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Life's Good.

Plasmaster™ Ionizer++

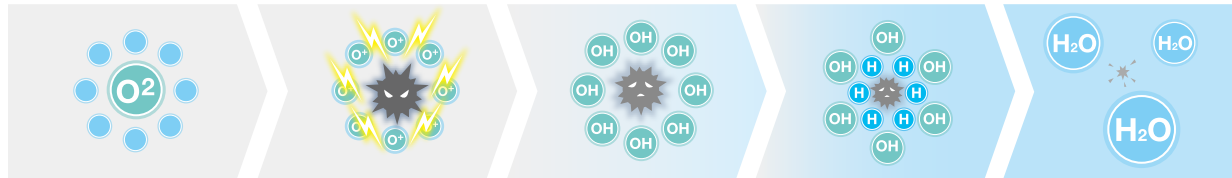
The powerful Plasmaster™ Ionizer++ removes unpleasant odors, along with Escherichia coli and Staphylococcus on surfaces, using over 8 million ions. Experience a safer, cleaner indoor environment.

- ※ Specifications may vary for each model.
- ※ Depending on the experimental conditions.

How It Works

Reduction and Deodorization (Utilizes Over 8 Million Ions)

Plasmaster Ionizer+ reduces E.coli and Staphylococcus in the surface with over 8 million ions.



Release of Ions into Air

Ions are released into the air.

Surrounding Harmful Substances

H- and O- bond to harmful particles.

OH Radical Production

OH radicals inactivate harmful substances.

Chemical Reaction

OH radicals bond with H particles.

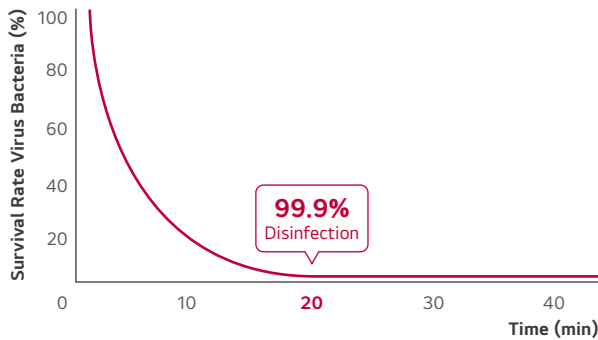
Disinfection

H₂O molecules are produced.

Test Result

Effective Reduction Performance

Remove Bacteria E.coli over 99.9% in 20 min

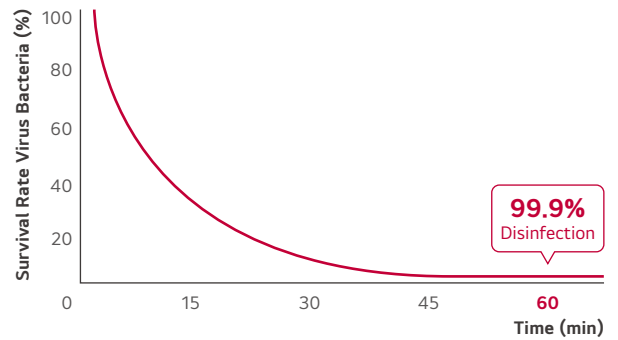


※ Test Conditions :

- Space : 30m³ Chamber (Measuring with the specimen in the center of test chamber)
- Temperature & Humidity : Normal
- Bacteria : E Coli colon bacillus
- Verified by Intertek & TÜV Rheinland

Staphylococcus Sterilization

Remove Staphylococcus aureus over 99.9% in 60 min

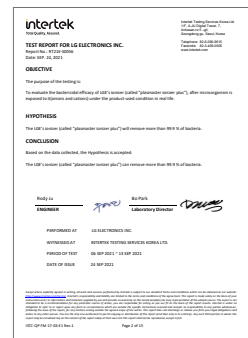


※ Test Conditions :

- Space : 30m³ Chamber (Measuring with the specimen in the center of test chamber)
- Temperature & Humidity : Normal
- Bacteria : Staphylococcus Aureus
- Verified by Intertek & TÜV Rheinland

Benefit & Verification

The LGE's ionizer, known as "Plasmaster Ionizer Plus," has demonstrated the capability to remove more than 99.9% of bacteria, including Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus.



