

2021
AIR CONDITIONER

LG HVAC SOLUTION



2021

AIR CONDITIONER




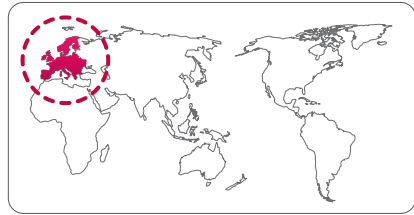
Distributed by

LG Electronics

<http://www.lg.com>
<http://partner.lge.com>

EUROPE SALES INFRASTRUCTURE

-  Europe B2B Regional Head Office
-  National Sales Office
-  Air Conditioning Academy
-  European Distribution Center
-  Europe Energy Lab
-  Production Site



GLOBAL PRODUCTION SITE



LG Energy Labs in Europe

LG Energy Labs are driven to fulfill the commitment of meeting all the requirements regarding energy efficiency and environmental demands. Each LG Energy Lab is an innovative site dedicated to provide essential commercial and residential products in heating, ventilation and the latest energy efficient air conditioning solutions. Additionally, as a showcase, the LG Energy Lab is equipped with complete monitoring and control systems. The performance of all products are tracked and analyzed by a team of Research and Development engineers based in France, Finland and Korea, ensuring maximum efficiency and reliability during the complete products' lifecycle.



European Air Conditioning Distribution Center

LG's European Air Conditioning Distribution Center is centralised in Oosterhout, the Netherlands. Supplying and delivering products to 15 countries in Europe, this Distribution hub has contributed to quick and seamless delivery, direct shipping for smaller orders and bespoke delivery to air conditioners. The hub tries to manage inventory efficiency by complying with the LG EU's established inventory pool.

TOTAL HVAC SOLUTION PROVIDER

Since manufacturing Korea's first air conditioner exclusively designed for residential use in 1968, LG has been a pioneer of air conditioning innovation. Encouraged by LG's technological leadership in the residential air conditioning sector since the late 1990s, LG moved into the commercial air conditioning sector.

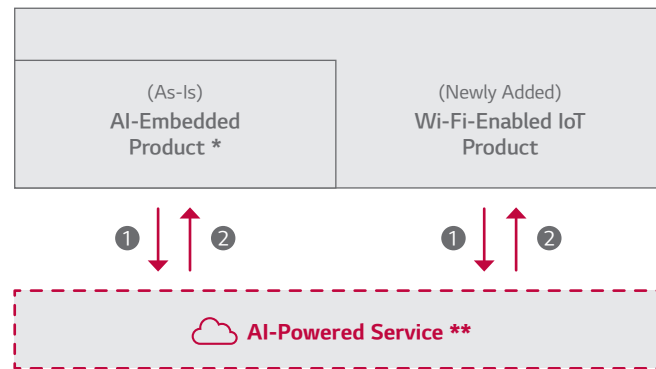
LG has established itself as an exemplary HVAC and energy solutions provider, investing in new technologies, with the addition of chiller, VRF systems and building management systems (BMS) to its comprehensive product portfolio. Alongside its wide range of innovative solutions, the LG promise is to deliver unparalleled customer service.

LG produces expert air conditioning professionals at its academic centers, of which there are nearly 80 worldwide. These academic centers provide workshops and training programs that offer excellent hands-on experience. Additionally, LG provides advanced and highly sophisticated tools for HVAC system engineers and installers, including its time saving LG Air Conditioner Technical Solution (LATS) software. LATS allows LG to support clients with draft energy estimation and energy modeling, model selection and design, lifecycle cost analysis and more to ensure a seamless process from planning to execution. LG also operates several state-of-the-art R&D facilities all across the planet.

Made Better with LG ThinQ™

With most people living lives that are more hectic than ever before, we see the enormous potential benefits new technologies will bring to the home. LG ThinQ links smart products together so that they can work in unison to make your home smarter and more connected. New levels of control and convenience simplify everyday life and free up time so that you can stay focused on what matters. Furthermore, transformative features and services with artificial intelligence will take home evolution one step further. LG ThinQ will provide more personalized and optimized solutions by learning your needs and preferences through its wide range of products. Get more done while doing less. LG ThinQ's Personalized Solution, Proactive Advice, Maximum Efficiency and Intuitive Control deliver an elevated, more intelligent lifestyle.

LG ensures its intelligent offerings, AI-powered products and services unlock new roles for homes that can play an important role for truly smart living. Think Wise. Be Free.



- 1 Understanding users via data collection
- 2 Providing tips & solutions through AI data analytics

* Previous LG ThinQ products-Requirement : evolving products with vocal/visual/product intelligence

** Examples of AI-Powered Service : -Usage guide/tips, Predictive maintenance, Auto/semi-auto setting (TBD)

Consumer Benefits



Intuitive Control

LG ThinQ adds convenience to your daily life by simplifying daily tasks. The LG ThinQ experience is reliable, flexible and effortless from setup to control and beyond. LG ThinQ products can be controlled from anywhere and at any time with simple voice-commands and a tap of the innovative ThinQ smartphone application. Meaning anywhere can be your home.



Maximum Efficiency

LG ThinQ minimizes energy consumption and can even track your energy usage and expenditure. Beyond mechanical advancements, LG ThinQ provides unrivaled energy efficiency by utilizing a combination of analytics, sensors and usage data.



Personalized Solution

LG ThinQ provides tailored recommendations and optimal settings, with your needs and preferences taken into account. Thanks to the power of AI, the same products can offer different experiences depending on your unique tastes and specific situations.

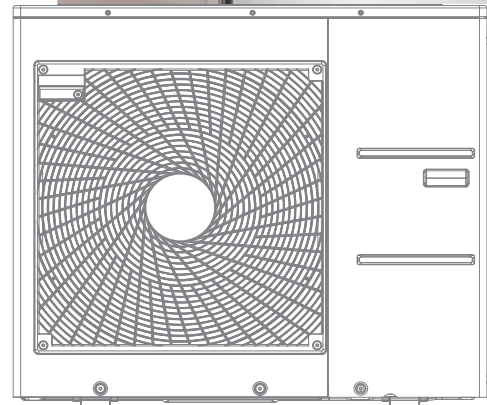
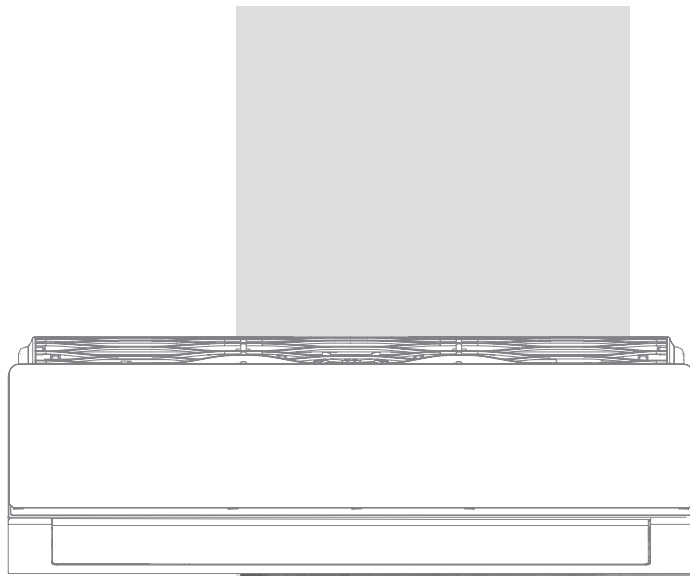
“
LG ThinQ:
A Brand for Products and
Services Incorporating
Advanced AI Technologies
”



010

010 - 143 RESIDENTIAL

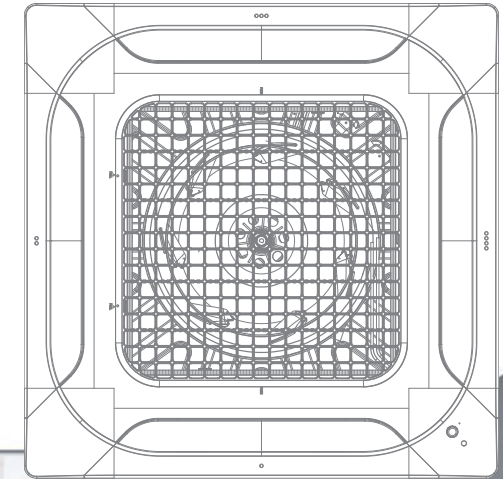
- WALL MOUNTED 022
- PORTABLE AIR CONDITIONER 060
- HEAT PUMP WATER HEATER 068
- MULTI SPLIT 082



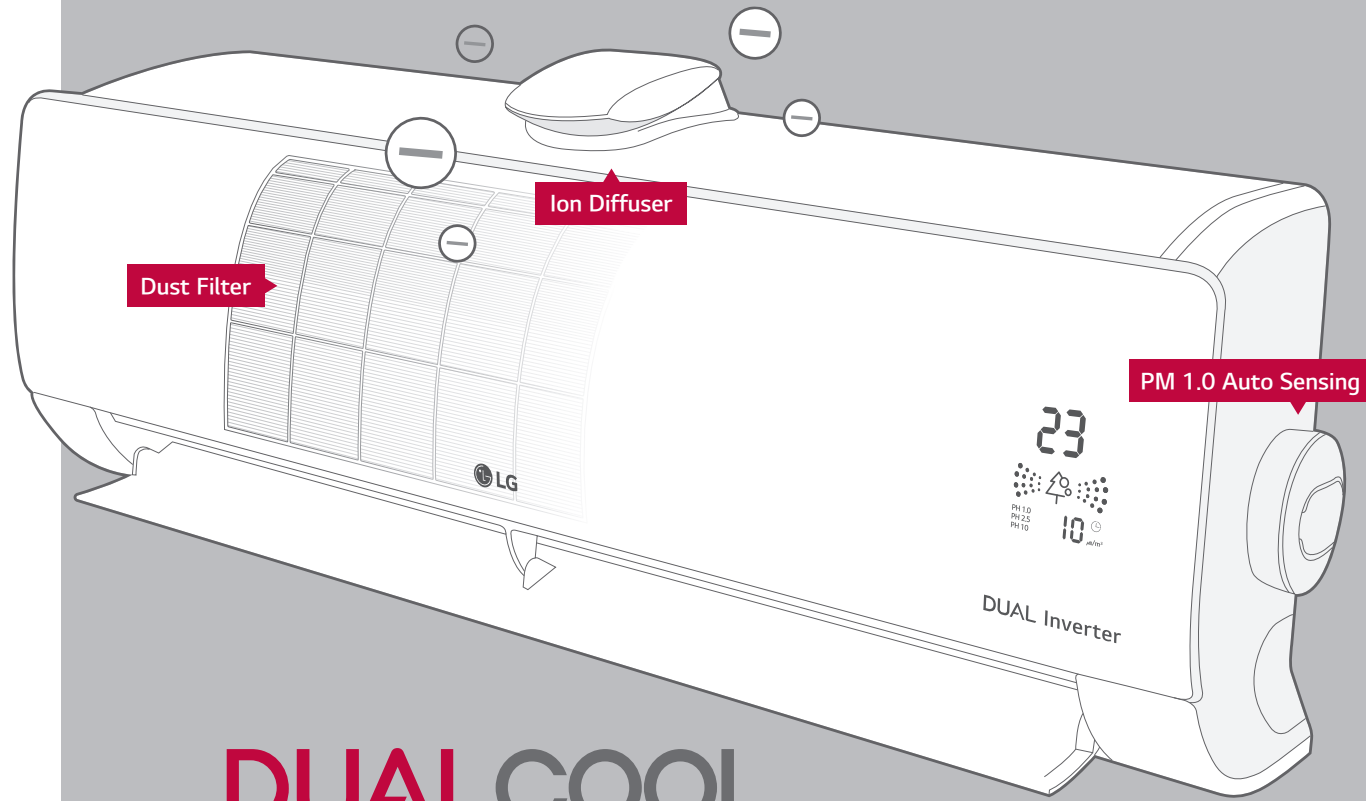
144

144 - 275 COMMERCIAL

- SINGLE SPLIT 148



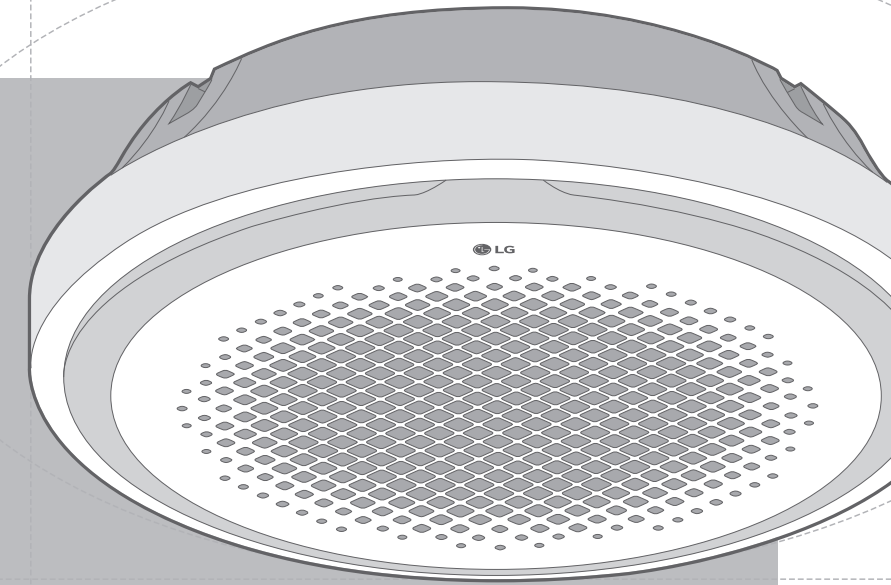
ADVANTAGE OF AIR CONDITIONER



DUALCOOL
with Air Purification

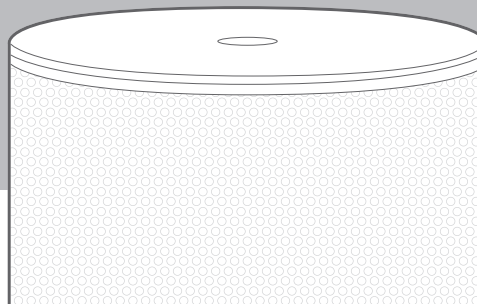
SPACE ART DESIGN

Unique designs that enhance your interior's effects



EASY AND SIMPLE VOICE CONTROL

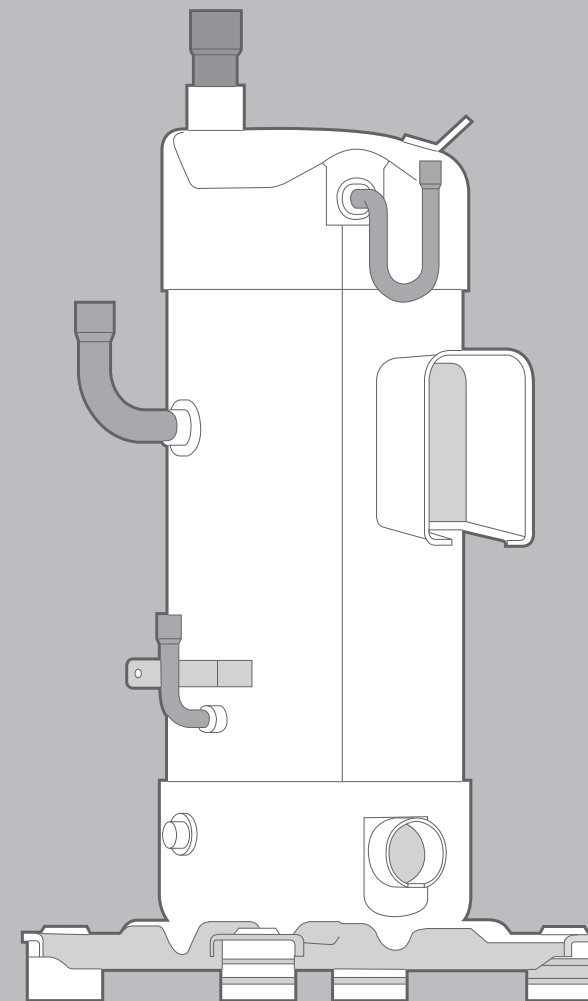
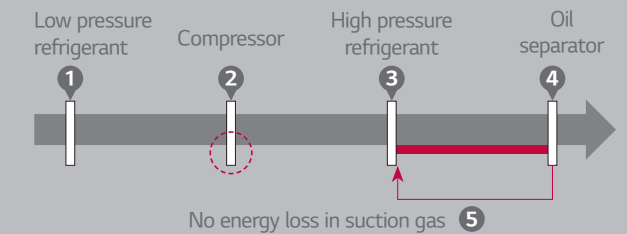
Easier and more convenient!



ADVANCED TECHNOLOGIES R1 COMPRESSOR

Revolutionary Scroll Compressor is applied for high-efficiency and reliability

HiPOR™



10 YEAR WARRANTY EXTREME DURABILITY

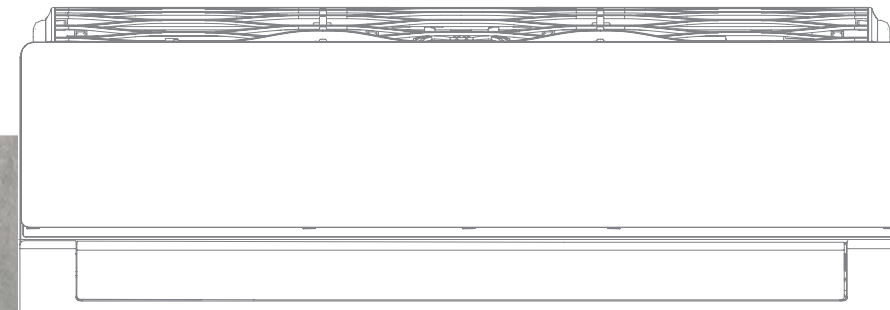
Reliable Air Conditioner



010-145

RESIDENTIAL

WALL MOUNTED / PORTABLE AIR CONDITIONER / HEAT PUMP WATER HEATER / MULTI SPLIT



Enjoy A New Level Of Fresh Air

AirCare Complete System™

Today's air conditioners, as well as fast cooling & energy saving are now basic, and all brand communicate each benefit of filtering bacteria, dust and mold and purifying contaminated air. However, it's not differentiating to consumer. LG's AirCare Complete System™ refers to a technology that combines UVnano™ on top of filtering system to appeal for differentiation.

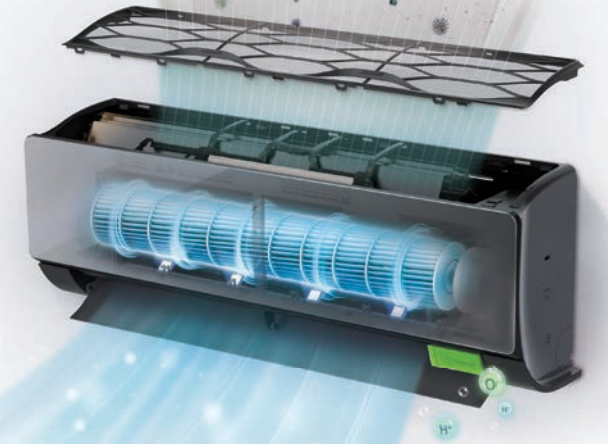


What is **AirCare Complete System™** ?

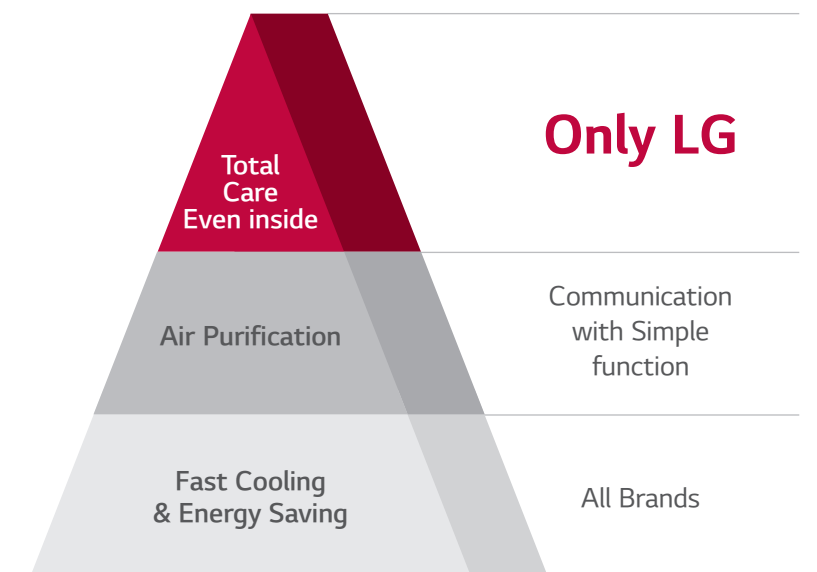
Filtering System

+

UVNano™



Total Care Even inside



Enjoy A New Level Of Fresh Air

AirCare Complete System™

LG DUALCOOL, LG ARTCOOL brings the freshness of nature to your home. The all-new AirCare Complete System uses a filtration process with UVnano™ and Ionizer that removes fine dust and even bacteria, ensuring the breeze around you is always fresh. ensuring the air you breathe is always fresh. Breathe in the nature - right at home.

