2012 LG Air Conditioners

Inverter V

In addition to stylish design, LG Inverter V brings with it an unrivalled package of the most complete air conditioning solution.

**Powerful Cooling**

With optimized vane and louver and powerful skew fan, LG air conditioners provide strong airflow to all corners of the room.

**Enhanced Energy Efficiency**

The advanced Inverter V technology, highly efficient heat exchanger, and improved efficiency of the compressor and inverter drive provides enhanced energy efficiency.

**Advanced Technology**

LG air conditioners operate at India’s lowest noise level of 19dB*, thanks to LG’s unique skew fan and BLDC motor technology.

Product View

*Data shown above is under test conditions. May vary from model to model.*
Unique Features

Powerful Cooling
With optimized vanes and louver and powerful slow fan, LG air conditioners provide strong airflow to all corners of the room.

Enhanced Energy Efficiency
State of the art heat exchanger, air outlet, compressor, and invertor V technology provides extremely high energy efficiency.

Advanced Technology
The advanced technology of LG air conditioner generates low noise while providing complete air filtration.

Quick & Easy Installation
Installation has never been easier with the delicately designed installation elements of LG air conditioners.

1. Powerful Airflow
2. Slow Cooling
3. BLDC Motor
4. BLDC Fan Motor
5. Absolute Silance
6. Bladmaster® Ionizer
7. Plasmaster® Auto Cleaning
8. Quick & Easy Installation
9. Plasmaster® Oxyfexon Filter
10. Skewed Fan
11. DC Inverter
12. 4-way cooling

*Data shown above is under test conditions. May vary from model to model.
Powerful Cooling

Quick Cooling
In the hot climate of India, it is essential for an air conditioner to cool in a short period of time.

4-Way Cooling
The cool air must reach out to all directions and to each corner of the room regardless of where the air conditioner is installed.

Powerful Airflow
Cool air must flow out to long distances, hence cooling the parts of the room not only in the vicinity of the air conditioner.

Instant Cooling for your family

Quick Cooling
1.7 TIMES
The room is instantly cooled, and reduces the temperature 1.7 times faster than other air conditioners.

30 ft

4-Way Cooling
Vane & Louver
The vertical vane and horizontal louver distributes air to every direction, cooling the room effectively.

Powerful Airflow
Fluid Dynamic Design
Reduced vortex inside decreases air resistance to provide stronger, more powerful wind.

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Powerful Cooling

Quick Cooling & Optimized Airflow & Powerful Airflow

The optimized design of the air outlet provides strong airflow which brings down the room temperature up to 7 degrees within minutes.

Quick Cooling

Jet Cool disperses air evenly at high speed to ensure the room is optimally cool within minutes.

1.7 Times Faster Cooling

<table>
<thead>
<tr>
<th>Mode</th>
<th>Conditions</th>
<th>Indoor</th>
<th>Outdoor</th>
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<tr>
<td></td>
<td>Mode</td>
<td>Temp (°C)</td>
<td>Humidity (%)</td>
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<tr>
<td></td>
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<tr>
<td></td>
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Outstanding Air Speed

Min: 0.5m/s; Max: 0.8m/s

Low Resistance Air Outlet

The air speed increases relatively following the increase in airflow as per the equation Q=AV
(Q: Airflow; A: Area of air outlet; V: Air speed; A: Area of air outlet being test figure)

4-Way Cooling

4-way swing disperses cool air quickly and effectively in multiple directions to each corner of the room.

- Direction of horizontal vane can be adjusted from step 1 to step 8 with full auto swing. This function can cool specific areas much faster.
- Direction of vertical vane can be adjusted from step 1 to step 5, left & right, with full auto swing. This function also allows the air conditioner to cool specific areas in a short period of time.
- 4-way swing provides optimized airflow regardless of your location in the room.

Powerful Airflow

Keep cool this summer with the new larger fan and chassis that allow you to feel the air from up to 30 ft. away. Now cooling is more faster and powerful, and allows you to feel comfortable sooner.

- The new and improved slow fan increases the amount of airflow
- 30 ft. long airflow sends the cool air to all corners of the room

2012 LG Air Conditioners
Enhanced Energy Efficiency

Inverter Technology
A brand new way to save your energy.

Energy Star Rating
The more the star ratings, the more energy saved.