UVnano™

LG DUALCOOL, keeping the fan (inside the unit) 99.99% bacteria-free with ultraviolet light to ensure that the air passing through is clean too.

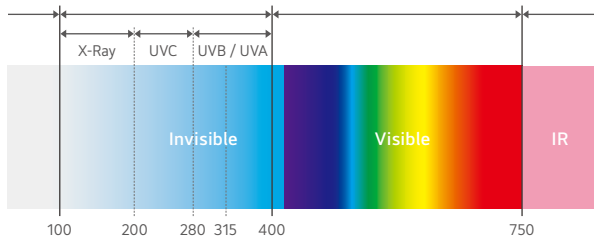
※ UVnano is an integrated marketing name that applies LG Electronics' entire home appliances and it is a compound of the words UV (ultraviolet) and nanometer (unit of length).

What Is UVnano™ and How It Works?

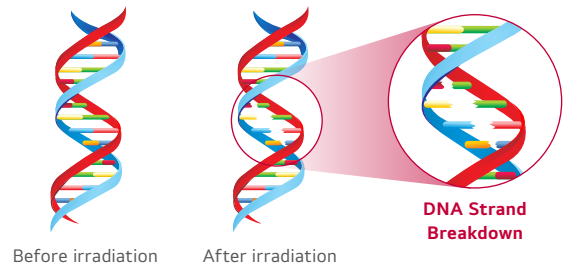
- Emit Ultraviolet rays of UVC wavelength directly damage the DNA of microorganisms (bacteria/mold/viruses) making it impossible for them to multiply.
- High absorption into DNA at 260 to 270 nm wavelengths

DNA Absorption Efficiency by Wavelength

Electromagnetic Spectrum and Types



Destruction Nuclear Sequence (Chain)

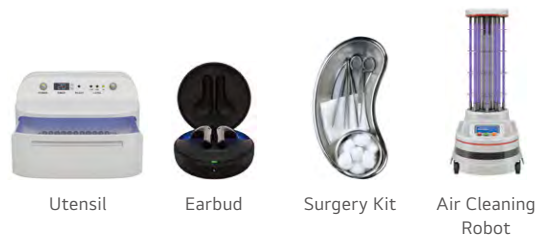


UVC Applied Product

LG Product

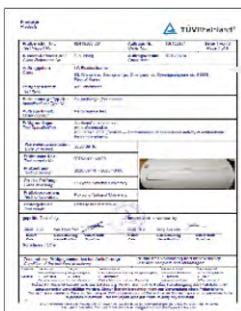


Various Product Lines



Benefit & Verification

Keep the fan 99.99% bacteria-clean for a cleaner breeze.



Removes up to **99.99%** of bacteria from the internal fan.



※ Test Condition

- Test Model : S3NM12JL1GA(SJ), S3NM24K21GA(SK)
- Test Standard : LG test method with referenced to ISO 20743:2007
- Bacteria : Staphylococcus aureus, Staphylococcus epidermidis, Klebsiella pneumoniae

Smart Diagnosis

Smart Diagnosis allows you to monitor the health of your air conditioner remotely.

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

What is Smart Diagnosis?

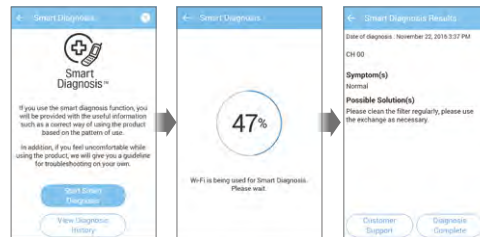
Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

- ※ 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.

