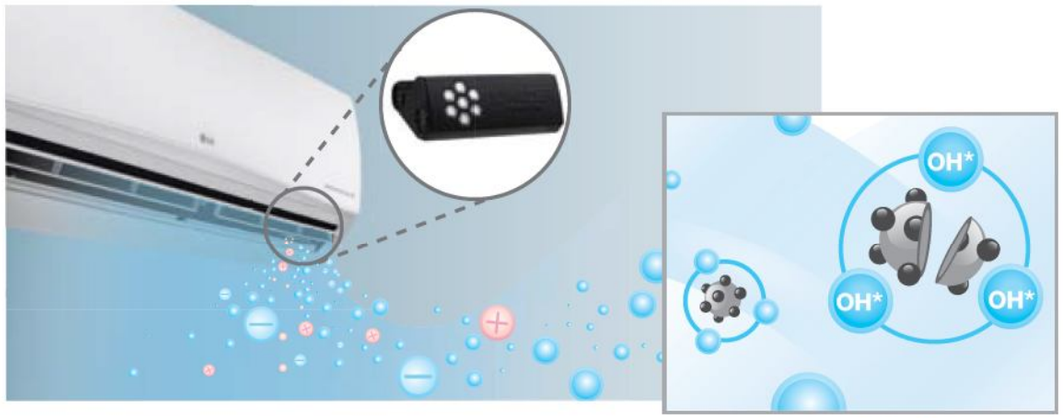
Numerous filters, together with the Plasmaster Ioniser, help to rid the air of allergens & odours.


## Plasmaster™ Ioniser

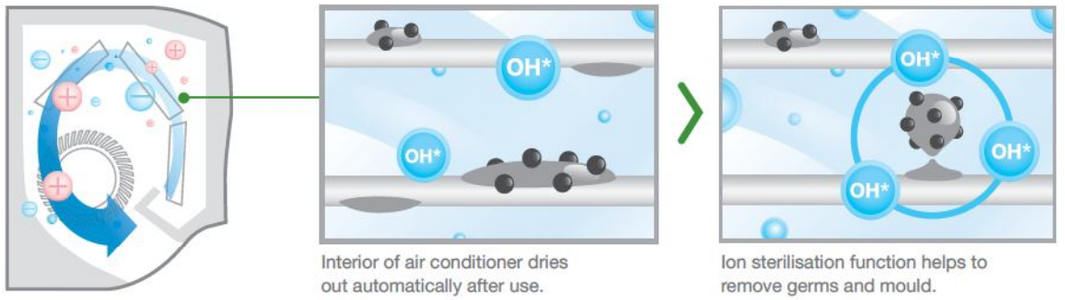
The Plasmaster Ioniser generates over 2 million plasma ions, which filtrate the air in the indoor environment, and inside the air conditioning unit itself.

## Plasmaster™ Auto Cleaning

The auto cleaning function helps to minimise the formation of mould & bacteria on the heat exchanger.



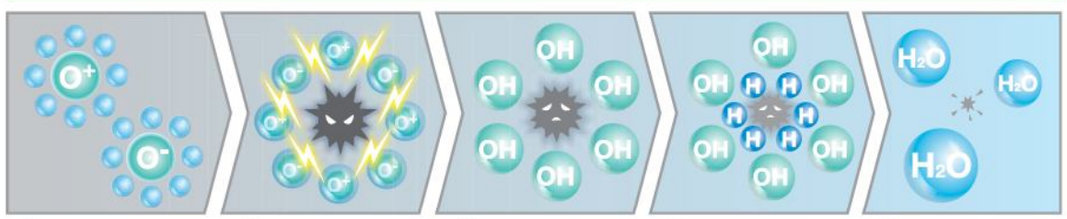

Plasmaster ion particles filtrate aerial bacteria and other airborne substances.




Interior of air conditioner dries out automatically after use.

Ion sterilisation function helps to remove germs and mould.

## How it Works




**1 Ion Cluster Generation**

(+)(-) Ion clusters are generated by polar bonding $H_2O$ molecules in the air.

**2 Harmful Substance Surrounded**

Ions surround harmful substances such as germs, bacteria, and viruses.

**3 OH Radical Production**

OH radical is produced through chemical reaction.

**4 Chemical Reaction**

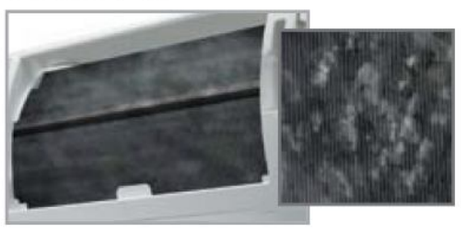
OH radicals react with harmful substances.

**5 Complete Sterilisation**

Substances are transformed into H2O molecules, leaving the air fresh.