Brings happiness to your family by saving energy

66% Energy Saving

Pleasant Feeling

Cold for Summer

Hot for Winter
Inverter Technology

The revolutionary Inverter V technology of LG boasts of powerful yet silent performance while minimizing energy consumption by as much as 66%.

How it works: INVERTER V Technology

When the air conditioner is initially activated to either heat or cool, the compressor will operate at maximum speed to reach the desired temperature quickly. Once the desired temperature is achieved, unlike conventional air conditioners that turn the compressor on and off, LG Inverter units adjust and constantly vary the compressor speed to maintain the desired temperature with minimal function to ensure that your comfort is not compromised.

- **Non-Inverter**: Excess consumption of fuel due to frequent restarting of motor.
  - 60 km/h, 90 km/h, 65 km/h

- **Inverter**: Efficient management of energy by keeping motor running at varying speeds.
  - 60 km/h, 30 km/h, 15 km/h, 5 km/h

Benefits of INVERTER V

- **Reduced Electricity Bills**: Highly advanced Inverter V technology is the most economical air conditioning solution.
- **Maximum User Comfort**: The compressor speed of LG Inverter V is constantly adjusted and varied to maintain the desired temperature with minimal fluctuation.
- **Quick Cooling**: Both performance and speed of Inverter V compressor is faster and more powerful, thus being able to cool faster than conventional air conditioners.

Energy Saving

- By utilizing a variable speed compressor than a constant speed compressor, the cooling or heating capacity of LG Inverter V system can be varied to suit indoor conditions.
- Lower Energy Consumption: High and fluctuating hertz requires more energy consumption, while less and stable hertz consumes less energy.

Advanced Energy Saving Technology

**BLDC Compressor**

The LG Inverter V air conditioner comes with a BLDC compressor that uses a strong neodymium magnet. Its compressor thus has improved efficiency compared with AC Inverter.

- **Minimize Oil Circulation with Oil-Separator System**
- **Reliability assured at high speed**
- **Efficiency increased at low speed**

**Torque Control**

Delicate torque control enables the compressor to operate at the minimum hertz level of 55Hz and below, which minimizes vibration and noise while increasing energy efficiency by consuming less electricity.

**BLDC Fan motor**

BLDC Fan motor which is adapted to LG Inverter V makes quiet cooling possible compared to conventional AC/DC motor. In addition, precise speed control makes the operation smoother.
## Energy Star Rating

LG complies with the newly revised energy star rating regulations in 2012.

### National Energy Conservation Award 2010

LG India has been awarded First Prize in the Manufacturer's of BEE Star Labeled Appliances (Air-Conditioner) Sector during the National Energy Conservation Awards - 2010. This award has been instituted and given by the Ministry of Power, Government of India.

### SAVINGS WITH LG SPLIT ACs

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<th>Type</th>
<th>AC (Tonnage)</th>
<th>Star Rating</th>
<th>COP</th>
<th>Power Consumed (Watt/hr)</th>
<th>No. of Units Saving/Day</th>
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Inverter Y annual savings comparison for 1.0T AC

*Saving over non-star rated AC. Average electricity rate is 7.5c/kWh. AC running for 8 hours per day & compressor on both AC being used for 6 months. Non-star AC taken as local brand being sold in market. Power consumption shown in above table is reduced on basis of common cooling capacity of compared models.

### SAVINGS WITH LG WINDOW ACs

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<th>Type</th>
<th>AC (Tonnage)</th>
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<th>COP</th>
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Inverter Y annual savings comparison for 1.0T AC

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Advanced Technology

1. **Plasmaster I Onizer**
   Over 3 million Plasmaster ions sterilize not only the air going through the air conditioner, but all surrounding harmful substances and even odor.

2. **Absolute Silence**
   LG’s unique skew fan and low vibrating compressor technology provide extreme silence and comfort to the user.

3. **Plasmaster Auto Cleaning**
   The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger and thus provides a more pleasant and comfortable environment for the user.

4. **Plasmaster Cyclotron Filter**
   While being easy to maintain, the powerful plasma filtration system of LG air conditioner protects the user from odor and harmful substances floating in air.

5. **Virus & Allergy Safe Filter**
   The Virus and Allergy Safe Filter is acoustically proven to deactivate virus that pose risk to health.

6. **Triple Filter**
   Common odor filter removes ordinary odors that cause migraines and chronic fatigue.

7. **Excellent Durability**
   The outdoor unit of the air conditioner is designed to prevent corrosion of the unit and enhance its durability regardless of the environment.