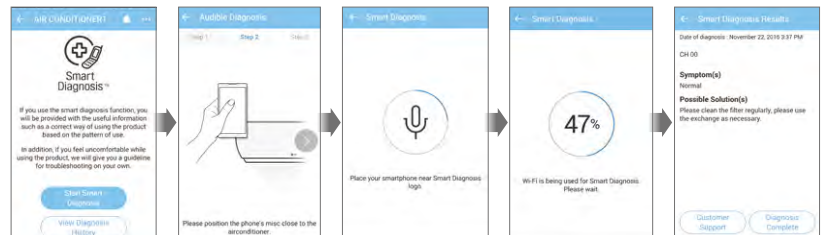
How It Works

Embedded Wi-Fi Model

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

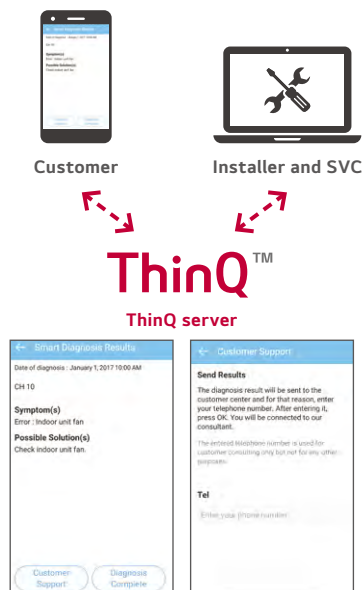


Non Embedded Wi-Fi Model



Benefit

Easily understandable error messages simplify the process of identifying solutions and make reaching out to the service center simple and convenient.



For Consumer



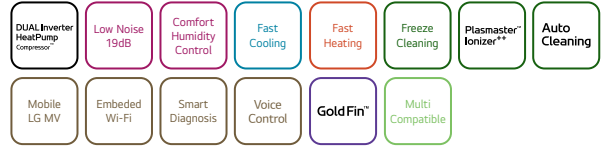
- Easily check the operational status of a product, even without a display or with limited information.
- Save energy by monitoring key operational information and power consumption.
- Utilize the Maintenance Guide to enhance device performance and increase the product's lifespan.

For Installer and SVC



- Gain a better understanding of the product by easily confirming operational status and information.
- Intuitively diagnose problems by comparing current and past usage data.
- Maintain installation capabilities and reduce errors by quickly confirming device operational status.

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



LG participates in the ECP programme for EUROVENT AC program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