## Conventional VS Auto Cleaning

### Conventional



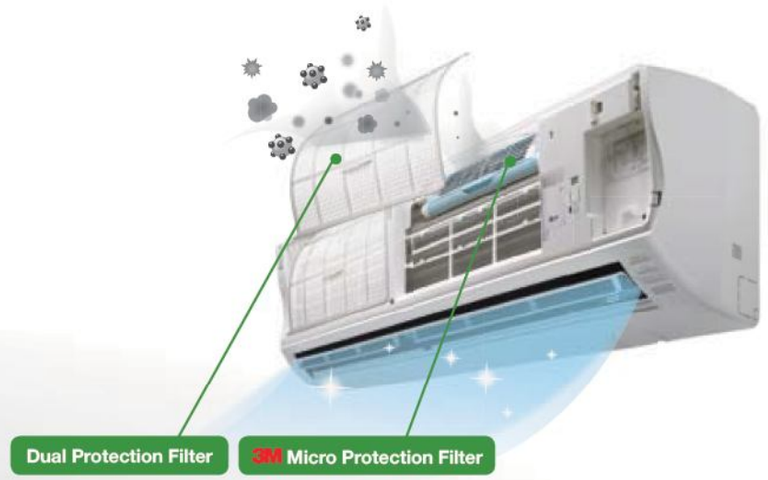
The main cause of odour within air conditioners is mould and bacteria in the heat exchanger. Whenever the indoor coil is wet, the organisms breed, creating odours.

### Auto Cleaning

The automatic cleaning function dries the wet indoor coil to prevent mould and bacteria from breeding; thereby helping to eliminate odour without the need for frequent cleaning.

# Advanced air filtration

Numerous filters, together with the Plasmaster Ioniser, help to rid the air of allergens & odours.



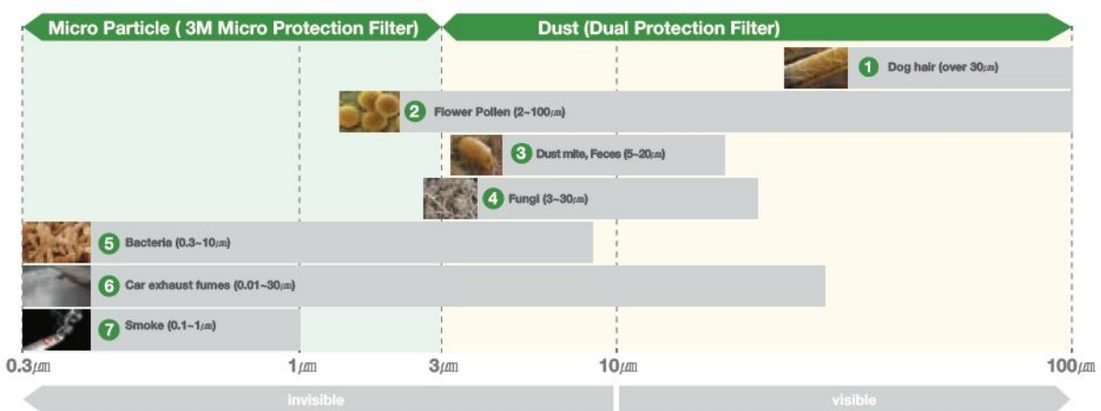

## Dual Protection Filter
## 3M Micro Protection Filter

The 3M Micro Protection Filter uses electrostatic charges to capture microscopic particles including allergens such as pollen & dust.

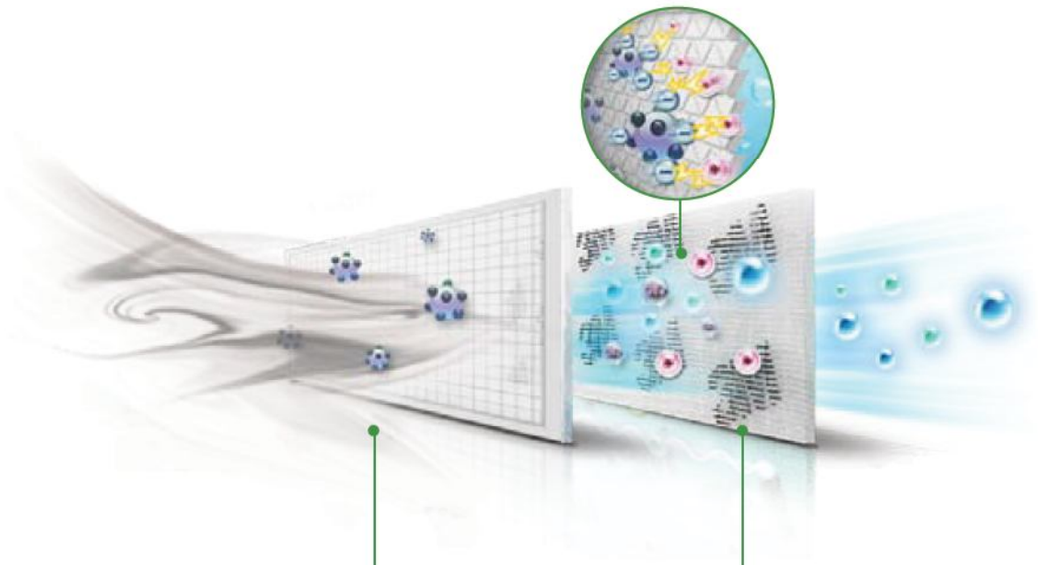
## 1 Background

Household environments contain micro particles such as bacteria, smoke, fungi and viruses which can increase the risk of asthma and allergic reactions.