ART COOL™ MIRROR

Auto Cleaning

Automatically dries out any moisture collected in the unit to prevent the formation of dirty and harmful scraps.

Pre-Filter™

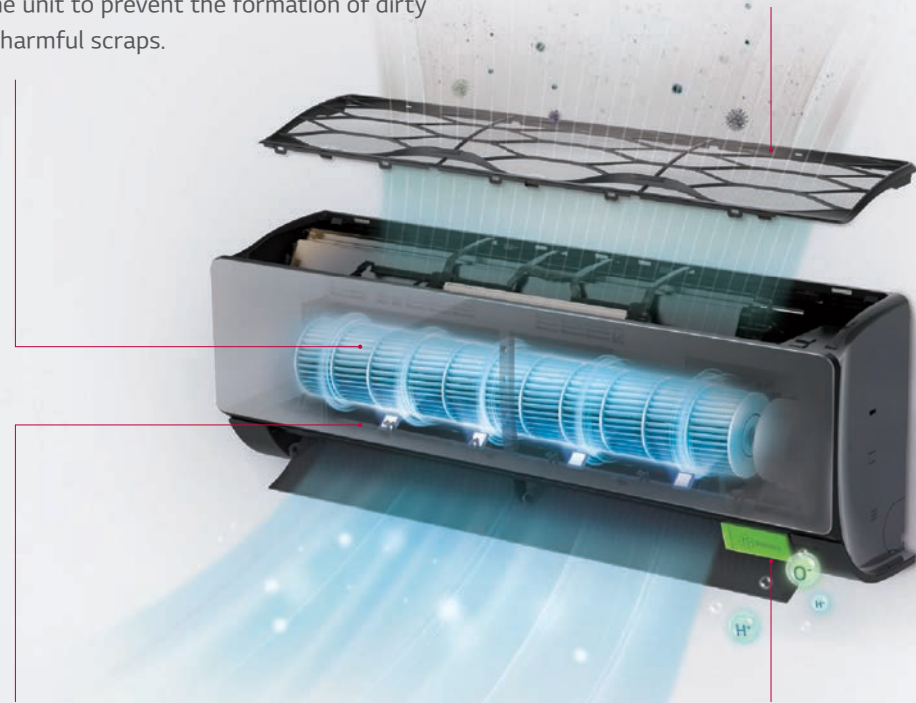
Traps big dust particles from the start.

UVnano™

Keeps your fan 99.99% bacteria-clean with UV LED light to ensure fresh and clean air is delivered.

Plasmaster™ Ionizer⁺

Stay cool and keep the air healthy by removing 99.9%* of adhering bacteria and deodorizing.



DUALCOOL™ DELUXE

Auto Cleaning

Automatically dries out any moisture collected in the unit to prevent the formation of dirty and harmful scraps.

Pre-Filter™

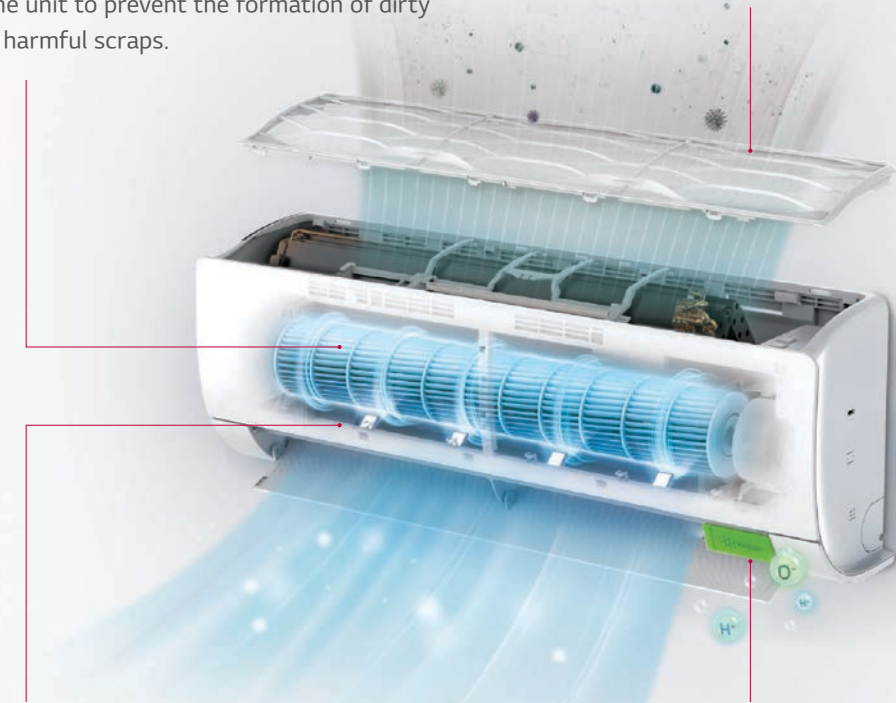
Traps big dust particles from the start.

UVnano™

Keeps your fan 99.99% bacteria-clean with UV LED light to ensure fresh and clean air is delivered.

Plasmaster™ Ionizer⁺

Stay cool and keep the air healthy by removing 99.9%* of adhering bacteria and deodorizing.



Anytime, Anywhere!

DUALCOOL ThinQ™

with Voice Control



OK Google,
turn on the air conditioner.

Sure, turning on



Key Feature

Enhance your daily life with LG ThinQ

Cool home when you arrive
"It would be wonderful if my place is already cool when I arrive."

Check electricity bills throughout the month
"How much have I been using the AC lately?"

Switch off AC after you've left
"Oh no! Did I remember to turn off the AC?"

No need to search for the remote control your AC with your phone
"Where's the remote control? I don't want to move a inch from my bed"

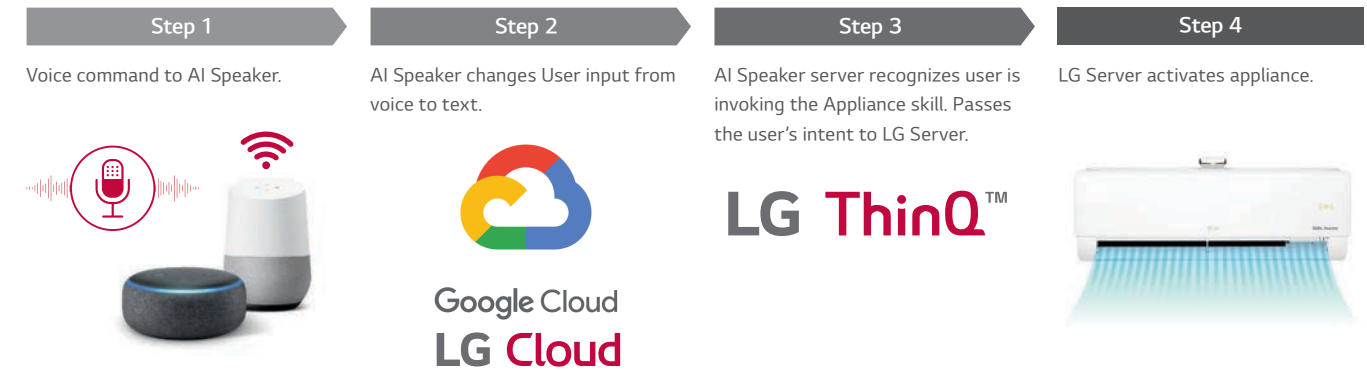
LG ThinQ™

Voice control for a better life

- Very intuitive : It has never been that simple to control a device.
- Accessible to everyone : Young to elder people. Increase your comfort by asking so.
- Time saving : Don't look for the remote control anymore, just say it with your voice instead.

Simple voice control, time saving & accessible to everyone

No need to wander around searching for your AC's remote control. DUALCOOL™ models are also compatible with AI speakers such as LG ThinQ with Google Assistant, Google Home and more. From now on, don't bother pressing any buttons. Use your voice instead.



※ LG ThinQ is now renamed to LG ThinQ.
 ※ Smart features and voice assistant product may vary by country and model Check with your local retailer or LG for service availability.

Don't Worry! Now, Breathe Healthily

DUALCOOL

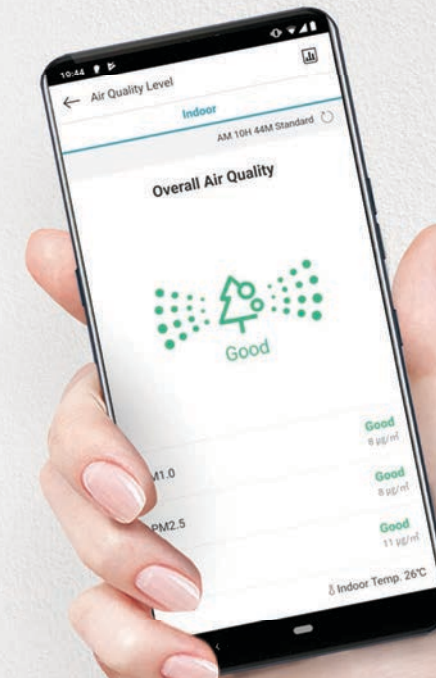
with Air Purification



Cooling + Heating + Air purification
Comfort 365 days

Removes Ultrafine dust
Ion Diffuser & Micro Dust filtering system

Real-time control & monitoring
LG ThinQ APP



Key Feature

Air Conditioner and Air Purifier in One

PM1.0 sensor is automatically activated and filtration system uses 5 million ions to capture and remove microscopic dust particles.



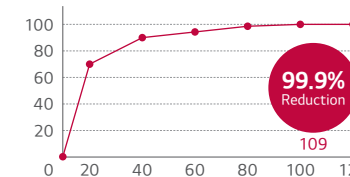
※ Formerly branded LG ThinQ is now LG ThinQ.
※ Smart features and voice assistant product may vary by country and model. Check with your local retailer or LG for service availability.

Reduction of 0.1 μ m (1/500 of hair) Micro Dust Up to 99.9%

Micro dust 0.1 μ m (100nm) can be removed up to 99.9% within 109 minutes.

Test Result

0.1 μ m (100nm) Air Purifying Performance Test



※ Test Condition
- Test Room size (W x H x D) : 4,000 x 3,000 x 2,500 (mm), Test model S3NM12JA1YB

Air Purification with Coverage Up to 29m²

Feel the difference in the air with coverage up to 29m².

Test Result

PM 2.5 Air Purifying Capability Test

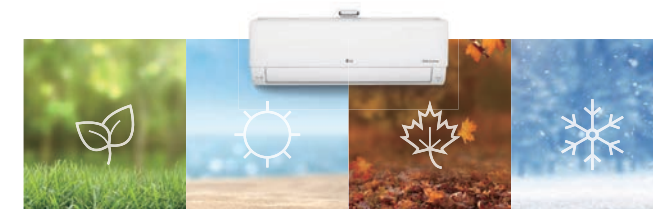


※ Coverage vary depending on the product capacity.
Testing by TUV Verification, SJ : 27.4m², SK : 29.3m²

Four Seasons of Breeze

Enjoy comfort in all four seasons with cooling, heating, and air purification.

Comfort 365 days











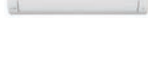
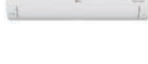
Conveniently Manage Air Quality with LG ThinQ App

Let's check now! History of your air quality by LG ThinQ.



INDOOR UNITS LINE-UP









○ Single Split Only ● Compatible ● Multi Split Only

MODEL	kBTu kW	5	7	9	12	15	18	24	
		1.5	2.1	2.6	3.5	4.2	5.3	7.0	
ARTCOOL	Gallery				○ A09FT NSF	○ A12FT NSF			
	Mirror			● AM07BH NSJ	○ AC09BH NSJ	○ AC12BH NSJ	○ AC18BH NSK	○ AC24BH NSK	
DUALCOOL	Prestige				○ F09MT NSM	○ F12MT NSM			
	Air Purification				○ AP09RT NSJ	○ AP12RT NSJ			
	Deluxe			● DM07RH NSJ	○ DC09RH NSJ	○ DC12RH NSJ	○ DC18RH NSK	○ DC24RH NSK	
	Deluxe 2				○ DC09RT NSJ	○ DC12RT NSJ			
	Standard Plus		● PM05SP NSJ	● PM07SP NSJ	○ PC09SQ NSJ	○ PC12SQ NSJ	● PM15SP NSJ	○ PC18SQ NSK	○ PC24SQ NSK
	Standard 2			● MS07ET NSA	○ S09ET NSJ	○ S12ET NSJ	○ S18ET NSK	○ S24ET NSK	
	Standard				○ S09EQ NSJ	○ S12EQ NSJ	○ S18EQ NSK	○ S24EQ NSK	
	Standard 3				○ S09EH NSA	○ S12EW NSJ			

※ Refer to multi split line up for 5, 7, 15 kBTu indoor unit connection.

OUTDOOR UNITS LINE-UP

○ Single Split Only ● Compatible ● Multi Split Only

MODEL	kBTu kW	9	12	14	16	18	21	24	27	30
		2.6	3.5	4.1	4.7	5.3	6.2	7.0	7.9	8.8
ARTCOOL	Gallery		○ A09FT UL2	○ A12FT UL2						
	Mirror		○ AC09BH UA3	○ AC12BH UA3		○ AC18BH UL2		○ AC24BH U24		
DUALCOOL	Prestige		○ F09MT U24	○ F12MT U24						
	Air Purification		○ AP09RT UA3	○ AP12RT UA3						
	Deluxe		○ DC09RH UL2	○ DC12RH UL2		○ DC18RH UL2		○ DC24RH U24		
	Deluxe 2		○ DC09RT UA3	○ DC12RT UA3						
	Standard Plus		○ PC09SQ UA3	○ PC12SQ UA3		○ PC18SQ UL2		○ PC24SQ U24		
	Standard 2		○ S09ET UA3	○ S12ET UA3		○ S18ET UL2		○ S24ET U24		
	Standard		○ S09EQ U	○ S12EQ UA3		○ S18EQ UL2		○ S24EQ U24		
	Standard 3		○ S09EH UA3	○ S12EW UA3						

WALL MOUNTED

ARTCOOL / PRESTIGE / DUALCOOL with Air Purification / DELUXE / STANDARD PLUS / STANDARD



FEATURE OVERVIEW

				CORE TECH					PERFECT HEALTHCARE					SMART		
				Dual Inverter Compressor	UV nano™	Ultrafine Dust Sensing (PM 1.0)	Plasmaster Ionizer™ ^{PLUS}	Auto Cleaning	Voice Control							
				■ Cooling ■ Heating												
ARTCOOL	Gallery	9k	12k	●				●	●							
	Mirror	9k	12k	18k	24k	7k ⁴⁾	Only for Multi	●	●	●	●	●	●	●	●	●
DUALCOOL	Prestige	9k	12k	●				●	●	●						
	Air Purification	9k	12k	●		●		●	●							
	Deluxe	9k	12k	18k	24k	7k ⁴⁾	Only for Multi	●	●	●	●	●	●	●	●	●
	Deluxe 2	9k	12k	7k ⁴⁾	Only for Multi	●		●	●	●						
	Standard Plus	9k	12k	18k	24k	5k / 7k / 15k ⁴⁾	Only for Multi	●		●	●					
	Standard 2	9k	12k	18k	24k	7k ⁴⁾	Only for Multi	●		●	●					
	Standard	9k	12k	18k	24k			●		●						
	Standard 3	9k	12k	●				●	●							

Feature may vary for each model.
 1. When connected to Multi Outdoor unit, Silent Mode 3dB is working by simply setting the dip switch on the PCB of the outdoor unit.
 2. When combines with 40k Btu, Cooling A+, Heating A
 3. Wi-Fi Ready : can be connected by using Wi-Fi controller (PWFMD200)
 4. Please refer to the specifications of Multi outdoor units.

FEATURE OVERVIEW

SMART		ENERGY EFFICIENCY		COMFORT				EXTREME DURABILITY	FAST COOLING & HEATING		MULTI
Embedded Wi-Fi	Smart Diagnosis	Active Energy Control	Energy Display	Comfort Air (Indirect Air)	4 Way Swing	Low Noise 19dB	Silent Mode 3dB	Gold Fin™	Jet Cool	Fast Heating	Compatible
●					● 3 way			●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	Black Fin		●	
●	●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	Black Fin	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	Black Fin	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	Black Fin	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●
●				●	●	●	●	●	●	●	

powered by
DUAL Inverter Compressor™

What is the Dual Inverter Compressor?

A compressor is the heart of an air conditioner, and monitoring whether it works properly, effectively, or noisily can cause stress as well as cost money. LG's Dual Inverter Compressor provides an effective solution, resulting in an air conditioner that cools faster, lasts longer, and operates quieter than conventional models.



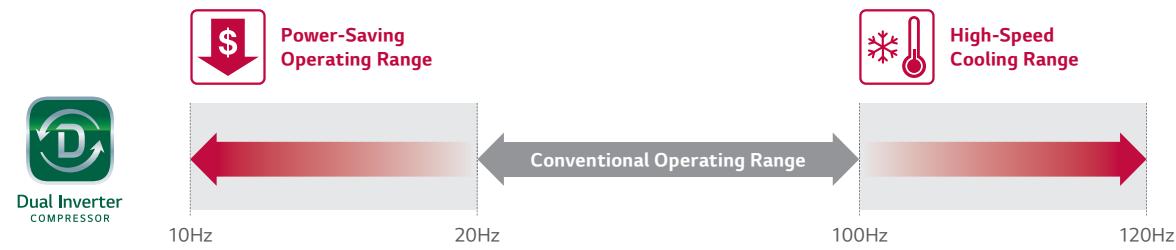
Product Reliability Improvement

The Dual Inverter Compressor reduces the vibration and with it the sound pressure levels. The reduction in vibration reduces the possibility of fractures occurring in the the surrounding pipework.

How it Works

Varied-Speed Dual Rotary

A compressor motor with a wider rotational frequency that is energy efficient and has a higher volumetric quick cooling capacity than any conventional compressors.



R32 Refrigerant

R32 refrigerant is a more eco-conscious refrigerant than the previous generation of refrigerants.

Pain Point

Due to accelerated global warming and the destruction of the ozone layer, various international conventions and meetings are held to enhance restrictions to the use of refrigerant or enforce the use of eco-conscious refrigerants. In order to reduce environmental destruction, refrigerant R32 is internationally acclaimed for being eco-friendly. This low volume refrigerant is more efficient than conventional refrigerants and boasts a 68% reduced global warming potential.



Benefit

Eco-conscious refrigerants reduce environmental pollution.

How it Works

Utilizing a small amount of the R32 refrigerant also qualifies it to be a highly green efficient system.

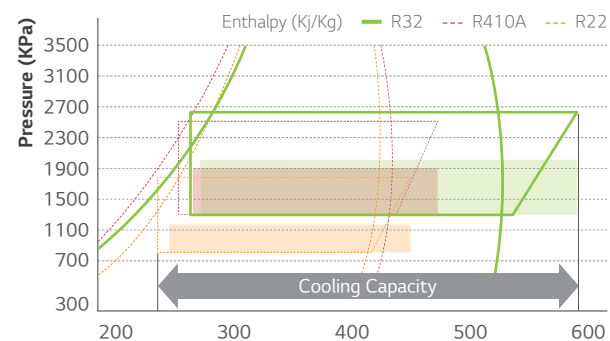
Alleviate Global Warming & Ozone Layer Destruction

R32 efficiently works even in small volume compared to existing R410A refrigerant, which decreases potential hazard of global warming.

	R410A	R32
Composition	Blend of R32 50% + R125 50%	Pure R32 (No blend)
GWP (Global Warming Potential)	2087.5	675

High Compressibility

R32's high compressibility rate gives more powerful cooling performance and efficiency compared to existing refrigerant R22 and R410A.