| UNIT | | | | 9K | 12K |
|-------------------------------|-----------------------|------------------------------|----------------------|---------------------------|---------------------------|
| INDOOR | | | | A09GA1.NSE | A12GA1.NSE |
| Capacity | Cooling | Min. / Rated / Max. | kW | 0.89 / 2.50 / 3.70 | 0.89 / 3.50 / 4.04 |
| | Heating | Min. / Rated / Max. | kW | 0.89 / 3.30 / 4.10 | 0.89 / 4.00 / 4.70 |
| | Heating -7°C | Rated | kW | 2.60 | 3.20 |
| Power Input | Cooling / Heating | Rated | W | 600 / 808 | 1,020 / 1,078 |
| EER | | | W/W | 4.17 | 3.43 |
| S.E.E.R. | | | | 7.2 | 6.9 |
| P design C | | | kW | 2.5 | 3.5 |
| COP | | | W/W | 4.08 | 3.71 |
| S.C.O.P | | (Average / Warmer) | | 4.3 / 4.9 | 4.3 / 4.9 |
| P design H (Average / Warmer) | | | kW | 2.7 / 1.4 | 2.7 / 1.4 |
| Energy Label | Cooling | | | A++ | A++ |
| (A+++ to D Scale) | Heating | (Average / Warmer) | | A+ / A++ | A+ / A++ |
| Annual Energy Consumption | Cooling | | kWh | 121 | 177 |
| | Heating | (Average / Warmer) | kWh | 879 / 373 | 879 / 373 |
| Sound Pressure* | Cooling | S / L / M / H | dB(A) | 20 / 28 / 36 / 42 | 20 / 28 / 36 / 42 |
| | Heating | L / M / H | dB(A) | 28 / 36 / 42 | 28 / 36 / 42 |
| Sound Power | Cooling | | dB(A) | 60 | 60 |
| Air Flow Rate | Cooling | S / L / M / H / Max. (Power) | m³/min | 3 / 6 / 8 / 10 / 12 | 3 / 6 / 8 / 10 / 12 |
| | Heating | L / M / H | m³/min | 6 / 8 / 10 | 6 / 8 / 10 |
| Dehumidification Rate | | | l/h | 1.1 | 1.3 |
| Running Current | Cooling | Min. / Rated / Max. | A | 1.1 / 3.0 / 6.0 | 1.1 / 4.6 / 6.2 |
| | Heating | Min. / Rated / Max. | A | 1.1 / 3.7 / 7.2 | 1.1 / 4.8 / 7.2 |
| Starting Current | Cooling / Heating | Rated | A | 3.0 / 3.7 | 4.6 / 4.8 |
| Power Supply | | | Ø / V / Hz | 1 / 220-240 / 50 | 1 / 220-240 / 50 |
| Circuit Breaker | | | A | 20 | 20 |
| Power Supply Cable | | | N x mm² | 3 x 1.0 | 3 x 1.0 |
| Power & Transmission Cable | | | N x mm² | 4 x 1.0 (including Earth) | 4 x 1.0 (including Earth) |
| Dimension | | | mm | 652 x 652 x 158 | 652 x 652 x 158 |
| Net Weight | | | kg | 20 | 20 |
| Fan Motor Output | | | W | 32.7 | 32.7 |
| OUTDOOR | | | | A09GA1.U18 | A12GA1.U18 |
| Operation Range | Cooling | Min. / Max. | °C DB | -15 / 48 | -15 / 48 |
| | Heating | Min. / Max. | °C DB | -15 / 24 | -15 / 24 |
| Sound Pressure* | Cooling / Heating | High | dB(A) | 50 / 53 | 50 / 53 |
| Sound Power | Cooling | High | dB(A) | 65 | 65 |
| Air Flow Rate | | High | m³/min | 35 | 35 |
| Piping | Liquid (ODU / IDU) | Min. / Max. | m | 3 / 20 | 3 / 20 |
| | Elevation (ODU / IDU) | Min. / Max. | m | 10 | 10 |
| Piping Connection | Liquid | OD (Outside) | mm (inch) | 6.35 (1/4) | 6.35 (1/4) |
| | Gas | OD (Outside) | mm (inch) | 9.52 (3/8) | 9.52 (3/8) |
| Drain Hose Size | | OD (Outside) | mm (inch) | 21.5 (27/32) | 21.5 (27/32) |
| Refrigerant | Type | | | R32 | R32 |
| | Charge at 7.5m | | kg | 0.800 | 0.800 |
| | | | t-CO ₂ eq | 0.540 | 0.540 |
| | Additional Charge | | g/m | 20 | 20 |
| | GWP | | | 675 | 675 |
| Fan Motor Output | | | W | 43 | 43 |
| Compressor Type | | | | Twin Rotary | Twin Rotary |
| Net Weight | | | kg | 33.4 | 33.4 |
| Dimension | | | mm | 770 x 545 x 288 | 770 x 545 x 288 |
| ACCESSORIES & OTHERS | | | | | |
| Multi Compatible | | | | Y | Y |
| PI 485 | | | | Y | Y |
| Dry Contact | | | | Y | Y |
| Wired Remote Controller | | | | Y | Y |


Preliminary Data Only

* : Sound Pressure is not a value declared on Eurovent Program.
 ※ This product contains Fluorinated greenhouse gases (R32).
 ※ S : Sleep / L : Low / M : Medium / H : High
 ※ GWP : Global warming potential
 ※ t-CO₂eq : F-gas(kg)*GWP/1000
 ※ For our policy of continuous product improvement, specification, design and feature are subject to change without prior notice.
 ※ Y : Available or Applied / - : Not Available or Not Applied



video 2"
 **Apresentação
Megaclima**

video 4"
 **Academia
Megaclima**

video 7"
 **Por dentro da
Megaclima**

30 Anos na climatização e tratamento de ar

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