### Indoor allergen particles




## 2 How filtration works?



**Step 1 : Dual Protection Filter**

### Benefit of the Dual Protection Filter

The first filter captures dust size over 3μm and has anti-bacterial function.

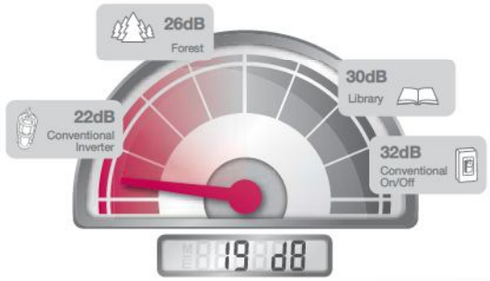
**Step 2 : 3M Micro Protection Filter**

### How it works

Microscopic particles (0.3μm) are attracted by the electrostatic charge on the surface of the filter

# Quiet & Comfortable

LG's skew fan and low vibration compressor technology achieves some of the worlds lowest sound levels.




## Sleep Mode Sound Level

The low noise level in sleep mode creates a quieter sleeping environment.

E09, E12, R09 & R12 models achieve 19db, a noise level which is lower than that of a library

On the decibel scale, the smallest audible sound (near total silence) is 0 dB. A sound 10 times more powerful is 10 dB. A sound 100 times more powerful than near total silence is 20 dB. A sound 1,000 times more powerful than near total silence is 30 dB.

Here are some common sounds and their decibel ratings:
- Near total silence - 0 dB
- A whisper - 15 dB
- Normal conversation - 60 dB

## Outdoor Quiet Mode

Lowers sound level of outdoor unit by up to 3dBA. Also reduces the sound level of indoor unit.

## 1 LG Skew Fan

Tilting the fan blades by 15° reduces the air surface pressure on the fan, resulting in reduced peak air noise.


Conventional

Skew Fan


Press button on remote.

Controls outdoor Compressor

## 2 Brushless DC Fan motor (BLDC)

The BLDC motor is made up of powerful ND magnets providing high torque, resulting in the ability to provide large air volume and high static pressure capability. Allowing high speed operation at reduced electrical and mechanical noise.


AC Motor
- Low Efficiency
- Higher operating temperature
- Difficult to precisely control fan speed

BLDC Motor
- Low Electrical and mechanical noise
- Precise speed control
- Durable

**Note**
Available on models :
R09AWN-NB13, R12AWN-NB13, E09AWN-NB13, E12AWN-NB13

## Optimised 4-Way Airflow

4-way swing disperses cool air quickly and effectively in multiple directions.

### Vertical Air Flow

Air flow can be altered in 6 steps to limit the height of the air flow. An auto swing mode is included to provide a varying vertical air flow.

### Horizontal Air Flow

Direction of air flow can be adjusted in 5 steps, from left to right and auto swing. This function allows air to be directed horizontally in a fixed direction.

# Remote Control

The air conditioning system can be controlled by using different forms of controllers, including the wireless remote control featured below. Consult your local dealer about other types of remote controllers.


## Stylish Series

1. Ioniser
2. Energy Control
3. Silent (reduce Outdoor Unit noise)
4. On / Off
5. Temperature Setting
6. Operation Mode
7. Jet Cool / Jet Heat
8. Indoor Fan Speed
9. Airflow Control (Up and Down)
10. Airflow Control (Left and Right)
11. Room Temperature
12. Sleep Mode
13. Timer
14. Set / Clear


## Econo Series

1. Fan Mode
2. Energy Control
3. Silent (reduce Outdoor Unit noise)
4. On / Off
5. Temperature Setting
6. Operation Mode
7. Jet Cool / Jet Heat
8. Indoor Fan Speed
9. Airflow Control (Up and Down)
10. Airflow Control (Left and Right)
11. Room Temperature
12. Sleep Mode
13. Timer
14. Set / Clear

# Stylish Series

Indoor Unit : R09AWN-NB13 / Outdoor Unit : R09AWN-UB13
Indoor Unit : R12AWN-NB13 / Outdoor Unit : R12AWN-UB13
Indoor Unit : R18AWN-NC13 / Outdoor Unit : R18AWN-UC13
Indoor Unit : R24AWN-NC13 / Outdoor Unit : R24AWN-UC13
Indoor Unit : R28AWN-NC13 / Outdoor Unit : R28AWN-UC13