UVnano™

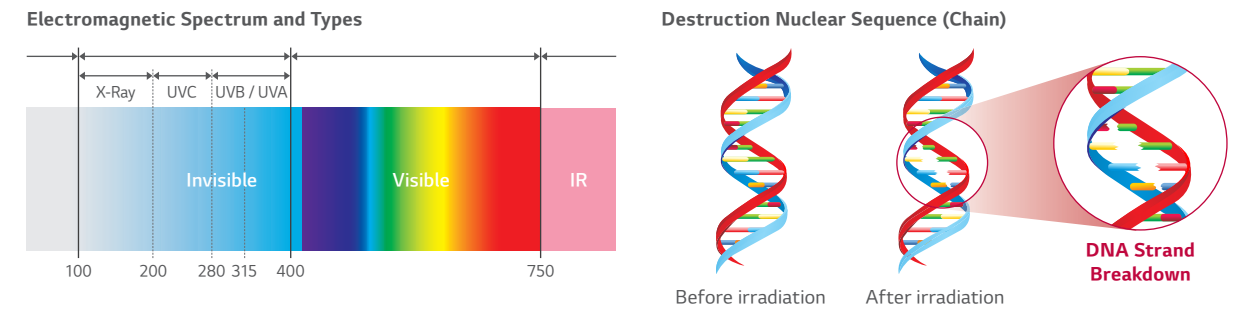
New UV LED technology "UVnano" is applied to LG DUALCOOL, and it keeps the fan (inside of indoor unit) 99.99% bacteria-clean with ultraviolet light to ensure that the air passing through is clean too.

※ 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 (bacterial/MOLD/virus), making it impossible to multiply.
- High absorption into DNA at 260 to 270 nm wavelengths

DNA Absorption Efficiency by Wavelength



Ultraviolet light is a form of radiation which is not visible to the human eye. It's in an invisible part of the "electromagnetic spectrum". Radiated energy, or radiation, is given off by many objects: a light bulb, a crackling fire, and stars are some examples of objects which emit radiation.

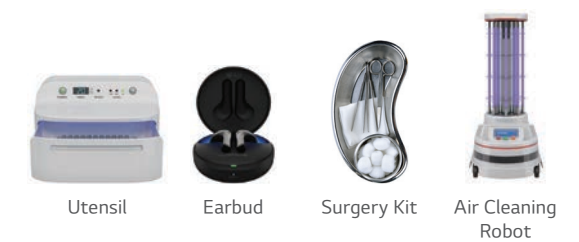


UVC Applied Product

LG Product



Various Product Lines



Benefit & Verification

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

Test Result



Remove up to **99.99%** of bacteria-clean from the 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

Plasmaster™ Ionizer+

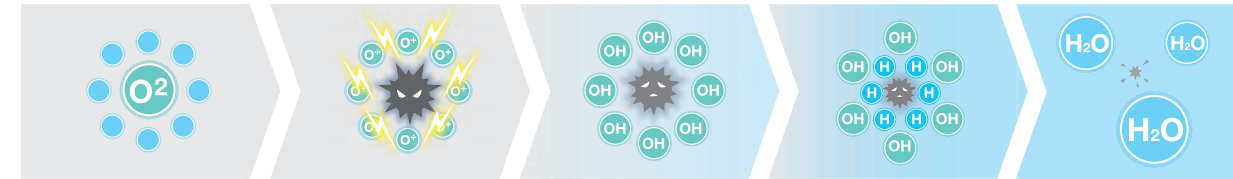
The powerful Plasmaster Ionizer+ protects you from bad odors and Escherichia coli and Staphylococcus in the surface with over 3 million ions to Reduce to make a safer, and cleaner environment.

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

How It Works

Reduction and Deodorization (Utilizes Over 3 Million Ions)

Plasmaster Ionizer+ reduces E.coli and Staphylococcus in the surface with over 3 million ions.

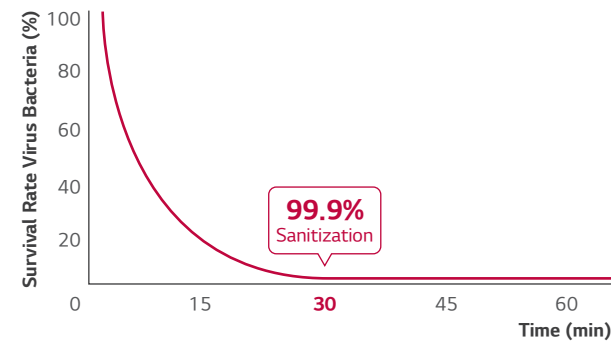


Ion Cluster Generation	Surrounding Harmful Substances	OH Radical Production	Chemical Reaction	Sterilization
Ions are released into air	H- and O- bond to harmful particles	OH radicles inactivate harmful substances	OH radicles bond with H particles	H ₂ O molecules are produced

Test Result

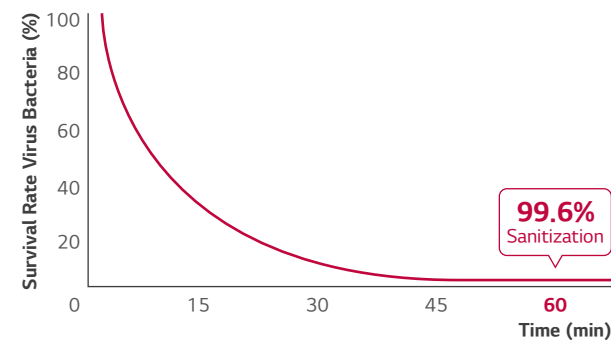
Reduction Performance Evaluations

Reduce Bacteria E.coli over 99.9% in 30 min.



※ Test Conditions :
 Space : 52m³ Chamber (measuring with the specimen in the center of test chamber)
 Temperature & Humidity : Normal
 Bacteria : E coil colon bacillus
 Tested by Intertek

Sterilize staphylococcus over 99.6% in 60 min



※ Test Conditions :
 Space : 52m³ Chamber (Measuring with the specimen in the center of test chamber)
 Temperature & Humidity : Normal
 Bacteria : Staphylococcus Aureus
 Tested by Intertek

Odor strength decrease in 60 minutes

An odor of measured as 2 European odor units (ouE/m³) or less indicates that the level of odor falls within permissible limits.

Odor strength level	Offensive odor substance sensitivity
4. Very Strong	Food waste smell (3.6)
3. Strong	Bathroom smell
2. Moderate	Indoor life smell
1. Light	Mountain smell (1.5)

Odor strength reduces from 3.6 to 1.5, to include airborne odor as well as that on the curtains, clothes and other similar materials.

※ Test conditions : Space : 8m³ Chamber
 Temperature & Humidity : Normal
 Tested by Intertek

PM 1.0 Auto Sensor

As AC turns on, PM 1.0 sensor automatically operates to capture and remove microscopic dust particles including ultra fine dust.

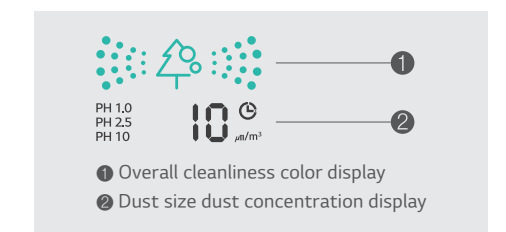
※ Specifications may vary for each model. ※ Depending on the experimental conditions.

- AQI (Air Quality Index) is displayed in unit of 1 within 8-999 µg/m³.
- AQI (Air Quality Index) may continuously change according to changes in the indoor environment.
- Overall cleanliness color is displayed based on the highest contamination level among fine dust (PM10), ultra fine dust (PM2.5), and super ultrafine dust (PM1.0).
- Overall cleanliness color is displayed in 4 levels according to the indoor contamination level.
- If dust concentration is high, the difference between the displayed dust concentration and the actual dust concentration may increase.



During the operation, if you press PM SENSOR button, you can check the indoor cleanliness in each level.

Color	Level	Display standard (µg/m ³)		
		Super ultra fine dust (PM 1.0)	Ultra fine dust (PM 2.5)	Fine dust (PM 10)
Green	Good	12 or less	12 or less	54 or less
Yellow	Normal	13 - 35	13 - 35	55 - 154
Orange	Bad	36 - 55	36 - 55	155 - 254
Red	Very Bad	56 or more	56 or more	255 or more



Guide to dust particles' size

- Finedust : Dust with particle size of 10µm or less (Generated from workplace combustion, vehicle exhaust, etc.)
- Ultrafine Dust : Dust with particle size of 2.5µm or less (Composed of ion component, carbon compound, and metal compound)
- Super Ultrafine dust* : Dust with particle size of 1.0µm or less (Cigarette smoke, etc.)

AQI (Air Quality Index) evaluation is carried out with LG standard test dust.

* Minimum capturing size of particle : 0.02µm

※ PM : Particulate matter is the sum of all solid and liquid particles suspended in air many of which are hazardous. This complex mixture includes both organic and inorganic particles, such as dust, pollen, soot, smoke, and liquid droplets.

Auto Cleaning

The interior of the air conditioner is maintained clean by drying off the heat exchanger, then cleaning the interior once more.

※ Specifications may vary for each model.

Pain Point

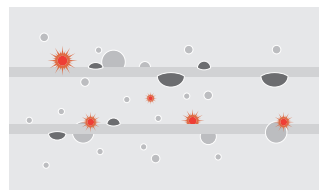
The main cause of odor within air conditioners is mold and bacteria growing on the heat exchanger. These germs can spread when the heat exchanger is wet.



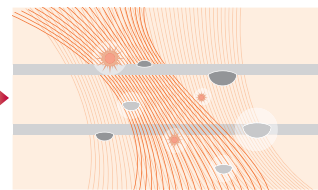
How It Works

Cleans Filter with Regular Air Flow

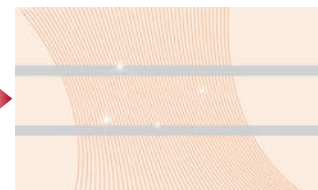
The comprehensive auto cleaning function prevents the formation of bacteria and mold on the heat exchanger, providing an enhanced environment.



By dehumidifying, the auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.



The indoor environment remains odorless with the advanced deodorizing function.

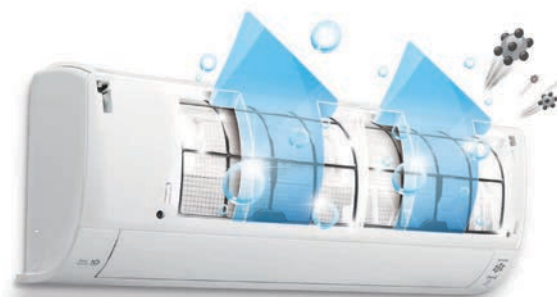


By preventing polluting of the heat exchanger caused by various germs and bacteria.

Benefit

Removes Harmful Particles

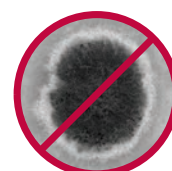
Auto Cleaning provides clean air by preventing bacteria, mold and odors that can otherwise accumulate in an indoor unit.



Bacteria Prevention



Odor Prevention



Mold Prevention

Embedded Wi-Fi

Control your air conditioners by using Android or iOS based smartphones.

LG ThinQ



LG ThinQ

Download the LG ThinQ app from Google or Apple app stores.



How it Works

Embedded Wi-Fi modem

Enable "LG ThinQ" on your air conditioner.



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



Wi-Fi Connectivity

Each individual member of your family can customize the air conditioner temperature and fan speed accordingly and then save the settings in their app to run it later. These settings can be saved for each air conditioner too.

Multiple Devices



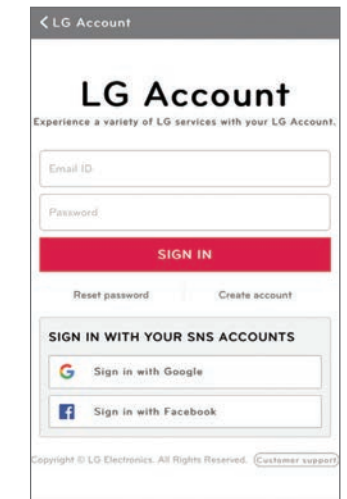
Multi-Control



※ Can be controlled by multiple users, but not simultaneously.

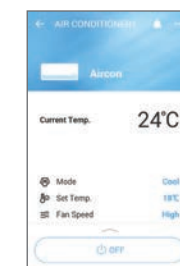
Easy Registration and Log-in

Follow the interactive set-up LG Account steps that will activate LG ThinQ's impressive features.



Benefit

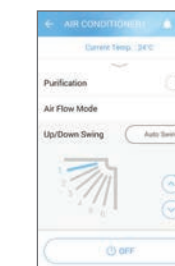
Simple operation for various functions



Energy Monitoring



Smart Diagnosis



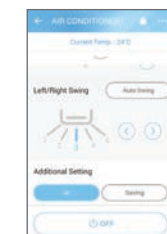
Filter Management

Integrated Home Appliances Control

Monitor and control your LG appliances from one place.



Straight-forward management



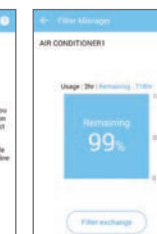
Reservation



Energy Monitoring



Smart Diagnosis



Filter Management

Access your air conditioner anytime and from anywhere

with a Wi-Fi equipped device and LG's exclusive control app, LG ThinQ.



Smart Diagnosis

Smart Diagnosis allows you to monitor the health of your air conditioner directly from your smartphone.

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

What is Smart Diagnosis?

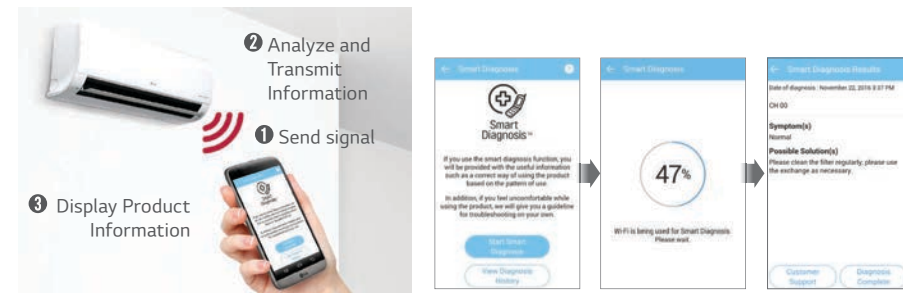
Smart Diagnosis allows users to conveniently check setup, installation, troubleshooting and other information directly from a smartphone.

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

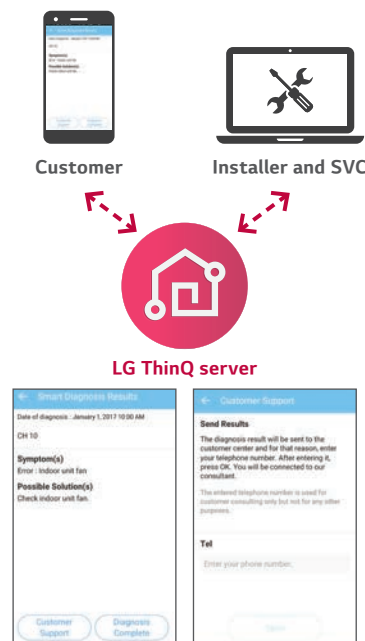


Non Embedded Wi-Fi Model



Benefit

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient.

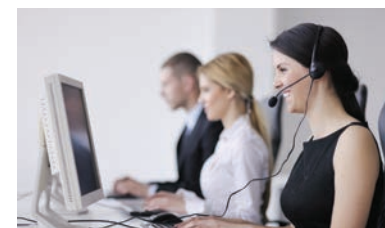


For Consumer



- Easily check operational status of a product without a display or one that provides limited information.
- Save energy by monitoring key operational information and power consumption.
- Using the Maintenance Guide helps to improve device performance and increase product life-span.

For Installer and SVC



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

SIMs

By connecting SIMs chip, you can check the status of your air conditioner and diagnose problems from your smartphone.

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

What is the LG SIMs?

Monitor the status of your air conditioner and accurately diagnose problems by connecting it to a smartphone via a SIMs* chip.



* SIMs : Smart Inverter Monitoring System

How It Works



SIMs App

1. Use a SIMs chip to connect a smartphone to an air conditioner.
2. Monitor and diagnose problems in real time using the SIMs app.

Benefit

Easy Monitoring

Diagnose problems anytime, anywhere with a SIMs chip.

Easy Diagnosis & Quick Response

Easily monitor IDU/ODU and diagnose problems. Save and review diagnostic data.

Main

- Current outdoor temperature
- Indoor temperature
- Inverter compressor frequency
- Operating opening
- Error code
- Frequency limits Indoor.
- Outdoor fan speed

Indoor Unit

- Indoor Unit capacity
- Operation mode
- THM mode
- REM mode
- FAN operating condition
- EEV opening
- Room temperature
- Suction Temperature
- Intermediate temperature
- Exit temperature

Outdoor Unit

- Frequency
- Fan RPM
- DC Link
- Input current
- Input voltage
- EEV operation mode
- Restart timer
- Compressor mode
- EEV opening

Chart

- Room temperature
- Heat exchanger pipe temperature
- Compressor discharge temperature
- Frequency
- Outdoor temperature
- Compressor suction temperature
- Electric current
- Voltage

Certificate



※ Smartphone Requirements (iOS : 6.1 or later, Android : 2.3 or later)

Low Refrigerant Detection

Early notification of low refrigerant protects your air conditioner from the risk of damage.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.
 ※ When connected to Multi ODU, Low Refrigerant Detection function may not be supported.

How It Works

Early Detection of Low Refrigerant Levels

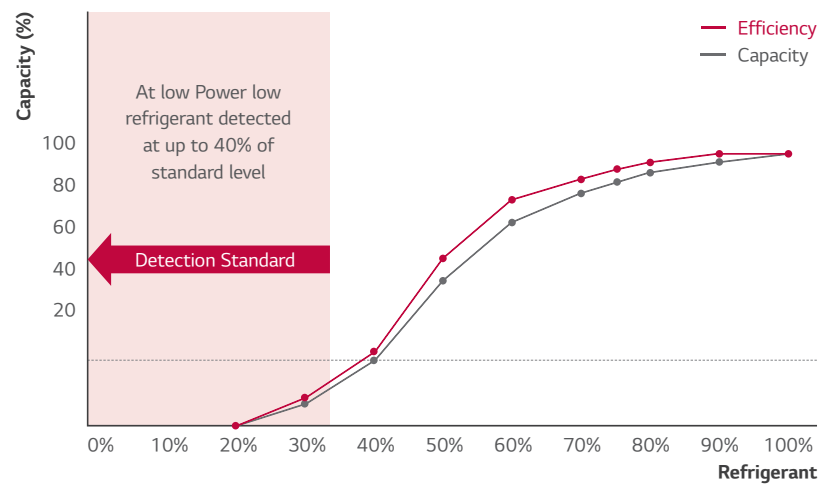
The Air Conditioner is automatically shut down when low refrigerant level is detected.

3 Checkpoints for Low Refrigerant Level :

- 1) The heat exchanger temperature is comparatively cool
- 2) The outdoor unit is working properly
- 3) The energy consumption is working under a standard pattern

If any of the above conditions are not met, for a maximum of 4 times, after 15 minutes of Air Conditioner operation, a low refrigerant level is detected and the Air Conditioner is shut down.

Capacity and Effectiveness of the Refrigerant Levels



※ This function only works under the following conditions
 - Indoor/Outdoor temperature is up to 20 degrees Celsius
 - Cooling and dehumidification mode

Benefit

Longer Lifespan for Air Conditioner



When low refrigerant Level is detected, it alternately shows CH and 36 on the display.

※ Some models show CH and 38 alternately on the display.

Supreme Energy Efficiency

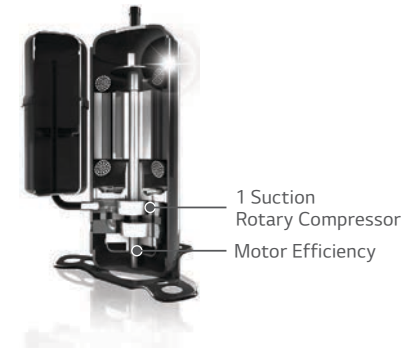
LG's revolutionary Inverter technology boasts powerful yet quiet performance while minimizing energy consumption. With world-class energy efficiency, enjoy comfort as well as energy savings.

※ Based on F09MT Model. ※ Specifications may vary for each model.

High Efficient Compressor and Reversing Valve

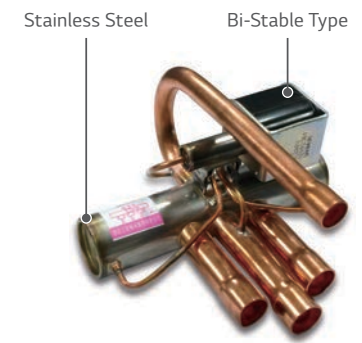
Rotary Compressor and Motor Efficiency

The number of suction connections has been reduced from two to one to increase the efficiency of the refrigerant compression during low speed conditions. The DC motor in LG air conditioners remains unsurpassable incomparable to in the world's top class efficiencies.



Bi-Stable Reversing Valve

The Input power of 4 way valve has been reduced to 0W by using a Bi-Stable type.



Improved Inverter Drive Efficiency

Used to optimize the time of current flow by controlling the number of converter switching according to energy consumption status. Displays comparatively higher performance and advanced energy efficiency than conventional Inverter air conditioner by reducing power loss with an advanced material component called SiC.