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Plasmaster Ionizer

Over 2 million ions sterilize not only the air going through the air conditioner, but all surrounding harmful substances and even odor.

Over 2 million ion particles sterilize the aerial bacteria and other harmful substances

Plasmaster ions sterilize the same area 50 times faster than other air conditioners.

- The ion clusters created by high density flat plasma pattern electrodes form radicals on the surface of harmful bacteria to eliminate odor and hydrogen particles of the bacteria.

Bacteria Sterilization

How it works

- Ion Cluster Generation
  - Ion clusters are generated by polar bonding of H2O molecules in the air
- Surrounding of Harmful Substances
  - Ions surround numerous harmful substances such as germs, bacteria, and virus
- OH Radical Production
  - OH radical is produced through chemical reaction
- Chemical Reaction
  - OH radicals react with harmful substances
- Complete Sterilization
  - Substances are transformed into H2O molecules and leaves indoor air fresh

Sterilization Performance Evaluations

Plasmaster vs Conventional Plasma

Test Conditions
- Space: 20m³ Chamber
- Petri dish: E. coli, Salmonella, Staphylococcus
- Temperature: 25°C
- Humidity: 60%
- Fan Speed: High

Plasmaster
- Ion Generation (μm): 100
- Ion (μm): 100
- OH Radical (μm): 200
- Efficacy: 50% (> 99.9%)

Conventional
- Ion Generation (μm): 500
- Ion (μm): 500
- OH Radical (μm): 1000
- Efficacy: 10% (99.9%)

Times (min): 0 20 40 60
- Sterilization Rate (%): 99.9%

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**Absolute Silence**

LG’s unique new skew fan and low vibrating compressor technology have achieved the world’s lowest noise level.

With a noise level almost half of that of a silent library, LG air conditioners provide peace of mind to the user.

**Super Quiet Operation**

- 36dB Library
- 32dB Conventional Non-Inverter
- 26dB Woods
- 22dB Conventional Inverter
- 19dB LG Air Conditioner

**1 LG Unique Skew Fan**

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

**2 BLDC Motor**

With strong torque and powerful Neodymium magnets inside the rotor, the BLDC motor provides large air volume and high static pressure. Precise speed control provides 13 different steps which makes the operation smoother. Both electrical and mechanical noise is lower, and high speed operation is available.

**Conventional vs Plasmaster Auto Cleaning**

- **Previous**
  - The main cause of odor within air conditioners are molds and bacteria in the heat exchanger, which breed themselves when the heat exchanger is wet.

- **Now**
  - The automatic cleaning function dries the wet heat exchanger and ionizes the air, preventing the breeding of molds and bacteria. The ionizer sterilizes the coil to prevent the breeding of molds and bacteria. It eliminates the odor from air conditioners and saves the users from the discomfort of having to frequently clean the filter.
Plasmaster™

Cyclotron Filter

While being easy to maintain, the powerful Plasmaster filtration system of LG air conditioner protects the user from odor and harmful substances floating in air.

LG’s upgraded Plasmaster Cyclotron filter can incinerate tiny dust particles and eliminate germs with up to 30% greater efficiency than conventional models.

The Plasmaster air purifying system can reduce microscopic contaminants and dust. This filter removes house mites, micro dust, and pet fur in order to save user from the allergy/asthma symptoms.

How it works

Polluted Air

Ionizing
Dust Charging (+)
Odor Decomposition

Filtering
Filtering of Dust by Coulomb Force

Deodorizing
Deodorization

Clean Air

Air Filtration

The filtration system of LG air conditioner is unique in design and certified of its functionality by world renowned institutes. It works as an invisible hand to provide the most clean and reliable air to the user.

Virus & Allergy Safe Filter

The Virus and Allergy Safe Filter is academically proven to deactivate virus that pose risk to health.

Virus Protein Deactivation
LG Virus & Allergy Safe Filter blocks neuraminidase and hemagglutinin, which is activated when the virus breaks up from its host cell to proliferate.

Allergy Filter
Allergy care filter coated with allergy decomposition substance

Virus Filter
Sterilizing filter with anti-virus coating

Triple Filter
Eliminates chemical particles and other odors emanating from different sources including tobacco.

Volatile Organic Chemical (VOC) filter removes odor and hazardous VOCs that is discharged from household materials made with chemical substances.