R09AWN-UB13
R12AWN-UB13


R18AWN-UC13


R24AWN-UC13
R28AWN-UC13

| System Model | | | | R09AWN-13 | R12AWN-13 | R18AWN-13 | R24AWN-13 | R28AWN-13 |
|---|---|---|---|---|---|---|---|---|
| Model Indoor Unit | | | | R09AWN-NB13 | R12AWN-NB13 | R18AWN-NC13 | R24AWN-NC13 | R28AWN-NC13 |
| Model Outdoor Unit | | | | R09AWN-UB13 | R12AWN-UB13 | R18AWN-UC13 | R24AWN-UC13 | R28AWN-UC13 |
| **Indoor** | | | | | | | | |
| Cooling Capacity | | Min | W | 890 | 890 | 900 | 900 | 900 |
| | | Rated | W | 2500 | 3500 | 5000 | 7000 | 8000 |
| | | Max | W | 3700 | 4040 | 6000 | 8650 | 9200 |
| Heating Capacity | Heating +7°C | Min | W | 890 | 890 | 900 | 900 | 900 |
| | | Rated | W | 3200 | 4000 | 6000 | 8000 | 9050 |
| | | Max | W | 5000 | 6000 | 9000 | 11400 | 12000 |
| Power Input | Cooling / Heating +7°C | | W | 560 / 730 | 900 / 980 | 1390 / 1540 | 2120 / 2210 | 2580 / 2570 |
| EER | | | W/W | 4.46 | 3.89 | 3.60 | 3.30 | 3.10 |
| AEER | | | | 4.31 | 3.8 | 3.58 | 3.29 | 3.09(4.12) |
| COP | | | W/W | 4.38 | 4.08 | 3.90 | 3.62 | 3.52 |
| ACOP | | | | 4.27 | 4.00 | 3.87 | 3.60 | 3.51 |
| Energy Label (Star Rating) | Cooling | | | 4.0 | 3.0 | 2.5 | 2.0 | 1.5 |
| | Heating | | | 4.0 | 3.5 | 3.0 | 2.5 | 2.5 |
| Sound Pressure (Cooling) | Sleep/Low/Medium/High | | dBA | 19 / 23 / 33 / 38 | 19 / 23 / 33 / 39 | 29 / 35 / 40 / 42 | 29 / 35 / 40 / 47 | 29 / 35 / 40 / 47 |
| Sound Pressure (Heating) | Low / Medium / High | | dBA | 23 / 33 / 38 | 23 / 33 / 39 | 35 / 40 / 42 | 35 / 40 / 45 | 35 / 40 / 45 |
| Sound Power | Cooling | High | dBA | 57 | 57 | 60 | 65 | 65 |
| Air Flow Rate (Cooling) | Sleep/Low/Medium/High/Max(Power) | | $m^3$/min | 3.5 / 5.5 / 8 / 10 / 12 | 3.5 / 5.5 / 8 / 10 / 12 | 8.5 / 10.5 / 12.5 / 14.5 / 19 | 8.5 / 11 / 14.5 / 17 / 22 | 8.5 / 11 / 14.5 / 17 / 22 |
| Air Flow Rate (Heating) | Low / Medium / High | | $m^3$/min | 6.5 / 8.5 / 10.5 | 6.5 / 8.5 / 10.5 | 10.5 / 12.5 / 14.5 | 12.5 / 15.5 / 18 | 12.5 / 15.5 / 18 |
| Dehumidification Rate | | | l/h | 1.1 | 1.3 | 2 | 2.6 | 2.8 |
| Running Current | Cooling | Rated / Max | A | 2.6 / 6.0 | 4.1 / 6.0 | 6.3 / 7.8 | 9.5 / 13 | 11.5 / 13 |
| | Heating | Rated / Max | A | 3.2 / 7.0 | 4.4 / 7.0 | 6.9 / 9.4 | 9.8 / 14 | 11.5 / 14 |
| Starting Current | Cooling | Rated | A | 2.7 | 4.1 | 6.3 | 9.5 | 11.5 |
| | Heating | Rated | A | 3.3 | 4.4 | 6.7 | 9.8 | 11.5 |
| Dimension | | | mm | 885*285*210 | 885*285*210 | 1030*325*245 | 1,030*325*250 | 1,030*325*250 |
| Net Weight | | | kg | 10.2 | 10.2 | 14.5 | 15 | 15 |
| Fan Motor Output | | | W | 20 | 20 | 20 | 30 | 30 |
| **Outdoor** | | | | | | | | |
| Operation Range | Cooling | Min~Max | °CDB | -10~48 | -10~48 | -10~48 | -10~48 | -10~48 |
| | Heating | Min~Max | °CWB | -15~24 | -15~24 | -15~24 | -10~24 | -10~24 |
| Sound Pressure | Cooling | High | dBA | 45 | 45 | 51 | 52 | 52 |
| | Heating | High | dBA | 45 | 45 | 51 | 52 | 52 |
| Sound Power | Cooling | High | dBA | 65 | 65 | 65 | 66 | 66 |
| Air Flow Rate | Cooling | High | $m^3$/min | 33 | 33 | 50 | 60 | 60 |
| Fan Motor Output | | | W | 43 | 43 | 85 | 124 | 124 |
| Compressor Type | | | | 1P Rotary | 1P Rotary | Twin Rotary | Twin Rotary | Twin Rotary |
| Net Weight | | | kg | 34 | 34 | 44 | 55 | 55 |
| Dimension | | | mm | 770*545*288 | 770*545*288 | 870*655*320 | 870*800*320 | 870*800*320 |