Energy Display

LG's Energy Display panel monitors the amount of energy levels used. Reduce energy consumption while enjoying a comfortable indoor environment by checking your energy level directly on the AC panel.

※ Specifications may vary for each model. ※ When connected to Multi ODU, Energy Display function may not be supported.

How it Works

Magic Display & Remote Control

With the push of a button on the remote control, indoor unit's LCD display shows the current and total energy use, thus making the users aware of reducing energy consumption.



Benefit

Normal Mode

Current Setting Temp.

Electric Power

Displays Current Energy Use

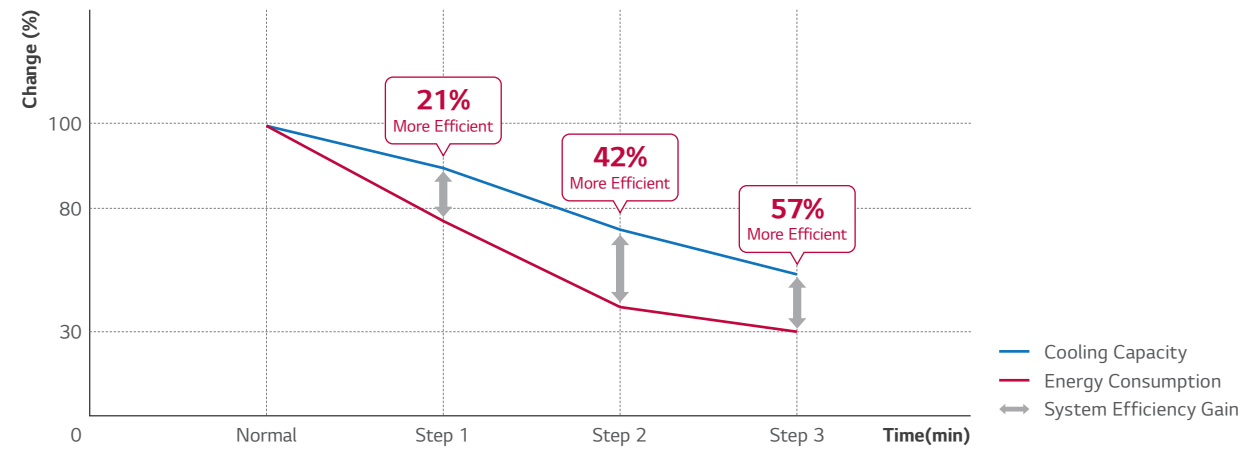


Active Energy Control 4 - Step

LG's Active Energy Control adjusts the energy consumption level and cooling capacity by controlling maximum frequency of the compressor motor.

※ Specifications may vary for each model. ※ Depending on the experimental conditions.
 ※ When connected to Multi ODU, Active Energy Control function may not be supported. ※ Active Energy Control works only cooling mode.

Concept & Benefit



※ Test Conditions : Normal Temperature (Indoor Temperature at the Cooling Mode : 28°C, Outdoor Temperature : 32°C)
 ※ Test Model : DC12RH

How It Works

NORMAL 100% energy usage

Many people and high-activity level.



STEP 1 80% energy usage

Few people and moderate-activity levels.



STEP 2 60% energy usage

Fewer people and low-activity levels.



STEP 3 40% energy usage

Fewest people with no activity.



Comfort Air (Indirect Air)

LG provides pure hygienic and temperature regulated atmosphere surrounding your living space. An automatic vane angle adjustment sets perfect vane angle and air volume.

※ Specifications may vary for each model.

Concept

Comfort Air changes the air flow angle to ensure that air is directed away from occupants to promote more comfortable environments optimized for sleeping and more.

How It Works

Control Panel



Comfort Vane

This option conveniently sets an AC's louvers to a preset position so that outflowing air is directed away from a room's occupants.



Scene 1: Inclines to a maximum 80° angle.
 Sets vane angle to highest position :
 Optimized for gentle airflow cooling.

Indoor Unit Display



Remote Controller Display



Scene 2: Declines to a maximum 10° angle.
 Sets vane angle to lowest position :
 Optimized for gentle airflow heating.

Indoor Unit Display



Remote Controller Display



4 Way Swing

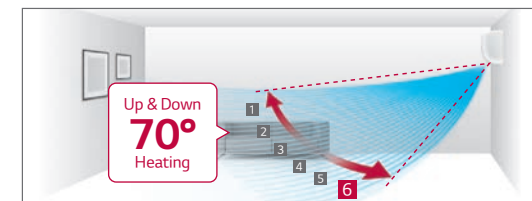
Cool air reaches out to the entire room regardless of where the air conditioner is installed.

※ Specifications may vary for each model.

How It Works

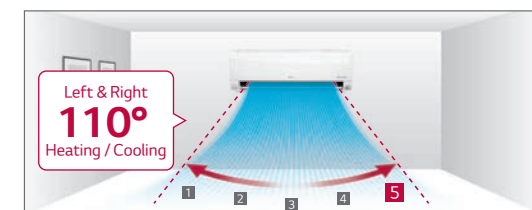
6-Step Vane, Control up to 70°

The vertical vane, which moves up and down, has 6 different settings including full-auto swing.



5-Step Louver, Control up to 110°

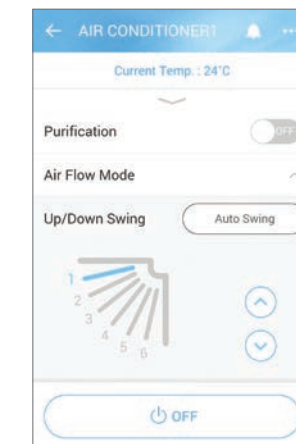
The louver, which sways left and right, has 5 different settings including full auto-swing.



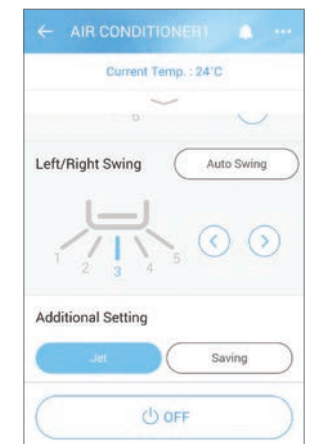
※ Angle can be different from each model and working mode.

Easy and Simple Control

Airflow direction can be changed by LG ThinQ Wi-Fi app.



Up/Down Swing



Left/Right Swing

Low Noise

LG Air conditioners operate at 19dB low noise level.

※ Specifications may vary for each model.

How It Works

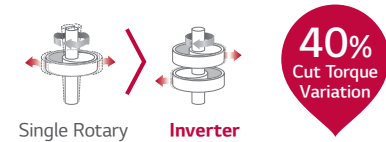
LG's Unique Skew Fan

By minimizing the surface pressure of the fan blade when in contact with the air, the noise produced by the air conditioning unit is reduced to a remarkably low level.



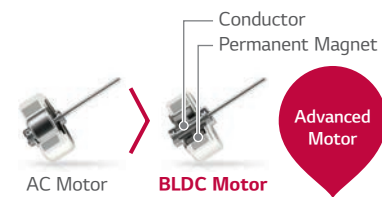
ALVC (Active Low Vibration Control)

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.



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.



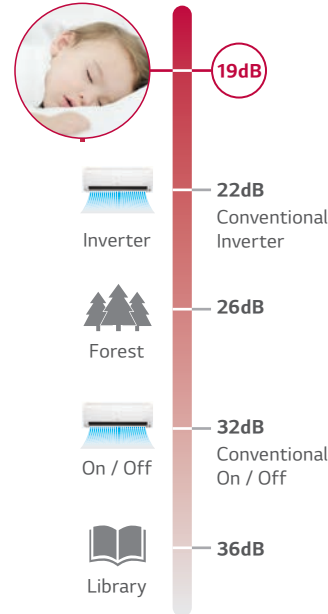
AC Motor

- Low efficiency.
- Heat problem during overhauling.
- Difficult precise speed control.

BLDC Motor

- Low electric and mechanical noise.
- Precise speed control durable.

Benefit



Silent Mode

Silent mode ensures a tranquil and serene experience for the user by reducing noise disturbances while you are resting.

※ Specifications may vary for each model.

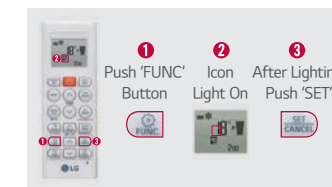
※ Depending on the experimental conditions.

※ When connected to Multi Outdoor unit, Silent Mode is working by simply setting the dip switch on the PCB of the outdoor unit.

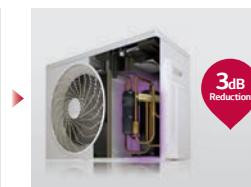
How It Works

In Silent Mode, the overall sound level of the outdoor unit drops by up to 3dB and the sound level of the indoor unit also decreases.

Press the Silent Button

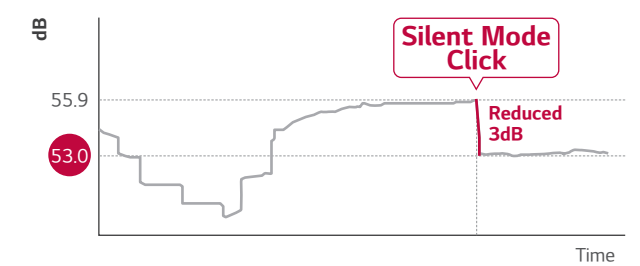


Controls the Outdoor Compressor



Test Result

Noise Comparison Graph



※ Test Conditions

Spec : Selecting Silent Mode reduces the noise of an outdoor fan unit by 3dB.
Assessment : 36.2 dB emitted from center/side of unit at a distance of 1m.

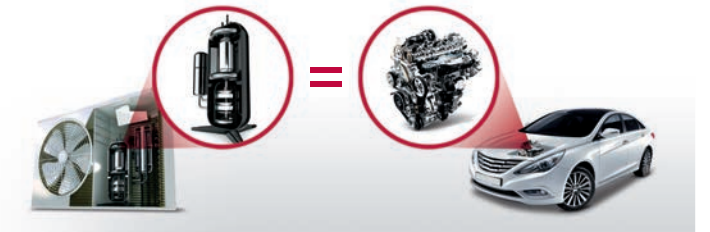
10-Year Inverter Compressor Warranty

With confidence in product quality and a desire to enhance the lives of customers, LG provides a 10-year warranty on the Residential Air Conditioners' Inverter Compressor.

※ Specifications may vary for each model.

What is the 10 Year Warranty?

With the 10-year warranty on the compressor, users can be assured of the functionality of our product for a longer period of 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.

Verification

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



Single Rotary Type Twin Rotary Type

※ 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.

**DUAL
INVERTER
COMPRESSOR** | **10
YEAR
WARRANTY**

Quick & Easy Installation

LG air conditioner is designed for an easy and efficient installation, making it possible to install several units in a short period of time.

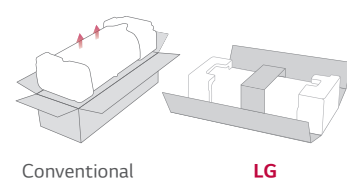
※ Specifications may vary for each model.

Concept

By reducing the manpower and time required for installation, it is now possible to install more units in less time.

How It Works

One Simple Packing Box



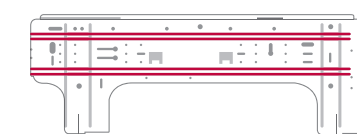
Wider Tubing Space

The space provided for tubing facilitates the whole installation process and hides the unorganized parts, making it appear clean and tidy.



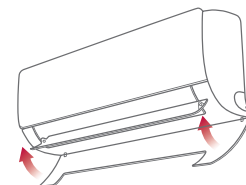
Installation Plate Improvement

LG's installation plate is larger and customized to reduce installation time.



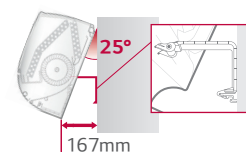
Detachable Bottom Cover

The air conditioner's bottom cover is detachable for easier installation and access.



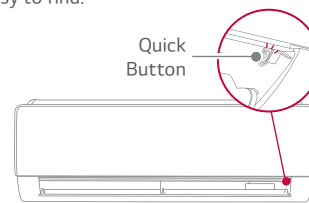
Installation Support Clip

A support clip creates adequate space between the wall and the unit for easier installation.



Quick button for running test

The test button is conveniently located and easy to find.



Gold Fin™

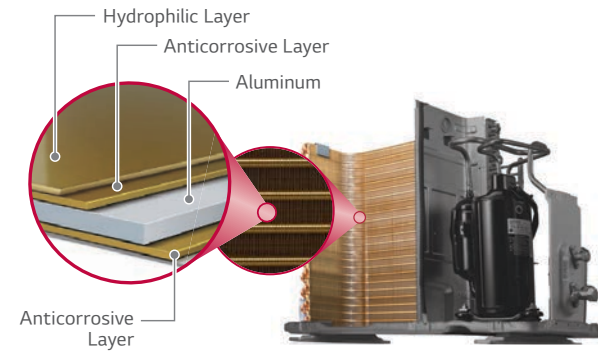
The Gold Fin™ coating protects the surface of the heat exchanger from unnecessary wear and corrosion.

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

How It Works

Corrosion-resistant protective layer

The gold-colored special coating on the fin of the heat exchanger prevents corrosion, extending the life of the unit.



Test Result

Conventional Fin



Gold Fin™



* Test result 360 hrs. after being exposed to sodium chloride.

Fast Cooling

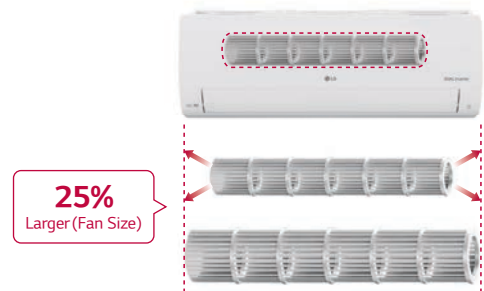
The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

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

Pain Point

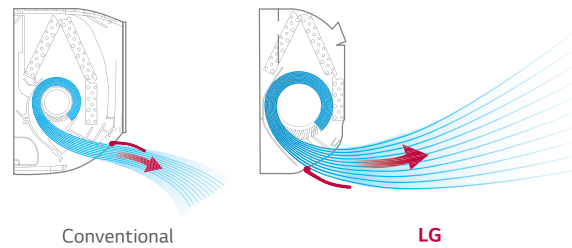
Bigger Skew Fan

A 25% larger skew fan emanates highly powerful blasts of air.



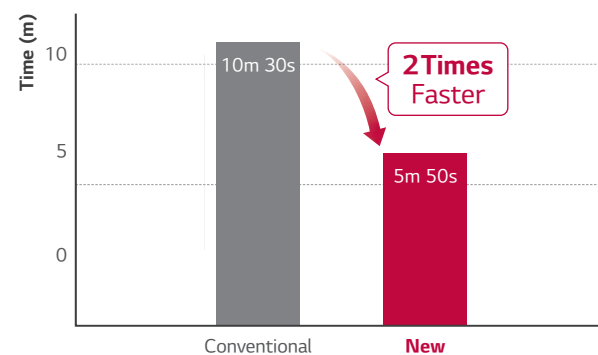
Cooling Outlet

A larger, optimally designed cooling outlet emanates to large areas and cools spaces faster.



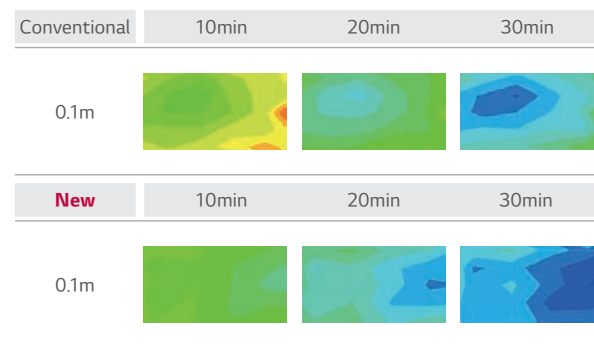
Test Result

Test Result



※ Test Conditions :
Indoor temperature 33°C, Outdoor temperature 35°C,
Relative humidity 60%, Setting temperature 26°C
Test room size : 4.3 m * 7.0 m * 2.3 m

Changes in Temperature Over 30 Minutes



※ Test Conditions :
Outdoor temperature : 35°C, Indoor temperature : 33°C,
Humidity : 60%, Remote control : 26°C High
Test room size : 4.3 m * 7.0 m * 2.3 m

Jet Cool

The cool airflow reaches all the corners of the room, keeping the space cool and comfortable.

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

How It Works

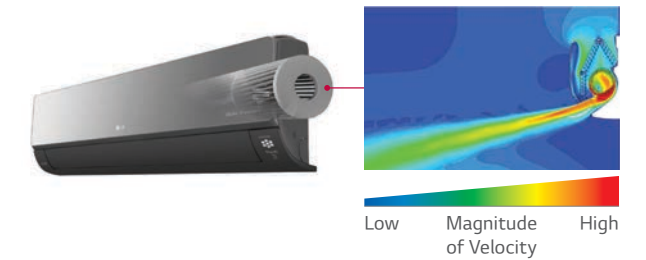
One Click "Jet Mode"

Reduces the temperature of outflowing air to 18°C for 30 minutes with just one click.



More Powerful Performance

By reducing the second vortex, which decreases airflow within the air outlet, and enlarging the fan size, the amount of airflow is increased to 13.0 CMM.



Fast Heating

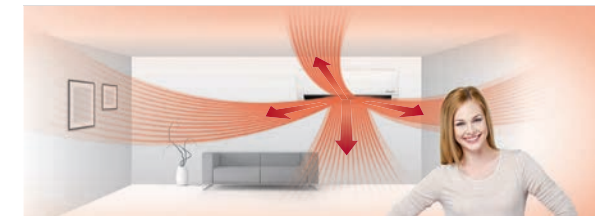
LG Residential Air Conditioners satisfy your heating needs while consuming less energy, by heating a wider space in a shorter period of time to create a warm and comfortable living environment.

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

How It Works

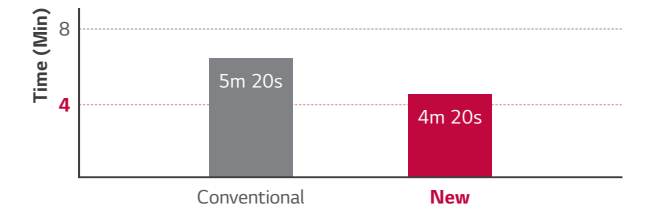
4 Way Auto Swing (Easy Airflow Control)

4 Way Auto Swing adjusts airflow based on the surrounding environment, allowing for optimal distribution of warm air to living areas and enabling quick heating.



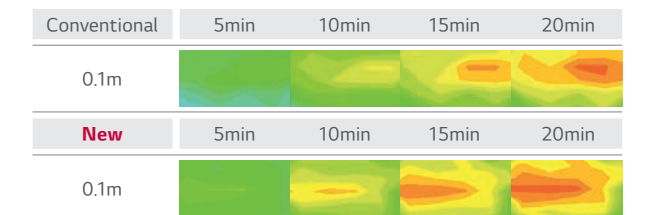
Benefit & Test Result

22% Quick Heating



※ Test Conditions :
Outdoor temperature : 7°C, Indoor temperature : 12°C,
Humidity : 87%, Remote control : 30°C Power

Changes in Temperature Over 20 Minutes



※ Test Conditions :
Outdoor temperature : 7°C, Indoor temperature : 12°C,
Humidity : 87%, Remote control : 30°C Power

Vertical Airflow

When heating, the vane sends heated air downwards to maintain a pleasant and balanced room temperature.