Formaldehyde filter cuts off formaldehyde, a leading cause of new-house syndrome, and prevents dermatitis, nausea, and pneumonia.

Common odor filter removes ordinary odors that cause malaise and chronic fatigue.

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**Durability**

While consuming less energy and performing high, MF condenser is also resistant to corrosion, providing an energy efficient and durable solution to the product.

MF condenser is the next step towards advanced technology to derive more value for the consumer.

**High Efficiency**

MF condenser design helps enhance the product performance & reduce the power consumption compared to fin & tube condenser.

- Heat exchanger performance

Heat capacity is 10–20% higher in MF condenser compared to fin & tube.

**Anti Corrosive**

The complete MF condenser is made from superior quality aluminum, which prevents Galvanic corrosion.

Material composition of MF condenser

- Tube: High anti-corrosive Pure aluminum
- Core: High anti-corrosive Al-Mg alloy
- Electrical corrosion protective

- Fin: High anti-corrosive Al-Mg alloy
- Core: Al-Mg alloy + Zn 1% (High anti-corrosive)

**Enhanced Performance**

- Power Input: 7% Drop
- Energy Efficiency: 11% Higher COP

**Reliability Test**

Salt spray test result (After 500 Hrs test)

- Green corrosion on copper tube
- Red corrosion on steel

**No.1 Service Network**

A nationwide network of designated service centers is available to provide maintenance both in and post-warranty service, to keep your AC performing even in peak conditions.

LG AC service has the largest service network with unique 211 service campaign.

For best quality and performance or any queries call 1800-180-9999 (Toll Free)

A team of specialists for flawless installation

Now you can leave all your installation worries to Team ACE. Specially trained by LG, these competent installers will make sure that your AC gives you the best of performance. The success of team ACE has added more than 2500 qualified service engineers backed by more than 800 authorised installation centres. Team ACE is India's largest team of authorised AC installers.

**Warranty**

When you bring home an LG Air Conditioner, you get peace of mind for free. LG 1 year full warranty on your machine and 5 years on your compressor ensures you enjoy uninterrupted and perfect cooling round the year.
Model Line-Up

**Unique Features**

**Powerful Airflow**: Regardless of the size and your position in the room, the powerful airflow of our air conditioner makes your feet cool and comfortable faster.

**4 Way Coiling**: LG air conditioner delivers cool air to every corner of your room. The 4 way swing function blew the air quickly and efficiently in multi direction.

**Quick Cooling**: In the hot climate of India, it is essential for an air conditioner to cool in a short period of time.

**Energy Saving**: The advanced inverter technology of LG enables the user of the air conditioner to use more and save more.

**Absorbent Silencer**: 1.5% lower inverter fan and low vibrating compressor technology have achieved the world's lowest noise level.

**Plasmaster Ionizer**: Sterilizes the common germs, bacteria, and viruses, and also protects you from various waterborne disease.

**Plasmaster Auto Cleaning**: It will eliminate air conditioners' odors and save you from frequent cleaning efforts.

**Plasmaster Cyclotrode Filter**: Whiile being easy to maintain, the powerful plasma filtration system of LG air conditioner protects the user from odor and any harmful substances floating in the air.

**Virus and Allergy Safe Filter**: Viruses that pose risk to health including influenza is effectively deactivated. Various types of allergy causing symptoms are removed by the filtration system, largely benefiting the sensitive and allergic users.

**Triple Filter**: Eliminates chemical particles and other odor emanating from different sources including tobacco, paint and cleaners.

**Cool-down/FC**: The advanced Tropical Compressor withstands extreme weather conditions enabling the product to operate despite high outside temperature.

**Quick & Easy Installation**: Perfect fitting / Bigger tubing space / Installation plate / Improvement / Detachable bottom cover / Blown air service valve / Charge/Recovery / Installation support clip / Compatible with inverter multi system.