**Note**

- Due to our policy of innovation some specifications may be changed without notification.
- Rated Cooling capacity is based on an indoor air temp 27°C DB 19°C WB and outdoor air temp. 35°C DB and 24°C WB in accordance with AS/NZS3823.1.1.
- Actual cooling & heating capacity will vary as ambient temperature varies. Please consult your LG sales representative for performance data outside of AS/NZS3823.1.1. standard conditions.
- Rated Heating capacity is based on an indoor air temp 20oC DB, 15oC WB and outdoor air temp. 7oC DB, 6oC WB in accordance with AS/NZS3823.1.1.
- Information contained in this brochure is a guide only and LG strongly recommends that you ask for advice from specialist installers and retailers, who can assist with measuring rooms and testing. Specialists can tell you the best size and type of air conditioner suited for your needs.
- Sound Pressure levels are determined in an anachoic chamber at a distance of 1m, in accordance to KSC9306.
- Actual installed noise levels will vary depending on the installed location.
- AEER=Annual Energy Efficiency Ratio for cooling.
- ACOP=Annual Coefficient of Performance for heating. In accordance with AS/NZS 3823.2
- Sound power level specification is measured at reverberant room according to ISO 3741

# ECONO Series

Indoor Unit : E09AWN-NB13 / Outdoor Unit : R09AWN-UB13
Indoor Unit : E12AWN-NB13 / Outdoor Unit : R12AWN-UB13
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Indoor Unit : E24AWN-NC13 / Outdoor Unit : R24AWN-UC13
Indoor Unit : E28AWN-NC13 / Outdoor Unit : R28AWN-UC13
Indoor Unit : E32AWN-NV13 / Outdoor Unit : E32AWN-UV13



| System Model | | | | E09AWN-13 | E12AWN-13 |
|---|---|---|---|---|---|
| Model Indoor Unit | | | | E09AWN-NB13 | E12AWN-NB13 |
| Model Outdoor Unit | | | | R09AWN-UB13 | R12AWN-UB13 |
| **Indoor** | | | | | |
| Cooling Capacity | | Min | W | 890 | 890 |
| | | Rated | W | 2500 | 3500 |
| | | Max | W | 3700 | 4040 |
| Heating Capacity | Heating +7°C | Min | W | 890 | 890 |
| | | Rated | W | 3200 | 4000 |
| | | Max | W | 5000 | 6000 |
| Power Input | Cooling / Heating +7°C | | W | 560 / 730 | 900 / 980 |
| EER | | | W/W | 4.46 | 3.89 |
| AEER | | | | 4.31 | 3.8 |
| COP | | | W/W | 4.38 | 4.08 |
| ACOP | | | | 4.27 | 4.00 |
| Energy Label (Star Rating) | Cooling | | | 4.0 | 3.0 |
| | Heating | | | 4.0 | 3.5 |
| Sound Pressure (Cooling) | Sleep/Low/Medium/High | | dBA | 19 / 23 / 33 / 38 | 19 / 23 / 33 / 39 |
| Sound Pressure (Heating) | Low / Medium / High | | dBA | 23 / 33 / 38 | 23 / 33 / 39 |
| Sound Power | Cooling | High | dBA | 57 | 57 |
| Air Flow Rate (Cooling) | Sleep/Low/Medium/High/Max(Power) | | $m^3$/min | 3.5 / 5.5 / 8 / 10 / 12 | 3.5 / 5.5 / 8 / 10 / 12 |
| Air Flow Rate (Heating) | Low / Medium / High | | $m^3$/min | 6.5 / 8.5 / 10.5 | 6.5 / 8.5 / 10.5 |
| Dehumidification Rate | | | l/h | 1.1 | 1.3 |
| Running Current | Cooling | Rated / Max | A | 2.6 / 6.0 | 4.1 / 6.0 |
| | Heating | Rated / Max | A | 3.2 / 7.0 | 4.4 / 7.0 |
| Starting Current | Cooling | Rated | A | 2.7 | 4.1 |
| | Heating | Rated | A | 3.3 | 4.4 |
| Dimension | | | mm | 885*285*210 | 885*285*210 |
| Net Weight | | | kg | 10.2 | 10.2 |
| Fan Motor Output | | | W | 20 | 20 |
| **Outdoor** | | | | | |
| Operation Range | Cooling | Min~Max | °CDB | -10~48 | -10~48 |
| | Heating | Min~Max | °CWB | -15~24 | -15~24 |
| Sound Pressure | Cooling | High | dBA | 45 | 45 |
| | Heating | High | dBA | 45 | 45 |
| Sound Power | Cooling | High | dBA | 65 | 65 |
| Air Flow Rate | Cooling | High | $m^3$/min | 33 | 33 |
| Fan Motor Output | | | W | 43 | 43 |
| Compressor Type | | | | 1P Rotary | 1P Rotary |
| Net Weight | | | kg | 34 | 34 |
| Dimension | | | mm | 770*545*288 | 770*545*288 |