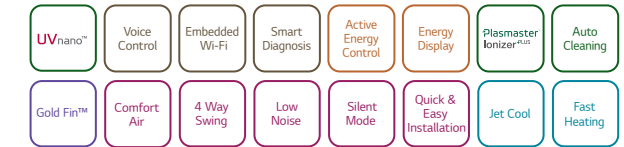


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				A09FT NSF	A12FT NSF
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 / 5.10
Power Input	Heating -7°C	Rated	kW	3.20	3.50
	Cooling / Heating	Rated	W	658 / 831	1,050 / 1,108
EER			W/W	3.80	3.33
S.E.E.R.				6.80	6.60
P design C			kW	2.50	3.50
COP			W/W	3.97	3.61
S.C.O.P		(Average / Warmer)		4.00 / 4.60	4.00 / 4.60
P design H (Average / Warmer)			kW	2.70 / 1.50	2.70 / 1.50
Energy Label (A+++ to D Scale)	Cooling		A++	A++	A++
Annual Energy Consumption	Heating	(Average / Warmer)	kWh	129	186
	Cooling	(Average / Warmer)	kWh	945 / 457	945 / 457
Sound Pressure	Cooling	S / L / M / H	dB(A)	27 / 35 / 39 / 45	27 / 35 / 39 / 45
	Heating	L / M / H	dB(A)	35 / 39 / 45	35 / 39 / 45
Sound Power	Cooling		dB(A)	60	60
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	6.0 / 7.6 / 9.0 / 10.0	6.0 / 7.6 / 9.0 / 10.0
	Heating	L / M / H	m³/min	6.1 / 7.8 / 9.3	6.1 / 7.8 / 9.3
Dehumidification Rate			l/h	1.1	1.3
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.20 / 6.00	1.10 / 4.90 / 6.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.10 / 7.00	1.10 / 5.10 / 7.00
Starting Current	Cooling / Heating	Rated	A	3.20 / 4.10	4.90 / 5.10
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
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	600 x 600 x 146	600 x 600 x 146
Net Weight			kg	14.4	14.4
Fan Motor Output			W	16.7	16.7
OUTDOOR				A09FT UL2	A12FT UL2
Operation Range	Cooling	Min. / Max.	°C DB	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	51 / 51	51 / 51
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
	Additional Charge		t-CO ₂ eq	0.540	0.540
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				43	43
Net Weight			kg	34.4	34.4
Dimension			mm	770 x 545 x 288	770 x 545 x 288
ACCESSORIES & OTHERS					
Multi Compatible				-	-
PI 485				Y	Y
Dry Contact				Y	Y
Wired Remote Controller				-	-

※ 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
 ※ Specification, design and feature are subject to change without prior notice.



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

Single Combination

UNIT				9K	12K	18K	24K
INDOOR				AC09BH NSJ	AC12BH NSJ	AC18BH NSK	AC24BH NSK
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42
	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
Power Input	Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00
	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER			W/W	3.81	3.24	3.20	3.25
S.E.E.R.				7.00	6.60	7.00	6.90
P design C			kW	2.50	3.50	5.00	6.60
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P		(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)			kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling		A++	A++	A++	A++	A++
Annual Energy Consumption	Heating	(Average / Warmer)	kWh	A+ / A++	A+ / A++	A+ / A+++	A+ / A+++
	Cooling	(Average / Warmer)	kWh	125	186	250	335
Sound Pressure	Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713
	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
Sound Power	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
	Cooling		dB(A)	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.1 / 16.1 / 18.3
	Heating	L / M / H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 192	837 x 308 x 192	998 x 345 x 212	998 x 345 x 212
Net Weight			kg	9.9	9.9	12.8	13.5
Fan Motor Output			W	30	30	30	58
OUTDOOR				AC09BH UA3	AC12BH UA3	AC18BH UL2	AC24BH U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate		High	m³/min	27	27	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation (ODU / IDU)	Min. / Max.	m	7	7	10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		kg	0.700	0.700	1.000	1.100
	Additional Charge		t-CO ₂ eq	0.473	0.473	0.675	0.743
	GWP		g/m	20	20	20	20
Fan Motor Output			W	675	675	675	675
Compressor Type				43	43	43	85
Net Weight			kg	26.0	26.0	35.2	46.4
Dimension			mm	717 X 495 X 230	717 X 495 X 230	770 X 545 X 288	870 X 650 X 330
ACCESSORIES & OTHERS							
Multi Compatible				Y	Y	Y	Y
PI 485				-	-	-	-
Dry Contact				Y	Y	Y	Y
Wired Remote Controller				Y	Y	Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

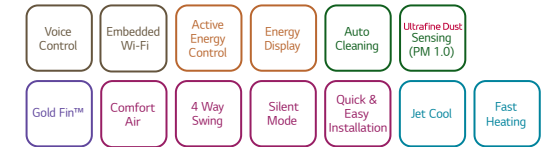


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				F09MT NSM	F12MT NSM
Capacity	Cooling	Min. / Rated / Max.	kW	0.90 / 2.50 / 4.00	0.90 / 3.50 / 4.25
	Heating	Min. / Rated / Max.	kW	0.90 / 3.20 / 6.90	0.90 / 4.00 / 7.32
	Heating -7°C	Rated	kW	4.30	4.70
Power Input	Cooling / Heating	Rated	W	490 / 593	833 / 785
EER			W/W	5.10	4.20
S.E.E.R.				9.40	9.10
P design C			kW	2.50	3.50
COP			W/W	5.40	5.10
S.C.O.P		(Average / Warmer)		5.10 / 6.60	5.10 / 6.60
P design H (Average / Warmer)			kW	3.70 / 2.05	3.80 / 2.05
Energy Label (A+++ to D Scale)	Cooling			A+++	A+++
	Heating	(Average / Warmer)		A+++ / A+++	A+++ / A+++
Annual Energy Consumption	Cooling		kWh	93	135
	Heating	(Average / Warmer)	kWh	1,016 / -	1,043 / -
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 40	19/27/35/40
	Heating	L / M / H	dB(A)	27 / 35 / 40	27 / 35 / 40
Sound Power	Cooling		dB(A)	60	60
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	6.6 / 8.7 / 11.1 / 12.4 / 15.5	6.6 / 8.7 / 11.1 / 12.4 / 15.5
	Heating	L / M / H	m ³ /min	8.7 / 11.1 / 14.3	8.7 / 11.1 / 14.3
Dehumidification Rate			l/h	1.7	1.7
Running Current	Cooling	Min. / Rated / Max.	A	1.00 / 3.80 / 8.10	1.00 / 6.10 / 8.10
	Heating	Min. / Rated / Max.	A	1.00 / 4.60 / 8.80	1.00 / 5.80 / 8.80
Starting Current	Cooling / Heating	Rated	A	3.80 / 4.60	6.10 / 5.80
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	857 x 295 x 235	857 x 295 x 235
Net Weight			kg	11.0	11.0
Fan Motor Output			W	30	30
OUTDOOR				F09MT U24	F12MT U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-25 / 24	-25 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m ³ /min	49	49
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	1.000	1.000
	Additional Charge		t-CO ₂ eq	0.675	0.675
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				85	85
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	43.0	43.0
Dimension			mm	870 x 650 x 330	870 x 650 x 330
ACCESSORIES & OTHERS					
Multi Compatible				Y	Y
PI 485				-	-
Dry Contact				Y	Y
Wired Remote Controller				Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

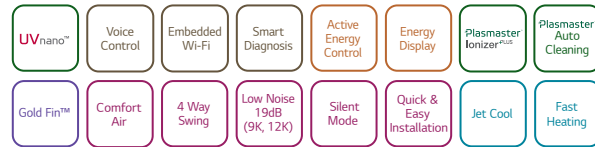


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				AP09RT NSJ	AP12RT NSJ
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.00
	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 4.70
	Heating -7°C	Rated	kW	2.60	3.00
Power Input	Cooling / Heating	Rated	W	710 / 850	1,160 / 1,130
EER			W/W	3.52	3.02
S.E.E.R.				6.60	6.20
P design C			kW	2.50	3.50
COP			W/W	3.88	3.54
S.C.O.P		(Average / Warmer)		4.0 / 5.0	4.0 / 5.0
P design H (Average / Warmer)			kW	2.5 / 1.4	2.5 / 1.4
Energy Label (A+++ to D Scale)	Cooling			A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++
Annual Energy Consumption	Cooling		kWh	133	198
	Heating	(Average / Warmer)	kWh	875 / 393	875 / 393
Sound Pressure	Cooling	S / L / M / H	dB(A)	21 / 27 / 35 / 42	21 / 27 / 35 / 42
	Heating	L / M / H	dB(A)	30 / 35 / 41	30 / 35 / 41
Sound Power	Cooling		dB(A)	59	59
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	3.0 / 4.2 / 6.6 / 10.0 / 11.0	3.0 / 4.2 / 6.6 / 10.0 / 11.0
	Heating	L / M / H	m ³ /min	4.2 / 6.6 / 10.0	4.2 / 6.6 / 10.0
Dehumidification Rate			l/h	1.10	1.30
Running Current	Cooling	Min. / Rated / Max.	A	1.1 / 3.5 / 6.0	1.1 / 5.2 / 6.2
	Heating	Min. / Rated / Max.	A	1.1 / 4.0 / 7.0	1.1 / 5.1 / 7.0
Starting Current	Cooling / Heating	Rated	A	3.50 / 4.00	5.20 / 5.10
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	857 x 348 x 189	857 x 348 x 189
Net Weight			kg	9.5	9.5
Fan Motor Output			W	30	30
OUTDOOR				AP09RT UA3	AP12RT UA3
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m ³ /min	27	27
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15
	Elevation (ODU / IDU)	Min. / Max.	m	7	7
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	0.700	0.700
	Additional Charge		t-CO ₂ eq	0.473	0.473
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				43	43
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	26	26
Dimension			mm	717 x 495 x 230	717 x 495 x 230
ACCESSORIES & OTHERS					
Multi Compatible				Y	Y
PI 485				-	-
Dry Contact				Y	Y
Wired Remote Controller				Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

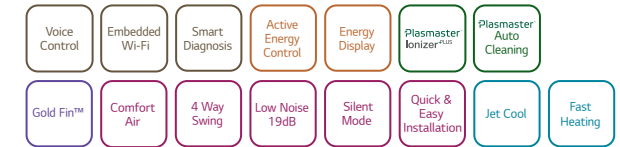


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K	18K	24K
INDOOR				DC09RH NSJ	DC12RH NSJ	DC18RH NSK	DC24RH NSK
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42
	Heating	Min. / Rated / Max.	kW	0.89 / 3.20 / 5.00	0.89 / 4.00 / 6.00	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
	Heating -7°C	Rated	kW	3.20	3.50	4.20	6.00
Power Input	Cooling / Heating	Rated	W	572 / 711	933 / 976	1,562 / 1,611	2,164 / 2,238
EER			W/W	4.37	3.75	3.20	3.05
S.E.E.R.				7.90	7.60	7.00	6.90
P design C			kW	2.50	3.50	5.00	6.60
COP			W/W	4.50	4.10	3.60	3.35
S.C.O.P		(Average / Warmer)		4.60 / 5.40	4.60 / 5.40	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)			kW	2.80 / 1.50	2.90 / 1.50	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling			A++	A++	A++	A++
	Heating	(Average / Warmer)		A++ / A++	A++ / A++	A+ / A+++	A+ / A+++
Annual Energy Consumption	Cooling		kWh	111	161	250	335
	Heating	(Average / Warmer)	kWh	852 / 389	883 / 389	1,270 / 555	1,628 / 713
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 37 / 42	19 / 27 / 37 / 42	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dB(A)	27 / 37 / 42	27 / 37 / 42	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling		dB(A)	60	60	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	3.5 / 5.5 / 9.0 / 11.0 / 13.0	3.5 / 5.5 / 9.0 / 11.0 / 13.0	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.1 / 16.1 / 18.3
	Heating	L / M / H	m ³ /min	6.5 / 9.0 / 11.0	6.5 / 9.0 / 11.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.00 / 2.50 / 6.00	1.00 / 4.00 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
	Heating	Min. / Rated / Max.	A	1.00 / 3.20 / 7.00	1.00 / 4.30 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.40 / 14.00
Starting Current	Cooling / Heating	Rated	A	2.50 / 3.20	4.00 / 4.30	6.90 / 7.10	9.80 / 10.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Net Weight			kg	9.1	9.1	11.9	12.7
Fan Motor Output			W	30	30	30	58
OUTDOOR				DC09RH UL2	DC12RH UL2	DC18RH UL2	DC24RH U24
Operation Range	Cooling	Min. / Max.	°C DB	-15 / 48	-15 / 48	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-15 / 24	-15 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	49 / 51	49 / 51	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate		High	m ³ /min	35	35	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 20	3 / 20	3 / 20	3 / 30
	Elevation (ODU / IDU)	Min. / Max.	m	10	10	10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		kg	0.800	0.800	1.000	1.100
	Additional Charge		t-CO ₂ eq	0.540	0.540	0.675	0.743
	GWP		g/m	20	20	20	20
Fan Motor Output			W	43	43	43	85
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	34.1	34.1	34.4	46.0
Dimension			mm	770 x 545 x 288	770 x 545 x 288	770 x 545 x 288	870 x 650 x 330
ACCESSORIES & OTHERS							
Multi Compatible				Y	Y	Y	Y
PI 485				Y	Y	Y	Y
Dry Contact				Y	Y	Y	Y
Wired Remote Controller				Y	Y	Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

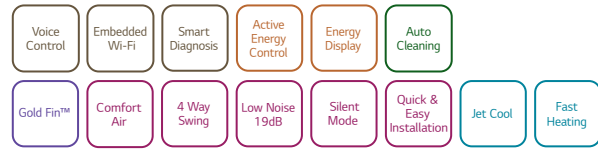


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				DC09RT NSJ	DC12RT NSJ
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 / 5.10
	Heating -7°C	Rated	kW	2.60	3.00
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050
EER			W/W	3.81	3.24
S.E.E.R.				7.00	6.60
P design C			kW	2.50	3.50
COP			W/W	4.13	3.81
S.C.O.P		(Average / Warmer)		4.00 / 4.90	4.00 / 4.90
P design H (Average / Warmer)			kW	2.50 / 1.30	2.50 / 1.30
Energy Label (A+++ to D Scale)	Cooling			A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++
Annual Energy Consumption	Cooling		kWh	125	186
	Heating	(Average / Warmer)	kWh	875 / 371	875 / 371
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41
	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41
Sound Power	Cooling		dB(A)	59	59
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5
	Heating	L / M / H	m ³ /min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0
Dehumidification Rate			l/h	1.1	1.3
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 189	837 x 308 x 189
Net Weight			kg	9.1	9.1
Fan Motor Output			W	30	30
OUTDOOR				DC09RT UA3	DC12RT UA3
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m ³ /min	27	27
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15
	Elevation (ODU / IDU)	Min. / Max.	m	7	7
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	0.700	0.700
	Additional Charge		t-CO ₂ eq	0.473	0.473
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				43	43
Net Weight			kg	25.1	25.1
Dimension			mm	717 x 495 x 230	717 x 495 x 230
ACCESSORIES & OTHERS					
Multi Compatible				Y	Y
PI 485				Y	Y
Dry Contact				Y	Y
Wired Remote Controller				Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.



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

Single Combination

UNIT				9K	12K	18K	24K
INDOOR				PC09SQ NSJ	PC12SQ NSJ	PC18SQ NSK	PC24SQ NSK
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42
	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
	Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.00	6.60	7.00	6.90
P design C			kW	2.50	3.50	5.00	6.60
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P		(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)			kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling			A++	A++	A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++	A+ / A+++	A+ / A+++
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling		dB(A)	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.1 / 16.1 / 18.3
	Heating	L / M / H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Net Weight			kg	8.7	8.7	11.9	12.7
Fan Motor Output			W	30	30	30	58
OUTDOOR				PC09SQ UA3	PC12SQ UA3	PC18SQ UL2	PC24SQ U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate		High	m³/min	27	27	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation (ODU / IDU)	Min. / Max.	m	7	7	10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type		kg	R32	R32	R32	R32
	Charge at 7.5m		t-CO ₂ eq	0.700	0.700	1.000	1.100
	Additional Charge		g/m	0.473	0.473	0.675	0.743
	GWP			20	20	20	20
Fan Motor Output			W	675	675	675	675
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	43	43	43	85
Dimension			mm	717 x 495 x 230	717 x 495 x 230	770 x 545 x 288	870 x 650 x 330
ACCESSORIES & OTHERS							
Multi Compatible				Y	Y	Y	Y
PI 485				-	-	-	-
Dry Contact				Y	Y	Y	Y
Wired Remote Controller				Y	Y	Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.



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

Single Combination

UNIT				9K	12K	18K	24K
INDOOR				S09ET NSJ	S12ET NSJ	S18ET NSK	S24ET NSK
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42
	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
	Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00
Power Input	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.00	6.60	7.00	6.90
P design C			kW	2.50	3.50	5.00	6.60
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P		(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)			kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling			A++	A++	A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++	A+ / A+++	A+ / A+++
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling		dB(A)	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m³/min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.1 / 16.1 / 18.3
	Heating	L / M / H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Net Weight			kg	8.7	8.7	11.9	12.7
Fan Motor Output			W	30	30	30	58
OUTDOOR				S09ET UA3	S12ET UA3	S18ET UL2	S24ET U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate		High	m³/min	27	27	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation (ODU / IDU)	Min. / Max.	m	7	7	10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type		kg	R32	R32	R32	R32
	Charge at 7.5m		t-CO ₂ eq	0.700	0.700	1.000	1.100
	Additional Charge		g/m	0.473	0.473	0.675	0.743
	GWP			20	20	20	20
Fan Motor Output			W	675	675	675	675
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	43	43	43	85
Dimension			mm	717 x 495 x 230	717 x 495 x 230	770 x 545 x 288	870 x 650 x 330
ACCESSORIES & OTHERS							
Multi Compatible				Y	Y	Y	Y
PI 485				-	-	-	-
Dry Contact				Y	Y	Y	Y
Wired Remote Controller				Y	Y	Y	Y

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

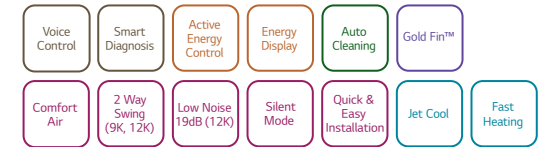


LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K	18K	24K
INDOOR				S09EQ NSJ	S12EQ NSJ	S18EQ NSK	S24EQ NSK
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.70	0.89 / 3.50 / 4.04	0.90 / 5.00 / 5.50	0.90 / 6.60 / 7.42
	Heating	Min. / Rated / Max.	kW	0.89 / 3.30 / 4.10	0.89 / 4.00 / 5.10	0.90 / 5.80 / 6.40	0.90 / 7.50 / 8.64
Power Input	Heating -7°C	Rated	kW	2.60	3.00	4.20	6.00
	Cooling / Heating	Rated	W	656 / 800	1,080 / 1,050	1,562 / 1,611	2,164 / 2,238
EER			W/W	3.81	3.24	3.20	3.05
S.E.E.R.				7.00	6.60	7.00	6.90
P design C			kW	2.50	3.50	5.00	6.60
COP			W/W	4.13	3.81	3.60	3.35
S.C.O.P		(Average / Warmer)		4.00 / 4.90	4.00 / 4.90	4.30 / 5.30	4.30 / 5.30
P design H (Average / Warmer)			kW	2.50 / 1.30	2.50 / 1.30	3.90 / 2.10	5.00 / 2.70
Energy Label (A+++ to D Scale)	Cooling			A++	A++	A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++	A+ / A+++	A+ / A+++
Annual Energy Consumption	Cooling		kWh	125	186	250	335
	Heating	(Average / Warmer)	kWh	875 / 371	875 / 371	1,270 / 555	1,628 / 713
Sound Pressure	Cooling	S / L / M / H	dB(A)	19 / 27 / 35 / 41	19 / 27 / 35 / 41	31 / 34 / 39 / 44	31 / 34 / 42 / 47
	Heating	L / M / H	dB(A)	27 / 35 / 41	27 / 35 / 41	34 / 39 / 44	34 / 42 / 47
Sound Power	Cooling		dB(A)	59	59	60	65
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	3.0 / 4.2 / 7.5 / 10.0 / 12.5	3.0 / 4.2 / 7.5 / 10.0 / 12.5	8.0 / 10.5 / 13.0 / 14.5 / 15.5	8.0 / 10.5 / 13.1 / 16.1 / 18.3
	Heating	L / M / H	m ³ /min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 14.3 / 17.6
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Min. / Rated / Max.	A	1.10 / 3.30 / 6.00	1.10 / 4.70 / 6.00	1.20 / 6.90 / 9.00	1.20 / 9.80 / 14.00
	Heating	Min. / Rated / Max.	A	1.10 / 4.00 / 7.00	1.10 / 4.70 / 7.00	1.20 / 7.10 / 9.50	1.20 / 10.00 / 14.00
Starting Current	Cooling / Heating	Rated	A	3.30 / 4.00	4.70 / 4.70	6.90 / 7.10	9.80 / 10.00
Power Supply			Ø / V / Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0	3 x 1.5	3 x 2.5
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	837 x 308 x 189	837 x 308 x 189	998 x 345 x 210	998 x 345 x 210
Net Weight			kg	8.7	8.7	11.9	12.7
Fan Motor Output			W	30	30	30	58
OUTDOOR				S09EQ UA3	S12EQ UA3	S18EQ UL2	S24EQ U24
Operation Range	Cooling	Min. / Max.	°C DB	-10 / 48	-10 / 48	-15 / 48	-15 / 48
	Heating	Min. / Max.	°C DB	-10 / 24	-10 / 24	-10 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50	53 / 55	54 / 57
Sound Power	Cooling	High	dB(A)	65	65	65	70
Air Flow Rate		High	m ³ /min	27	27	35	49
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15	3 / 20	3 / 30
	Elevation (ODU / IDU)	Min. / Max.	m	7	7	10	15
Piping Connection	Liquid	OD (Outside)	mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	OD (Outside)	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Drain Hose Size		OD (Outside)	mm (inch)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)	21.5 (27/32)
Refrigerant	Type			R32	R32	R32	R32
	Charge at 7.5m		kg	0.700	0.700	1.000	1.100
	Additional Charge		t-CO ₂ eq	0.473	0.473	0.675	0.743
	GWP		g/m	20	20	20	20
Fan Motor Output			W	675	675	675	675
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	25.1	25.1	34.4	46.0
Dimension			mm	717 x 495 x 230	717 x 495 x 230	770 x 545 x 288	870 x 650 x 330
ACCESSORIES & OTHERS							
Multi Compatible				-	-	-	-
PI 485				-	-	-	-
Dry Contact				-	-	-	-
Wired Remote Controller				-	-	-	-

※ 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
 ※ Specification, design and feature are subject to change without prior notice.