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**Hot & Cold**

- AS-W1258BU1
- AS-W1258BU1
- AS-W1258BU1

**Cooling Only**

- BS-C1227JU1
- BS-C1227JU1
- BS-C1227JU1

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**Specifications**

- **Rated Capacity**: 12000 BTU/3.5kW
- **Operating Voltage**: 110V
- **Power Consumption**: 1100W
- **Noise Level**: 45dB

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**Features**

- **Air Flow**: 1500 CFM
- **Temperature Control**: 16°C to 32°C
- **Humidity Control**: 20% to 80%
- **Timer**: 24 Hours
- **remote Control**: Yes
- **Energy Efficiency**: A++

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**Dimensions**

- **Height**: 1200mm
- **Width**: 780mm
- **Depth**: 280mm

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**Weight**

- **Gross Weight**: 30 kg
- **Net Weight**: 25 kg

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*Data shown above is under test conditions. May vary from model to model.*
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- LSA3L-5P2Z: LSA3L-5P2Z: LSA3L-5P2Z:

*Features may vary from model to model.*
### L-Tiara

#### Specifications

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#### Features

- Energy Star
- Inverter
- Quick Cooling
- Ceilingless Design
- Auto Clean
- Air Cleaner
- Night Cycle
- Easy Installation
- Low Noise
- Auto Restart

### L-Aura

#### Specifications

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#### Features

- Energy Star
- Inverter
- Quick Cooling
- Ceilingless Design
- Auto Clean
- Air Cleaner
- Night Cycle
- Easy Installation
- Low Noise
- Auto Restart

### Notes

- Features may vary from model to model.
- 2012 LG Air Conditioners

---

LGA-lgth 171, LGA-lgth 17, LGA-lgth 2T
### L-Nova

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### L-Crescent

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### Features
- Many fans
- Anti-Bacterial Filter
- Power Supply 208V-230V
- Auto Restart
- Sleep Mode
- On Timer

### Specifications
- **Cooling Capacity:** 1.5 Ton (36000 BTU/h)
- **Power Input:** 1150 W
- **Operating Current:** 0.3 A
- **Noise Level:** 53 dB
- **Horsepower:** 1.5 HP
- **Weight:** 40 kg
- **Dimensions:** 800 x 800 x 300 mm
- **Energy Efficiency Ratio:** 3.6
- **Electrical Rating:** 208-230V, 60 Hz
- **Filter Type:** Washable

### Notes
- Features may vary from model to model.

---

**LNA-Nova** LSAKNFRA (2 Star) LSNKNFRA (2 Star)

**L-Crescent** LSACQF12A (2 Star)
### Hot and Cold

#### L-Aura
- **LSA2MRSFH1**

#### L-Prima
- **LWA2FPHCFH1**

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### L-Winta

- **LVWA3WRSD2D (3/2 Star)**

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*Features may vary from model to model.*
### L-Bliss

- **Model**: LWABR01D (1 Star)  
- **Specifications**
  - **Capacity**: 2 HP  
  - **Energy Rating**: 3 Star  
  - **Dimensions**: 
    - **Height**: 634 mm  
    - **Width**: 790 mm  
    - **Depth**: 280 mm  
  - **Power Supply**: 230V / 50Hz  
  - **Remote Control**: Digital  
  - **Air Deflection**: 3 Way  
  - **Auto Air Swing**: Yes  
  - **Room Temperature Range**: 15°C – 30°C  
  - **Energy Saver**: Yes  
  - **Filter Cleaning Indicator**: Yes  
  - **Type**: Split  

### L-Crescent

- **Model**: LWACH1A (1 Star)  
- **Specifications**
  - **Capacity**: 1 HP  
  - **Energy Rating**: 1 Star  
  - **Dimensions**: 
    - **Height**: 634 mm  
    - **Width**: 790 mm  
    - **Depth**: 280 mm  
  - **Power Supply**: 230V / 50Hz  
  - **Remote Control**: Digital  
  - **Air Deflection**: 3 Way  
  - **Auto Air Swing**: Yes  
  - **Room Temperature Range**: 15°C – 30°C  
  - **Energy Saver**: Yes  
  - **Filter Cleaning Indicator**: Yes  
  - **Type**: Split  

---

**Features**

- **Display**: Digital  
- **Auto Restart**: Yes  
- **Sleep Mode**: Yes  
- **Voice Control**: Yes  
- **Clean Air Filter**: Yes  
- **Anticorona Filter**: Yes  
- **De-odouring Filter**: Yes  

**Power Consumption**

- **Input**: 500 W  
- **Output**: 1200 W  

---

Notes:

- Features may vary from model to model.
- Specifications are subject to change without notice.
Quality Control

Quality Assurance Lab

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

Energy Lab

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 new air conditioning & heating products in all seasons, even in extreme weather conditions, before they are commercially available.

Research & Development

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 for their outstanding performance and stylish design by diverse world renowned organizations, and have received many prestigious awards.