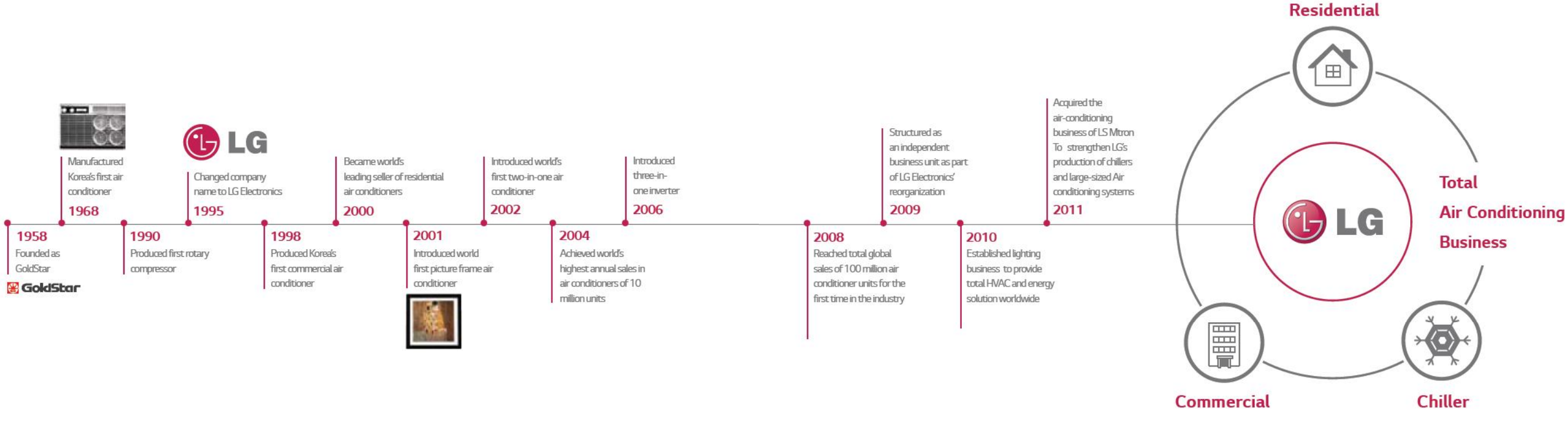
| E18AWN-13 | E24AWN-13 | E28AWN-13 | E32AWN-13 |
|---|---|---|---|
| E18AWN-NC13 | E24AWN-NC13 | E28AWN-NC13 | E32AWN-NV13 |
| R18AWN-UC13 | R24AWN-UC13 | R28AWN-UC13 | E32AWN-UV13 |
| | | | |
| 900 | 900 | 900 | 900 |
| 5000 | 7000 | 8000 | 9000 |
| 6000 | 8650 | 9200 | 10200 |
| 900 | 900 | 900 | 900 |
| 6000 | 8000 | 9050 | 10000 |
| 9000 | 11400 | 12000 | 12800 |
| 1390 / 1540 | 2120 / 2210 | 2580 / 2570 | 2900 / 3220 |
| 3.60 | 3.30 | 3.10 | 3.10 |
| 3.58 | 3.29 | 3.09(4.12) | 3.1(3.92) |
| 3.90 | 3.62 | 3.52 | 3.10 |
| 3.87 | 3.60 | 3.51 | 3.1(3.92) |
| 2.5 | 2.0 | 1.5 | 1.5 |
| 3.0 | 2.5 | 2.5 | 1.5 |
| 29 / 35 / 40 / 42 | 29 / 35 / 40 / 47 | 29 / 35 / 40 / 47 | 37 / 40 / 44 / 49 |
| 35 / 40 / 42 | 35 / 40 / 45 | 35 / 40 / 45 | 40 / 44 / 49 |
| 60 | 65 | 65 | 65 |
| 8.5 / 10.5 / 12.5 / 14.5 / 19 | 8.5 / 11 / 14.5 / 17 / 22 | 8.5 / 11 / 14.5 / 17 / 22 | 13 / 15 / 20 / 24 / 28 |
| 10.5 / 12.5 / 14.5 | 12.5 / 15.5 / 18 | 12.5 / 15.5 / 18 | 15 / 20 / 24 |
| 2 | 2.6 | 2.8 | 3 |
| 6.3 / 7.8 | 9.5 / 13 | 11.5 / 13 | 12.8 / 14.5 |
| 6.9 / 9.4 | 9.8 / 14 | 11.5 / 14 | 14.2 / 16 |
| 6.3 | 9.5 | 11.5 | 12.8 |
| 6.7 | 9.8 | 11.5 | 14.2 |
| 1030*325*245 | 1,030*325*250 | 1,030*325*250 | 1190*346*265 |
| 14.5 | 15 | 15 | 18.5 |
| 20 | 30 | 30 | 30 |
| | | | |
| -10~48 | -10~48 | -10~48 | -10~48 |
| -15~24 | -10~24 | -10~24 | -10~24 |
| 51 | 52 | 52 | 52 |
| 51 | 52 | 52 | 52 |
| 65 | 66 | 66 | 66 |
| 50 | 60 | 60 | 60 |
| 85 | 124 | 124 | 124 |
| Twin Rotary | Twin Rotary | Twin Rotary | Twin Rotary |
| 44 | 55 | 55 | 56 |
| 870*655*320 | 870*800*320 | 870*800*320 | 870*800*320 |