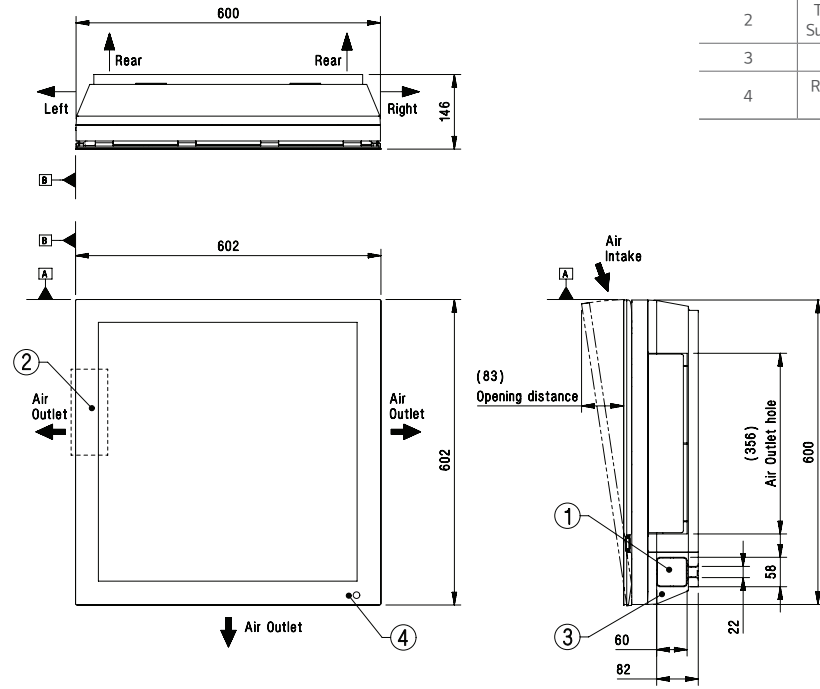
LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

Single Combination

UNIT				9K	12K
INDOOR				S09EH NSA	S12EW NSJ
Capacity	Cooling	Min. / Rated / Max.	kW	0.89 / 2.50 / 3.25	0.89 / 3.5 / 4.04
	Heating	Min. / Rated / Max.	kW	0.89 / 3.20 / 3.85	0.89 / 4.0 / 5.1
Power Input	Heating -7°C	Rated	kW	2.6	3.0
	Cooling / Heating	Rated	W	715 / 860	1080 / 1050
EER			W/W	3.24	3.24
S.E.E.R.				6.50	6.6
P design C			kW	2.5	3.5
COP			W/W	3.72	3.81
S.C.O.P		(Average / Warmer)		4.0 / 4.8	4.0 / 4.9
P design H (Average / Warmer)			kW	2.3 / 1.3	2.5 / 1.3
Energy Label (A+++ to D Scale)	Cooling			A++	A++
	Heating	(Average / Warmer)		A+ / A++	A+ / A++
Annual Energy Consumption	Cooling		kWh	135	186
	Heating	(Average / Warmer)	kWh	805 / 379	875 / 371
Sound Pressure	Cooling	S / L / M / H	dB(A)	22 / 28 / 36 / 42	19 / 27 / 35 / 41
	Heating	L / M / H	dB(A)	31 / 36 / 42	27 / 35 / 41
Sound Power	Cooling		dB(A)	60	59
Air Flow Rate	Cooling	S / L / M / H / Max. (Power)	m ³ /min	2.0 / 5.7 / 8.0 / 9.5	3.0 / 4.2 / 7.5 / 10.0
	Heating	L / M / H	m ³ /min	4.0 / 5.5 / 8.5	5.6 / 7.2 / 10.0
Dehumidification Rate			l/h	1.10	1.30
Running Current	Cooling	Min. / Rated / Max.	A	1.1 / 3.3 / 6.0	1.1 / 4.7 / 6.0
	Heating	Min. / Rated / Max.	A	1.1 / 4.0 / 7.0	1.1 / 4.7 / 7.0
Starting Current	Cooling / Heating	Rated	A	3.3 / 4.0	4.7 / 4.7
Power Supply			Ø / V / Hz	1/220-240/50	1/220-240/50
Circuit Breaker			A	15	15
Power Supply Cable			N x mm ²	3 x 1.0	3 x 1.0
Power & Transmission Cable			N x mm ²	4 x 1.0 (Including Earth)	4 x 1.0 (Including Earth)
Dimension			mm	754 x 308 x 189	837 x 308 x 189
Net Weight			kg	7.8	8.7
Fan Motor Output			W	30	30
OUTDOOR				S09EH UA3	S12EW UA3
Operation Range	Cooling	Min. / Max.	°C DB	18 / 48	-10 / 48
	Heating	Min. / Max.	°C DB	-5 / 24	-10 / 24
Sound Pressure	Cooling / Heating	High	dB(A)	48 / 50	48 / 50
Sound Power	Cooling	High	dB(A)	65	65
Air Flow Rate		High	m ³ /min	27	27
Piping	Liquid (ODU / IDU)	Min. / Max.	m	3 / 15	3 / 15
	Elevation (ODU / IDU)	Min. / Max.	m	7	7
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	0.670	0.700
	Additional Charge		t-CO ₂ eq	0.452	0.473
	GWP		g/m	20	20
Fan Motor Output			W	675	675
Compressor Type				Inverter Twin Rotary	Inverter Twin Rotary
Net Weight			kg	26	26
Dimension			mm	717 x 495 x 230	717 x 495 x 230
ACCESSORIES & OTHERS					
Multi Compatible				-	-
PI 485				-	-
Dry Contact				-	-
Wired Remote Controller				-	-

※ 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
 ※ Specification, design and feature are subject to change without prior notice.

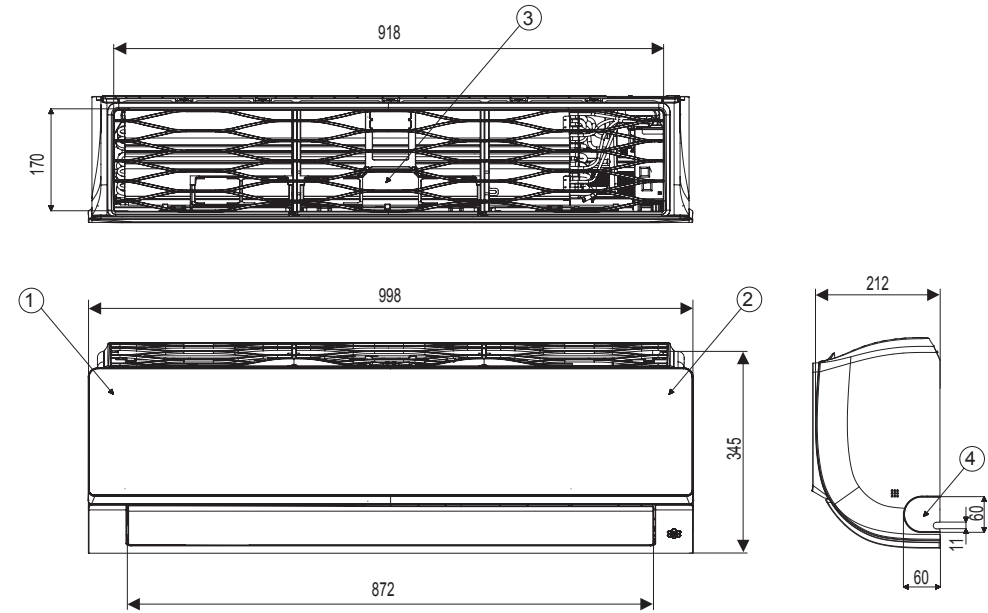
A09FT NSF / A12FT NSF



(Unit : mm)

ITEM NO.	PART NAME	REMARK
1	Refrigerant/Drain pipe and cable routing hole	Knock-out type
2	Terminal Block for Power Supply and Communication	Inside of front panel
3	Corner Cover	-
4	Remote Controller Signal Receiver	for wireless type

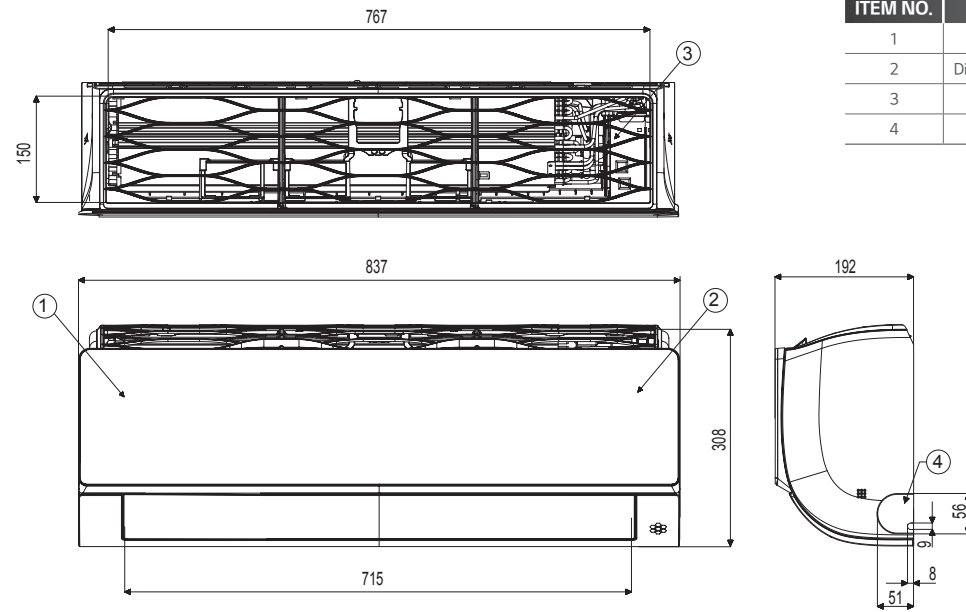
AC18BH NSK / AC24BH NSK



(Unit : mm)

ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Filter	
4	Installation Plate	

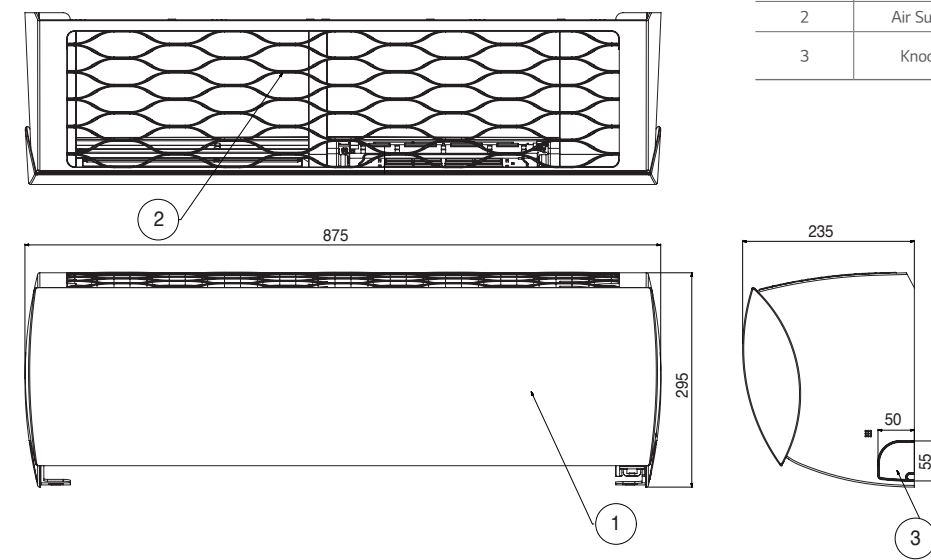
AC09BH NSJ / AC12BH NSJ



(Unit : mm)

ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	
3	Air Filter	
4	Knockout hole	For pipe and cable

F09MT NSM / F12MT NSM



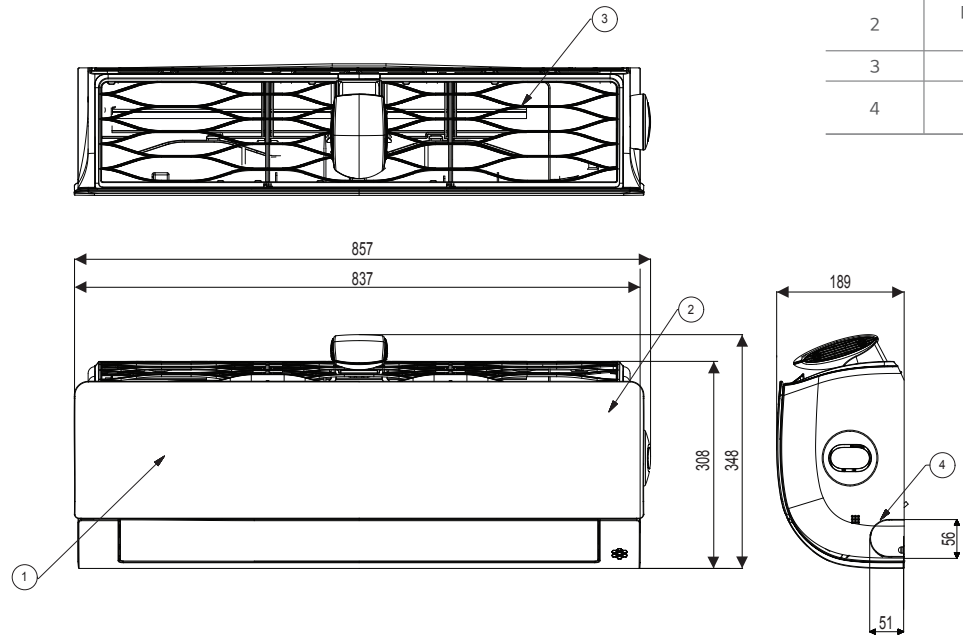
(Unit : mm)

ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Air Suction Grille	
3	Knockout Hole	For pipe and cable

AP09RT NSJ / AP12RT NSJ

(Unit : mm)

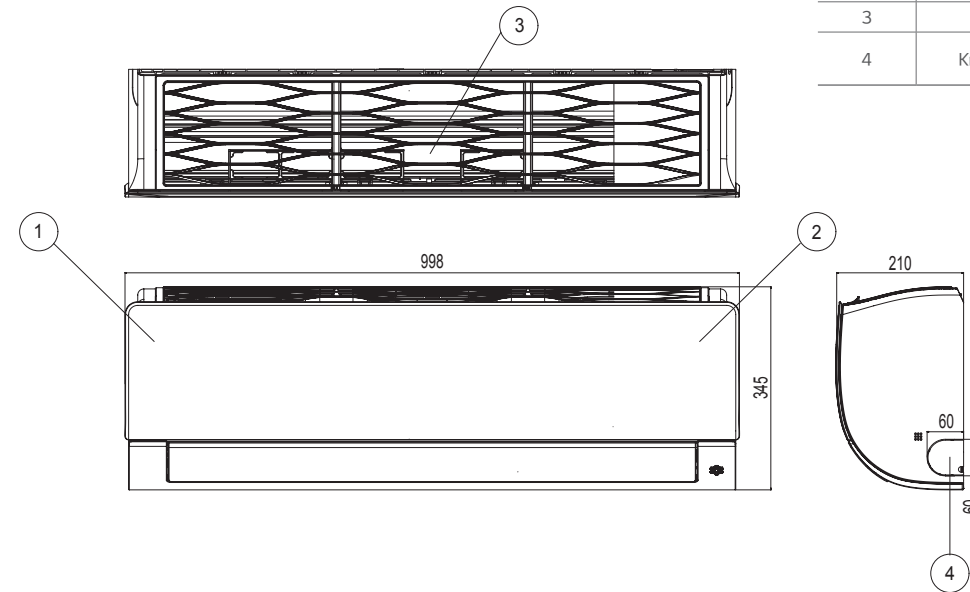
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable



DC18RH NSK / DC24RH NSK / PC18SQ NSK / PC24SQ NSK
S18EQ NSK / S24EQ NSK / S18ET NSK / S24ET NSK

(Unit : mm)

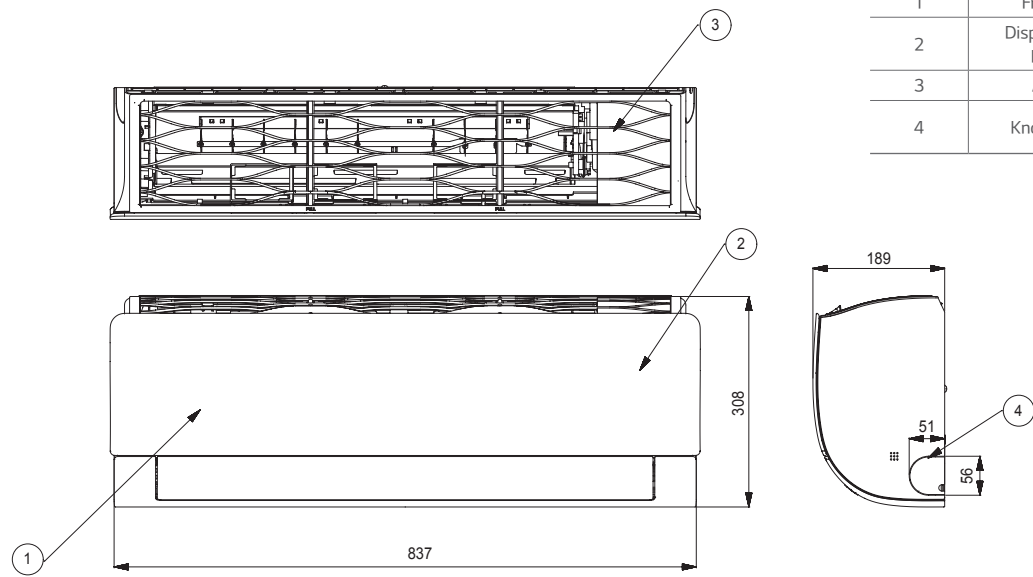
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable



DC09RH NSJ / DC12RH NSJ / DC09RT NSJ / DC12RT NSJ / PC09SQ NSJ
PC12SQ NSJ / S09EQ NSJ / S12EQ NSJ / S09ET NSJ / S12ET NSJ / S12EW NSJ

(Unit : mm)

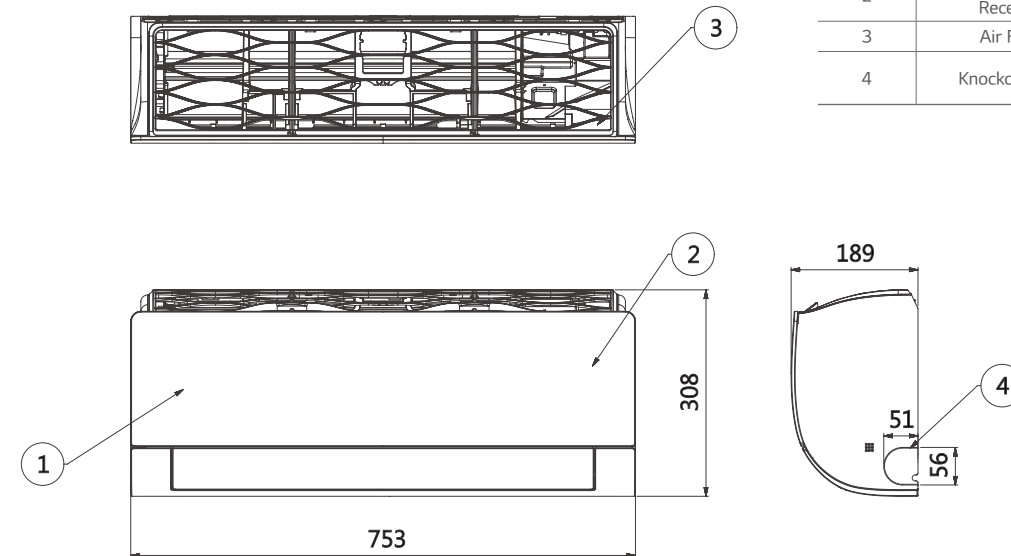
ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable



