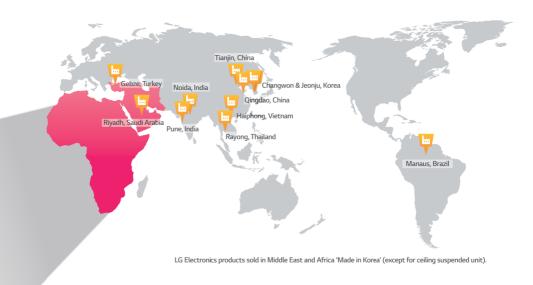




COMMERCIAL AIR CONDITIONERS



GLOBAL PRODUCTION SITE



TOTAL HVAC SOLUTION PROVIDER

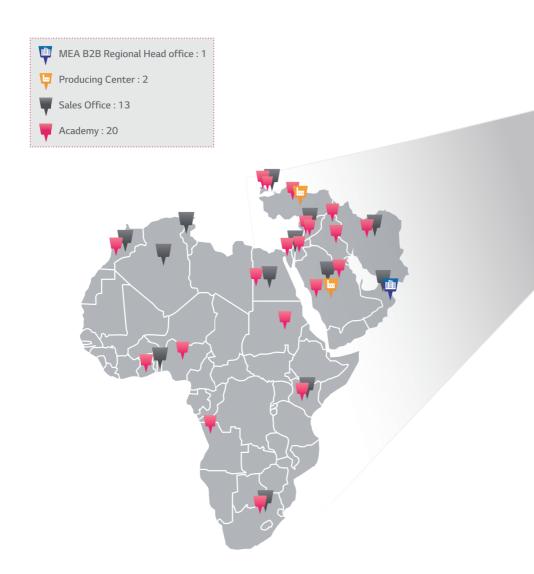
Ever since manufacturing Korea's first home grown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. LG has been the world's top selling manufacturer of residential air conditioning solutions. In 2008, LG achieved to sell the total of more than 100 million air conditioners. Building on its success and technological leadership in the residential air conditioning sector, LG has moved into system air conditioning as well.

The company's range of high performance system air conditioning products provide effective temperature control to large-scale buildings and facilities. Overtime, LG has evolved into the total HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) into its comprehensive product portfolio. Along with a wide range of innovative solutions, LG delivers unrivalled customer service.

The company produces top-notch air conditioning professionals at its academies, of which there are nearly 80 worldwide. These centers of excellence provide workshops and training programs that offer invaluable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its time saving LG Air Conditioner Technical Solution(LATS) software. Additionally, LG operates several state-of-the-art R&D facilities all across the planet.

One such facility is the Energy Lab, a purpose-built R&D and testing center in northern France. Helping to keep the company ahead of the competition, the scientists and engineers at the Energy Lab study the effects of different environmental conditions on LG's products. This in-depth research and analysis enables LG to tailor its solutions to the specific environmental demands of each individual market. Combining the best technologies with the best ideas, LG's high quality products are now enjoyed by customers in over 100 countries.

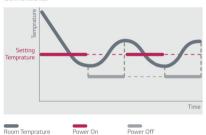
MIDDLE EAST/AFRICA INFRASTRUCTURE



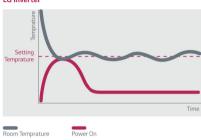
COMFORTABLE OPERATION

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 fluctuation to ensure that your comfort is not compromised.

Conventional



LG Inverter





Why LG Commercial Air Conditioners









LG INVERTER TECHNOLOGY CUTS POWER CONSUMPTION

LG has taken the initiative to develop new, highly efficient, inverter technology. In addition to consuming less electricity, the company's advanced inverter systems have powerful performance and enhanced reliability.

A clear illustration of how innovative technology can make a real difference, LG's Inverter compressor provides a welcome reduction in power usage (up to 25%) and operational costs. Designed for commercial spaces, such as offices and retail stores, the new model offers effective comfort, greater endurance and exceptional seasonal energy efficiency.



INVERTER SINGLE SPLIT

Line-Up

Cooling Only





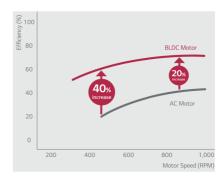




ENERGY EFFICIENCY

BLDC Fan Motor

The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds.

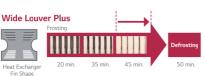


Wide Louver Plus Fin

Conventional

Wide Louver Plus fin technology increases 11% of full load heating performance and 6% of COP compared to conventional fin. It can slow down frosting of heat exchanger and postpone the start of defrosting operation.

Prosting Operation Stop Operation

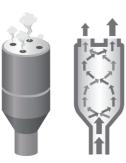




Optimised Heat Exchanger Path

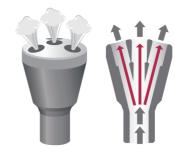
Optimised heat exchanger path improved cycle efficiency up to 5%.

ConventionalUnequal Distribution





Equal Distribution



PERFORMANCE

Quick Operating Response



Step 1

Sensing current temperature of refrigerent, indoor and outdoor temperature

Step 2

Estimating Pressure
Finding recorded target pressure to operate compressor, based on the corresponding temperature data

This algorithm is more likely to be impacted by temperature change and it takes more time to calculate proper operation range of compressor to target point.



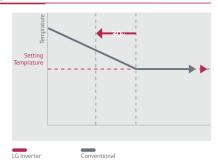
Step 1

Sensing refrigerent pressure and temperature simultaneously to make sure compressor ready for target cooling operation

This ensures to reach target performance point without failing to keep a reliable operation.

Shorten Time to Reach Setting Temprature

It takes up to 30% less time to reach the desired temperature with a high level of accuracy and stability.



High Ambient Operation

More accurate control of compressor operation from pressure sensing mechanism ensures stable performance against extreme outdoor conditions.

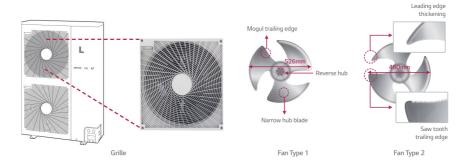
Cooling Operation Range: 0°C ~ 54°C



QUIET OPERATION

Improved Grille & Fan

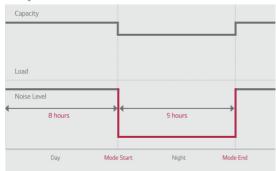
The new grille shape design on the outdoor unit helps to disperse air more efficiently which improves heat exchange and reduces noise level. The new axial Fan has a thick front edge and smooth rear edge, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

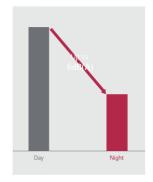


Night Silent Operation

Night silent operation can reduce noise levels at night time by simply setting the dip switch on the PCB of the outdoor unit.

· Cooling Mode

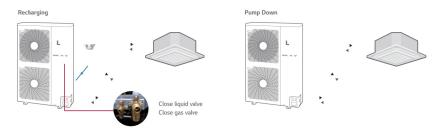




CONVENIENCE

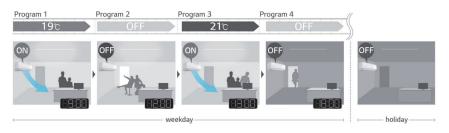
Forced Cooling Operation

The forced cooling operation allows refrigerant to be recharged or pumped down, regardless of the indoor temperature. More importantly this function can be used when indoor units are being moved or repaired.



Weekly Program

You can set up 2 reservations for one day, and up to 14 reservations for a week.





LG Electronics

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The air conditioners manufactured by LG have received ISO9001 cartificate for quality assurance and ISO14001 certificate for environmental management system.