**Note**

- Due to our policy of innovation some specifications may be changed without notification.
- Rated Cooling capacity is based on an indoor air temp 27°C DB 19°C WB and outdoor air temp. 35°C DB and 24°C WB in accordance with AS/NZS3823.1.1.
- Actual cooling & heating capacity will vary as ambient temperature varies. Please consult your LG sales representative for performance data outside of AS/NZS3823.1.1. standard conditions.
- Rated Heating capacity is based on an indoor air temp 20oC DB, 15oC WB and outdoor air temp. 7oC DB, 6oC WB in accordance with AS/NZS3823.1.1.
- Information contained in this brochure is a guide only and LG strongly recommends that you ask for advice from specialist installers and retailers, who can assist with measuring rooms and testing. Specialists can tell you the best size and type of air conditioner suited for your needs.
- Sound Pressure levels are determined in an anachoic chamber at a distance of 1m, in accordance to KSC9306.
- Actual installed noise levels will vary depending on the installed location.
- AEER=Annual Energy Efficiency Ratio for cooling.
- ACOP=Annual Coefficient of Performance for heating. In accordance with AS/NZS 3823.2
- Sound power level specification is measured at reverberant room according to ISO 3741

# Brand Power

LG's consistent efforts in innovation have made LG Air Conditioning and Energy Solution a true global leader in HVAC businesses.




Launched in 2009, LG Electronics Air Conditioning & Energy Solution Company (LG AE) provides total solutions in heating, ventilation, air conditioning (HVAC) and energy. LG AE's offerings include residential and commercial air conditioners, lighting, home and building management systems, and hotel solutions.

LG AE was formed as part of the company's strategic plan to expand its business horizons to the B2B sector, reinforcing its presence in the commercial products and solutions business. In 2010, along with aggressive reinforcement of its position in commercial air conditioning, LG established lighting businesses to further increase its focus on B2B and on energy efficient business solutions. Based on its great success in the consumer market, the new Air Conditioning and Energy Solution Company allows LG to be more competitive in the commercial heating, ventilation, air conditioning (HVAC) and energy businesses worldwide. LG expects its strength in air conditioners to become a strong driver of growth for the entire company as the industry expands.

Through its relentless efforts in innovation and development, LG AE is continuing to consolidate its leadership as a global HVAC and energy solution company, with a central focus on eco-friendliness and energy efficiency.

# Quality Control

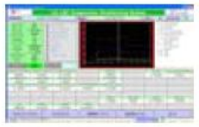
## Development

- Performance Test (Cool/Heat)
- EER Test
- Abnormal Noise Test
- Reliability Test
- Safety Test
- Air current Distribution Test
- Temp./Humidity Performance Test
- Difference of altitude Test
- E.M.I (Electromagnetic Interference)
- E.M.S(Electromagnetic Susceptibility)
- EMC (Electromagnetic Compatibility)

## Mass production

### IQC

- Part Life Test (ELT)
- 6sigma Distribution Control
- Vendor Quality Improvement
- Consulting



### LQC

- Basic Performance Inspection
- Safety Inspection
- Movement/Structure/
- Appearance Inspection

### OQC

- Structure / Appearance inspection
- Early Life Test (ELT)
- Smog Test (Refrigerant leakage)

## PL (Product Liability)

### Safety Evaluation

- Product Safety Check
- PL Consulting List

### Test Product Safety

- Fire Test
- Fire Chamber

### Assure Part Safety

- Evaluation Safety
- PartVendor Audit

## Standard Management

### ISO 9001

- Certificate Quality Management System LG Electronics (Global Standard)
- Certificate Authority : UL Korea

### KS

- Certificate A/C Production System of LG Electronics (Korea Standard)
- Certificate Authority : Korea Standard Association

### KOLAS

- LG Electronics Revision System :State Organ (International Authorization)
- Certificate Authority : The Ministry of Commerce
- Measuring Instruments in Factory: Self Revision

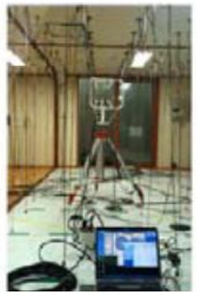
### UL TCP

- UL recognize LG Product through a test result (In LG)
- Certificate Authority : UL

## Quality Assurance Lab

Testing labs are equipped with certified equipment and facilities to ensure product reliability and leading technology.