S09EH NSA

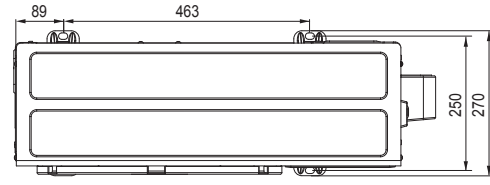
(Unit : mm)

ITEM NO.	PART NAME	REMARK
1	Front Panel	
2	Display & Signal Receiver	Hidden
3	Air Filter	
4	Knockout hole	For pipe and cable

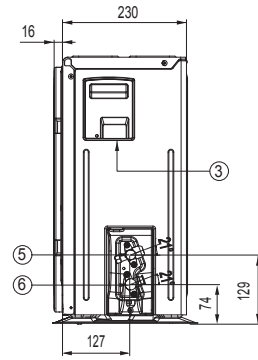
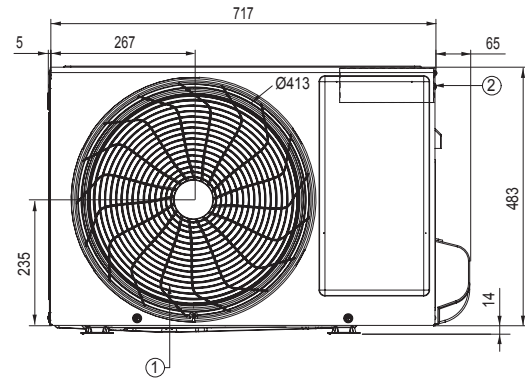


AC09BH UA3 / AC12BH UA3 / AC09SQ UA3 / AC12SQ UA3 / DC09RT UA3
 DC12RT UA3 / PC09SQ UA3 / PC12SQ UA3 / S09EQ UA3 / S12EQ UA3
 S09ET UA3 / S12ET UA3 / S12EW UA3 / AP09RT UA3 / AP12RT UA3 / S09EH UA3

(Unit: mm)

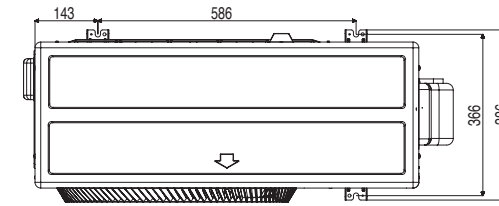


ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

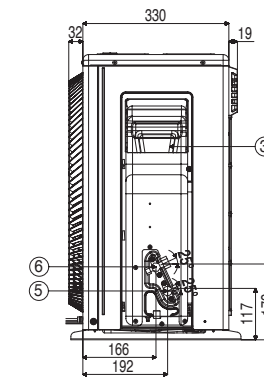
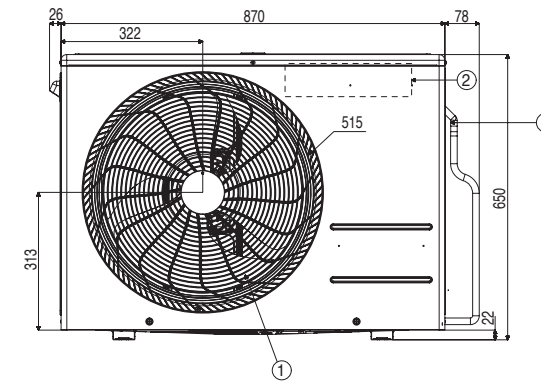


F09MT U24 / F12MT U24 / AC24BH U24 / DC24RH U24
 PC24SQ U24 / S24EQ U24 / S24ET U24

(Unit: mm)

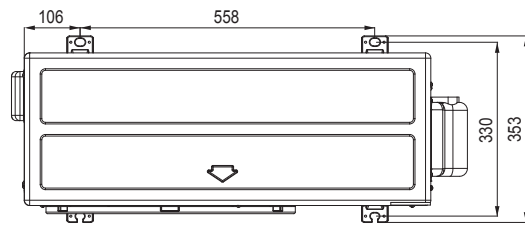


ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection

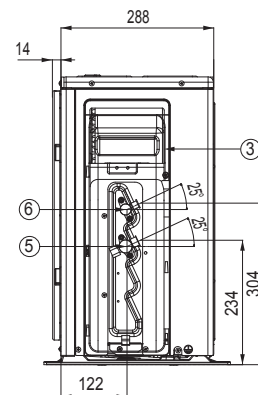
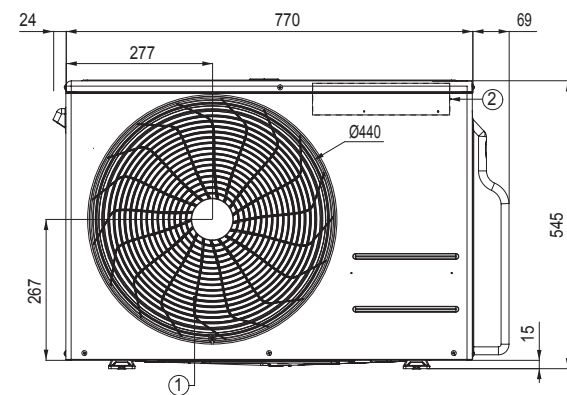


A09FT UL2 / A12FT UL2 / DC09RH UL2 / DC12RH UL2 / AC18BH UL2
 AC18SQ UL2 / DC18RH UL2 / PC18SQ UL2 / S18EQ UL2 / S18ET UL2

(Unit: mm)



ITEM NO.	PART NAME
1	Air Outlet
2	Control Box
3	Power and Communication Cable Hole
4	Service Valve Cover
5	Gas Pipe Connection
6	Liquid Pipe Connection



	ARTCOOL			DUALCOOL						
	Gallery	Mirror	Prestige	Air Purification	DELUXE	Deluxe2	Standard Plus	Standard2	Standard	Standard3
Wired Remote Controller	5k						Y			
	7k		Y				Y	Y		
	9k	-	Y	Y	Y	Y	Y	Y	-	-
	12k	-	Y	Y	Y	Y	Y	Y	-	-
	15k						Y			
	18k		Y			Y	Y	Y	-	
PI 485	5k						-			
	7k		-			Y*		-		
	9k	Y	-	-	-	Y*	Y*	-	-	-
	12k	Y	-	-	-	Y*	Y*	-	-	-
	15k									
	18k		-			Y*		-	-	-
Dry Contact	5k						Y			
	7k		Y			Y	Y	Y		
	9k	Y	Y	Y	Y	Y	Y	Y	-	-
	12k	Y	Y	Y	Y	Y	Y	Y	-	-
	15k						Y			
	18k		Y			Y	Y	Y	-	
24k		Y			Y	Y	Y	-		

* Y : Available
 * When connected to Multi 14k & 16k Outdoor units, this may not be supported.

Standard Wired Remote Controller



Model Name	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01
Operation Mode	On / Off, Fan Speed Control, Temperature Setting	
Mode Change	Cooling, Heating, Auto, Dehumidification, Fan	
Auto Swing / Vane Control	•	•
Reservation	Simple, Sleep, On / Off, Weekly, Holiday	
Time Display	•	•
Electrical Failure Compensation	•	•
Child Lock	•	•
Operation Status LED	•	•
Indoor Temperature Display	•	•
Wireless Remote Controller Receiver	-	•
Size (W x H x D, mm)	120 x 120 x 16	120 x 121 x 16
Backlight	•	•
Display AirQuality Status	-	-

※ Refer to each model PDB for applicable models.

PI 485



PMNFP14A1

Power : Single phase AC 220V 50/60Hz
 Max. no of the indoor units that can be connected : 64 UNITS
 Model applied : RAC / Multi / Single / Therma V
 ※ Refer to each product PDB for applicable models.

Dry Contact



※ Refer to each product PDB for applicable models.

Model	PDRYCB000	PDRYCB400	PDRYCB320	PDRYCB500
Contact Point	1 Control Point	2 Control Point	8 Control Point	Modbus RTU
Power Input	AC 220V from outside power source	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PCB	DC 5V & 12V from indoor unit PDB
Voltage / Non Voltage Input	-	•	•	-
On / Off Control	•	•	•	•
Lock / Unlock	•	•	•	-
Fan Speed Setting	-	-	•	•
Thermo Off	-	•	•	-
Energy Saving	-	•	-	-
Temperature Setting	-	•	•	•
Error Monitoring	•	•	•	•
Operation Monitoring	•	•	•	•

Remote Controller



Prestige
 Artcool
 Deluxe, Deluxe2,
 Standard Plus
 Standard, Standard2, Standard3

Button	Display Screen	Description
	-	To turn on / off the air conditioner.
	88°C	To adjust the desired room temperature in cooling, heating or auto changeover mode.
COMFORT AIR	-	To adjust the air flow to indirect wind.
LIGHT OFF	-	To set the brightness of the display on the indoor unit.
MODE		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
FAN SPEED		To select the auto changeover / auto operation mode.
		To adjust the fan speed.
ENERGY CTRL.	-	To bring the effect of the power saving.
JET MODE	Po	To change room temperature quickly.
		To adjust the air flow direction vertically or horizontally.
ROOM TEMP		To display the room temperature.
°C ↔ °F[5sec]	°C/°F	To change unit between °C and °F.
SET/ CANCEL	-	To set / cancel the functions and timer.
	-	To adjust time.
	-	To turn on / off air conditioner automatically.
	-	To cancel the timer settings.

※ Remote Controller specifications may vary for each model.
 ※ Remote Controller specification, design and feature are subject to change without prior notice.

PORTABLE AIR CONDITIONER



01 FAST COOLING

The Need for Speed

LG's Portable Air Conditioner reaches the optimal temperature more quickly than on-off compressors with variable speed operations.



* Testing by TUV shows LG inverter air conditioner (US-Q242K*) cools up to 40% more faster than LG non-inverter air conditioner (TS-H2465DA0).
* TUV report No. 50068748 001

Portable Comfort at Home

LG Portable Air Conditioner DUAL Inverter provides optimized high-speed airflow, which can cool rooms faster.

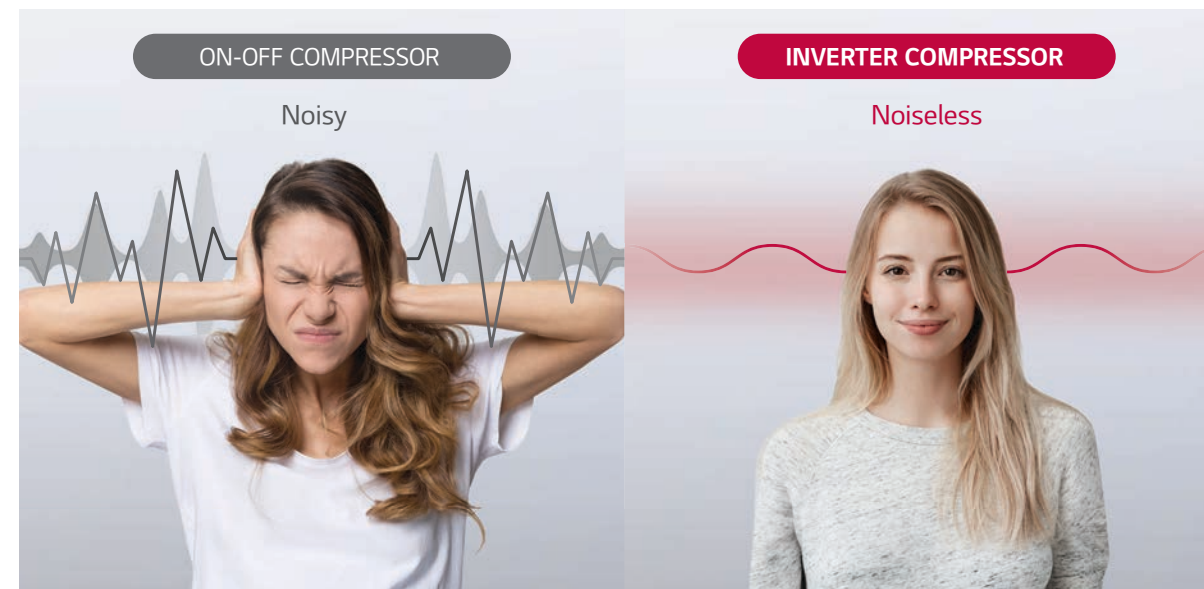


※ How it works : One Click "Jet Mode"

02 LOW NOISE

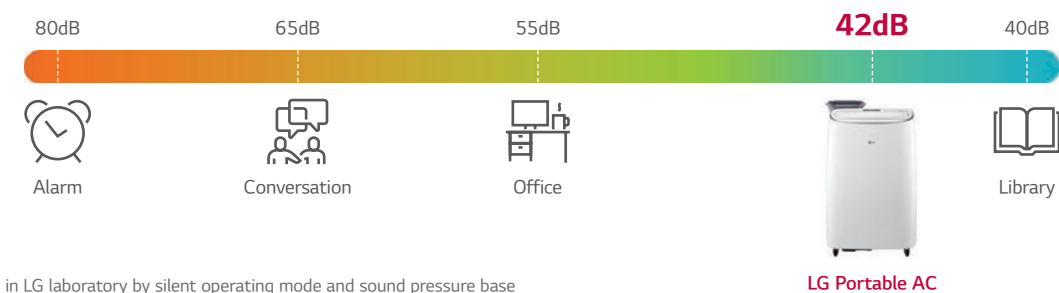
Peace and Quiet

The LG inverter compressor operates more quietly at 42dB for indoor tranquility.



*Lo-Decibel™

LG Portable Air Conditioner DUAL Inverter operates at low sound levels as low as 42dB*, thanks to LG's unique BLDC Motor and DUAL Inverter Compressor™



* Tested in LG laboratory by silent operating mode and sound pressure base
* Since this product has a compressor inside, it may cause mechanical noise during operation.

What is LG Inverter Technology?

LG Inverter Technology can be found in many of LG's renowned devices, from refrigerators and washing machines to our air conditioner line-up. This technology allows the inverter compressor to achieve superior energy efficiency, cooling performance and comfort compared to compressors with on-off capabilities.



03 CLEAN AIR

Say Goodbye to Odor

Auto-cleaning functions and two easily washable filters provide clean air

The auto cleaning function prevents potentially harmful substances from forming on the surface of the heat exchanger.

The indoor environment remains odorless with the advanced deodorizing function.

By preventing polluting of the heat exchanger caused by various germs and bacteria.

※ Drying conditions may vary depending on the environment of use.

Washable Filters

LG has filters in the upper and lower suction areas respectively. Without the bottom filter, dust can continue to enter the product, resulting in poor performance or drainage problems.

OTHER

Filter (Washable)

Lack of filter in suction area below

LG

2 washable filters

04 EASY STORAGE

Convenient Anytime, Anywhere Access

Easy storage of exhaust hose and window (sliding) sealing plate

INCONVENIENT

Separate exhaust hose from product (Cannot store as an all-in-one)

Inconvenient power cord storage

CONVENIENT

Ease-to-store power cord using an attached hook

Convenient storage of the exhaust hose and window sealing plate

Easy Installation

The installation kit and hose make it easy to install and store, saving you space. Smooth gliding caster wheels allow you to move it around the home and office.



05 CONVENIENT

No More Remote Control

Simple, time-saving voice control for easy access

OK Google, turn on the air conditioner.

Sure, turning on

- Voice command to AI Speaker
- AI Speaker changes user input from voice to text
- AI Speaker server recognizes user is invoking the Appliance skill, passing the user's intent to LG Server
- LG Server activates appliance

※ Smart features and voice assistant product may vary by country and model. Check with your local LG office or retailer for service availability

Smart Control

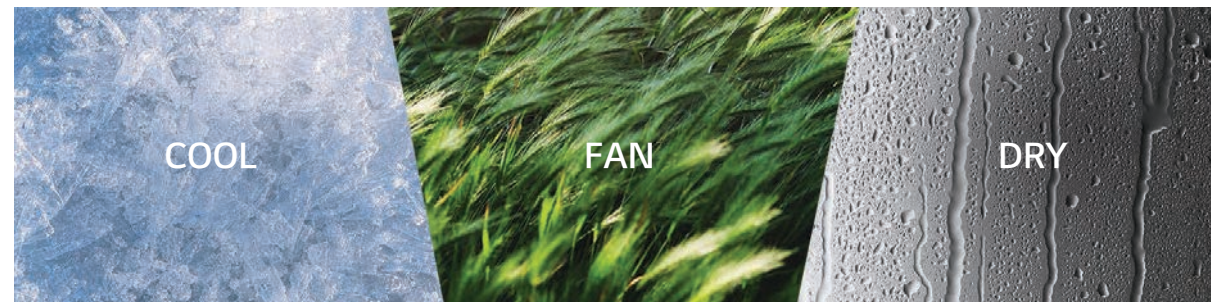
Control key features by using the ThinQ app on your smartphone and get important notifications from anywhere

LG ThinQ®

- Controlling & Monitoring
- Integrated Home Appliances Control
- Air Conditioner Control with Wi-Fi

3 in 1 Operation

The cool mode is ideal for powerful cooling and dehumidifying on hot days. In fan mode, the fan circulates air while the dry mode is ideal for rainy and damp days



MODEL	PA11WS			
Performance	Capacity	Min. / Rated / Max.	W	600 / 2,500 / 2,600
	Power Input	Rated / Max.	W	805 / 910
	EER		W/W	3.1
	Energy Label (A+++ to D Scale)			A+
	Sound Pressure	S / L / M / H / Max.	dB(A)	42 / 44 / 47 / 50 / 53
	Sound Power	Power	dB(A)	65
	Air Flow Rate	S / L / M / H	m ³ /min	3.8 / 4.2 / 5.0 / 6.6
		Max. (Power)	m ³ /min	7
	Dehumidification Rate		l/h	1.2
	Power Supply		Ø / V / Hz	1 / 220-240 / 50
Refrigerant	Type		R290	
	Pre Charge	kg	0.220	
	t-CO ₂ eq		0.001	
	GWP		3	
Compressor Type			Inverter Twin Rotary	
Dimensions	Product Net size (W x H x D) (mm)			493 x 773 x 460
	Net Weight (kg)			30.0
	Hose Diameter (mm)			150
	Hose Length (m)			1.5
Features	Embedded Wi-Fi (LG ThinQ)			Yes
	Voice Control			Yes
	Operation Mode			Cool / Dry / Fan
	Auto Evaporating System			Yes
	Remote Controller			LCD Remote Controller
	Air Direction			2 Way Swing
	Auto Restart			Yes
	Auto Clean			Yes
	Child Lock			Yes
	Water Full Indicator			Yes
	Timer			24hr, On/Off
	Air Filter (2 EA)			Washable
	Light On/Off			Dimming (100 / 50 / 0)

※ GWP : Global warming potential
 ※ t-CO₂eq : F-gas(kg)*GWP/1000
 ※ Specification, design and feature are subject to change without prior notice.

HEAT PUMP WATER HEATER

THERMA V

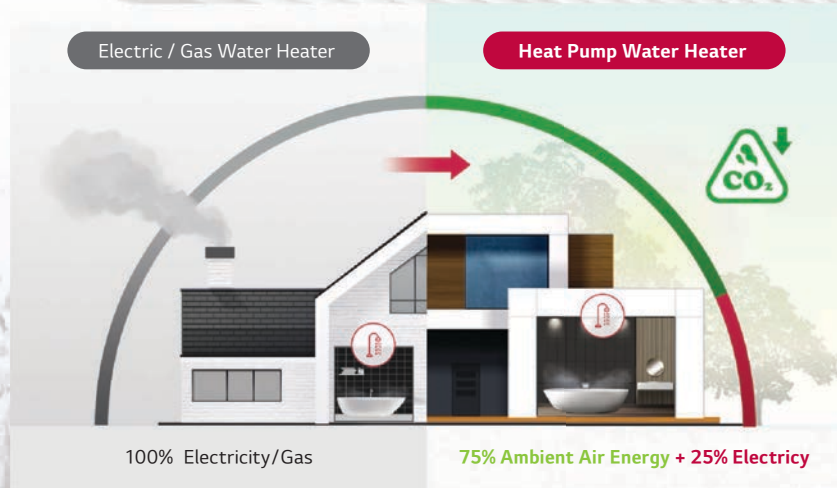
OVER
70%
Energy Saving

30%
Faster
Water Heating



What is a Heat Pump Water Heater?

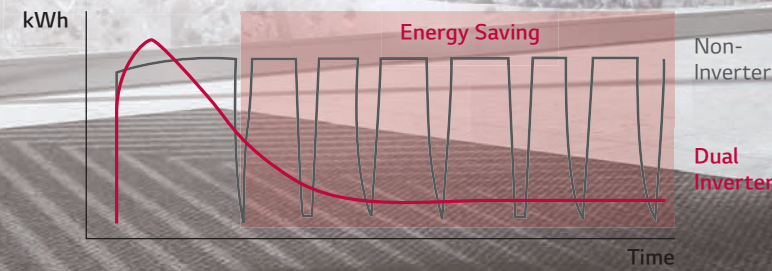
With an increasing emphasis on eco-conscious energy solutions, the LG Heat Pump Water Heater obtains 75% of its energy from outside air. This renewable energy source converts low temperature to high temperature using two heat exchangers, a condenser and an evaporator.