Noise Testing Chamber



Environmental Testing Chamber

Long Piping and Elevation Testing

## Energy Lab

The LG Energy Lab, located in the small town of Wargnies-Le-Petit, near Valenciennes, North of France, is used to field-test upcoming Residential and Commercial Air Conditioning and Heating products. The aim of the Lab is to guarantee the reliability of the new air conditioning & heating products in all seasons, even in extreme weather conditions, before they are commercially available.


## Co-development : LG & 3M

To provide better air filtration to the consumer, LG & 3M strive to develop innovative technology. As pert of the effort, together we developed new advanced filters: The 3M Micro Protection Filter and the 3M Multi Protection Filter. These filters provide improved filtration of airborne allergens, bacteria and dust.

LG 3M

### 3M Micro Protection Filter

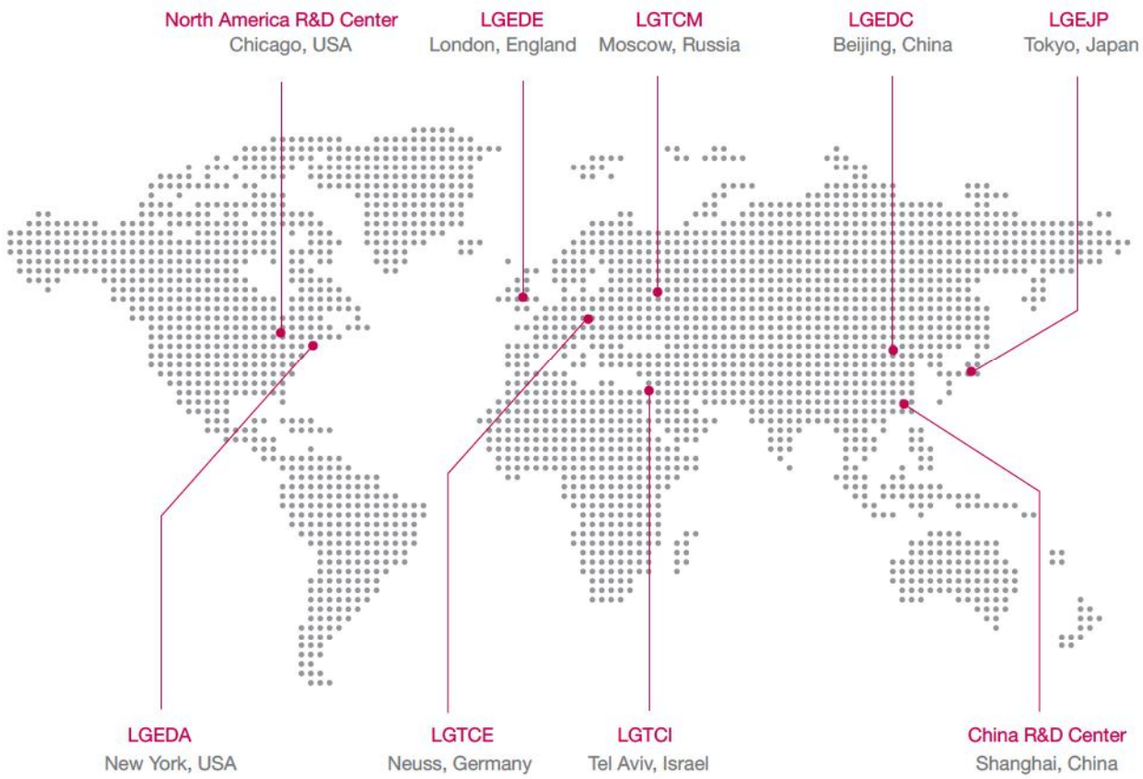
- Allergen removal : 99.9%
- 0.3μm Micro dust removal : 99.9%

# Research & Development

## LG Research & Development Center

LG Electronics possess over 30 R&D centers around the globe in countries including Korea, the United States, China, Russia, Germany, Israel, Japan, France, India, and etc.

Each research center is focused on procuring technology unique to LG, as well as strengthening core competitiveness in all areas of business and developing the engine for future growth.




## LG Air Conditioning Academy

The Academy and its advanced programs provide reliable and trustworthy support to guarantee ultimate comfort.

## Awards

LG air conditioners have been recognized in both outstanding performance and stylish design by diverse world renowned organizations in the form of having received many different prestigious awards.

International Forum Design

reddot

GOOD DESIGN AWARD

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