* LG Inverter Technology

LG Inverter Technology can be found in many of LG's renowned devices, from refrigerators and washing machines to our air conditioner line-up. This technology allows the inverter compressor to achieve superior energy efficiency, cooling performance and comfort compared to compressors with on-off capabilities.

Power Consumption Change



Flexible Installation Locations



Laundry Room



Storage Room



Bathroom



Bathroom



Garage



Garage

※ Actual product appearance may differ from the above simulated scene.

Stylish Design

LG's exclusive square design and luxury silver color make it an excellent design for the interior.



Perfect Matching with Various Spaces



Top Class Energy Efficiency

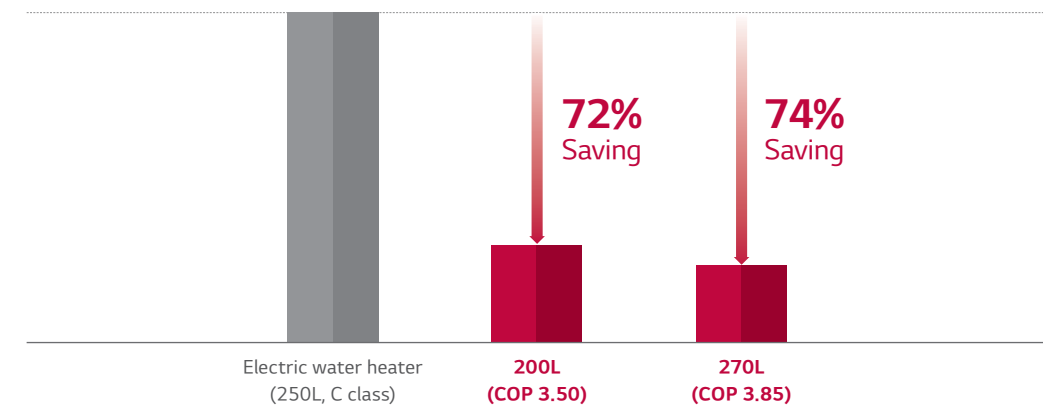
LG's new Inverter Heat Pump Water Heater allows for an impressive energy savings of over 70% compared to a conventional electric heater due to the highly efficient DUAL Inverter Compressor.



Energy Saving

LG's Heat Pump Water Heater, using market's first DUAL Inverter Compressor, DUAL Inverter Compressor can run at low rotational speed (up to 10Hz) and reduces energy consumption, 70% more than Electric Water Heater (250L, C class).

Average Estimated Energy Consumption Saving Per Year



※ Simulation Data on Daily Electricity Consumption, based on EU Climate Condition (Average, 15°C).
 ※ Data is based on LG Internal Simulation.
 ※ The data is depending on the experimental condition and is changeable according to the usage environment

Powerful Heating Performance

The DUAL Inverter Compressor maximizes the heat pump's power in turbo mode for a 30% faster heating time for first-use water than auto mode operation.



Fast & Powerful Water Heating

Turbo Mode can run at high speeds (up to 80Hz) with simultaneous heating. The target water temperature in the tank will be achieved 30% faster in Turbo Mode than in Use auto mode or Auto Mode. Furthermore, Turbo Mode can recover the water at 25% warmer temperatures than Use auto mode or Auto Mode after 1 hour from an empty tank.

- ※ The data is based on LG internal test and simulation.
- ※ The data is depending on the experimental condition and is changeable according to the usage environment

Continuous Operation

The two heat sources, two heaters and heat pump, complement each other perfectly. If one of the heaters or the heat pump fails, the other heat source allows alternative operation.



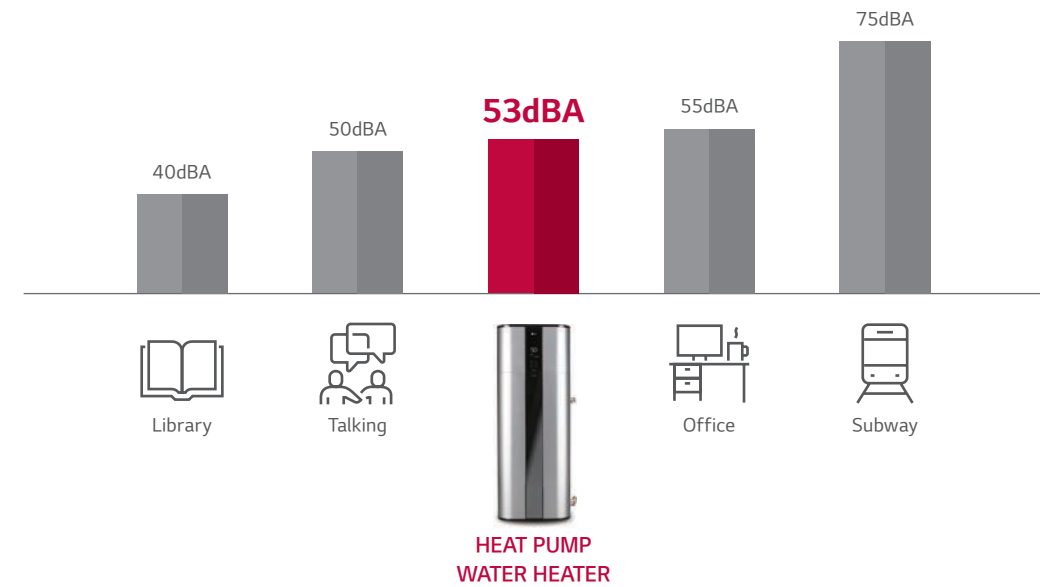
Low Noise Operation

Through BLDC Motor and DUAL Inverter Compressor, noise is reduced to 53dBA (sound power) and provides a comfortable environment even in indoor installation scenes.



Low Noise Operation

Through BLDC Fan Motor and DUAL Inverter Compressor, noise is reduced to 53dBA and creates a comfortable environment even in indoor installation scenes.



- ※ Sound Pressure is 38dBA based on LG internal test.
- ※ The data is based on LG Internal Test (Sound Power).
- ※ The data is based on LG internal test and simulation.
- ※ The data is depending on the experimental condition and is changeable according to the usage environment.

Various Operation Mode

LG Inverter Heat Pump Water Heater can be operated in 4 different modes for different conditions.

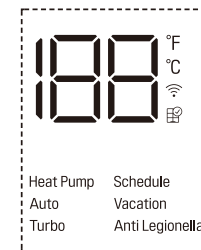


Operation

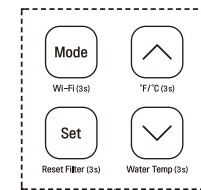


Using Basic Control

Display Screen



② Display Screen

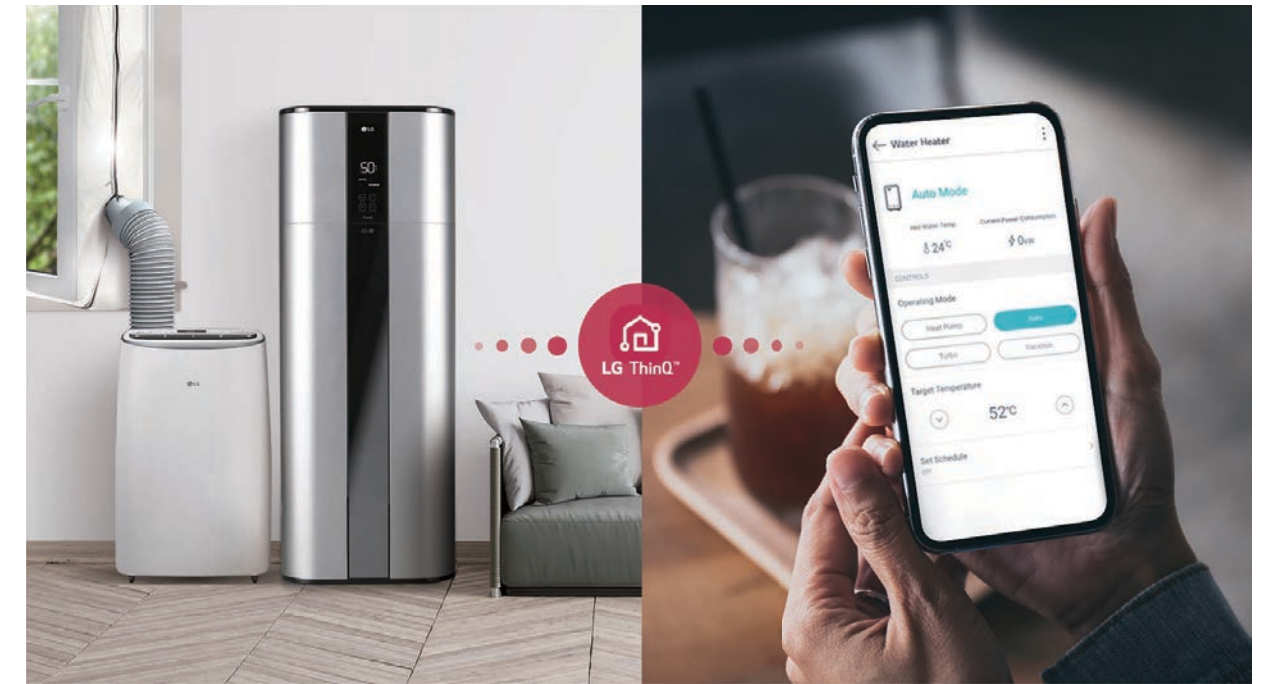


① Button

Button	Display Screen	Description
Mode	Heat Pump	To select the Heat Pump mode.
	Auto	To select the Auto mode.
	Turbo	To select the Turbo mode.
	Vacation	To select the Vacation mode.
-	Schedule	Set Schedule mode only in LG ThinQ application.
-	Anti Legionella	To select the Anti Legionella mode.
Set	-	To set the desired water temperature.
↑ ↓	18.8	To adjust the desired water temperature.
Wi-Fi (3s)	Wi-Fi	To enable the Wi-Fi pairing.
Reset Filter (3s)	Filter	To reset the filter alarm.
°F/°C (3s)	°F °C	To change unit between °F and °C.
Water Temp (3s)	18.8	To display the current water temperature for 5 seconds.

Smart Control

With the LG ThinQ smartphone app, users can easily control and monitor the heat pump, checking for current water temperatures, setting operating schedules and more.



Embedded Wi-Fi

You can control the LG ThinQ app, checking information such as current water temperature, operating mode and more.



Smart Diagnosis

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



Easy Check & Monitoring

Easily comprehensible error messages make detecting a solution and contacting the service center simple and convenient.



powered by
DUAL Inverter Compressor™

LG's DUAL Inverter Compressor™ saves energy with a wide power-saving operating range. Also, in max operation mode, it produces power heating to perform quiet and efficient heating.



Varied-Speed Dual Rotary

A compressor motor with a wider rotational frequency that is energy efficient and has a higher volumetric quick cooling capacity than conventional non-inverter compressor.

Product Reliability Improvement

As twin rotaries balance each other while they are rotating with high speed, it reduces noise dramatically compared to the shaking single rotary compressor. The reduction in vibration reduces the possibility of fractures occurring in the surrounding pipework.

- ※ The data is based on LG internal test and simulation.
- ※ The data is depending on the experimental condition and is changeable according to the usage environment

Benefit & Verification

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



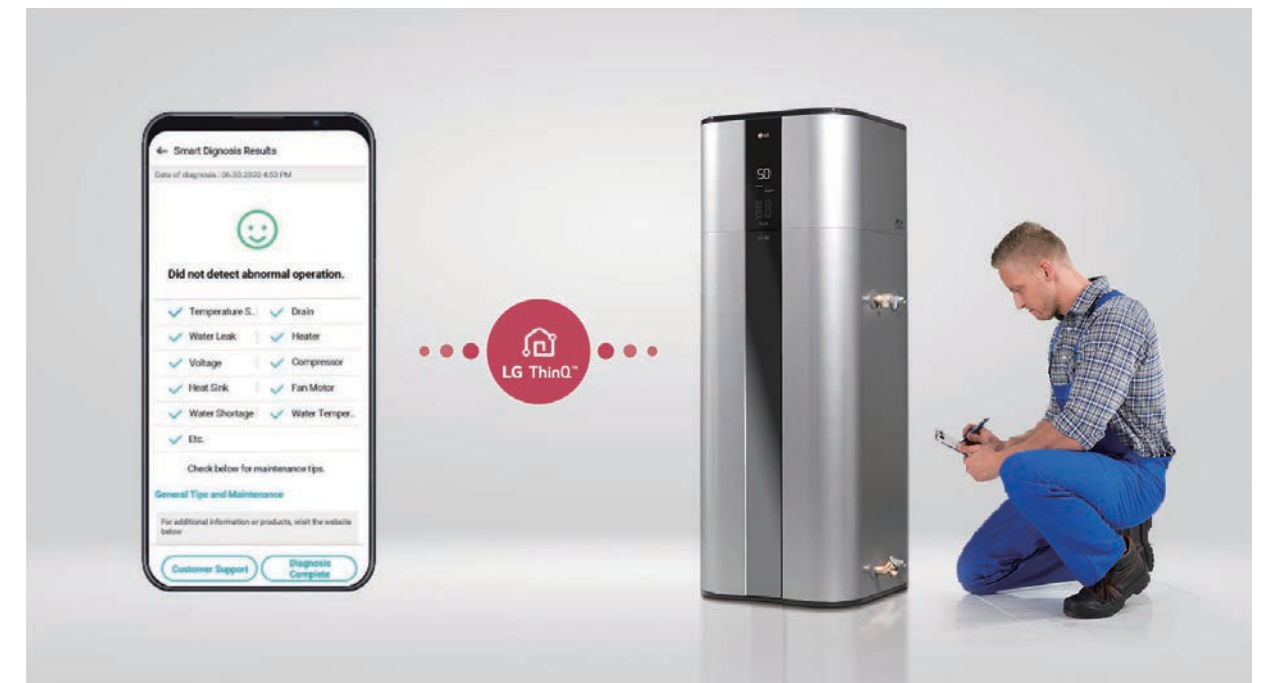
Verification
TUV Rheinland, Long Term Accelerated-reliability Test & High Marginal Test



- ※ 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.

Quick & Easy Installation

The machine's one-direction inlet and outlet piping and easy-to-connect wires in the junction box allow for quick and easy installation. Furthermore, the LG ThinQ app provides Service Alarm and Self Diagnosis programs for convenience maintenance.

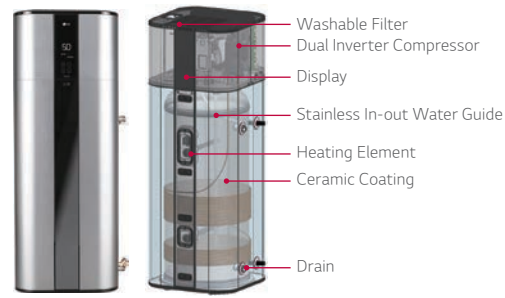


10 Year Warranty

10 year warranty for the core parts of the heat pump water heater - Water Tank, Compressor, TUV Rheinland certified 10 year durability of Dual Inverter Compressor. Ceramic coating inside water tank meets Germany Ceramic Standard DIN 4753 and it provides 10 years of corrosion resistance



※ Other Parts warranty may vary according to After Sales Service condition



SALES MODEL		WH20S	
FACTORY MODEL		R5TT20F-SA1	
Capacity	Volume (Nominal)	200L	
Energy Efficiency ¹⁾	COP (7°C / 15°C)	3.30 / 3.50	
Energy Consumption	Annual Energy Consumption (7°C / 15°C)	kWh	756 / 709
Load Profile		Large	
Power Input	Upper Element Wattage (230V)	kW	2
	Lower Element Wattage (230V)	kW	2
Energy Efficiency Class (7°C / 15°C)		A+ / A+	
Power Supply	Ø, V, Hz	1 / 230 / 50	
Available Voltage Range	V	195 - 265	
Operating Mode		Turbo / Auto / HeatPump / Vacation	
Air Flow Rate	H / M	m ³ /min	6.7 / 4.4
	H / M	CFM	236.6 / 155.4
Sound Pressure Level	Auto	dB(A)+3	38
Sound Power Level		dB(A)	55
Dimensions	Net (W x H x D)	mm	580 x 1,625 x 582
Weight	Net	kg	100
Normal insulation thickness	Min. / Max.	mm	40 / 80
Heat Pump Operation Range	Min. / Max.	°C DB	-5 / 48
Exterior Color Code			Luxury Silver
Compressor	Type		Inverter Twin Rotary
	Warranty	Year	10
	Manufacturer		LG Electronics
	Motor Output	W	43
Design Pressure (System)	High Side		2.0MPa / 290 PSI
	Low Side		0.9MPa / 130.5 PSI
Max. Working Pressure (Water Tank)			150 PSI (1034 kPa)
Circuit Breaker		A	15
Condensate water connection	I.D	mm	19, 12.7
V40 (Mixed water at 40°C)		L	260
Refrigerant	Type		R134a
	Pre Charge	kg	0.650
	GWP		1,430
	t-CO ₂ eq		0.930
Defrost Method			Reverse Cycle
Anode			ICCP
T&P Relief Valve			Yes
Water Connection Location			side
Water Connection Size	inch		G ¾ M
Digital Display			Yes
Wi-Fi (LG ThinQ) ²⁾			Yes
Tank Warranty	Year		10

- 1) Water Heater Energy Efficiency (At Auto mode)
 2) ThinQ Main Function
 - Operation mode (Auto, Heatpump, Turbo, Vacation, Schedule), Temperature setting
 - Monitoring hot water Temperature
 - Maintenance point Alarm (Filter, Anode Rod, etc.)
 ※ This product contains Fluorinated greenhouse gases (R134a).
 ※ GWP : Global warming potential
 ※ t-CO₂eq : F-gas(kg)*GWP/1000
 ※ Specification, design and feature are subject to change without prior notice.



SALES MODEL		WH27S	
FACTORY MODEL		R5TT27F-SA0	
Capacity	Volume (Nominal)	270L	
Energy Efficiency ¹⁾	COP (7°C / 15°C)	3.45 / 3.85	
Energy Consumption	Annual Energy Consumption (7°C / 15°C)	kWh	712 / 646
Load Profile		Large	
Power Input	Upper Element Wattage (230V)	kW	2
	Lower Element Wattage (230V)	kW	2
Energy Efficiency Class (7°C / 15°C)		A+ / A++ ²⁾	
Power Supply	Ø, V, Hz	1 / 230 / 50	
Available Voltage Range	V	195 - 265	
Operating Mode		Turbo / Auto / HeatPump / Vacation	
Air Flow Rate	H / M	m ³ /min	6.7 / 4.4
	H / M	CFM	236.6 / 155.4
Sound Pressure Level	Auto	dB(A)+3	38
Sound Power Level		dB(A)	55
Dimensions	Net (W x H x D)	mm	580 x 2,008 x 582
Weight	Net	kg	119
Normal insulation thickness	Min. / Max.	mm	40 / 80
Heat Pump Operation Range	Min. / Max.	°C DB	-5 / 48
Exterior Color Code			Luxury Silver
Compressor	Type		Inverter Twin Rotary
	Warranty	Year	10
	Manufacturer		LG Electronics
	Motor Output	W	43
Design Pressure (System)	High Side		2.0MPa / 290 PSI
	Low Side		0.9MPa / 130.5 PSI
Max. Working Pressure (Water Tank)			150 PSI (1034 kPa)
Circuit Breaker		A	15
Condensate water connection	I.D	mm	19, 12.7
V40 (Mixed water at 40°C)		L	360
Refrigerant	Type		R134a
	Pre Charge	kg	0.750
	GWP		1,430
	t-CO ₂ eq		1.073
Defrost Method			Reverse Cycle
Anode			ICCP
T&P Relief Valve			Yes
Water Connection Location			side
Water Connection Size	inch		G ¾ M
Digital Display			Yes
Wi-Fi (LG ThinQ) ³⁾			Yes
Tank Warranty	Year		10

- 1) Water Heater Energy Efficiency (At Auto mode)
 2) Energy Label marked A+ and more than COP 3.75 in EU Standard is A++
 3) ThinQ Main Function
 - Operation mode (Auto, Heatpump, Turbo, Vacation, Schedule), Temperature setting
 - Monitoring hot water Temperature
 - Maintenance point Alarm (Filter, Anode Rod, etc.)
 ※ This product contains Fluorinated greenhouse gases (R134a).
 ※ GWP : Global warming potential
 ※ t-CO₂eq : F-gas(kg)*GWP/1000
 ※ Specification, design and feature are subject to change without prior notice.